HERE'S RADIO'S BIGGEST VALUE!

It's Beautiful...It's Powerful!

and it has AUTOMATIC TUNING!

R.C.A. AND HAZELTINE LICENSED

WITH New ACOUSTIC Baffle & MAGNI-GLAS DIAL

Plus THESE FEATURES

• PUSH-BUTTON TUNING
• NEW PLASTIC CABINET
• FULL-ACTION A.V.C.
• DYNAMIC SPEAKER
• I.LUMINATED DIAL
• LATEST TYPE TUBES
• GETS POLICE CALLS

1939 in features—1939 in performance—amazingly low-priced for 1939's value-seeking radio market!

Knight 5 TUBE A.C. SUPERHET

ALLIED brings you an all-star radio value in this new, versatile, and beautiful compact radio receiver with Push-Button Automatic Tuning. It has the quality, the performance power, the features of radio selling at two or three times our low price. The ideal "utility" radio for bedroom, kitchen, den, spare room or office use. A 1939 Radio Leader!

• AUTOMATIC TUNING. The simplest and most effective system yet devised. Offers you a choice of any four of your favorite stations. Simply push a button and there's your station—tuned instantly, easily, perfectly. Each button is directly geared to the tuning condenser; adjustment is made in a few seconds. Operation is instantaneous and tuning is always right on the head. Regular tuning is just as easy, too, by the simple illuminated dial with the magnifying glass face which makes the adjustments quicker and quicker. 15 to 550 meters (535-1730 K.C.) are covered powerfully and deftly, bringing in all standard Broadcast programs as well as many police-calls.

• NEW PLASTIC BEAUTY. The beautiful molded plastic cabinet of the new Knight 5 is a triumph of harmonious design. All edges are softly rounded; the front face has a pleasing beveled design with dial portion set forward for tuning convenience. The speaker grille is uniquely formed as a new principle to give it an affect which greatly enhances the tonal reproduction of the speaker. The Knight 5 is available in plastic-mold cabinet in delicate Ivory, attractive molded Walnut or handsome Black. Cabinet measures 10", 5" x 5". The Knight's Cabinet is distinguished for performance and its outstanding beauty, conforming to the rigid Knight standards of radio quality and value.

• 1939 CIRCUIT DESIGN. Licensed by the famous R.C.A. and Hazeltine laboritories, the circuit of the Knight 5 stems from the latest engineering developments. Uses the latest type tubes as follows: 6K8 as Converter, 6X6 as F. A. A. Amp.; 15 as 1st-2nd Audio; 4C-1st Audio (triple-tone); 47 as Audio Output; PX5 as Rectifier. This tube line-up ensures high gain, big output, and flawless tonal fidelity.

• LATEST FEATURES. The new Knight A.C. 5 has full A.V.C. action to assure uniform volume and freedom from fading. Incorporates a newly designed electro-dynamic speaker with fine volume control; excellent tonal response. Output is 1 watt minimum—1 1/2 watts peak. All circuit components are of the finest standard makes and are designed to give long, dependable life. Unit-owners' Approved. These advantageous features plus Automatic Push-Button Tuning give you top-value.

• 5 TUBE MODEL COMPLETE. Value is the keynote of the 1939 Knight 5 A.C. Superhet. It's a quality receiver everyone can afford to own. The Knight 5 comes complete in handsome plastic-molded cabinet, with R.C.A. tubes. For operation on 110 volts, 60 cycles A.C. shag-wl. 11 lb.
NEW...SMART...
"Tiny Knights"

With ACOUSTIC BATTLE
DYNAMIC SPEAKER
2 WATTS OUTPUT

4 TUBE AC-DC MODEL

So small that you can hold it in the palm of your hand—so light that you can carry it anywhere—below is a price that anyone can easily afford—this new "Tiny Knight" 4 Tube A.C.-D.C. Model is the year's sensation in ultra-compact radio! Tone quality, distance reach, and sturdy dependability have not been sacrificed; in power output and in performance, this compact set is equal to models ten to twelve times its size.

* PLAYS ANYWHERE. Unusual versatility is an outstanding feature of this "Tiny Knight". You can play it wherever 110 volt, 40-60 cycle A.C. or D.C. current is available. You can take it with you on trips—it is easily packed into any size suitcase or overnight bag. Built-in aerial permits instant operation.

* SPLENDID NEW CIRCUIT. The "Tiny Knight" 4 is built around an exceptionally efficient R.C.A. and Hazeltine licensed circuit using the latest tubes as follows: 6J7GT as Det., 6L7GT as R.F. Amp.; 2SL6GT as Beam Power Output; and 256GT as Rectifier. Every tube works, contributing to splendid, thoroughly enjoyable performance. The 2SL6GT Beam Power Output stage develops a full 1/2 watt undistorted output (2 watts maximum) achieving strong volume seldom found in compact sets. Both voice and music are delightfully reproduced through the newly designed 4-inch electro-dynamic speaker.

* NEW EASY-TO-TUNE DIAL. The large molded dial of the "Tiny Knight" 4 is clearly marked and easy to operate. Calibrations are in both meters and kilocycles, covering the complete standard Broadcast range of 175 to 560 meters (335-1170 K.C.) and permitting reception of all standard Broadcast programs plus many Police Calls.

* STRIKING NEW CABINET. An entirely new and beautiful cabinet has been especially created for this splendid receiver. Molded of one-piece Bakelite, the cabinet combines simple lines with flowing harmony. Louvre grille in both attractive and imaginative; it acts as an acoustic baffle, greatly enriching the tonal quality. Cabinets are available in a choice of four rich colors: soft Ivory, lustrous Black, warm Walnut, and handsome Red. Size is only 7" wide, 5" high and 4½ deep.

* BEAUTIFUL TONE QUALITY. No other receiver as small as the "Tiny Knight" 4 approaches the superb tonal quality it offers. You will actually be amazed that so tiny a receiver can furnish such strong volume, such beautiful clarity and selectivity which are likewise surprising. Definitely not a novelty, not a toy, the "Tiny Knight" is America's smallest quality radio—delivering full performance and full value.

* SET COMPLETE. The "Tiny Knight" 4 Tube A.C.-D.C. receiver is supplied complete with Hytron tubes in plastic-molded cabinet as illustrated. For 110 volts, 40-60 cycle A.C. or D.C. Ship. wt. 6 lbs.

E10857. Black. List $12.95
NET EACH, $7.45.
LOTS OF 3, EACH, $6.95

E10855. Ivory.
E10856. Walnut.
NET EACH, $7.35.
LOTS OF 3, EACH, $6.75

$6.95

5 TUBE AC-DC SUPERHET

In the same stunning Bakelite cabinet shown above we also offer another "Tiny Knight" 5 Tube model—a powerful 5 Tube A.C.-D.C. Superhet. All around utility and beauty are exactly the same as in the Knight 4—but even greater distance reach and selectivity are derived from the brilliant Superhet circuit which incorporates an additional tube for added strength.

* BRILLIANT TONE. The "Tiny Knight" 5 reproduces all programs in a manner you'd ordinarily expect only from large-size receivers. The combination of a newly designed 4" electro-dynamic speaker and the special acoustic baffle source grille results in rich, full-voiced reproduction of both music and speech. Generous power is provided too—a full 1½ watts undistorted output (2 watts maximum) for enjoyable reception.

* PRACTICAL VERSATILITY. You can take the "Tiny Knight" 5 along and play it practically anywhere. It operates perfectly from either Alternating or Direct Current (110 volts, 40-60 cycles). It has a special built-in aerial which means that the set is ready to play as soon as you plug it in the line cord. Here is the ideal traveler's radio—as well as the perfect personal or "second" receiver for the home.

* NEW 1935 SUPERHET CIRCUIT. The latest Superhet circuit, licensed by the R.C.A. and Hazeltine laboratories, assures you of the newest engineering developments. Five tubes—everyone working—are used as follows: 6A8 as 1st Det.-Osc., 6K7 as I.F. Amp., 607-2nd Det.-1st Audio, 31L6 as Beam Power Output; 256GT as Rectifier. This circuit with its two dual-purpose tubes achieves seven-tube power and efficiency!

* GETS POLICE CALLS. In addition to full coverage of all standard Broadcast programs, the "Tiny Knight" 5 also tunes upper channel Police Calls. Reception range extends from 175 to 560 meters (535 to 1730 K.C.). Tuning is always easy by means of the big molded dial with clear calibrations (in both meters and kilocycles) etched into its surface. The entire range is also available with programs which are quickly and easily tuned by the unusually selective new superheterodyne circuit.

* SUPREME BEAUTY OF DESIGN. No other ultra-compact cabinet offers the graceful lines, the winning beauty of the "Tiny Knight" models. Molded of one-piece Bakelite, the cabinet presents a lustrous, mar- proof finish enhancing its pleasing streamlined design. Speaker is housed behind a special Louvre grille which is built on a new principle to act as acoustic baffle. Cabinets are available in Black, Ivory, Walnut, and Red. Size is only 7" wide, 5" high and 4½ deep. The "Tiny Knights" possess an attractive gem-size quality resulting in universal appeal.

* SET COMPLETE. The "Tiny Knight" 5 Tube A.C.-D.C. Superhet is supplied complete with R.C.A. tubes in plastic-molded cabinet as illustrated. For 110 volts, 40-60 cycles A.C. or D.C. Ship. wt. 6 lbs.

E10847. Black. List $15.00.
NET EACH, $8.45.
LOTS OF 3, EACH, $8.45

E10845. Ivory.
E10846. Walnut.
E10848. Red.
NET EACH, $16.00.
LOTS OF 3, EACH, $9.45

$8.45

R.C.A. & HAZELTINE LICENSED

TO PLAY IT ANYWHERE

TAKE IT WITH YOU ON TRIPS

THE IDEAL "EXTRA" RADIO
WHEREVER HIGH-GRADE LOW-COST RADIO EQUIPMENT AND FAST SERVICE ARE IN DEMAND—

Allied IS FIRST CHOICE!

To thousands of wise radio buyers everywhere there is only one single, dependable source of supply for everything in the radio field—ALLIED RADIO—the house that is First Choice wherever high-grade, low-cost radio equipment is required. There is no magical formula, no mysterious secret behind this overwhelming preference. There are just three simple reasons for ALLIED'S enduring leadership:

FIRST—ALLIED'S high standards of quality are your assurance that you can buy with confidence—that every item you order from us will meet the most exacting standards for performance and dependability.

SECOND—ALLIED'S low prices always assure you of fullest value for your money. You get more—you save more—you profit more on every purchase. You obtain the full benefits of our efficient way of doing business.

THIRD—ALLIED'S prompt, careful service saves you time and effort. You get what you want just when you want it. Our central location and our efficient shipping methods mean that your orders are delivered quickly and safely.

OUR COMPLETE STOCKS COVER EVERY RADIO REQUIREMENT

In every field of radio, the ALLIED Catalog is recognized as the foremost Buying Guide. Whether your particular interest is a Sound System for a school, a new tester for your service bench, a new rig for your Amateur "shack," replacement parts for any radio set, or experimental equipment for a laboratory, you will find us a complete, dependable source of supply. By consolidating your purchases and by ordering all your radio equipment from one source, you can effect considerable savings in time and transportation costs.

In addition to the full lines of equipment shown in this 180-page catalog, we can always supply—with the least delay—any special or made-to-order equipment you may need. We are constantly in touch with the leading radio manufacturers and can furnish all the newest products promptly.

EXTRA-VALUE SERVICES — EXCLUSIVE WITH ALLIED

Technical Staff. We maintain an extensive staff of expert radio engineers to help you solve problems involved in every phase of radio. Write to us for authoritative advice on your Amateur, experimental, radio building, or Public Address problems.

Educational-Industrial Division. To schools, industries and institutions we are ready to offer valuable and concrete suggestions in adapting radio and sound to special needs. We are prepared to give estimates and to recommend equipment for special purposes.

Sales Promotion Division. Let us help you to increase your sales and profits. We offer dozens of useful sales aids in this catalog and can furnish additional sales literature covering many popular items.


Guarantee

WE GUARANTEE 100% VALUE IN PRICE, QUALITY AND SERVICE

Every item in our catalog is guaranteed to conform exactly to the description and illustration. We guarantee that our merchandise conforms to the standards of the Radio Manufacturers' Association and will perform in the manner intended for such apparatus. Any merchandise that does not operate, it returned at once, will be promptly adjusted by exchange, repair or refund.

—ALLIED RADIO CORPORATION
This diminutive new "Tiny Knight" 5 Tube A.C.-D.C. Superhet is a striking example of progress in the radio art. Here in an ultra-compact, bakelite cabinet measuring only 6.1/2" x 4.3/4" x 1.5" is a real Superhet receiver offering big set tone quality, selectivity and power. Designed and built with lasting far into the future, it is made of sturdy materials and with expert craftsmanship, this new "Tiny Knight" will actually amaze you. You can hold the set in the palm of your hand. The set weighs only 4.6 lbs. and can be carried in an overcoat pocket—you can take it to the beach and always enjoy radio's finest entertainment!

* SMART CABINET STYLING. A new compact molded plastic cabinet—flawlessly designed and executed—is available in either choice of two charming colors: soft Ivory or lustrous and handsome molded Walnut. Attractive grille permits finest acoustical reproduction.

* SET COMPLETE. The "Tiny Knight" 5 Tube A.C.-D.C. Superhet in molded plastic cabinet is offered complete with plastic cabinet, built-in aerial, dynamic speaker, and built-in slide-rule dial. For operation on 110 volts, 50-60 cycles, A.C. or D.C. or with line cord listed below at left from 220 volts, A.C. or D.C. This remarkable adaptability means that you can obtain exceptionally fine two-hand reception practically anywhere that electric current is available. The beautifully new table cabinet shown above has been especially designed to house this new set. Of lustrous finished Walnut woods, cabinet has one-piece horizontally-striped front and sides with contrasting vertically-striped top and bottom trim. Size: 13 1/4" long, 7 1/4" high, 7 1/4" deep. Beautefully-styled throughout.

**LATEST FEATURES**

- **SLIDE-RULE DIAL**
- **DUAL-WAVE RECEPTION**
- **FULL A.V.C. ACTION**
- **INDIVIDUAL COILS**
- **NEW DYNAMIC SPEAKER**
- **BUILT-IN AERIAL**
- **WILL PLAY ANYWHERE**
- **LATEST SUPERHET**

**5 TUBE TINY KNIGHT AC-DC SUPERHET**

- **Full A.V.C.**
- **Dynamic Speaker**
- **2 Watts Output**
- **Plays Anywhere**
- **Smart Cabinet**
- **Weights Only 4 Lb.**

**1939's LATEST — SMALLEST "BIG POWER" Radio Made!**

**KNIGHT 6 TUBE AC-DC 2 BAND SUPERHET**

This handsome new 1939 Knight 6 Tube A.C.-D.C. 2 Band Superhet (with ballast) is the kind of value for which Hazeltime is noted. In reception range, tone, and circuit features, the Knight 6 is easily the equal of many A.C.-D.C. sets at much higher prices. Just try it out for yourself under our Free Trial and Money-Back Guarantee offer (see Page 10) and discover what an exceptional buy this is!

**DUAL-WAVE RECEPTION.** The Knight 6 offers unusually fine Short-Wave and Broadcast reception on full bands 600 to 5,600 meters (625 to 1700 K.C.) affording excellent reception of all standard broadcast programs plus upper channel Police Calls. You will thrill to the way in which this powerful performer reproduces each program in a thoroughly delightful manner—without distortion or blasting.

**NEW SUPERHET CIRCUIT.** The new R.C.A. and Hazeltime licensed Superhet circuit includes R.C.A. tubes as follows: 6A8G (as 1st Det.- Osc. critical purpose); 6KD7 as I.F. Ampl.; 6Q7G as triple purpose 2nd Det.-A.V.C.-1st Audio; 2376G at Beam Power Penteode Output; 2526G at Rectifier; 165C at Beam Power Converter. This circuit actually achieves brilliant seven-tube power and efficiency. Full 2 watts undistorted output is developed and smoothly handled by the special electro-dynamic speaker. Full Automatic Volume Control maintains uniform volume level.

**EASY TUNING DIAL.** The "Tiny Knight" 5 features new clock-type full vision slanted dial face, with soft, indirect illumination. Clear calibrations are in kilocycles for easy station locating.

**CHAKIS PLAYS EVERYWHERE, PLAYS ANYWHERE**

**R.C.A. & HAZELTIME LICENSED**

**LISTED FEATURES**

- **SLIDE-RULE DIAL**
- **DUAL-WAVE RECEPTION**
- **FULL A.V.C. ACTION**
- **INDIVIDUAL COILS**
- **NEW DYNAMIC SPEAKER**
- **BUILT-IN AERIAL**
- **WILL PLAY ANYWHERE**
- **LATEST SUPERHET**

The Knight 6 may be operated from 110 volts, 50-60 cycles, A.C. or D.C. or (with line cord listed below at left) from 220 volts, A.C. or D.C. This remarkable adaptability means that you can obtain exceptionally fine two-hand reception practically anywhere that electric current is available. The beautifully new table cabinet shown above has been especially designed to house this new set. Of lustrous finished Walnut woods, cabinet has one-piece horizontally-striped front and sides with contrasting vertically-striped top and bottom trim. Size: 13 1/4" long, 7 1/4" high, 7 1/4" deep. Beautefully-styled throughout.
Knight 5 Tube

Completely new in cabinet design, in circuit features in compact portability—this attractive Knight 5 Tube AC-DC (with ballast) in the ideal personal or "spare" receiver. Priced to sell yet quality components and careful construction come up to our high standards in every respect.

* SMART PLASTIC CABINET. The beautiful new cabinet, one-piece molded of strong plastic is exceptionally attractive and practical. Available in either soft-ivy or handsome polished walnut; cabinet measures only 7" x 6" x 4½", yet it houses a full-sized chassis and built-in aerial. Pleasing speaker grille louvres are designed for perfect acoustical response. Cabinet will not war or discolour.

* PLAYS ANYWHERE. The compact Knight 5 is unusually versatile and may be used almost anywhere with exceptional efficiency. Operates from Alternating- or Direct Current, 110 volts, 40-60 cycles, or may also be used on 220 volts, A.C. or D.C., with adapter listed below. Here is the ideal traveling companion—the set you can take everywhere. It's small enough to fit in baggage, yet powerful enough to furnish the type of performance everyone will enjoy. Even radios as compact as the Knight 5 can offer such splendid tone quality, such big volume, and such remarkably dependable operation, day-in and day-out. There's never a dull moment when the Knight 5 is at your side, wherever you go. Your favorite programs are instantly at your command. It's the real life of every party!

BIG PILLOW-SHAPED DIAL. The large, easy-to-read flood-lighted dial is seal-calibrated in meters and kilocycles. Covers the complete standard Broadcast range of 175 to 1500 meters (545 to 1720 K.C.). Offers selective and sensitive tuning of all standard Broadcast programs plus upper channel Police Calls. A real performer with fine tone and power.

Knight 5 Tube

A real price leader! This new Knight 5 Tube (with ballast) A.C.-D.C. receiver would sell for much more even without its many special features. But with true Automatic Push-Button Tuning at our amazing low price, it's this year's sensation at a low price!\(^1\) It's the year's sensation of the industry. Combines styling, fine versatility, and powerful performance in a truly unmatched package. Stock up with several of these new sets. They'll sell quickly to bring you large sales volume at excellent profits. Just compare these features:

* PUSH-BUTTON TUNING. The Knight 5 offers genuine Automatic Push-Button tuning of any four favorite stations. Initial adjustment is easy to make right at the buttons, and operation is always accurate. This new convenient way of tuning makes the Knight 5 unanimously easy for anyone to tune. The four station buttons are sufficient to accommodate practically all of the most popular stations in any locality. Everyone wants Push-Button Tuning. And here it is at a price everyone can easily afford!

* PLAYS ANYWHERE. You can operate the Knight 5 with fine efficiency practically anywhere that electric current is available. Works equally well fed from 110 volts, 40-60 cycles, A.C. or D.C. or, with fine cord adapter listed below, will also operate on 220 volts, A.C. or D.C. A truly versatile performer.

* LARGE DIAL. In addition to Automatic Push-Button Tuning, the Knight 5 features a big 4½" fullvision dial with a handy pointer knob. Easy-to-read calibrations are in kilocycles from 175.5 to 1550 meters (540 to 1700 K.C.), covering all standard Broadcast programs as well as many Police Calls. At every point on the dial, the Knight 5 brings in programs clearly and strongly—in a way that you'll enjoy.

Knight 5 Tube

This new Knight 5 Tube A.C.-D.C. (with Ballast) gives you more for your money—more power, better performance, and finer tone—than any other set in its price class. Buy several—this handsome appearance and strong power will win the approval of everyone who is looking for a quality-built receiver at a low price. Take advantage of our lots of 3 price for extra savings and for bigger profits.

* Plays Anywhere. Just plug the Knight 5 into any 110-volt A.C. or D.C. (40 or 60 cycle) outlet, and listen to it bring in program after program in clear, undistorted fashion! On 220 volts use the adapter listed below. Designed especially for portable use, it is ideal for den, bedroom, office, kitchen, etc.—wherever a finely-crafted receiver is desired. The ideal "extra" or "personal" radio receiver for the home.

* Powerful Circuit. The dependable circuit of this remarkable performer is fully licensed by R.C.A. and Hazeltine. It uses the following matched tubes: 6J7G as R.F. Amp.; 6C8 as Det.; 253C as Beam-Power, Pentode Output; 2526 as Rectifier; and 185RG as Line Ballast. Here's a tube lineup that attains a remarkable sensitivity and selectivity rarely found in any other compact receiver.

* Slide-Rule Dial. For greatest ease and accuracy in tuning, the 1939 Knight 5 uses the latest Slide-Rule Dial. Dial pointer travels horizontally across the dial face. Calibrations are in kilocycles and meters—covering 174 to 1560 meters (535 to 1720 K.C.) for American and Canadian standard Broadcast programs and many police calls. You get powerful, enjoyable reception no matter what program you tune.

\(^1\) It's the year's sensation at a low price!
AC-DC PLASTIC

* EFFICIENT NEW CIRCUIT. Many new developments have been incorporated into the carefully engineered Knight A.C.-D.C. 5, employs 6C5 as Detector; 6G6 as R.F. Amp.; 2525 as Beam Power Output; 2525 as Rectifier; and L59BG Ballast. A full 2 watts output is obtained from this economical set. Built-in antenna adds to convenience and utility.

* WONDERFULLY CONSTRUCTED. The latest 5" electrodynamic speaker mounted behind the acoustic baffles furnish graces and richness in every program. Built-in antenna adds to convenience and utility.

* COMPLETE. The Knight 5 Tube A.C.-D.C. Smith barlatt is supplied complete with genuine R.C.A. tubes, 5" Dynamic speaker, and built-in antenna. For operation from 110 volts, 40-60 cycles, A.C. or D.C. $8.75. Shpg. wt., 7 lbs.

E10801, Walnut model.
Retail Value, $13.50.
NET EACH, $7.75.
YOUR NET PRICE.
LOTS OF 3, EACH.
$8.45
E10802, Ivory model.
Retail Value, $14.95.
NET EACH, $8.75.
LOTS OF 3, EACH.
$9.95
E9145, 220 Volt Adapter. NET 59c

AC-DC MODEL

* POWERFUL CIRCUIT. An efficient new circuit, fully R.C.A. and Hazeline licensed, uses latest tubes and latest circuit types as follows: 6C5 as Detector; 6G6 as R.F.; 43 as Power front the power supply, 114 lbs.; 2525 as Beam Power Output; 2525 as Rectifier; and L59BG Ballast. These tubes and this circuit attain a fine degree of sensitivity and selectivity seldom found in sets priced so low. Littl-wound coils add to distance reach, but this antenna provides wide selectivity anywhere you take the set. You can carry this fine receiver in your room to the kitchen or for kitchen, den, guest room, office, bedroom, etc.—wherever a “personal" set is in demand.

* ATTRACTIVE CABINET. The Knight 6 is presented in a very attractive table cabinet, measuring 12 3/4" x 11" x 17 1/4" deep. All wood and parts are of one-piece smoothly grained walnut, with walnut grille and corners and simple but tasteful speaker grille emphasizing the graceful lines. Cabinet accommodates a full 5" Dynamic speaker which provides for pleasing reproduction of both voice and music and handles all programs uniformly. 

* SET COMPLETE. The Knight 5 Tube (with barlatt) is supplied complete with genuine R.C.A. tubes and 5" Dynamic speaker. For use from 110 volts, 40-60 cycles, A.C. or D.C. The “price-leader" set for every desk. Shpg. wt. 11 lbs. Code: VOGUE.

E10803, Retail Value, $20.50.
NET PRICE, EACH, $10.45.
YOUR NET PRICE.
LOTS OF 3, EACH.
$12.25

E9145, 220 Volt Adapter. NET 59c

AC-DC MODEL

* Excellent Tune. The heavy-duty 5" dynamic speaker of the Knight 5 adds to the exceptional volume of the set (full 2 watts output) with a clarity and richness of tone that is amazing in such a low-priced set. You'll find this combination of compact-radio tone quality in the Knight 5. You'll enjoy its full-volume reproduction of every program. 

* Other Features. Additional value features of the Knight 5 include: automatic push button tuning; built-in antenna for maximum convenience; heavy-duty baffle and grille for sharper tuning; quality-built parts throughout. 

* Set Complete. The Knight 5 Tube A.C.-D.C. Smith barlatt is supplied complete with genuine R.C.A. tubes and 5" Dynamic speaker. For operation from 110 volts, 40-60 cycles, A.C. or D.C. 40 to 60 cycles. Shpg. wt. 9 lbs. Code: TEMPO.

E10805, Retail Value, $16.50.
NET EACH, $8.95.
YOUR PRICE.
LOTS OF 3, EACH.
$8.45
E9145, 220 Volt Adapter for above set. NET 59c

Knight 6 TUBE A.C. SUPERHET

If we had to name our first choice for leadership in the low-priced A.C. radio field, we'd have to include this superb 1939 Knight 6 Superhet. Its remarkable power, quality, and richness of tone quality mark it as one of the year's outstanding buys—and we predict it will outsell many a so-called "leader."

* Power-Boost Circuit. An exclusive new development which provides twice as much voltage from the power supply, allowing each tube 100% increase in plate voltage to assure full voltage rating. This ingenious innovation makes the Knight 6 equal in performance to many 7 and 8 tube receivers.

* Slides-Rule Dial. Beautiful, practical and efficient, this dial makes for the simplest, most accurate tuning. Dial has gold face with light green calibrations in both cycles and meters. The Knight 6 tunes 174 to 500 meters (535-1720 K.C.) for strong, reliable reception of American and Canadian standard Broadcast stations, as well as many police calls. Dial-pointer travels horizontally over easy-to-read scales.

* Splendid Tone. For sheer beauty of tone, no other low-priced A.C. radio can compare with the Knight 6 Superhet. The full 2 watts output of the set is handled capably and smoothly by the 5" dynamic speaker, to produce rich, mellow tone—the kind you'd expect only from more expensive receivers.

* 1939 Superhet Circuit. Licensed by R.C.A. and Hazeline. Uses the latest R.C.A. tubes; 6A8G as 1st Det.-Osc.; 6K7 as I.F. Amp.; 6Q7G as 2nd Det.-A.V.C.-1st Audio; 2A6G as Pentode Power Output; 2525 as Rectifier; and 165KAG as Power-Boost Regulator. The use of double and triplex-type tubes adds to the power and sensitivity of the Knight 6, developing 2 full watts output.

* Additional Features. Other value features of the Knight 6 are: Full A.V.C. for freedom from blasting and fading; heavy-duty rubber-mounted tuning condenser; fully shielded components, etc.

* Beautiful Cabinet. The tasteful cabinet of the Knight 6 reflects the quality which is built into the set. Built of selected solid walnut, with dark top and bottom bands contrasting with lighter-finished raised center instrument and grille panel. Horizontal grille bars lend unusual grace and distinction. Size: 12" x 7 1/2" x 7 1/4".

* Set Complete. The Knight 6 Tube A.C. Superhet is offered complete, as illustrated, with 5" speaker and R.C.A. tubes. For 220 volt 60 cycles A.C. operation. Shpg. wt. 12 lbs. Code: CHEER.

E10804, Retail Value, $26.50.
NET PRICE, EACH, $12.25.
YOUR PRICE, LOTS OF 3, EACH.
$12.25

Knight 7 TUBE AC-DC 2 BAND SUPERHET

Here is a new 1939 Knight 7 Tube AC.-D.C. Superhet (with Ballast) which is so efficient it will give you hours of pleasureful radio entertainment, so good-looking it will enhance any room, so low-priced everyone can afford it! Sets a new standard for radio performance at a price ordinarily associated with smaller sets. Look at these features:

- Wide Tuning Range. The Knight 7 A.C.-D.C. covers two full bands: 17 to 51 meters (5800 to 17500 Kc.) for foreign and domestic Short Wave; including police, amateur, airplane and commercial signals; and 175 to 515 meters (5500-1720 Kc.) for the best in American and Canadian standard broadcast programs. The superhet circuit makes for greater selectivity in tuning long distance.

- Push-Button Tuning. Just push a button—and there's your favorite broadcast station, tuned to tuning accuracy. The tuning condenser and push button unit are all in one assembly. Buttons are provided for four of your favorite broadcast stations; once set, the buttons need no further attention. Manual tuning knobs allows you to tune also by the regular method.

- Latest Circuit. Fully licensed by R.C.A. and Hazeltine, this is one of the finest A.C.-D.C. superhet circuits ever designed. It employs the latest Raytheon tubes: 6G7 as Det. (Special purpose); 6G6 as I.F. Amp; 6G7GC as 2nd. Det. A.V.C. Audio (triple-purpose); 25A6 as Power Output; 2ES5 as Rectifier; 1F2B as Ballast, and 6153 as Electric Eye.

- Electric Eye. For utmost accuracy in manual tuning, there's nothing like the Electric Eye. Precise and efficient. When the dark sector is narrowest, you are tuned in accurately.

- Additional Features. Other valuable features include: Full A.V.C. for uniform unbalance of volume, and freedom from blanking and fading; separate coils on each band for maximum efficiency; heavy-duty tuning condenser, etc.

- Beautiful Tone. For beauty of tone, the Knight 7 is unequalled by any other A.C.-D.C. receiver at its price. All programs are reproduced through the full 5" dynamic speaker with a life-like fidelity that will amaze you. Tune in your favorite broadcast programs and be amazed how much better it sounds with the Knight 7!

R.C.A. & HAZELTINE LICENSED

$945 each. Lifestyle

5' Dynamic Speaker
Gets Police Calls
Rakellite Cabinet
Pillow-Shaped Dial
Dual-Purpose Tubes
Superhet Circuit

E10866. Walnut. Retail Value, $34.95. NET PRICE EACH, $17.45. NET, LOT OF 3, EACH, $49.95.

Knight 5 TUBE A.C. SUPERHET

If you are looking for a compact A.C. radio which offers you more performance, more looks, more real value than any other set in its price class—then the Knight 5 A.C. is your choice. From its neat bakelite cabinet to its brilliantly designed superhet circuit, it is the most attractive and practical set yet offered, and new 1939 development for delightful, sparkling performance.

- Smart Plastic Cabinet. The latest and neatest cabinet is made of one-piece molded Bakellite; you have your choice of either smooth Ivory or rich, sleek Walnut. Individually attractive and practical, it will not mar or fade in color. Measures: 7" x 8 1/4" x 6 1/4". Novel speaker grille louvers are designed for perfect acoustical response.

- Attractive Dial. Pillow-shaped and fully illuminated, the dial of the Knight 5 is clearly calibrated in both meters and kilocycles, for exactness and most accurate tuning. Blends perfectly with the modern cabinet design.

- Splendid New Circuit. The Knight 5 uses a superhet circuit, fully licensed by R.C.A. and Hazeltine. Employing the latest tubes as follows: 6G7 as Det. Amp.; 6G6 as I.F. Amp. 75 as Double Det.-A.V.C. 1st Audio (triple-purpose); 41 as Power Output, and 50 as Rectifier.

- Beautiful Tone. The use of the latest dual- and triple-purpose tubes gives the Knight 5 an output and tone quality comparable to any sets of larger size and higher price. The splendid output of the set is capably handled by the 5" electrodynamic speaker, which reproduces all programs with clear, pleasing tone quality.

- Complete Coverage. The 1939 Knight 5 tunes the entire broadcast band, covering 175 to 550 meters (5500-17200 Kc.) powerfully and dependably for the finest broadcast programs plus police calls. It's a set that can be used anywhere—with the most expansive, clear looks, and strong performance.

- Complete Set. The Knight 5 Tube A.C. Superhet Pack. Made in compact unit with Raytheon tubes and 5" Electrodynamic Speaker. For operation from 115 Volts 60 cycles A.C.- D.C., or 8 lbs. 71/4 lbs.

$945 each. Walnut. Retail Value, $34.95. NET EACH, $21.95. NET PRICE, LOTS OF 3, EACH, $59.95. NET PRICE, LOTS OF 5, EACH, $10.45.

E10856. Ivory. Retail Value, $18.75. NET EACH, $10.95.

E9151. Steel Zipper carrying case. NET, 85c.
Knight 6 TUBE A.C. Push-Button SUPERHET

* Push-Button Tuning
* Full-Acting A.V.C.
* Thermometer Dial
* 5" Dynamic Speaker
* With Electric Eye
* Gets Police Calls

We couldn't have chosen a better example to illustrate what ALLIED means by "value." This new 1939 Knight 6 is a perfect combination of strong power, sparkling performance, excellent tone quality, and low price—a combination that no competition can meet!

* Push-Button Tuning. It's easy, it's simple, it's fool-proof! Just press a button and there's any one of your five favorite stations. The Knight 6 uses the latest front-adjusted, electric permeability type of push-button tuning, the most efficient system available. Convenient manual tuning is provided for, also.

* New "Thermometer" Dial. A novel, practical dial which is fully illuminated. A moving band of color clearly shows the exact position of the station indicator on the kilocycle calibrated scale. Easy to read—easy to tune.

* Powerful New Circuit. The perfected R.C.A. and Hazeltine licensed circuit of the Knight A.C. 6 makes for utmost power, sensitivity, and selectivity. Uses the following tubes: 6AG7 as Osc.-Mod. (dual-purpose); 6C7G as L.F. Amp.; 6Q7G as Det.-A.V.C.-1st. Audio (triple-purpose); 6K6G as Audio Output; 5Y4G as Rectifier; and 6G5 as Electric Eye. This new circuit develops more than 2 watts output, resulting in better reproduction and finer tone quality.

* Flawless Tone. To bring you the mellow, delightful tone quality you'd expect only from a much higher-priced set, the Knight 6 uses a special 5" dynamic speaker which reproduces every note at every volume level with a realism that is astonishing. You'll like your favorite programs even better with the Knight 6!

* Electric Eye. The easy visual aid to accurate tuning. Enables you to "see" when your program is perfectly tuned. Keep the volume down; when the dark sector in narrowing, turn the volume up—and there's your program!

Additional Features: Other value features of the Knight 6 are: Full Automatic Volume Control, to prevent fading and blaring; heavy-duty type tuning condenser for greater selectivity, etc.

* Beautiful Cabinet. The Knight 6 is fittingly housed in one of the bestlooking cabinets we have ever offered. Front and sides are of hickorygrain glued light walnut, while top and bottom are of deeper contrast, sheltering horizontal grain bars enhance the flowing lines.

* Set Complete. The Knight 6 A.C. Superhet is offered complete, as illustrated in the picture. No extra tube or set is offered. Assembles complete as speaker. For operation from 110 volts, 60 cycles, A.C. power, it weighs 14 lbs. net.

* Code: FLAME.

YOUR PRICE, LOTS OF 3 EACH...

$1725

OUTSTANDING 1939 FEATURES

WITH PUSH-BUTTON TUNING

WITH ELECTRIC EYE

Knight 5 TUBE A.C. 2 BAND SUPERHET

Here is ALLIED'S Value Leader—A Knight 5 Tube 2 Band A.C. Superhet that transcends all previous conceptions for quality radio performance at a low price. Combining Push-Button Tuning, smart styling, strong power, excellent tone quality, and genuine 2-band reception, it can be matched for "value" purposes.

* Tunes 2 Full Bands. Covering a surprisingly wide range, the Knight 5 tunes 75 to 175 meters (1370-4000 K.C.) for Short- and Intermediate wave sounds and police signals; and 177 to 341 meters (330-1700 K.C.) for excellent reception of American and Canadian standard Broadcast programs. You get 2-band reception at a price ordinarily paid for Broadcast only.

* Push-Button Tuning. The "push-button" type, making tuning easier, simpler, and more accurate than ever before. The Knight 5 will tune any of your favorite Broadcast stations. Condemner and push-button assembly are combined in one unit making for greater efficiency in operation. Automatic and fool-proof, with easy front adjustment.

* Powerful Circuit. Licensed by the famous R.C.A. and Hazeltine laboratories, the superhet circuit of the Knight 5 is built for fullest sensitivity and selectivity. It employs the following latest tubes: 6AG7 as Det.-Osc. (dual-purpose); 6D6 as L.F. Amp.; 607G as 2nd. Det.-A.V.C.-Audio (triple-purpose); 41 as Power Output; and 80 as Rectifier. The double and triple-push-pole tubes add greatly to the circuit efficiency, giving the Knight 5 surprising power and tone.

* Full-Ended Tone. The life-like tonal quality of the Knight 5 Superhet in the type you'd ordinarily associate with much higher-priced receivers rich and clear, reproducing every note with realistic vitality. The full 5" dynamic speaker superbly handles the strong output of the Knight 5.

* Extra Features: Beautiful rectangular dial, with gold face; kilocycles and megacycles are clearly marked; full A.V.C. for uniform maintenance of volume; heavy-duty tuning condenser for greater selectivity, etc.

* Attractive Cabinet. You'll have to go into the higher priced ranges to find a more handsome cabinet than this. Front and sides are of one-piece, horizontally-grained walnut; top and bottom of contrasting dark wood. Vertical grille bars add a distinctive note. Size: 13" x 8" x 64 1/2.4.".

* Set Complete. The Knight 5 A.C. 2 Band Superhet, as illustrated, is complete with speaker, and Raytheon tubes. Shipped wt. 14 lbs. Code: P.P.R.

YOUR PRICE, LOTS OF 3 EACH...

$1325
This beautiful new 1939 Knight 6 Tube 2 Band A.C.-D.C. Superhet is thoroughly in the ALL-LITED tradition of value—incorporating ex-
cessive circuit refinements, expertly engineered for highest performance and tone, and offered at a record-breaking low price. Compare this receiver with other makes selling even at twice the price and you’ll find that only the Knight 6 gives you all these features:

- **DUAL-WAVE RANGE.** In addition to powerful standard Broadcast reception, fascinating Short-Wave foreign and domestic programs are at your finger tips with the Knight 6. Tuning range covers the two most important bands of the Superhet circuit—a wide sweep from 215 to 133 meters (5600 to 18100 K.C.) for Short-Wave, and 174 to 656 meters (2000 to 5000 K.C.) for long and medium wave reception. Knight 6 Automatic Frequency Control is incorporated, assuring an extremely simple initial setup and sensitive—separating stations smoothly and easily.

- **AUTOMATIC PUSH-BUTTON TUNING.** Any of 6 wave sections is instantly available simply by pushing a button. The automatic tuning system used in this receiver is of the latest 1939 perfected type. Initial adjustment is made instantly from the front, at the buttons, and is surprisingly simple. Operation is smooth, effortless, and “right on the head” for each station.

- **OUTSTANDING NEW CIRCUIT.** A newly developed R.C.A. and Hazeltine licensed Superhet circuit— with exclusive big features—is the secret of the fine performance obtained from the Knight 6. Incorporated is the special new "Power Booster" stage which provides twice as much voltage from the power supply. Operates each tube at full voltage rating, and secures tremendous increase in amplification over ordinary 6-tube sets. Conservatively rated, the "Power Booster" attains three times the output of conventional 6 tube radios. Efficient tube line-
up includes: 6K8-1st Det.-Osc. (dual purpose); 6K7-T.F. Amp.; 906G— triple-purpose Diode Det. A.V.C. 1st Audio; 25AG Rectifier Power Output; 25ZGC Rectifier; 16SFRG. "Power Booster" Voltage Regulator. Here is a stupendous circuit and nine tube efficiency at big savings!

- **EXTRA-VALUE FEATURES.** Full Automatic Volume Control provides uniform, un-
varying volume level for all stations. Continuously variable Tone Control permits personal tone selection from Bass to Treble. Rubber-foated condenser, Individual Cocks on each band, and I.F. Wave Trap add to circuit stability, distance reach, and selectivity.

- **SUPERIOR TONE QUALITY.** For tonal beauty and full strength faithful reproduction of voice and music, the Knight 6 is unsur-
passed in its price class. A full undistorted 3 watts output is easily achieved and is smoothly handled by the 6G electro-dynamic speaker. So big an output is a feature ordinarily available only in expensive 7 to 9 tube radios. Every program is re-created for you with all the color, the strength, and the beauty of the original Broadcast studio performance.

- **SET COMPLETE.** The Knight 6 Tube 2 Band A.C.-D.C. Superhet is presented in the un-
usually attractive modern table cabinet shown above. It is horizontally-grained walnut face and sides with contrasting center band of vertically striped walnut. Measures: 12 1/2" long, 10 1/2" high, 8" deep. With genuine R.C.A. tubes and 6G dynamic speaker. For operation from 110 volts, 60 cycles A.C. Shop. wt., 18 lbs. Code: B8R. KNIGHT 8 TUBE A.C.-D.C. SUPERHET

**Slide-Rule Dial**
**U.S. Speaker**
**Full A.V.C.**
**Tone Control Separate Cocks**
**Eye-Located Condenser**
**Hatston Walnut Trim**
**Vehicular Loudspeakers**
**Lossless Power Booster**
**Superhet Circuit**

This means that fine radio reception is available at low-cost practically anywhere that electric current can be had. In addi-
tion to this unusual versatility, the Knight 8 offers pleasing tone quality on all programs through the use of a full 6G6 electro-dynamic speaker. Both voice and music are reproduced with excellent clarity and volume. The Knight 8 makes avail-
able fine entertainment on all-wave bands at unusually low-cost.

**VERSATILE OPERATION.** The

**SET COMPLETE.** The Knight 6 Tube A.C.-D.C. Superhet (with ballast) is pre-

- **3 FULL BANDS**
- **Slide-Rule Dial**
- **Power Booster**
- **Tone Control Separate Cocks**
- **Eye-Located Condenser**
- **Hatston Walnut Trim**
- **Vehicular Loudspeakers**
- **Lossless Power Booster**
- **Superhet Circuit**

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**VERSATILE OPERATION.** The

- **Slide-Rule Dial**
- **Power Booster**
- **Tone Control Separate Cocks**
- **Eye-Located Condenser**
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able fine entertainment on all-wave bands at unusually low-cost.
Knight 8 TUBE AC-DC 3 BAND SUPERHET

This new 1939 8 Tube A.C.-D.C. Superhet (with ballasts) will delight "DX" enthusiasts—it will amaze lovers of fine tone quality and rich cabinet design—will fully satisfy the demands of critical radio buyers. Those who are familiar with the high standards of Knight quality will readily appreciate what an extraordinary value this is to our new customers we say. Try it out under our Free Trial. Money-back Guarantee—put it through its paces—check its brilliant features—if it doesn't meet your demands for a top quality A.C.-D.C. receiver we'll refund every penny of your purchase price!

* World-Wide Reception. The Knight 8 tunes everything on the air: 16 to 53 meters (1650-18600 KC.) for thrilling foreign and domestic Short Wave programs; 52 to 175 meters (1710-5650 KC.) for Short Wave Amateur, police, aircraft, and ship-at-sea signals; and 174 to 560 meters (535-1720 KC.) for your choice of the finest American and Canadian standard Broadcast programs. Here's genuine all-wave tuning that brings you the entire world of radio. Here's radio reception brought to you clearly, powerfully and enjoyably on all programs.

* Push-Button Tuning. The simplest, finest, fool-proof automatic tuning system ever devised. Buttons are provided for seven of your favorite stations, plus one for clearing when manual tuning is desired. Buttons are easily set at front; tuning thereafter is always "right-on-the-head." Station tabs for all important U.S. Broadcast stations are included. You'll like the convenience and accuracy of Push-Button Tuning—the easiest and most enjoyable way of tuning your favorite stations.

* Slide-Rule Dial. A beautiful, rectangular type, measuring 8" x 3 3/4". Upper scale is calibrated in kilocycles for Broadcast band, lower scale in megacycles for Short Wave. Calibrations are clearly etched in black on an attractive gold background, showing important Broadcast stations and Short Wave channels. Has easy-to-see horizontal-traveling pointer.


* Superb Tone. Never before have a A.C.-D.C. receiver achieved the tonal brilliance of the Knight 8. The concert-type speaker (8" in the table model) handles the full 5 watts output efficiently and full, rich, and satisfying tone. The special dual-Baffle Design retains all the depth and warmth of the deepest overtones on both voice and music.

* Real Versatility. Will handle both A.C. or D.C. 40 to 60 cycles, 110 volt current available, the Knight A.C.-D.C. 8 will play perfectly at all voltages. It will also operate on A.C. or D.C. with the adapter listed below. Here's real versatility plus top performance!

* Outstanding Features. Check these extra luxury features: Full-action A.V.C. to maintain uniform volume on all programs, Continuously Variable Tone Control for emphasis of either trolley or base; 3-gang tuning condenser, rubber-booted for maximum selectivity; preselector for added sensitivity; separate coils on each band; promoting unusual selectivity, etc. Each feature contributes to the magnificent tuning range, tonal excellence, and versatility of the Knight A.C.-D.C. 8.

* Beautiful Table Cabinet. No matter what the decorative scheme in your home is, the handsome cabinet of the Knight 8 will harmonize perfectly. Beautifully proportioned, it features a dual grille effect in the newest 1939 fashion. Polished of choice walnut woods, with horizontal graining on front and sides, and vertical striping for top and bottom trim. Size: 21 3/4" long x 17" high x 10 1/2" deep.

* Table Model Complete. The Knight 8 Tube A.C.-D.C. Superhet is offered complete in table model as illustrated above, with 8" speaker and R.C.A. tubes. For 110 volts, A.C. or D.C., $33.95. For operation from 110 Volts, A.C. or D.C., 40-60 cycles. Shpg. wt., 32 lbs. Code: SHELL.

E10907. Retail Value: $67.50. NET PRICE EACH, $53.95. LOTS OF 3, EACH...

E9145. 120 Volt adapter for Knight 8 Tube A.C.-D.C. NET...59c

8 TUBE AC-DC CONSOLE MODEL

A magnificent presentation of the Knight 8 Tube A.C.-D.C. Superhet is shown at the left. Includes all features of the table model described above; Push-Button Tuning; Slide-Rule Dial; All-Wave tuning; Tone Control; Bass Booster; full A.V.C.; 3-gang condenser, preselector, etc. Has large 8"och super-dynamic speaker. Attractive low-boy console cabinet has large baffle area. Sloping instrument panel is of choice grain walnut, with curved side pilasters in richly marked walnut, enhanced by tasteful vertically striped head overlays. Entire cabinet is hand-rubbed to a rich lustrous piano finish. Size: 33 1/2" wide x 16" high x 9 1/2" deep. A superb musical instrument.

* Console Model Complete. The Knight A.C.-D.C. 8 Tube Superhet is offered complete with 8" speaker and R.C.A. tubes. For operation from 110 Volts, A.C. or D.C., 40-60 cycles. Shpg. wt., 75 lbs. Code: SLOPE.

E10908. Retail Value: $89.95. NET PRICE EACH, $65.95. LOTS OF 3, EACH...

8 TUBE AC-DC CHASSIS MODEL

The chassis model of the Knight A.C.-D.C. 8 makes an especially desirable replacement for obsolete sets. Incorporates all the features described above, including a heavy-duty 8" Dynamic speaker. Built to meet the most rigid demands for long life, the chassis is designed for use at a moderate price, it will give brilliant, dependable performance for years to come. We've set the price so low that you can afford to have a Money-Back Guarantee! Chassis size: 15 3/4" long, 9" deep, and 9" high. Complete with selector switch, A.V.C. Switch, T.V.M. Switch, R.C.A. tubes. For operation from 110 volts, A.C. or D.C., 40 or 60 cycles.

Shpg. wt., 30 lbs. Code: COVER.

E10809. Retail Value: $56.95. NET PRICE EACH, $28.50. LOTS OF 3, EACH...

E9145. 220-Volt adapter for use with above sets. NET...59c
Prove to Yourself

THAT NEW KNIGHT RADIOS ARE 1939's BEST BUYS!

15 DAY FREE TRIAL

& MONEY-BACK GUARANTEE

Guarantee

Into the making of the new 1939 KNIGHT RADIOS have gone months of careful research, painstaking planning and designing, and rigorous laboratory testing with the most precise of modern instruments—so that we might bring you the finest radios that modern science and craftsmanship can produce. Not until every model had passed the most exacting tests for quality, durability and performance, and had met our high standards in every detail, were we satisfied that these new sets offer you the most for your money.

And now, so certain are we that you will be thoroughly pleased with any KNIGHT RADIO you may buy—that the new 1939 KNIGHT models will bring you more brilliant performance, finer tone, more luxurious beauty, and more exclusive features—that we make the liberal Free Trial Money-Back Guarantee Offer at the right—the fairest and squarest you could ask for.

Buy any KNIGHT RADIO on our regular terms. Try it out for fifteen days without risk—you be the judge! We make this offer so that you can prove to yourself—what we already know—that KNIGHT RADIOS are 1939's best buys!

NEW FEATURES — NEW LOW PRICES!

1939 KNIGHT Radios incorporate every new and advantageous refinement, and yet they are lower in price than ever before. Take advantage of our additional lots-of-3 discount. This offer applies on orders for any 3 sets, whether of the same model or assorted—to bring you bigger savings and profits.

EVERY RADIO WORKS BETTER WITH A KNIGHT ANTENNA

To get the best results on both Broadcast and Short-Wave bands—to realize what radio enjoyment really means—install a KNIGHT Antenna Kit. Utilizing the famous doublet principle for utmost efficiency, it provides greater signal strength while reducing noise interference. Works with any set having input for either the single or doublet-type—is especially effective when used with KNIGHT Radios (see Page 145 for complete description).

E3391. NET
Knight 7 TUBE 2 BAND A. C. SUPERHET

We'll back up every claim we make for this wonderful new 1939 Knight 7 Tube 2 Band A. C. Superhet. Here is the biggest and best deal ever for those who can appreciate its exceptional combination of brilliant tone, long-distance range, and the convenience of Automatic Push-Button Tuning. Try it out for yourself. It will put it through its paces the advantage of our liberal Free Trial and Money-Back Guarantee offer (see opposite page for details). Just check these value-giving features:

**PUSH-BUTTON TUNING.** Any of six favorite stations can be tuned instantly and automatically just by pushing a button. The Knight 7 incorporates the phenomena-called type of automatic system—the simplest, non-helpful proof method ever developed. In initial alignment, push-buttons are set to required station frequencies directly from the front panel and no special tool or skill are needed. Once buttons are set, no further attention is needed. "Drifting" is entirely eliminated; stations will always come in "right-on-the-head." In addition to six stations buttons, there is a push-button for wave-band switching, and another button for shifting from automatic to manual tuning.

**1939 SLIDE-RULE DIAL.** 5½” long by 2½” high, this dial offers a new conception of manual tuning ease. Needle pointer travels horizontally across dial face to permit quick, accurate station landing. Separate dial scales are provided for the standard Broadcast and Short-Wave bands. Popular foreign stations are indicated in the Short-Wave sector. All calibrations are large, clear, and easily-read. The Electric Eye—built into the dial face—enables you to tune stations manually with volume tuned down; when dark area of the Eye is not observed, you have found your station comes in perfectly.

**PANEL EXCEPTION.** The Knight 7 offers you on two full bands the "cream" of the airwaves. In addition to powerful enjoyable reception of all major stations, from 550 to 1560 meters (550 to 1730 K. C.), the receiver tunes the most popular foreign and domestic Short-Wave programs from 16.5 to 54 meters (6500 to 18,100 K. C.). This combination covers the most important and fascinating medium-wave bands and brings you thrilling entertainment at every point on the dial.

**R. C. A. LICENSED CIRCUIT.** Built up to exacting standards, put down to a price—the Superhet circuit of the new Knight 7 incorporates the latest features developed by the great R. C. A. and Hazeltine laboratories. The newest tube type are correctly combined to produce extra sensitivity, selectivity, and power: 6A7 as 1st Det.; 76 as Osc.; 606 as 1F. Amp.; 73 as Diode Det.-A, V. C.-1st Audio; 41 as Power Output; 80 as Rectifier; and 6US Electric Eye. Additional circuit features include full Automatic Volume Control, continuously variable Tone Control, extra diodes, and diode rectification.

**REALISTIC TONAL QUALITY.** The Knight 7 employs the most efficient type of 6” electro-dynamic speaker (41” in console) to furnish true-tuned reproduction of all ranges in the musical register. Full unfiltered 1½ watts output (2 watts maximum) provides plenty of volume for all programs. In addition, tone control enables you to emphasize bass or treble ranges to suit your personal taste.

**ATTRACTION TABLE CABINET.** The pleasing beauty of the newly designed table cabinet housing the Knight 7 will meet with universal approval. Horizontally grained walnut panel with wrap-around sides is set off by contracting bands of diagonally-stripped "Drifting" walnut. Square grille extends around left side of cabinet. Size: 18¾” long, 11⅛” high, 9” deep.

**SET COMPLETE.** The Knight 7 Tube 2 Band A. C. Superhet incorporates complete with 4 tubes, Raytheon tubes and Raytheon tubes. For operation from 110 volts, 60-60 cycles A. C. Shpg. wt. 25 lbs. Price: WARM.

**E10870. Retail Value $49.95.** NET PRICE EACH $24.95. **YOUR PRICE** LOTS OF 1, EACH $22.95.

7 TUBE A. C. CONSOLE MODEL

The 1939 Knight 7 Tube 2 Band A. C. Superhet is also featured in the beautiful new console cabinet illustrated at the right. Thoroughly in the modern mode, the console is designed to harmonize with any decorating scheme. Walnut woods are used throughout. Instrument panel, tilted and recessed for ease of operation, is of straight grain walnut. Wrap-around sides and contrast bands of lighter-toned walnut are in excellent taste. Grille cloth is in thorough harmony with the cabinet detail. The cabinet houses the powerful 7 tube chassis shown above at right. Has all features as described above, plus the added advantage of a full 8” electro-dynamic speaker. Unusually large baffle area assures full-volume tone quality that is a delight to hear. Features include: Automatic Push-Button Tuning, 4½” slide-rule dial, variable Tone Control, full Automatic Volume Control, Electric Eye, 8” Electro-dynamic speaker, etc. Measures 14” long, 9¼” deep, and 9” high. Supplied complete with automatic tuning mechanism, set of Raytheon tubes, control knobs, etc. For operation from 110 volts, 60-60 cycles A. C. Shpg. wt. 16 lbs. Price: CEDAR.

**E10723. Retail Value $49.95.** NET PRICE EACH $22.45. **YOUR PRICE** LOTS OF 1, EACH $20.95.

7 TUBE A. C. CHASSIS MODEL

The complete chassis of the Knight 7 Tube 2 Band A. C. Superhet (picted at right above) is also offered separately. Ideal as a replacement set for your present cabinet or for custom installations. Ruggedly constructed of highest quality components for steel power and long-life stability; incorporates all features of table and console models described above. Tuned 16.5 to 54 and 1560-1730 K. C., and provides automatic tuning and tone as Slide-Rule Dial, variable Tone Control, full Automatic Volume Control, Electric Eye, 8” Electro-dynamic speaker, etc. Measures 14” long, 9¼” deep, and 9” high. Supplied complete with automatic tuning mechanism, set of Raytheon tubes, control knobs, etc. For operation from 110 volts, 60-60 cycles A. C. Shpg. wt. 16 lbs. Price: CEDAR.

**E10723. Retail Value $49.95.** NET PRICE EACH $22.45. **YOUR PRICE** LOTS OF 1, EACH $20.95.
We set out to develop a seven tube radio with better-than-
ordinary seven tube power and efficiency. We set out to develop such a set with newer and more features, with greater cabinet appeal—and we're proud to say that we've come through with an outstanding new 1939 seven tube radio receiver! We're proud to present it for your consideration.

**Push-Button Tuning.** Just push a button to tune any one of six favorite stations! The latest perfected 1939 foolproof mechanical type system. Initial adjustment is made instantly from the front, at the buttons, with the utmost ease. Operation is smooth, effortless and right-on-the-head for each station. Horizontal-traveling pointer moves with button touch. This new system puts real meaning into the phrase: "Just push a button—there's your program!"

**3 Full Bands.** The 1939 Knight 7 tunes everything on the air: 16 to 53 meters (6550-18100 K.C.) for thrilling foreign and domestic Short Wave programs; 53 to 175 meters (6170-8550 K.C.) for Short Wave amateur, aviation and police signals; and 174 to 560 meters (135170-12 K.C.) for your choice of American and Canadian standard Broadcast programs.

**Slide-Rule Dial.** The latest 1939 6-inch Slide-Rule Dial is used in the Knight 7 to make manual tuning more convenient and accurate. Has illuminated translucent scales and horizontal-traveling pointer. There are separate scales of equal length for each band. The Broadcast band is calibrated in kilocycles, the Short Wave bands are indicated in megacycles.

**Latest Tubes.** Fully licensed by R.C.A. and Harzline, the matchless circuit of the Knight 7 uses the following newest types: R.C.A. tubes: 6K6 as Conv.-Osc. (dual-purpose); 6K7 as 1.F. Amp.; 6C7 in Signal Diode-A.V.C.; 6AG (triple-purpose); 6SC as Phase Inverter Audio Amplifier; 6C6 as Push-Pull Output; 12AU7 as Rectifier. Dual-purpose and triple-purpose tubes attain added power and efficiency comparable to that of many nine tube receivers.

**Power-Boost Circuit.** Full five watts output is developed by the Knight 7. This versatile Power-Boost circuit, at a great saving of space and cost, is made possible by the exclusive new Power-Boost Circuit which actually achieves seven tube power, efficiency and performance. This new circuit provides twice as much voltage from the power supply, allowing each tube to deliver at least 100% increase in plate voltage to obtain maximum voltage results. This means more tube purity and efficiency from each tube. The splendid power output of the Knight 7 is enhanced by such features as full-acting A.V.C. which maintains uniform volume on all stations; Wave Trap which blocks out code interference in the Broadcast band; Individual Cables on each band for added sensitivity and more dependable tuning on each band; rubber-routed tuning condenser for greater selectivity, etc.

**Superlative Tone.** Never has a 7 tube receiver achieved the tonal brilliance of the Knight 7. The high fidelity, high output push-pull audio system develops full five watts output. A full 6-inch special Electro-dynamic speaker of new design reproduces each program with exceptional fidelity, accuracy and realism at any frequency level. Continuously variable Tone Control allows bass or treble emphasis as desired.

**Beautiful New Table Model.** The Knight All-Wave 7 is superbly presented in a beautiful table cabinet model reflecting exceptionally good taste. The instrument panel and sides are of one-piece horizontally-stripped walnut with roll-effect. Has top and bottom grills of contrasting-stripped walnut. The speaker grille is three curved overlay bars which harmonize beautifully with the cabinet design. Dimensions: 18" x 10¾" x 8¾".

**Table Model Complete.** The Knight 7 All-Wave Superhet is offered complete with 6-inch Dynamic Speaker and R.C.A. tubes in the table model cabinet illustrated above. For operation from 110 volts, 60 cycles A.C., Snips. wt., 23 lbs. Code: SILK. E10810. Retail Value: $49.50. Net Lots Price: $7.75. Net Lots Price, Each: $7.75.

## 7 TUBE CONSOLE MODEL

The Knight A.C. 7 is also available in a strikingly beautiful new lowboy type of design which harmonizes beautifully in any home environment. Instrument panel is of striped walnut and is shaped for perfect tuning visibility. The entire console is hand-rubbed to a high piano finish. Dimensions: 32" wide, 36½ high, 13½ deep. The Knight A.C. 7 in console model is presented complete with all features exactly as described above. Automatic Push-Button Tuning; All-Wave coverage on three full bands; new 6-pin Slide-Rule Dial; latest Superhet circuit with Power-Boost feature; full five watts output; Automatic Volume Control; variable Power-Boost; Wave Trap; Individual Cables; etc. In addition, a full 8" Electro-dynamic speaker is incorporated in the console and mounted with unusually effective baffle area. Includes R.C.A. tubes. For 110 volts, 60 cycles, A.C. Snips. wt., 65 lbs. Code: SPEED. An outstanding value in a 1939 console model offering powerful distance-reach, glorious tonal quality, and is beautifully designed at a truly remarkable low price.


## 7 TUBE CHASSIS MODEL

The Knight 7 may also be had in chassis form only to replace obsolete receivers. Exactly as described above, but with 6-inch dynamic speaker, less cabinet. Size: 14½" x 7½" x 8". Complete with escutcheon, push-button tuning mechanism and R.C.A. tubes.


(For efficient all-wave aerial, see page 145.)
Just Push a Button!

R.C.A. & Hazelrite Licensed

Knight Tube 3 Band A.C. Superhet

- Slide-rule Dial
- Electronic Eye
- Tone Control
- A.V.C. Action
- Separate Coils
- Dynamic Speaker
- 3-Watts Output
- Beautiful Tone

The convenience of Automatic Push-Button Tuning, the thrill of All-Wave reception, the beauty of an exquisite table cabinet are combined in this new 1939 Knight 8 Tube 3 Band A.C. Superhet to provide unusually enjoyable radio entertainment at a very moderate price. On every count, the Knight 8 scores with the latest features to assure powerful reception and beautiful tone. Most 8 tube sets with comparable features cost twice the price. Only ALLIED can give you such value.

**All-Wave Range.** The Knight 8 tunes three full bands for continuous and powerful all-wave reception. Covers 11 meters to 32 meters (5500 to 17500 K.C.) for Short-Wave foreign and domestic programs; 80 meters (550 to 1725 meters) for coast-to-coast and emergency broadcasting; and 1725 to 1755 meters (550 to 1750 K.C.) for sensitive and selective American and Canadian standard broad cast reception. This complete range gives you twice the price and almost four times the coverage.

**Automatic Push-Button Tuning.** Tune any of six selected stations automatically—simply by pushing a button! The newest type of push-button assembly—one unit with the tuning condenser—provides for unusually simple initial adjustment at the buttons and fool-proof operation. This automatic system always works—and always gets your favorite stations right on the head.

**Straight Line Slide-rule Dial.** Even manual tuning is easy with this big new 11-inch square grayed Slide-rule type dial. Has separate scales for each wave band with all calibrations in large, clear numerals. Broadcast band is directly calibrated in kilocycles; Short-Wave bands are marked in megacycles. In addition, an invaluable Electric Eye incorporated affords precise visual tuning facilities. Shows exactly when manually set stations are in tune.

**Latest Superhet Circuit.** Fully licensed by the famous R.C.A. and Hazelrite laboratories, the Superhet circuit of the Knight 8 features valuable new developments including a new A.V.C. Design Det. (dual output); 6D6 as I.F.; 567 as triple-purpose 2nd Det., A.V.C., Audio; 76 as Phase Invertor; 2—25Z5 as Push-Pull Output; 25Z5 as Rectifier; 6IN5 Electric Eye. This combination achieves the efficiency and power of many conventional 10 and 11 tube receivers by one tube per band. Each band contributes to stable operation. Other features include: a full undistorted 3.5 watts output (5 watts maximum) to provide plenty of power for any home speaker; full Automatic Volume Control to maintain steady volume level; continuously variable Tone Control for personal tone emphasis on any range within the whole musical register.

Knight 8 Tube Console Model

A deluxe presentation of the Knight 8 Tube 3 Band A.C. Superhet is the superb console model cabinet shown at the right. Finest walnut hardwood veneers are used throughout. Reeded and slightly tilted instrument panel is set off by fluted pilasters and harmonious horizontal speaker grille bars. Entire cabinet is hand-rubbed to a lustrous finish. Measures 36” high, 27” wide, and 19 1/4” deep. Incorporates chassis having all features of table model described above, but has special 10 concert-dynamic speaker mounted on exceptionally large baffle area. Tuned three full bands (no skips) from 17 to 545 meters (550 to 17500 K.C.) for continuous all-wave reception. For fine stability, strong power, and long distance reach, the Knight 1 features: 3 1/2 watts undistorted output (5 watts maximum), full Automatic Volume Control; individual coils on each band; continuously variable Tone Control, etc., as described in detail above. Includes Automatic Push-Button Tuning of any 6 selected stations, Electric Eye, and full 7” x 3 1/2” gold-faced Slide-rule Dial. At an exceptionally low price, this full-sized console model All-Wave 8 tube receiver is a rare value. With Raytheon tubes. For operation from 110 volts. 50-60 cycles, A.C. Shpg. wt., 65 lbs.

**Model 810899. Retail Value, $64.50.**

**Net Price, Each, $31.80.**

**Your Net Price, Lots of 3, Each, $2995.**

8 Tube Chassis Model

The Knight 8 Tube 3 Band A.C. Superhet is also available in chassis form suitable for replacing obsolete sets in your present cabinet or for custom-type installations. Supplied complete with tubes and 10” electro-dynamic speaker, but less cabinet. Features are exactly the same as those of table and console models described above. Includes Automatic Push-Button Tuning, Slide Rule Dial, A.V.C., continuously variable Tone Control, separate coils on each band, Electric Eye, 3 1/2 watts undistorted output. Complete with Automatic tuning mechanism, Raytheon tubes, control knobs, etc. For operation from 110 volts, 50-60 cycles, A.C. Shpg. wt., 15 lbs.

**Code: VOCAL.**

**Model 810897. Retail Value, $44.95.**

**Net Price, Each, $21.80.**

**Your Net Price, Lots of 3, Each, $2065.**

(For efficient all-wave aerial, see page 145.)

**Delightful Tone Quality.** The full 3 1/2 watts output developed from the Push-Pull Output stage is smoothly handled and beautifully reproduced by a full-sized 10” electro-dynamic speaker (10” in console and chassis model). The inclusion of continuously variable personal Tone Control contributes materially to the easy selection of proper tonal emphasis and acoustical reproduction of any program in any size room. You will never tire of listening to the beautiful tone of the Knight 8.

**Exquisite Table Cabinet.** To house the fine new 1939 Knight 8 Tube 3 Band A.C. Superhet, we have selected the distinctive and beautiful table cabinet pictured above. An entirely new note of beauty is struck by the lowercase type speaker grille which, in addition to pleasing the eye, offers finest acoustical properties for correct tone rendition. Cabinet is of selected horizontally-grained walnut woods with contrasting top and bottom bands of vertically striped walnut. Entire cabinet is hand-rubbed to a high finish. Cabinet measures 19” wide, 11” high, 9 1/2” deep. Ideally suited for any room in the home. May be placed on bookshelves or end table in practically any type of setting.

**1 Tube Table Model Complete.** The Knight All-Wave A.C. 8 is offered complete with matched Raytheon tubes and 8” electro-dynamic speaker in table cabinet. Check its many features—its startlingly low price—and you’ll agree that it’s the outstanding 8 tube radio value of the year. For 110 volts, 50-60 cycles, A.C. Shpg. wt., 19 lbs.

**Model 810898. Retail Value, $32.50.**

**Net Price, Each, $25.85.**

**Your Net Price, Lots of 3, Each, $2365.**

**Price, Each, $21.80.**

**Your Net Price, Lots of 3, Each, $2065.**

2445
ELECTRIC PUSH-BUTTON TUNING

Just press a button—and there's any one of 5 stations you may desire! Dependable, time-proven, automatic, the Electric Tuning used in the Knight 11 is motor-driven, the finest type available. (Two-Off' Switch) Tone Control. Phono Connection and Manual Tuning (Release) are also worked automatically, by Push-Button!

OUTSTANDING 1939 FEATURES!

- Electric Tuning
- Push-Button Tone Control
- Full-Acting A.V.C.
- Special Bass Control
- Bass Compensation
- Tunes Three Full Bands
- 2 Stages of I.F.
- Phonograph Connection
- 7 Watts Output
- 12-Inch Dynamic Speaker

We invite you to make this test: Order the Knight 11 or our regular terms and use it under your own operating conditions for as long as 15 days. Enjoy its convenient, entirely automatic Push-Button control system; thrill to its marvelous reproduction of every program, both foreign and domestic; examine the rugged, precision-built, oversized chassis. And then—if you do not agree with us that this is the finest deluxe radio ever offered at no low a price—if you are not entirely satisfied that this is the radio set you have always wanted, you may return the receiver to us under our generous Free Trial and Money-Back Guarantee. Offer see page 10 for details. We make this offer with full confidence that the Knight 11 will delight the most critical and exacting listener—that it will give an entirely new conception of modern radio enjoyment. You can buy the Knight 11 with absolute confidence—confidence in its ability to tune powerfully, to operate with extreme selectivity and sensitivity, to perform always with enjoyable and faithful tone quality on every program.

WE INVITE YOU TO MAKE THIS TEST: ORDER THE KIGHT 11 OR OUR REGULAR TERMS AND USE IT UNDER YOUR OWN OPERATING CONDITIONS FOR AS LONG AS 15 DAYS. ENJOY ITS CONVENIENT, ENTIRELY AUTOMATIC PUSH-BUTTON CONTROL SYSTEM; THRILL TO ITS MARVELOUS REPRODUCTION OF EVERY PROGRAM, BOTH FOREIGN AND DOMESTIC; EXAMINE THE RUGGED, PRECISION-MADE, OVER-SIZED CHASSIS. AND THEN—IF YOU DO NOT AGREE WITH US THAT THIS IS THE FINEST DELUXE RADIO EVER OFFERED AT NO LOW A PRICE—IF YOU ARE NOT ENTIRELY SATISFIED THAT THIS IS THE RADIO SET YOU HAVE ALWAYS WANTED, YOU MAY RETURN THE RECEIVER TO US UNDER OUR GENEROUS FREE TRIAL AND MONEY-BACK GUARANTEE OFFER (SEE PAGE 10 FOR DETAILS). WE MAKE THIS OFFER WITH FULL CONFIDENCE THAT THE KNIGHT 11 WILL DELIGHT THE MOST CRITICAL AND EXACTING LISTENER—THAT IT WILL GIVE AN ENTIRELY NEW CONCEPTION OF MODERN RADIO ENJOYMENT. YOU CAN BUY THE KNIGHT 11 WITH ABSOLUTE CONFIDENCE—CONFIDENCE IN ITS ABILITY TO TUNE POWERFULLY, TO OPERATE WITH EXTREME SELECTIVITY AND SENSITIVITY, TO PERFORM ALWAYS WITH ENJOYABLE AND FAITHFUL TONE QUALITY ON EVERY PROGRAM.

THE CHASSIS

R.C.A. & HAZELTINE LICENSED
New Knight

11 TUBE A. C. SUPERHET

The De Luxe Instant Action Electric

**ALLIED** is proud to present this new 1939 feature-studded Knight 11 — the season’s champion radio value. Nother 11-tube radio at any price near its price can touch it for its combination of outstanding power, Automatic Tuning, marvelous tone and up-to-the-minute styling. We know of no other radio, no other 11-tube radio anywhere that combines so much power, so much beauty and so much enjoyment for so little money.

**ELECTRIC PUSH-BUTTON TUNING.** The Knight 11 is the first radio to offer practically complete automatic control of all tuning operations — and at your choice of three styles. Tone Control is as quick as the touch of a button, but it also provides Tone Control operated by three push-buttons, "on-off" switch on push-button control panel, to phono in case phono attachment is used; push-button for making the change from Electric to manual tuning and manual tuning to phono. Automatic control of practically all operations is exclusively used in the Knight 11 for the first time in radio. You’ll like Electric Tuning because it’s so easy to adjust; it’s fool-proof; it tunes your favorite eight stations in less than a second precisely, smoothly, consistently, and automatically.

**WORLD-WIDE RECEPTION.** Everything that’s broadcast is brought to you — just a button push away. No other radio on the market offers the complete range covers three full bands: 16 to 54 meters (5500-15,000 K.C.) for world-wide Short Wave reception; 54 to 175 meters (355-1370 K.C.) for superior long wave reception of all American and Canadian standard Broadcasts. A special wave-band knob and plate indicator are provided so that you always know the band you are tuning. Just select the program you want — the Knight 11 will bring it to you — quickly, dependably, perfectly!

**LATEST SLIDE RULE DIAL.** For easy, accurate manual tuning the latest Slide-Rule Dial is incorporated. It is ingeniously tilt-mounted for easy visibility and "no-stop" tuning. An individual full-scale length is provided for each band. Calibrations are in kilocycles for the Broadcast band and in megacycles for Short Wave. Names of popular stations and country locations are indicated all the way down. A second dial is featured. You just push a button to make the change from Push-Button to Manual tuning.

**BRILLIANT NEW CIRCUIT.** The very latest efficient tubes are used in the R.C.A. and Hazeltine licensed circuit of the Knight 11 as follows: 6V6GT as I.F. Amp.; 6AK5 as A.C. V.C.; 6AJ7 as A.V.C. V.C.; 6AQ5 as Audio Output; 6550 as Rectifier. There’s real teamwork in this advanced super-high-fidelity circuit that makes the Knight 11 a marvel of power, tone beauty and matchless efficiency.

**NEW TEMPERATURE COMPENSATOR.** The mark of the most luxurious radio is precision in tuning. This Knight 11 is an example of the Electric Tuning Circuit to maintain the Knight 11 circuit in hairline tuning for absolutely perfect tone and to correct for changes in ambient temperature. You simply can’t drift "off-tone." That’s why the Knight 11 is so easy to tune and so beautiful to listen to — it’s as automatically perfect as a radio can be made and will bring you delightful performance for years to come.

**ADDITIONAL VALUE FEATURES.** Other noteworthy features of the 1939 Knight A.C. 11 include: Full Automatic Volume Control for uniform volume on all stations and freedom from fading; R.F. pre-selector for added selectivity and stability; rubber-foamed 4-layer insulation for low-noise, more dependable tuning; 2 I.F. stages for more dependable reception on each band; phono connection (provision with Push-Button control for adding Record Player see Page 153); "On-off" Push-Button control (for turning set on or off instantly, etc. Finest grade components are used throughout, with exceptionally wide safety factors to make long dependable service and enduring enjoyment a certainty.

**POWER TO SPARE.** The Knight 11 has amazing power output — 7+ watts undistorted, 10 watts peak. This volume is beautifully handled by the newly developed 12-inch giant super-dynamic speaker, and is reflected in thrilled tone that reproduces the entire tonal register to perfection from highest treble to lowest bass. Special bass compensation is built in with separate control knob offering 16 positions for subtle variation of bass emphasis. You will never grow tired of listening to the Knight 11 — so life-like, so true to the original is its powerful tone! Even the most discriminating and critical music lover will appal the true-toned performance of this 1939 All-Wave Radio Receiver.

**PUSH-BUTTON TONE CONTROL.** For the first time in any radio receiver! Three buttons are provided for varying tone to give bass or treble emphasis as desired. Assures perfect acoustical correction for every room. Provides absolutely faithful response along the entire musical range without cutting off frequencies. Gives complete tonal control of all programs just by pressing a button! Together with the 10-position bass control knob, the Knight 11 offers 47 separate tonal variations for the most complete tonal control ever incorporated in any radio receiver. It’s amazing; it’s new; it’s exclusive in the Knight 11. You’ll be sure to appreciate these outstanding features which explain the secret of the wonderful tone quality achieved by the Knight 11. You have only to listen to your favorite program over this unusually fine musical instrument, to note the wonderful difference over ordinary receiver.

**AN OUTSTANDING CONSOLE.** The Knight 11 is handsomely presented in a mahogany console cabinet in the latest 1939 touch-key design. Has outstanding appeal and perfect acoustical properties. Features a tilted dial panel of choice-grained walnut, with curved side pilasters for smooth, elegant lines. Two layers of protective finish wood are used, then hand-rubbed walnut, enhanced by tasteful vertically-striped head lay overlays. The console is beautifully finished in a high lustrous effect. Dimensions 36" wide, 30" high, 13" deep. The new 1939 "Tilt-Tuner" cabinet in a fine advance in radio cabinet design. You can easily see and tune the large slide-rule dial without bending or stooping uncomfortably. It’s easy to tune the "Tilt-Tuner."

**KNIGHT 11 COMPLETE.** The Knight 11 All-Wave A.C. Superhet is offered complete in the new "Tilt-Tuner" console as illustrated at left, with 12-inch dynamic speaker and R.C.A. tubes. Fitted in a handsome, A.C. Shipping weight: $13 lbs. Code: CHANT.

**E10550. Retail Value, $105.00. NET PRICE EACH, $15.50. YOUR PRICE, LOT OF 3, EACH.**

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11 TUBE PHONO COMBINATION

For the most exacting muso-lover who wants the best in music reproduction in the home, here is the Knight 11 also offered in an outstanding Phono-Radio combination. Equipped with a de luxe R.C.A. automatic record changer, this unit is the only complete Sound System for your home. The 1939 Knight 11 is an advance in radio development from these wonderful high-fidelity records. Every feature which makes the 1939 Knight 11 so advanced in performance, is incorporated. Every feature has been so many things, from very all-magnetics and the finest speakers and phonograph players, to many difficult musical programs and the old stand-by of the turntable. 

**E10551. Retail Value, $250.00. NET PRICE EACH**

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**with AUTOMATIC RECORD CHANGER**
Presented in the exquisite console shown above, the Knight 8 Tube 3 Band A.C. Superheterodyne is a distinguished musical instrument perfectly suited for the most luxurious setting. Rich walnut woods are rubbed to a piano finish. Insane panel is slightly tilted to afford fullness in operation. A full 10" electro-dynamic speaker is incorporated in the circuit which is otherwise exactly the same as that used in the table model described in detail at the right. Cabinet measures: 37" x 27" x 11½". Ship. wt. 60 lbs. With Raytheon tubes. For operation from 110 volts, 60 cycles A.C. Code: FLUTE, E10874. Retail Value, $79.95. Net each, $35.95. Lots of 3 each... $37.95

8 TUBE A.C. CONSOLE

The deluxe chassis in console model above is also offered separately. Includes all latest features as described above. Measures: 14" wide, 8½" deep, 9½" high. Complete with automatic tuning mechanism, escutcheon, 10" electro-dynamic speaker, Raytheon tubes, knobs, etc. For 110 volts, 60 cycles A.C. Ship. wt. 38 lbs. Code: NEWS. E10876. Retail Value, $52.95. Net each, $32.45. Your net price, lots of 3 each... $24.95

Knight 8 TUBE 3 BAND A.C. SUPERHETERODYNE

- Push-Button Tuning
- Preselctor Stage
- Band-Slide Rule Dial
- World-Wide Range
- Full A.V.C. Action
- Tone Compensation
- Individual Coils

Here is true luxury radio at a popular price. Here are thrilling performance, stirring tone quality, world-wide reception, and the convenience of automatic Push-Button Tuning in a new set so beautifully styled, so richly finished that our unusually low price is truly amazing. So certain are we of the success of the new 1939 Knight 8 Tube A.C. Superhet it will please even the most critical, that we urge you to try it out for yourself—with full protection under our generous Free Trial and Money-Back Guarantee offer (see page 10 for details).

* AUTOMATIC PUSH-BUTTON TUNING. Don't "tune-in" your favorite stations—just push a button—and the station is brought to you instantly, easily. The permeability-type Push-Button System used in this set is double-proof and quick- acting. At initial adjustment the push-buttons are set directly from the front panel—quickly and easily. Six buttons afford automatic selection of any six desired local stations. The seventh and eighth buttons ingeniously provide Tone Control, emphasizing bass or treble as desired.

* WORLD-WIDE TUNING. The full range of modern foreign broadcasts as well as local programs is easily within the reach of the Knight 8 Tunes, 16½ to 54 meters (5580 to 18100 K.C.) for world-wide Short-Wave programs; 54 to 175 meters (1715 to 6550 K.C.) for police, amateur, and aircraft calls, and Ships-at-sea; and 175 to 565 meters (535 to 1730 K.C.) for powerful standard broadcast reception of American and Canadian stations.

* EASY-TO-READ SLIDE-RULE DIAL. In addition to Push-Button Tuning, the Knight 8 is provided with an 8½" x 5½" slide-rule type dial offering a separate scale for each band. Needle-pointer travels horizontally across the dial face permitting quick station logging even when manual tuning is desired. Popular stations on both Broadcast and Short-Wave ranges are clearly indicated.

* SUPREME TONE QUALITY. For splendid reproduction of all programs whether music or voice, the Knight All-Wave Superhet is unsurpassed in the 8-band class. A big 8-inch electro-dynamic speaker (1-inch speaker in console and chassis) brings out the full depth and tone quality of each program. Clever Push-Button Tone Control permits you to select the tone emphasis you most enjoy. Base Compensation—another expensive feature—provides proper balance of tone elements with bass notes always clearly defined. In addition new Bass Booster feature assures correct rendition of the base register no matter how tone control is set. For added enjoyment, a phonograph connection is provided so that you can plug in the Knight Record Player (see page 175) or any similar unit.

* NEW 3539 CIRCUIT FEATURES. Fully licensed by R.C.A. and Hazeltine Laboratories, the new Superhet circuit develops unusual sensitivity and selectivity. Latest R.C.A. tube types are used as follows: 6A7 as 1st Det., 6E6 as F.P. Amp.; 7x6 as Osc., 7x6 as Phase Inverter, 5x6 as 2nd Det., 6A.C. 1st A.C. 1st A.C. 1st A.C. Type 35 tube enables this receiver to equal 9 and 10 tube performance. A pure, undistorted 3½ watts output (3½ watts maximum) is easily achieved from the strong Push-Pull output power stage. Such features as the 3-yard rubber-mounted condenser, precision stage, full Automatic Volume Control, and individual coils on each band, assure you of consistently fine reception.

* GRACEFUL CABINET DESIGN. The Knight All-Wave 8 is presented in an unusually beautiful walnut table cabinet distinguished by a harmonious low-tone speaker grille, diagonally-striped top and bottom bands, and dark-toned strip at base and top edge. Size: 19½" x 11½" x 9½".

* SET COMPLETE. Knight 8 Tube 3 Band A.C. Superhet in table model with Raytheon tubes and 8" speaker. For operation from 110 volts, 60 cycles A.C. Ship. wt. 30 lbs. Code: RIGHT. E10874. Retail Value, $62.95. Net price each, $32.45. Your net price, lots of 3 each... $24.95

$29.95
NEW G.T.C. "PEE-WEE" TRANSMITTER KIT

Here's a peach of a little crystal-controlled rig that makes a hit with everybody—beginners and old-timers alike. A complete 25 watt crystal controlled transmitter that enables you to keep busy at low cost. It just naturally fits into any Ham Shack and makes itself indispensable in a matter what size, model, or age, it is a portable—weighs only 12 lbs., and can be carried anywhere; it's versatile—will accommodate 11 unused radio channel at points in distance, or to drive a 100 watt R.F. ampli- fier. Old-timers will like it, too, as an auxiliary or emergency rig, or to take along on vaca- tion jaunts. The "Pee-Wee" Kit includes a crystal for CW operation on the 40 meter band; with additional plug-in coils you can work the 20 and 10 meter bands without changing crystals. Will work 80 and 160 meters with appropriate coils and crystals. Chassis base is drilled; plate coil, with an- tenna coil, is already wound. Every necessary part—tubes, meters, Bailey 40 meter crystal, etc.—is included. You can wire the "Pee-Wee" in a couple of hours, hook on the anten- na and key, and start "pounding brass."$9555. Complete "Pee-Wee" kit for 110-V. A.C. 60 cycles.

E9566. BATTERY MODEL "Pee-Wee." Operates from a 6 Volt Battery. Use on motor boats, yachts, automobiles, trailers—wherever emergency com- munication might be required. Includes a crystal- lizer and 6X3 rectifier. Works CW on all five bands and, like the AC model above, is a complete transmitter—power supply and all on a small chassis. Complete with tubes and crystal.$21.95

KNIGHT "MAGIC WIRELESS" RECORD PLAYER

Here is the most amazing, most versatile record player ever developed! With absolutely no connections to radio set, this new Knight "Magic Wireless" Record Player will reproduce all phonograph records through any radio with the full tone and volume regularly obtained from your set! May be used anywhere—with any A.C. or A.C.-D.C. receiver no matter what size, model, or age. It is a portable—weighs only 7 lbs., and can be carried anywhere; it's full size, will accommodate all records to full 12" size; it's economical—saves on installation costs. Anyone can install this unit—no technical knowledge is required. Simply plug into convenient electric outlet and you can play records instantly. No need to modulate with radio chass—no impedance-matching problems. Anyone—anywhere—with any electrically operated radio can use the "Magic Wireless" Record Player at once. Newly developed unit uses 2 tubes and, in effect, a miniature broadcaster which transfers energy from record pickup to radio set by radiation over maximum distance of 20 feet. Employs unusual two-transistor—no time preventing instantaneous regular use of radio for broad- cast reception. Features include: 110 Volt 60 cycle A.C. synchronous motor; quality pickup; 8" turntable which takes all 5, 10-, or 15-inch records. Housed in attractive finished wood case with hinged cover. Size, 12½" x 7" x 10½". Volume and tone can be set through regular controls on radio set. Here is a real achievement—brings ideal record playing facilities within the reach of everyone—at a price everyone can afford! spare, wt. 15 lbs.$14.95

LATEST HOME BROADCASTERS

STUDIO TYPE MICROPHONE

A popular style hand-crank microphone for amateur radio or set or amplifier. Looks like a professional crystal type microphone. Includes on-off switch mounted on handle. Furnished with cord and connector prong. (shown at left)$1.18

HAND MICROPHONE

E7087. Similar in size to the Standard model, but fitted with wood handle. Includes cord. (shown at left). YOUR PRICE 98c

DELUXE MODEL

An efficient microphone for home radio use. Can be easily connected to any set. Provides endearing entertainment for everyone; make your own broadcasts and announcements. Does not interfere with radio reception; push-button controls operation. Studily built, finished in attractive green-brown. 5 lbs. Weight, 1 pound. (shown at center right).$85c

STANDARD MODEL

Similar to the De Luxe Model described above, but is slightly smaller in size. In bronze metal case, 3½ lbs. Complete with adapters. Weight, 12 oz. (shown at right).$57c

PAWNEE "MAGNETIC" RECORD PLAYER

Here is another record player that is ideal for home use! This record player is designed especially for use in the home, where it will be used as a music center. It is simple to operate and can be placed anywhere in the room without disturbing any decor. It has a powerful motor which provides a good sound quality and also ensures long life. The record player is also conveniently portable, and can be moved from one room to another as needed. It uses standard 78 rpm records and is equipped with a stylus. The price is $14.95.

E10057. Net each. YOUR PRICE $14.20

E7084. Net each. YOUR PRICE $11.10

E7086. Net each. YOUR PRICE $10.10

E7100. Net each. YOUR PRICE $9.80

E7644. Net each. YOUR PRICE $5.14

E7086. Net each. YOUR PRICE $5.07

E7071. Net each. YOUR PRICE $4.97

E7085. Net each. YOUR PRICE $4.80

E7070. Net each. YOUR PRICE $4.40

E7070. Net each. YOUR PRICE $4.20

E7070. Net each. YOUR PRICE $3.95

E7070. Net each. YOUR PRICE $3.70

E7070. Net each. YOUR PRICE $3.45

E7070. Net each. YOUR PRICE $3.20

E7070. Net each. YOUR PRICE $2.95

E7070. Net each. YOUR PRICE $2.70

E7070. Net each. YOUR PRICE $2.45

E7070. Net each. YOUR PRICE $2.20

E7070. Net each. YOUR PRICE $1.95

E7070. Net each. YOUR PRICE $1.70

E7070. Net each. YOUR PRICE $1.45

E7070. Net each. YOUR PRICE $1.20

E7070. Net each. YOUR PRICE $0.95

E7070. Net each. YOUR PRICE $0.70

E7070. Net each. YOUR PRICE $0.45

E7070. Net each. YOUR PRICE $0.20

E7070. Net each. YOUR PRICE $0.05

E7070. Net each. YOUR PRICE $0.00

E7070. Net each. YOUR PRICE $0.00
RADIO BEGINNERS' BOOKS

These new and valuable books are just what the beginner in radio has been looking for. They are written so that you can easily understand them. They contain the answers to many questions that you have been asking about radio, and they will show you how to build and operate Short Wave equipment.

E4601: Adjustability Current for Beginners.
E4602: All About Aerials.
E4603: How To Build 4 Doole Short Wave Sets.
E4604: How To Make the Most Popular All-Wave 1 and 2 Tube Receivers.
E4606: How to Have Fun With Radio.
E4607: How To Read Radio Diagrams.
E4608: Radio for Beginners.

Price Each: $0.75, Set of 4, Net $3.50

AERIAL FILTER


Your Price: 74c

AERIAL ELIMINATOR

The engineers have developed this highly efficient aerial eliminator after thorough research. Will bring in broadcasts without noise and interference. Ideal for use in locations where outdoor antenna may not be installed. Small and well-made. May be put in the radio cabinet. Easily attached. No tools needed. E8409. List: $0.59.

Your Price: 59c

MULTI-RULE AND GAUGE

Includes a 4" quick-reading 32ths and 64ths scale, a drill-point gauge for correctly grinding 30° angles, a square, a bevel protractor for measuring and laying out angles, a center finder for quickly locating centers of shafts and round flat surfaces, a circle divider with up to 9 equal parts, etc. Stainless steel. A wonderful, versatile tool. E7740. List: $0.95.

Your Price: 95c

USALITE PENLITE

A handy vest-pocket flashlight that will throw a concentrated beam of light into any dark corner. Only 3 1/2" long. 1/2" diameter. Sturdy metal case is finished in polished chromium. Ideal for the serviceman. Completely with bulb and battery. E9116. Each: 35c.

3 For: 98c

E8015, Extra 2 cell battery. Net Each: 7c

HOW SHALL WE SHIP

ENTER AMOUNT REMITTED HERE

Express [ ] Paid in Full $__________

Freight [ ] Part Paid $__________

Parcel Post [ ] C. O. D. $__________

On Parcel Post Shipments Be Sure to Include Enough for Postage, Any Excess Will Be Promptly Refunded.

If You Send Currency, Be Sure to Register Your Letter.

SEE PAGE 158 FOR "HOW TO ORDER"

AMOUNT FOR GOODS

Each $__________

AMOUNT FOR PARCEL POST

(We Refund Every Penny Not Used)

AMOUNT FOR PREPAID

See Note

FREIGHT OR EXPRESS

TOTAL AMOUNT ENCLOSED

If Currency, be sure to send by Registered Mail.
**Famous the World Over!**

R.C.A.-Radiotron tubes are always the standard for dependable performance and superior operating economy. They are the most widely accepted and demanded radio tubes sold today. Known everywhere—bought everywhere!

You can earn bigger profits by buying RCA tubes in quantities. We give you a special 50% discount from the LIST PRICES shown below, when you buy 10 or more RCA Radiotron tubes on one order. For example, if the list price of your tube order amounts to $20, your net cost will be $10, or 50% of the LIST PRICES. RCA tubes are in great demand. You can easily select 25 fast-moving tubes from our listing below for bigger discounts and profits.

---

### STANDARD GLASS TYPE TUBES

<table>
<thead>
<tr>
<th>Type No.</th>
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<th>Type No.</th>
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### ALL-METAL TYPE TUBES

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### OCTAL BASE GLASS TUBES

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### TUBE TEST STICKERS

A roll of 2,000 perforated gummed labels. Imprinted with your name, address and city, has postal stamp date and tube condition. FREE with order for 30 R.C.A. tubes.

---

### R. C. A. TUBE MANUAL

E395. Complete technical specs for all R.C.A. receiving types. FREE with order for 15 R.C.A. tubes, or sold for 20c.


### R. C. A. PINDEX

E396. Pocket directory which gives essential information about tubes, priced, etc. FREE with order for 15 R.C.A. tubes, or 15c.

### FREE TUBE SALES AIDS

E391. DUMMY CARTONS. 25 R.C.A. display tube cartons FREE with tube order.

E392. DECALCOMANIA. 3 color window sign FREE with order for R.C.A. tubes.

E393. PRICE CARDS. Shows list prices for all R.C.A. tubes. Free with tube order.

E394. G. K. TAGS. For complete repair job; 10 free with order for R.C.A. tubes.
RAYTHEON shows you the way to bigger tube profits. Handle this money-making line which offers you amazingly BIG DISCOUNTS and a powerful sales appeal. RAYTHEON tubes are noted for quietness, long life, and efficient performance. They have outstanding reputation for long life, silent operation and brilliant tonal reproduction. For better results and for sure customer satisfaction and good-will, use RAYTHEON tubes for replacements in all radio sets.

SPECIAL QUANTITY DISCOUNTS

Buy Raytheon tubes in quantities for added profits. In lots of 25 or more, we give you a special added discount of 10% from the net prices shown. For example, if the net total price of your tube order amounts to $15.00, your net price at this special discount is $13.50. Build your order to 25 or more tubes and earn extra profits! Round out your stock and increase your profit on every tube sale.

ALL STANDARD GLASS TYPE TUBES

<table>
<thead>
<tr>
<th>Type</th>
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MERCHANDISING AIDS TO INCREASE YOUR TUBE PROFITS

Use these Raytheon sales stimulators, and watch your tube profits grow! Make use of these fine sales aids—be sure to ask ALLIED for them with your next tube order.

DUMMY CARTONS

For display purposes only. Exact replicas of the standard Raytheon tube cartons. These attractive cartons can be used for an arresting sales stimulating display. We offer 12 dummy cartons free with your order for Raytheon tubes.

E694. FREE.

TECHNICAL DATA CHART

This edition invaluable to every dealer and service man contains complete, up-to-the-minute technical data on all Raytheon receiving tubes, new base design diagrams, and complete tube characteristics. We offer this chart free with your order for Raytheon tubes.

E693. FREE.

RAYTHEON DATABOOK

COVERS ALL RECEIVING TUBES

An education in all receiving tubes. Covers all types, with essential characteristics. Also gives operating curves for all active tubes. Includes data on resistance tubes and on panel lamps. Have all this information on hand when you need it. 200 pages. E688. NET 25c

WARNING DISPLAY

A real bull's-eye of a display! Unusually attractive color card for window use. 1.617" diameter. A great "attention getter" that will really attract tube customers. Ask for this fine display the next time you order Raytheon tubes. E667. With tube order, given.

GUARANTEE BLANKS

Consists of "90 Day Radio Repair and Service Guarantee." Has space for complete description of services performed; condition of tubes, transformers, components, wiring, etc., and charges for parts and labor. E692. 25 Blanks with tube order. FREE.

DECAL WINDOW STICKER

Identifying you as an authorized Raytheon Tube Dealer. Gummed on front; can be used on window or tacked on wall. Size: 73/8 x 83/4. E683. With tube order given. FREE.

NEW Raytheon TUBE STICKERS

The new Raytheon tube stickers for glass tubes, have spaces for noting "Date Sold," "Date Tested," "Condition of tube," Satisfactory, or "Unsatisfactory —and space for your name. A pad of 100 is given free with your order for Raytheon tubes. (Available in pads of 2000 with your name imprinted at $1.00.)

E689, Pad of 100 with tube order. FREE.

METAL TUBE STICKERS

Attractive Raytheon stickers as above but for metal tubes. Given free with order for Raytheon tubes. 2000 are available imprinted at $1.00 per pad.

E690, Pad of 100 with tube order. FREE.

REPAIR TICKETS

Consists of combination repair ticket and receipt. Contains space for name, address, phone number, make and model of receiver. Perforated; one end is attached to set or chassis taken in for repairs and detachable end is customer's receipt. E691. 25 Tickets with tube order. FREE.

DEALER PRICE CARDS

Latest handy reference dealer price list card for all Raytheon tubes. Shows interchangeable tube types. Indicates popular replacement types. E698. Request on next order. FREE.
### RADIO TUBES

#### ALL-METAL TYPE TUBES

<table>
<thead>
<tr>
<th>Type No.</th>
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#### OCTAL GLASS TUBES

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#### SPECIAL MAJESTIC SHIELDED TUBES

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### RAYTHEON RESISTANCE TUBES

A complete line of high-grade resistance tubes available in a variety of types, are built practically every AC-DC receiver requirement. Bulbs are selected to give exceptionally dependable performance and long life. Types below are covered practically any AC-DC set replacement need.

### GLASS BULB TYPES—FIG. A

<table>
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List Price. .51.00 NET EACH 51c

### SMALL METAL SHELL TYPE—FIG. B

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List Price. .51.00 NET EACH 51c

### LARGE PERFORATED METAL SHELL TYPE—FIG. C

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List Price. .51.00 NET EACH 51c

### RAYTHEON PANEL BULBS

Typical Raytheon quality is built into these high-grade pilot light bulbs. These dependable miniature lamps are famous for their long life and efficiency and at our low prices give the consumer the best and the finest foreign-made bulbs. Buy these genuine Raytheon pilot light bulbs in lots of ten and save more money at the attractively low quantity price.

#### REGULAR PANEL TYPES

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#### AUTOMOTIVE TYPES

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<tr>
<td>E2242</td>
<td>R53</td>
<td>6.8</td>
<td>.40</td>
<td>7c 41</td>
</tr>
</tbody>
</table>

*Minature Bayonet base; all others screw base. 5 small round bulb.

#### KELLOGG TUBES

**TYPE 401.** Original Kellogg detector-amplifier tube.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Volts</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1010</td>
<td>NET</td>
<td>.233</td>
<td></td>
</tr>
</tbody>
</table>

**TYPE 401.** For use in broadcast and receiver.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Volts</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1011</td>
<td>NET</td>
<td>.249</td>
<td></td>
</tr>
</tbody>
</table>
The popular KNIGHT line of radio tubes has been greatly enlarged to include a complete selection of standard class type tubes as well as octal-class and metal types. You can build all connection with this popular line of superior quality tubes. Precision construction, attractive factory-sealed packaging, and dependable performance will give you big volume-selling sales. Put in a stock of popular KNIGHT types and watch your profits soar!

KNIGHT Tubes are priced to bring you 10% to 15% BIGGER PROFITS. Put in a stock of fast-moving popular types and build real profits to your tube-replacement business. All KNIGHT Tubes are made in factory-sealed cartons, assuring you of perfect merchandise. We carry the complete line of KNIGHT Tubes — including all class and metal types — in regular stock at all times. You can depend on ALLIED for real service and bigger profits!

### ALL STANDARD GLASS TYPE TUBES

<table>
<thead>
<tr>
<th>Type</th>
<th>No.</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>01A</td>
<td>E901</td>
<td>.80</td>
<td>.32</td>
</tr>
<tr>
<td>1A4</td>
<td>E960</td>
<td>1.75</td>
<td>.71</td>
</tr>
<tr>
<td>1A6</td>
<td>E961</td>
<td>1.75</td>
<td>.71</td>
</tr>
<tr>
<td>1B4</td>
<td>E962</td>
<td>2.25</td>
<td>.91</td>
</tr>
<tr>
<td>1B5</td>
<td>E963</td>
<td>2.15</td>
<td>.61</td>
</tr>
<tr>
<td>1C6</td>
<td>E984</td>
<td>1.75</td>
<td>.71</td>
</tr>
<tr>
<td>1F4</td>
<td>E985</td>
<td>1.50</td>
<td>.61</td>
</tr>
<tr>
<td>1F6</td>
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<tr>
<td>1V</td>
<td>E983</td>
<td>1.50</td>
<td>.61</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>No.</th>
<th>List</th>
<th>NET</th>
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</thead>
<tbody>
<tr>
<td>2A3</td>
<td>E967</td>
<td>2.50</td>
<td>1.01</td>
</tr>
<tr>
<td>2A5</td>
<td>E968</td>
<td>1.25</td>
<td>.51</td>
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<tr>
<td>2A6</td>
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<td>.51</td>
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<tr>
<td>2A7</td>
<td>E970</td>
<td>1.50</td>
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<td>2B6</td>
<td>E989</td>
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<td>1.01</td>
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<tr>
<td>2B7</td>
<td>E997</td>
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<td>5Z3</td>
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<tr>
<td>6A4</td>
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<td>.61</td>
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<tr>
<td>6AG</td>
<td>E975</td>
<td>1.75</td>
<td>.71</td>
</tr>
<tr>
<td>6A7</td>
<td>E976</td>
<td>1.50</td>
<td>.61</td>
</tr>
<tr>
<td>6B5</td>
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<td>.91</td>
</tr>
<tr>
<td>6B7</td>
<td>E978</td>
<td>1.50</td>
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### OCTAL BASE GLASS TUBES

<table>
<thead>
<tr>
<th>Type</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1C7G</td>
<td>E750</td>
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<tr>
<td>1D5G</td>
<td>E751</td>
<td>2.25</td>
<td>.91</td>
</tr>
<tr>
<td>1D7G</td>
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<tr>
<td>1E5G</td>
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<td>1E7G</td>
<td>E754</td>
<td>2.75</td>
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<tr>
<td>1F5G</td>
<td>E755</td>
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<td>.91</td>
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<tr>
<td>1F7G</td>
<td>E756</td>
<td>2.25</td>
<td>.91</td>
</tr>
<tr>
<td>1G5G</td>
<td>E757</td>
<td>2.00</td>
<td>.81</td>
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<tr>
<td>1H4G</td>
<td>E758</td>
<td>1.50</td>
<td>.40</td>
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<tr>
<td>1H6G</td>
<td>E759</td>
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<td>.71</td>
</tr>
<tr>
<td>1J6G</td>
<td>E760</td>
<td>1.50</td>
<td>.61</td>
</tr>
<tr>
<td>5U4G</td>
<td>E761</td>
<td>1.50</td>
<td>.61</td>
</tr>
<tr>
<td>5V4G</td>
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<td>5X4G</td>
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<td>5Y3G</td>
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<tr>
<td>5Y4G</td>
<td>E765</td>
<td>1.00</td>
<td>.40</td>
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### ALL-METAL TYPE TUBES

<table>
<thead>
<tr>
<th>Type</th>
<th>No.</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>6C5</td>
<td>E1067</td>
<td>1.25</td>
<td>.51</td>
</tr>
<tr>
<td>6F5</td>
<td>E1066</td>
<td>1.25</td>
<td>.51</td>
</tr>
<tr>
<td>6F6</td>
<td>E1068</td>
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<td>6H6</td>
<td>E1069</td>
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</tr>
<tr>
<td>6J7</td>
<td>E1070</td>
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<td>.61</td>
</tr>
<tr>
<td>6K7</td>
<td>E1071</td>
<td>1.50</td>
<td>.61</td>
</tr>
</tbody>
</table>

### NEW HYTRON BANTAM TUBES

These new tubes represent one of the latest developments in radio tube manufacture. With "T" Bulb and Octal Base, they measure only 1/2" in diameter and range from 3/4" to 3/5" in overall height. Unique electron design and mechanical structure assure excellent characteristics and rugged dependability. Hytron "Bantams" are now being used as original equipment by manufacturers of many compact receivers. Put in a stock to take care of replacement needs.

<table>
<thead>
<tr>
<th>Type</th>
<th>No.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AC5</td>
<td>E850</td>
<td>1.25</td>
</tr>
<tr>
<td>6AG8</td>
<td>E851</td>
<td>1.50</td>
</tr>
<tr>
<td>6CG8</td>
<td>E852</td>
<td>1.25</td>
</tr>
<tr>
<td>6FG8</td>
<td>E853</td>
<td>1.25</td>
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<tr>
<td>6HG8</td>
<td>E854</td>
<td>1.25</td>
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<tr>
<td>6J8G</td>
<td>E855</td>
<td>1.50</td>
</tr>
<tr>
<td>6K8G</td>
<td>E856</td>
<td>1.50</td>
</tr>
<tr>
<td>6G8G</td>
<td>E857</td>
<td>1.50</td>
</tr>
<tr>
<td>6H8G</td>
<td>E858</td>
<td>1.50</td>
</tr>
<tr>
<td>6F8G</td>
<td>E859</td>
<td>1.50</td>
</tr>
</tbody>
</table>

20 LOWEST PRICES—HIGHEST QUALITY—BEST SERVICE
QUALITY KNIGHT BALLAST TUBES

Ballasts are an essential part of any lighting system, ensuring the efficient operation of fluorescent tubes. This section provides a comprehensive guide to selecting and maintaining ballasts, with a focus on Knight Ballast tubes. Important considerations include compatibility with tube types, wattage, and voltage requirements. Regular maintenance and replacement of old ballasts are crucial for optimal performance and safety. 

BLACK BALLAST TUBES

These tubes are designed for use with black light applications, emitting a strong ultraviolet spectrum that is ideal for art, professional lighting, signage, and medical applications. The tubes are available in various lengths and wattages, ensuring flexibility in design and functionality. Black light tubes are non-flammable and can be used in confined spaces. Regular replacement is recommended to maintain optimal performance and safety.

GENUINE EVEREADY MAZDA BULBS

Eveready Mazda bulbs are high-quality, long-life lamps designed for specific applications. They are compatible with a range of ballasts, ensuring a seamless integration. These bulbs feature a compact design, making them suitable for use in tight spaces. Additionally, they are available in various shapes and sizes, catering to diverse lighting needs. Regular replacement of bulbs is necessary to maintain optimal performance.

GENERAL ELECTRIC NEON GLOW LAMPS

General Electric neon glow lamps are designed to provide a vibrant and dynamic glow effect. They are compatible with a variety of ballasts, ensuring a seamless integration. These lamps are ideal for decorative applications, such as signs, displays, and architectural elements. Regular replacement is recommended to maintain optimal performance and safety.
Everything for the RADIO SERVICEMAN

In the following pages ALLIED brings you the most extensive selection of service instruments and replacement parts ever offered in a single catalog. Whether you are setting up a new shop or adding to your present equipment, you can make your entire selection here—quickly and economically. Let ALLIED help you to save and to earn more.

NEW SUPREME "Speed" TEST INSTRUMENTS

MODEL 592 SET TESTER

This model features an exclusive, new push-button switching circuit of advanced design. The 14 push-button control a total of 47 ranges which are available through two pin jacks. Ranges are as follows: 0-0.52, 0.53-1.05, 1.06-2.09, 2.10-4.21 volts D.C.; or 0-0.5, 0.51-1.01, 1.02-2.03, 2.04-4.08 volts A.C.; or 0-100, 100-200, 200-500, 500-1000, 1000-2000, 2000-4000 ohms; 0-5, 0-5-10, 0-10-20, 0-20-50, 0-50-100, 0-100-150, 0-150-250, 0-250-500, 0-500-1000, 0-1000-1500, 0-1500-2000 volts A.C. or D.C.; or 0-10 to 146 D.I. in 2 ranges. A push-button permits using A.C. voltage scales as an output meter. Case size, 8 5/8"x5 1/2"x3 5/8". Shpg. wt., 10 lbs.
E10976, In Case. NET CASH PRICE $40.18
E10981, Less Case. NET CASH PRICE $36.75

MODEL 594 TUBE TESTER

The Model 594 uses only one octal socket but is so designed that you can test all tubes by means of your own octal plug and cable or the Model 593 Analyzer. Any one tube movement can be supplied with the 594. The instrument gives a positive 1-way check on all receiving tubes for (1) opens, (2) shorts, (3) leak, and (4) quality, with special leads for resistors and multi-element tubes. The 594 gives complete with full instructions and a chart listing over 500 tube types. Size of case, 9 5/8"x 4 1/4"x 3 1/4". For 100-110 volts A.C. Only, Shpg. wt., 9 lbs.
E10982, In Case. NET CASH PRICE $25.48
E10983, Less Case. NET CASH PRICE $22.05

MODEL 593 ANALYZER

For the first time there is now available an all-push-button-controlled analyzer. It is no longer necessary to waste valuable time using connectors and twin jacks. Simply connect your multimeter to the two pin jacks on the 593, place analyzer plug in the set's socket, place the set's tube in the 593 and you can quickly and easily make voltage of resistance measurements between any two tube elements or current measurements in any tube element. Two push-buttons are pressed to obtain any reading. No special instructions are necessary. It's as easy to operate as a push button bell. Case size, 12 1/2"x5 3/4"x7". Shpg. wt., 13 lbs.
E10978, In Case. NET CASH PRICE $143.36
E10984, Less Case. NET CASH PRICE $12.25

TIME PAYMENT TERMS FOR ABOVE INSTRUMENTS

E10975. Complete Speed-Service Laboratory ........................................ $8.36 down, $8.36 monthly for 11 months.
E10980. Model 592 Set Tester in Portable Case .......................... 4.12 down, 4.51 monthly for 9 months.
E10981. Model 592 Set Tester in Case ........................................ 4.12 down, 4.51 monthly for 9 months.
E10982. Model 594 Tube Tester in Portable Case .................................. 4.12 down, 4.09 monthly for 6 months.
E10983. Model 594 Tube Tester less case ........................................ 4.12 down, 4.12 monthly for 5 months.
Combination Models 592, 593, and 594 in One Portable Case—
NET CASH PRICE $38.36. TIME PAYMENT TERMS: 5.99 down, 5.99 monthly for 11 months.
Combination Models 592, 593, and 594 in One Portable Case—
NET CASH PRICE $79.01. TIME PAYMENT TERMS: 7.30 down, 7.30 monthly for 11 months.

EASY TIME PAYMENTS ON TEST EQUIPMENT

Get the test equipment you want NOW and let it earn for you as you pay! Most of the instruments listed in this section are available on easy Time Payment Terms through ALLIED. Write for application blank, specifying the models you want. Then watch your new equipment pay itself through increased business and bigger profits.
NET CASH PRICE

The "Zephyr" Push-Button tube tester is one of the outstanding achievements in test equipment for 1933. Modern and up-to-the-minute in every respect, it offers advantages not found in other tube testers. Easy and rapid operation is assured by means of the push-button selector switches. Engineer and novice alike can obtain the information they require and dependable results with this tested and practical instrument. The row of push-buttons permits checking of the plate voltage. The second row of buttons selects the filament voltage, while the next two rows provide a reliable calibration of this voltage to the correct tube terminals. The fifth row controls the pointer test voltages and circuits for the plate and filament forming the complete test. The "Zephyr" will not only speed up your tube checking work, but will soon pay for itself through increased tube sales.

MODEL 506 COUNTER MODEL

This Model has been designed particularly for counter use. Because of the extreme simplicity of its operation everyone can use it. The large illuminated double-scale dial is easily read from both sides of the counter.

Your customers will get a thrill from watching their own tubes go through the "Zephyr" and be invited to ask, "How much was it worth?" Model 506 is housed in bronze giving the professional appearance. For 110 V. 60 cycles. Shlg. wt., 20 lbs. $58.31

S.I.C. TIME PAYMENTS: $5.46 down, $5.46 monthly for 11 months.

MODEL 501 TUBE TESTER

The S.I.C. Model 501 is an improved, compact, hand wallet-type tube checker of exceptional accuracy. Five possible tests are included with this instrument: (1) inter-element leakage between any two tubes, (2) inter-element check between each tube element, (3) short check between any two elements, (4) quality test of complete tube elements, and (5) separate checks for diodes and rectifiers. The 501 is protected from obsolescence by the "Zephyr" principle of replacing entire test equipment by a simple new test tube, which can substitute filament voltage to any two terminals. Tubes such as the 6UF, 6A5, 5X4, 5Y4, etc., are quickly and easily tested. Extra adaptors are not required. The 501 tests all M, G, M-G, octal, non-oval, plain and spark-shielded types and also RT, HI, OZ4, etc., gas rectifiers and all radio types. The new, highly accurate 4-scale meter has an English-reading "Good-1-Bad" scale. Real sapphire bearings are used. The large over-size transmitter prevents unnecessary voltage changes when tubes of different filament ratings are being tested. The bronze panel and molded bakelite carrying case, finished in bronze, gives the professional appearance. Full instructions and a complete chart listing over 300 tubes are included. The case measures 6x10 inches. Shpg. wt., 1.5 lbs. $36.21

E10267. NET CASH PRICE. $14.37 down, $4.97 monthly for 9 months.

MODEL 502 RADIO TESTER

Two complete instruments in one—a radio set tester and a tube checker. The 502 permits two possible tube tests: (1) leakage between any two elements, (2) opens in any element, (3) short check between any two elements, (4) quality test of complete tube elements, and (5) separate tests for diodes and rectifiers. All quality tests are made at full rated load for highest accuracy. The obsolescence-proof "floating filament" feature permits testing such tubes as the 6X4, 5X4, etc., without extra adaptors. The 502 tests all M, G, M-G, octal, non-oval, gas rectifiers and magic-eye tubes. Readings are on a large, highly accurate "Good-1-Bad" scale. Sensitivity of meter is 1,000 ohms per volt. Ranges are: 0-7-140-280-560 volts A.C. and 0-7-140-280-560 volts D.C. 6-2-50 megohms and four output ranges. Leakage of electrolytic condensers is reads directly on the "Good-1-Bad" scale, sensitivity 0.2 mfd. units is used for testing filter and mica condensers. The low d-c-milliammeter range reads 3.5 ohms center scale. First division is 0.1 ohm. The 502 is housed in a white oak case. 10 x 5 inches. The panel is finished in bronze giving the instrument a truly professional appearance. Complete with all accessories and full instructions. For 110-120 volts, 60 cycles A.C. Shlg. wt., 20 lbs. $48.95

E10263. NET CASH PRICE. $5.90 down, $5.90 monthly for 9 months.

S.I.C. TIME PAYMENTS: $5.50 down, $5.50 monthly for 9 months.

MODEL 502-S. Similar to the 502 described above but with a 25,000 ohm per volt measurement meter division. A.V.C., A.F.C., and similar circuits where current drain is an important factor.

E10261. NET CASH PRICE. $6.05 down, $6.05 monthly for 9 months.

MODEL 506 PORTABLE TYPE

The Model 506 Portable is exactly the same as the Counter Model except that the flat panel is mounted in a sturdy, attractive quartered-oak carrying case with a leather handle. While designed primarily for portable use, the 506 will be found very useful in the service work. The meter utilizes a single scale dial. Case measures 13x9x6 1/2". For 110 V, 60 cycles. Shlg. wt., 4 lbs. $58.31

E10227. NET CASH PRICE. $5.46 down, $5.46 monthly for 11 months.

MODEL 504 POCKET MULTIMETER

The new S.I.C. Model 504 Multimeter is a compact, yet highly versatile instrument. It is a two-range pocket meter. The meter utilizes a single scale dial. Case measures 3 1/4x1 1/2x 1/2". For 110 V, 60 cycles. Shlg. wt., 2 lbs. $152.00

S.I.C. TIME PAYMENTS: $4.73 down, $4.73 monthly for 3 months.

MODEL 551 ANALYZER

The new Model 551 analyzer permits fast and accurate checking of all radio circuits. It is an executive "Free Reference Point System of Analysis." All measurements and calculations are made in volts and current measurements may be taken between any two tube elements or between any tube element and chassis. All multimeter ranges are read directly on the new type square-face panel meter. Meter ranges are: 0-7-140-280 volts D.C. at 13.2 ohms, 0-7-140-280 volts A.C. at 50,000 ohms and 0-7-140-280 volts D.C. at 8000 ohms, 0-7-140-280 volts A.C. at 50,000 ohms and 0-7-140-280 volts D.C. at 8000 ohms and 0-2000-4000 volts A.C. at 8000 ohms and 0-200-4000 volts D.C. at 8000 ohms. 0-6-20-200-2000 ohms; 0-6-20-200-2000 ohms. For use in radio circuits through the test connections. The extra 8 elements are quickly located on the multiple Rows and separated by means of a separate function. The first row is for test equipment, the second row for self-contained batteries. Shlg. wt., 1 lb. $38.17

E10248. NET CASH PRICE. $4.24 down, $4.24 monthly for 9 months.

MODEL 551S. The 551S is identical to the 551 except that it is equipped with an ultra-sensitive 25,000 ohm per volt meter. Features 40 microammeter D.C. range instead of the 1 milli range.

S.I.C. TIME PAYMENTS: $4.84 down, $4.84 monthly for 9 months.

MODEL 541 MULTIMETER

The 541 is one of the most efficient Net Testers available. An indexed rotary switch selects the following ranges, 0-7-140-280-560 volts A.C. and 0-7-140-280-560 volts D.C. at 13.2 ohms, 0-7-140-280-560 volts A.C. at 5000 ohms and 0-7-140-280-560 volts D.C. at 8000 ohms and 0-2000-4000-8000 volts A.C. at 5000 ohms and 0-200-4000-8000 volts D.C. at 5000 ohms. The megohm range consists of a self-contained power supply. Low ohms range reads up to 10 megohms on a single scale. Quartered oak case, 4 x 2 x 1 3/4". Shlg. wt., 1 lb. For 110-120 volts, 60 cycles A.C. Shlg. wt., 12 lbs. $26.41

E10249. NET CASH PRICE. $3.70 down, $3.70 monthly for 7 months.

MODEL 541S. The 541S is identical to the 541 except that it is equipped with an ultra-sensitive 25,000 ohms per volt meter. Features 40 microcandles D.C. range instead of the 1 milli range.

S.I.C. TIME PAYMENTS: $3.00 down, $3.00 monthly for 8 months.
585 DE LUXE DIAMONTRON
- A Complete Portable Laboratory
- Double view Illuminated Meters
- Full Analysis of Every Circuit
- Tube Tests on "Good-Bad" Scale
- Forty-Two Multimeter Ranges
- 5 Decibel Ranges -10 to +10 DB

A truly advanced professional service test instrument. Makes quick and accurate checks of all circuits and components; also tests every item of test equipment. The Model 585 incorporates exclusive free frequency Point Analysis system that checks every circuit and tests all items for mains, leakage and shorts. All checks are made with real-time readings on the instrument. For 95-125 volts, 60 cycles A.C. $95.00

S.I.C. TIME PAYMENTS: $8.69 down, $8.69 monthly for 11 months.

570 SIGNAL GENERATOR
Covers from 125 Kc. to 60 M.C. in 8 bands. Fundamentals cover to 15,000 Kc.; harmonics cover 15 M.C. to 60 M.C. Has directly calibrated amplitude dial. Scales Dave 60 cycles horizontally. All scales are balanced accurately by use of electron-coupled oscillator and complete circuit shielding; not affected by noise, magnetic fields, variations in line frequencies, at all the circuits. A.C. and D.C. meters. For $58.75

115-125 volts, 60 cycles A.C. $31.30

520 UNIVERAL A.C. BRIDGE
Here is a sensitive, accurate Universal Bridge that will speed up your work and solve many of the problems that are a hazard of all other different types. The 520 measures the resistance, capacitance, inductance, and d-c. and a-c. circuits where current drain is an important factor. The bridge will be of great value in troubleshooting and in. Genuine American precision bearings and heavy, solid forged nonmagnetic bridge frame. $38.17

S.I.C. TIME PAYMENTS: $2.19 down, $4.29 monthly for 9 months.

512 METER KIT
The meter used in this kit has a sensitivity of 25,000 ohms per volt. Ideal for installation in A.V.C. A.F.C. and R.F. test equipment where current drain is an important factor. The isolated circuit will be of great value in troubleshooting and in the measurement of d-c. and a-c. circuits. The isolated bridge frame is nonmagnetic, solid forged nonmagnetic bridge frame. $19.55

MODEL 511 FOUNDATION KIT
One meter with long, easy-read scale: 0-30-150-300-700-1400 volts A.C. and D.C.; 0-0.5-3-15-30-75-150-300 d-c. milliamps; 6 output ranges up to 1500 volts A.C. and D.C. The kit includes resistors, switches, rectifiers, condensers, leads, and complete instructions with diagrams. Shipped, wt. 12 lbs. $14.65

SPECIAL COMBINATION PRICES
Model 582A Signal Generator and Model 546 Oscilloscope
S.I.C. TIME PAYMENTS: $11.63 down, $11.63 monthly for 11 months.

MODEL 582 SIGNAL GENERATOR
Incorporates all the features of the Model 582A described above, but does not include the push-button control. Size 15% x 9% x 10% lbs. $58.75

S.I.C. TIME PAYMENTS: $5.50 down, $5.50 monthly for 11 months. 24 RADI0 KEPARATW SPORT BLANKS AND DESCRiptiVE LITERATURE SUPPLIED ON REQUEST
NEW AEROVOX CAPACITY AND RESISTANCE BRIDGE

REGARDING THE USE OF OTHER TEST EQUIPMENT

Nothing is better than to have a good test equipment. To make sure that your test equipment is in working order, it is necessary to have a good and modern test equipment. It is not necessary to buy a new piece of equipment every year, but it is necessary to have a good piece of equipment that is reliable and accurate. This is the reason why it is important to have a good test equipment.

NEW MODULAR TESTER

The test equipment is designed to measure the resistance of a component or a circuit. It is an essential tool for any electronics technician. It is important to have a good test equipment that is reliable and accurate.

THE REVOLUTIONARY RIDER "CHANALYST"

THE GREATEST ADVANCE IN THE HISTORY OF SERVICE INSTRUMENTS

Due to the fundamental design of this instrument, it is possible to test for any type of faults without the use of any other test equipment. It can be used in any stage or part of a receiver or amplifier with no special speed and efficiency over the old ones. This is true no matter how complicated the circuit may be, and no matter the number of tubes used. Locating defects in a set is much more difficult and time-consuming than finding them. By acting upon them, the Chanalyst cuts down the time necessary to analyze radio troubles to a minimum. One can check the signal at any point in the circuit without disturbing operation of set. All testing is done without the use of any plugs or adapters.

HAS 6 SEPARATE CHANNELS

The instrument has 6 separate and independent channels: R, F, P, A, F, E, etc., and operating voltage channels. No includes a watt- meter, a CD test機會, and a current drain tester. Zero position of voltmeter needle is at center of 0-120-300-600 volts D.C. and 0-0 to 600 A.D.C. and 0-0 to 600 D.C. The meter permits measuring actual line volt. Both A.C. and D.C. can be measured under actual operating conditions. The meter is housed in a morocco finish. Size: 11 x 8% x 7.5. In the history of test equipment, the Chanalyst shows itself as one of the type of trouble definitely the first time—there is no guesswork. The beautifully finished panel measures 14 x 16 x 2.5. For $110.00.

TEST INSTRUMENTS

MODEL 397 TUBE TESTER

The Model 397 is one of the finest, low-priced tube testers on the market today. All tubes are tested under voltage and leads as recommended by the R.M.A. and all the leading tube manufacturers. Tests all metal, glass, metal-glass, sapphire, cold-cathode rectifiers, and battery tubes. A separate ballast tube chart is supplied with the instrument. The readings for line main voltage, line voltage, and leakage of all tubes are readily made. The accuracy of calibration has been carefully checked. The 3" square A.D.C. a meter has an accuracy of 5%. A direct-reading "Good-Bad" calibrated scale is used to permit the matching of tubes. Model 397, $8.46. Model 397 T.E., $10.96. Model 397 T.E., with self-contained batteries, $10.46. Complete with self-contained batteries, $10.46.

MODEL 409 MULTITESTER

The sensitive, 2000 ohms per volt 2" fan-type meter of this instrument is part of the new line of vari-controllable tests as follows: 0-0 to 500-1,000-2,000 volts A.C. and D.C.; 0-0 to 500-1,000-2,000 ohms D.C., and 0-0 to 500-1,000-2,000 ohms D.C. The meter permits measuring actual line volt. Both A.C. and D.C. can be measured under actual operating conditions. The meter is housed in a morocco finish. Size: 11 x 8% x 7.5. Complete with self-contained batteries, $10.46.

MODEL 699 TROUBLE SHOOTER

Here is an instrument that is priced lower than any other type of A.D.C., A.D.C., and A.C. The instrument is available in the following ranges: 0-0 to 500-1,000-2,000 ohms D.C. and 0-0 to 500-1,000-2,000 ohms D.C. The meter permits measuring actual line volt. Both A.C. and D.C. can be measured under actual operating conditions. The meter is housed in a morocco finish. Size: 11 x 8% x 7.5. Complete with self-contained batteries, $10.46.
NEW MODEL 432 TUBE TESTER

The Readrite Model 432 is a brand new tube tester incorporating automatic scale adjustment and auto-zero controls. It is a Tribymeter with a 5-color "Good-Bad" direct-reading scale. A separate shunt-type A.C. meter permits accurate tube volt drop measurements. An emission circuit is used for its reliability and ease of operation. The proper voltage and current readings, as specified by the B.M.A. and the tube manufacturers, are applied to the tube under test. This feature of the diode test will show directly the true condition of the tube.

TESTS ALL TUBES AND BALLASTS FEATURES A NEON SHORT TEST

The 432 is equipped with a neon lamp for testing glass, sparkgap, metal-glass, glass rettler, and ballast tube. A separate tube test can also be made on all tubes and rectifiers. A sensitive neon bulb determines the light output of the inter-element leakage and short test. Sufficient test procedure is given so that there are only 15 operations. There are A.C. line voltage adjustment, filament voltage for tube, circuit selector, tube selector, and short control. Up-to-date revised tube charts are furnished free of charge to all registered owners as new tube types appear on the market. The attractive quartered oak case is provided with a handle and a removable cover which makes it suitable for either indoor or outdoor use. The battery shown at the right is a 110 V. 60 cycle A.C. operation. Price, w.t., 12 lbs. $21.17

READRITE POINT-TO-POINT ANALYZER MODEL 720

Designed to test all types of all radio circuits, including modern metal as well as glass tube types. Measures voltages and currents accurately in any tube circuit. Resistance, capacitance, and capability are all quickly measured. Break-in locks in all tube circuits provide a means of obtaining all current and voltage measurements. The meter is equipped with a-receiver circuit and voltages with necessary adaptors for plugging in any type tube socket. Has separate 6 and 12 D.C. meters which permit ladder scale readings. This unit is accurate and extremely well built to give long, dependable service.

TESTS METAL AND GLASS TUBE CIRCUITS

All meter ranges are available through a single pair of jacks. Selectors switch quickly changes proper scale on A.C. or D.C. meters, D.C. scales are: 5-30-300-3000 Volts, 0-1-5-15-50-200 Volts. Complete analyzer consists of tester, 150-Watt lamp, and the receiver chassis from the cabinet. Instruction manual and a Testers List, $23.90.

YOUR NET PRICE...

READRITE-RANGER SIGNAL GENERATOR MODEL 557

The new completely assembled All-Wave Readrite-Ranger Oscillator. Improved plugging in coils are employed to give more tube-socket accuracy in each of the five bands. Plug-in coil feature was added to eliminate all possibility of errors due to bad selector switches. Designed to meet all present or future requirements, it will only be necessary to add more coils. This plug-in feature is also completely operated by self-contained batteries. All parts are of highest possible quality and ease of use. The small, compact size of this instrument makes it ideal for the house of almost every amateur radio enthusiast. Price, w.t., 1 lb. $14.51

5 BANDS: 15, 30, 60, 120, 240 K.C.

COVERS A RANGE FROM 110 K.C. TO 28,000 K.C. CONTINUOUSLY WITH FULL FREQUENCY RANGE. TRANSISTOR OUTPUT FOR ADJUSTABLE OUTPUT. ADDITIONAL OUTPUT MAY BE ADDED TO INCREASE OUTPUT FROM 28,000 K.C. TO 65,000 K.C. IN STEPWISE MANNER. USEFUL FOR ALL MODERN MODULATION ADJUSTMENT. USEFUL FOR ALL MODERN FLD. EFFECTIVE ATTENUATION AND STABILITY: STRONG, SIGNAL STRENGTH, ETC. INCREASE, ADJUST, AND REDUCE FOR FULL MODULATION. USEFUL FOR ALL MODERN MODULATION ADJUSTMENT. USEFUL FOR ALL MODERN MODULATION ADJUSTMENT. USEFUL FOR ALL MODERN MODULATION ADJUSTMENT.

$19.12

READRITE ANALYZER MODEL 710-A

A new Readrite Standard Analyzer which completely and accurately tests all parts of all metal, glass, and tubes. The analyzer is equipped with a metal-lead-in plug and resistors to fit all 3 m. The three meters provide the following readings: 0-20-60-100-200 Volts AC, 0-10-20-50-200 Volts DC; 0-10-50-200 Volts AC, 0-5-10-20 M.A. D.C. External jacks are provided for testing transformers, condensers, and any tube circuit. Complete analyzer includes tester, 3 meters, and a complete set of instructions. Price, w.t., 1 lb. $14.70

FOR ALL OCTAL AND GLASS TUBE CIRCUITS

These meters are provided to accommodate all metal and glass tubes. The analyzer is equipped with a metal-lead-in plug and resistors to fit all 3 m. The three meters provide the following readings: 0-20-60-100-200 Volts AC, 0-10-20-50-200 Volts DC; 0-10-50-200 Volts AC, 0-5-10-20 M.A. D.C. External jacks are provided for testing transformers, condensers, and any tube circuit. Complete analyzer includes tester, 3 meters, and a complete set of instructions. Price, w.t., 1 lb. $14.70

READRITE-GENERATOR MODEL 554-A ALL-WAVE OSCILLATOR

This All-Wave Signal Generator is similar to the Model 551 at right but does not directly drive dial calibrator. The calibrator is supplied for each of the five bands. Mounted in a sturdy carrying case with removable shoulder strap. Case measures 12 x 6 x 3.14. Shipped complete, ready to operate, with all necessary coils, tube, and batteries. Full operating instructions are included. Price, w.t., 1 lb. $14.51

MODEL 712-A NAME AS 710-A DESCRIBED ABOVE, BUT WITH 1000 VOLTS AC AND 600 VOLTS DC. PRICE INCLUDES: 100-200-500 VOLTS AC; 0-10-20-50-200 VOLTS DC; 10-50-100-200 VOLTS AC. Price includes: 100-200-500 VOLTS AC; 0-10-20-50-200 VOLTS DC; 10-50-100-200 VOLTS AC. Supply voltage: 110-220 Vols. Price, w.t., 1 lb. $21.76

LOWEST PRICES—HIGHEST QUALITY—BEST SERVICE

26
READRITE-RANGER VOLT-OHM-MILLIAMMETERS
AC-DC POCKET MODEL 736

The 736 is a brand new instrument at a remarkably low price and is built around a highly accurate Thorpe meter. Ranges are: 0-1, 0-10, 0-100, 0-1000, 0-1000, 0-10,000, 0-10,000 ohms A.C. at 500 ohms and 0-10,000, 0-100,000 volts A.C. at 500 ohms. A.C. at 100,000 ohms. A.C. voltages are obtained through jacks. Voltmeter handle. Finish is black enamel.

Shipped, wt., 4 lbs. $11.76

E9910. List, $12.00. NET.

E9920. NET. $3.53

READRITE-RANGER PORTABLE INSTRUMENTS

MODEL 442 TUBE TESTER

This new Tube Tester is a Rangef Model 442 specially and accurately check all types of receiving tubes, including valves. A Guaranteed emission type circuit is used which will identify the correct load values to the tube. One plug in these plates of doped and rectifiers are checked separately. A quality neon bulb is used, which indicates weak or leaky. The 4 light-seekers accommodate all types of tubes. A plug-in board is supplied with user's line, complete with instruments, battery, and instructions.

Shipped, wt., 6 lbs. $18.52

E1001. List, $18.50. NET.

640 FREE-POINT TESTER

This Free-Point Tester, when used with the 150 Multi-Meter alone makes a complete circuit testing equipment. Permits rapid analysis of circuits, checking circuit, wiring, and R.M.A. markings for servicing all sets new or old type of tubes, whether glass, metal, or crystal. 8 automatic and 10 standard jacks bring all circuits to the panel. Extra connections may be added later if necessary. In sturdy black metal case, complete with instructions, latch type adapters, and guarantee and registration card. Shipped, wt., 6 lbs. $10.14

E9912. List, $10.50. NET.

540 SIGNAL GENERATOR

Sends signals on 5 frequency ranges as 10 to 10,000 cycles, all calibrated in tenths. A Guaranteed circuit is used which is more accurate than 1% from 1 to 3,000. 2% better than 2% on short wave bands. The high quality indicator dial has a direct-readout scale marked in 1C. Provides either modulated or unmodulated signal. Frequencies are -50-250, 50-1,000, 1-2,000, 2-5,000. Wave is separated by stability. Operation is assured by an automatic circuit for any type. This signal generator is designed for circuits and antennas. Completely shielded against external signals for maximum coverage of features of this instrument is the perfect tool for antenna testing. Equipped with necessary tubes, batteries and accessories. Fully shielded; mounted in metal case $44.75. Shipped, wt., 11 lbs.

E9913. List, $43.20. NET.

740 VOLT-OHM-MILLIAMMETER

A new precision Volt-Ohm-Milliammeter. Uses a Triplet Model 228 square wave meter, accurate to 2% on all A.C. and D.C. Readings are: 0-10-50-250-1000-2500 ohms, 0-1-10-50-250-1000-2500 ohms D.C. Milliamperes. 0-200-500-2500 ohms with "back-up" scale for low end having lower-scale reading of 25 megohms in 25 megohm steps. Extremely low ohmmeter current drain assures longer battery life. Case has compartment for test leads, tools, etc. Size, 5%x5%x3/4". Complete with test leads, batteries, and instructions. Shipped, wt., 6 lbs.

E9914. List, $12.50. NET.

TRIPLETT METERS

VOLT-OMH-MILLIAMMETER MODEL 666

A new and improved service instrument built to your specifications. Voltmeter movement is calibrated in percent of reading. Milliammeter movement is calibrated in milliamps. The milliammeter is a special design for use in conjunction with the Voltmeter movement. This meter is a Triplet D'Arsonval instrument with 5% accuracy, when calibrated in four scales being 0-1, 0-10, 0-100, 0-1000, 0-1000, 0-10,000, 0-10,000 ohms. Higher resistance readings may be obtained with external battery. Meter sensitivity for both D.C. and A.C. Voltmeters is 1000 Ohms per Volt. Panel carries three controls: A.C. D.C. range switch, rotary meter-range switch, and zero ohms adjusting. Complete with milli-amp scale and instructions. Size 8%5x5%x3/4". Wt., 4 lbs.

E9924. List, $22.50. NET.

E9929. Model 669 Carrying Case. NET. $3.59

MODEL 1200-A VOLT-OMH-MILLIAMMETER KIT

2000 OHMS PER VOLT

A complete kit of parts fundamental to every engineer who works on his-own" Triplet D'Arsonval instrument for A.C. and D.C. Voltmeters. Kit includes: new Two D'Arsonval movements, with cali- brating plates, all necessary series and shunt resistors, switches, and aluminum box for meter. Full- scale meter features permits adjustment of tester range or additional metering with user's line of vision. Meter reads: 0-1-10-50-250-1000-5000-2500 ohms per volt on D.C. 0-1-10-50-250-1500-5000-2500-5000 ohms per volt. Complete kit, even to carrying case and hardware, ready for assembly.

Shipped, wt., 10 lbs. $9.76

E99. List, $12.50. NET.

MODEL 1200-C

Similar to Model 1200-A but with a sensitivity of 5,000 ohms per volt. Also reads 7/4 microammeters. NET. $20.90

E9931. List, $21.00. NET.

VOLT-OMH-MILLIAMMETER MODEL 1209-D

An ideal unit for the service bench. The meter has extra long scales, making it easy to read even at a considerable distance. An aluminum needle type pointer with accuracy ac- curacy of readings. The following ranges are possible:

- 0-1-10-50-250-1000-5000 ohms D.C. and 0-10-50-250-1000-5000 ohms per volt.

A new carry case and panel as Model 1200-D. Complete with leads. Wt., 3 lbs. $19.60

E9974. List, $20.30. NET.

E9975. List, $18.60. NET.

1209-A AC VOLT METER

An extremely useful unit for all-around radio service or experiment work. Will check all AC and DC voltages accurately. The five ranges are:

-0-10-50-250-500 volts D.C.
-0-1000 volts A.C.
-0-2000 volts A.C.
-0-3000 volts A.C.
-0-5000 volts A.C.

A new and improved AC meter movement is used, which has a guaranteed accuracy of 1% at 1000 volts on 1200A. The meter is a Triplet D'Arsonval instrument. It is calibrated in five ranges, 0-10-50-250-500 volts D.C.

E9914A. MODEL 442-540. Shipped, wt., 21 lbs. List, $16.15. NET. $36.16

E9918A. MODEL 450-740. Shipped, wt., 19 lbs. List, $16.50. NET. $36.75

E9919. MODEL 450-740. Shipped, wt., 19 lbs. List, $16.50. NET. $36.75

E9914. MODEL 442-540. Shipped, wt., 21 lbs. List, $16.15. NET. $36.16

E9918. MODEL 442-740. Shipped, wt., 20 lbs. List, $16.50. NET. $36.16

E9919. MODEL 450-740. Shipped, wt., 19 lbs. List, $16.50. NET. $36.75

E9914A. MODEL 442-540. Shipped, wt., 21 lbs. List, $16.15. NET. $36.16

E9919A. MODEL 450-740. Shipped, wt., 19 lbs. List, $16.50. NET. $36.75

Alloyed Radio Corporation, 833 W. Jackson Blvd., Chicago, Ill.
ROBOT MULTIPURPOSE TESTERS
1611 PUSH-BUTTON TUBE TESTER AND V.O.M.

The Model 1611 incorporates the newest servicing equipment - push button controls. Two step relay chart in second motion, press button shown below each row, and readings appear on meter. A sensitive neon indicator enables you to locate the tube testing circuit in the emission test to locate fault, and have readings. Checks all receiving tubes. Neon circuit indicates leakages and shorts. Special panel layout makes foot switch and time, date adjustments. \( V_0 \) ranges are: 0.050 - 20,000 volts D.C. at 1,000 ohms per volt; 0.1 - 3,000 volts D.C. at 500 ohms per volt; 0.25 - 1,000 volts A.C. at 400 ohms per volt; 0.5 - 2,000 volts A.C. at 200 ohms per volt. A plug-in-connector rectifier used. The laminated solder finish metal case is reinforced. 15% "11/16" x 1/2", removable cover. For 110 V. 30 lbs. $48.51

MODEL 1610 TUBE TESTER ONLY
Same as Model 1611 but without V.O.M. feature. $38.22

TIME PAYMENTS: $3.82 down, $4.86 monthly for 8 months.

E9970. NET CASH PRICE...

1181-E PORTABLE LABORATORY TESTER

An absolutely modern tester which combines several instruments in one case for complete circuit analysis. In order to determine the needle point (Model 1181-A) All-Wave Oscillator for aligning and testing all radio sets. (a) The Model 1181-A Universal Volt-Ohm-Milliammeter for complete point analysis and as output meter. (b) The Model 1181-A Free-Point Auxiliary Test Set for free-point and transient analysis tests. The 1181-E Tester is ultra-modern; it has a built-inSAFL portable metal case with a glass tube circuit. Meter scales read to 10,000 ohms; 0-15-150-1,500 A.C.; 0-15-750 V.D.C.; 0-50-1,000 volts D.C. at 1,000 ohms per volt; 0-15-75-750 volts A.C.; 0-15-150-1,500 volts D.C.; 0-15-150-1,000 volts A.C. at 400 ohms per volt. Also measures up to 15 D.C. Removable cover makes instrument suitable for complete point analysis. First test cards 0-15-150-750 volts D.C. For 110/120 V. 60 cycles. Shpg. wt. 30 lbs. $58.48

E9982. CASH PRICE...

TIME PAYMENTS: $5.85 down, $7.23 monthly for 8 months.

E9983. MODEL 1510 TUBE TESTER ONLY. Same as the Model 1181, but less the V.O.M. feature. $48.68

E9984. NET CASH PRICE...

TIME PAYMENTS: $4.87 down, $6.03 monthly for 8 months.

1125-A UNIVERSAL AC-DC VOLT-OHM-MILLIAMMETER


FREE-POINT SET TESTER MODEL 1166-A

For use with Model 1125-A Volt-Ohm-Milliammeter. A Panel Analysis contains 4-5-6 and 3-probe sockets. All circuits are independent of each other. Makes tests without removing chassis. No adjustments are made during instrument. Less case. Enameled metal panel. 11.5" x 11" x 5/8" deep. Shpg. wt. 15 lbs. $107.88

E9924. List, $13.23...
1252 VACUUM TUBE VOLTMETER

The Model 1252 vacuum tube voltmeter is a high precision instrument for measuring ac or dc voltage. It is simple to use and easy to read. The meter has a range of 0 to 200 volts ac or dc.

**Price:** $47.36

**T.I.P. TIME PAYMENTS:** $1.75 down, $3.95 monthly for 6 months.

**Model 1250**

Similar to Model 1252 but ranges are 0-2.5—10—30 volts. Tube mounted inside case.

**Price:** $35.94

**T.I.P. TIME PAYMENTS:** $1.50 down, $5.05 monthly for 6 months.

FREE-POINT TESTER

MODEL 1220-A

For use with the Model 1200 Master Volt-Ohm-Milliammeter or other similar instruments. Makes breadboard and test-circuit checks. The instrument is simple to use and easy to read.

**Price:** $10.78

**T.I.P. TIME PAYMENTS:** $1.00 down, $1.00 monthly for 8 months.

CONDENSER TESTER

MODEL 1241

A precision instrument for the service engineer. Tests for shorts, open and low capacity. The instrument is simple to use and easy to read. The capacity of condensers is determined by sensitivity of the meter which is used in conjunction with a tuning fork. The instrument is simple to use and easy to read.

**Price:** $26.25

**T.I.P. TIME PAYMENTS:** $1.00 down, $1.50 monthly for 8 months.

MODEL 1205-A


**Price:** $78.08

**T.I.P. TIME PAYMENTS:** $1.75 down, $9.67 monthly for 6 months.

MODEL 1207


**Price:** $88.52

**T.I.P. TIME PAYMENTS:** $2.00 down, $10.93 monthly for 8 months.

MODEL 1206

Includes Models 1200-E, 1212, 1220-A, and 1220 in a 1217X5 case. Shipped weight 12 lbs.

**Price:** $86.73

**T.I.P. TIME PAYMENTS:** $1.75 down, $10.74 monthly for 8 months.

MODEL 1208

Includes Models 1200-E, 1212, 1220-A, and 1220 in a 1217X5 case. Shipped weight 12 lbs.

**Price:** $93.92

**T.I.P. TIME PAYMENTS:** $2.25 down, $11.63 monthly for 8 months.

CASES ONLY FOR MASTER UNITS

PORTABLE CASES: Leatherette-covered, cloth-lined. Extra compartments for test leads, adapters, etc.

**Price:** $4.88

**T.I.P. TIME PAYMENTS:** $1.00 down, $0.98 monthly for 8 months.

PORTABLE CASES: For four Master Units.

**Price:** $5.88

**T.I.P. TIME PAYMENTS:** $1.25 down, $0.94 monthly for 8 months.

ALL-WAVE SIGNAL GENERATORS

MODEL 1232

A stable, accurate, direct-reading All-Wave Signal Generator of new design and all sturdy construction. Large 12 inch vernier dial-scale provides extremely accurate readings on any of the six fundamental frequencies, 500—1000—2000—4000—6000 kc. Amplification-modulated at 600 kc with select-mixed stimulus. The coils are all individually shielded and placed to give the best possible leads. All grid leads are carefully shielded and the amplifier is perfectly smooth and designed for use with A-V.C. circuits requiring a low level signal. The modulation is "on-off" switch. All-100 cycle audio signal is available for external tests. All tubes are new. Complete with shielded leads.

**Price:** $26.95

**T.I.P. TIME PAYMENTS:** $1.50 down, $2.90 monthly for 6 months.

MODEL 1231 SIGNAL GENERATOR

Similar to Model 1232 except that it is designed for battery operation. Batteries are self-contained. Shipped weight 15 lbs.

**Price:** $25.16

**T.I.P. TIME PAYMENTS:** $1.25 down, $2.90 monthly for 6 months.

MODEL 1231 SIGNAL GENERATOR

The Model 1231 is designed to furnish a continuously variable signal from 100 kc to 15,000 kc. These frequencies are covered by six bands. Batteries, tubes, and six new calibrated chart graphs are supplied with the instrument. Appearance as above.

**Price:** $16.49

**T.I.P. TIME PAYMENTS:** $1.00 down, $2.25 monthly for 6 months.
NEW VOLT- OHM-MILLIAMMETERS

MODEL 1602
25000 OHMS PER VOLT

The Model 1602 De Luxe Test Set has a D.C. sensitivity of 25,000 ohms per volt. Ideally suited for measurement of very high impedances. The ranges are as follows: 0-10-100-500-2500-50,000 ohms per volt. All ranges are self-calibrating and can be used without the panel completely. Black metal with wrinkle finish. For 110 V. 60 cycle AC. Complete with tubes and instructions.

NET CASH PRICE...$34 30
TIME PAYMENTS: $4.43 down, $4.25 monthly for 8 months.

MODEL 1601
25000 OHMS PER VOLT

The Model 1601 Test Set has a D.C. sensitivity of 25,000 ohms per volt. Ideally suited for measurement of very high impedances. The ranges are as follows: 0-10-100-500-2500-50,000 ohms per volt. All ranges are self-calibrating and can be used without the panel completely. Black metal with wrinkle finish. For 110 V. 60 cycle AC. Complete with tubes and instructions.

NET CASH PRICE...$38 22
TIME PAYMENTS: $4.52 down, $4.37 monthly for 8 months.

TEST BENCH RACKS

These compact and convenient Test Bench Racks, available in three styles, offer facilities for a complete service laboratory. They are designed to house any metal-cased Triplet De Luxe or Master gauge. Black and controls on testers are in full view and are readily accessible at all times. Special non-skid-tilting rubber retaining strips hold testers firmly in place, and a dust cover with removable front panel is provided. The upper shelf is 11x13x3 inches, the lower shelf 14x17x3 inches. Controls include a receiver adjustable for both horizontal and vertical positions. Each panel has a silver background with permanent etched markings. A self-contained linear oscillator, with minimum operations and time required. Measures from 0-100-1000 cycles.

NET CASH PRICE...$27 44
TIME PAYMENTS: $3.74 down, $3.40 monthly for 8 months.

MODEL 1404
Designed to accommodate any two metal-cased De Luxe units. 

E9978. NET $9.80

MODEL 1403
Designed to accommodate one De Luxe and two Master metal-cased units.

E9977. NET $9.80

CLAMP-ON LAMP

Lightens panel completely. Black metal withwrinkle finish.

E9977. NET $4.25

MODEL 1402
Designed to accommodate any two metal-cased De Luxe units. 

E9976. NET $9.80

TRIPLET® De Luxe TEST EQUIPMENT

MULTI-PURPOSE SET TESTER

MODEL 1600
25000 OHMS PER VOLT

A modern, high quality tester for the up-to-date service engineer. Provides accurate, rapid analysis of every circuit, with minimum operations and time required. Measures 16-20-25-50-100-200-500-1000-2000-10000 ohms per volt. All ranges are self-calibrating and can be used without the panel completely. Black metal with wrinkle finish. For 110 V. 60 cycle AC. Complete with tubes and instructions.

NET CASH PRICE...$44 42
TIME PAYMENTS: $4.42 down, $5.48 monthly for 8 months.

MODEL 1601
25000 OHMS PER VOLT

The Model 1601 Test Set has a D.C. sensitivity of 25,000 ohms per volt. Ideally suited for measurement of very high impedances. The ranges are as follows: 0-10-100-500-2500-50,000 ohms per volt. All ranges are self-calibrating and can be used without the panel completely. Black metal with wrinkle finish. For 110 V. 60 cycle AC. Complete with tubes and instructions.

NET CASH PRICE...$48 34
TIME PAYMENTS: $4.83 down, $5.59 monthly for 8 months.

2' OSCILLOSCOPE

MODEL 1690

Meets every requirement of the Service or Operating Engineer. A completely planned study and adjustment of all radio circuit problems. The instrument incorporates separately controlled resonance-coupled horizontal and vertical amplifiers. Has self-contained linear sweep from 15 to 20,000 cycles. Either internal, external, or 60 cycle sweep may be used. All controls are on the panel; absolutely no internal adjustments are required. The instrument used has an effective screen area four times that of the one inch tube used in many oscilloscopes. A type B71,4 core transformer is used which at maximum sensitivity, with the control knobs set for maximum, gives six times the magnification and resolution of any oscilloscope of the same size. The instrument is a black metal case with leather handle.

NET CASH PRICE...$46 06
TIME PAYMENTS: $4.63 down, $5.78 monthly for 8 months.

TRIPLE-SHIELDED OSCILLATOR

MODEL 1630

An outstanding signal generator for extreme accuracy. Covers 100 KC to 30 MC in six ranges. Arches every range for a period of a wide frequency range oscillator. Accuracy is 1% of the range. A large, easily read direct-reading calibrated scale has total scale length of 50% of the dial, which is etched in black on silver. For use on 110 V. 60 cycle AC. Complete with tubes and instructions.

NET CASH PRICE...$48 92
TIME PAYMENTS: $4.90 down, $5.55 monthly for 8 months.

MODEL 1631

Same as Model 1630 described above, but with electronic frequency modulation. Frequency ranges are 0-1500-3000-6000-12,000-20,000-40,000-70,000-100,000-150,000-250,000-500,000-1,000,000-2,000,000 ohms per volt. All ranges are self-calibrating and can be used without the panel completely. Black metal with wrinkle finish. For 110 V. 60 cycle AC. Complete with tubes and instructions.

NET CASH PRICE...$77 82
TIME PAYMENTS: $7.58 down, $7.16 monthly for 8 months.

MODEL 1632

Same as Model 1630 described above, but with electronic frequency modulation. Frequency ranges are 0-1500-3000-6000-12,000-20,000-40,000-70,000-100,000-150,000-250,000-500,000-1,000,000-2,000,000 ohms per volt. All ranges are self-calibrating and can be used without the panel completely. Black metal with wrinkle finish. For 110 V. 60 cycle AC. Complete with tubes and instructions.

NET CASH PRICE...$73 90
TIME PAYMENTS: $7.30 down, $6.67 monthly for 8 months.
MILLION TEST EQUIPMENT

MODEL MO PUSH-BUTTON

Here is a tube tester with push-button control at a remarkably low price. It has been designed with the following requirements of the serviceman in mind: (1) to provide a quick, accurate test (2) to test condensers, metal or glass tubes; (3) to test for leakage with the tube resistance shown on a large, "Good-Bad" scale. Push-button control is convenient and accurate for your work. Correct readings are immediately shown on the instrument. No rotary switches are used. Perfect engineering has produced an instrument of great simplicity and efficiency which will maintain its accuracy and dependability indefinitely. The customary 42 and jacks are re-included in this instrument. For 110 V. 60 cycle, plug in. 

$18.95

MILLION TUBE AND
CONDENSER TESTER

MODEL CP. This new type tube tester tests all tubes and condensers. Both metal and glass tubes. The exact condition of the tube under test is clearly indicated on the English-reading "GOOD-BAD" scale. The scale indicates the various degrees of faulty condensers. Neon tube shows all shorts and leaks up to 2 million ohms. All tube quality tests are made on a large, "Good-Bad" dial. Tester with illuminated dial. Has the following milliamperages: 500, 1,000, 5,000 volts D.C. at 500 volts per volt; 5,000 micromahs; 50 micromahs; 5,000 micromamperes D.C.; 0.5 watts. For 110 V. 60 cycle, plug in. 

$13.95

MODEL TV TUBE TESTER

AND MULTIMETER

Combines tube tester features together with an accurate, multi-range, multi-scale, ohm, and volt tester. Popular types of tubes. Neon shows all shorts and leaks up to 2 million ohms. All tube quality tests are made on a large, "Good-Bad" dial. Tester with illuminated dial. Has the following milliamperages: 500, 1,000, 5,000 volts D.C. at 500 volts per volt; 5,000 micromahs; 50 micromahs; 5,000 micromamperes D.C.; 0.5 watts. For 110 V. 60 cycle, plug in. 

$27.95

ALL-WAVE OSCILLATOR

MODEL OD. Direct reading with over 40 of scale. Covers 1000 to 2500 MHz. In addition to linemeters and trimmers precise 100% accuracy. Output can be modulated confluence power signal is also available in audio signal. Power and frequency are continuously variable for testing amplifiers. Line filters and complete instructions included. 

$19.95

POCKET VOLT-Ohm-MILLIAMMETERS

MODEL S. 2" square (A) Internal meter. Heads: 0-5-50-500-1,000 volts D.C. at 1,000 ohms; 0-25-250-1,000 ohms; 0-500 ohms; 0-1,000 microamperes D.C.; 0-1000 microamperes A.C.; 0-1000 volts; 0-100 ohms; 0-5000 ohms. Diameter: 2.4". Made in Japan. 

$7.95

MODEL SS. 2" square head. Heads: 0-5-50-250-1,000,000 volts D.C. at 1,000 ohms per volt; 0-1-5-25-100 microamperes D.C.; 0-10,000 ohms. Made in Japan. 

$9.95

MODEL SA. 2" square head. Heads: 0-5-50-250-1,000 volts D.C. at 1,000 ohms per volt; 0-50-500 volts A.C.; 0-1500-5000 microamperes D.C.; 0-1,000 microamperes A.C. 

$12.95

SOLAR CAPACITY ANALYZERS

A sensational new instrument for quickly and accurately determining the worth and capacity of any condenser. Between 1000 and 50,000 volts. A 6 3/4" tube is used as a bridge-condenser. The capacity of condenser under test is shown directly on a conveniently located centesimal scale. Also measures power factor and distortion coefficients. Condenser leakage down to 2 micros. For checking condenser resistance requires only 100 volts. Checks all types of condensers. No hand-shapes, nuts, or bolts. Complete instrument is quickly built into sturdy, attractive cabinet with handle for carrying. 

$24.90

MODEL CC CAPACITY ANALYZER

The Model CCCapacity Analyzer is similar to the CC. Models described above, but it has the advantage of extended capacitance and resistance range. It will quickly and accurately determine the capacity of any condenser from 50 to 2,000,000 ohms; capacity from 500; 5,000 M.F. power factor of condensers between 500 and 2000 ohms; and leakage down to 2 micros. Condensers are available up to 10,000 volts D.C. 

$39.50

PORTABLE STANDARD
VOLT-OMHMMETER

A practical and convenient pocket-size Volt-Ohmmeter. It is calibrated with a 1000 volt D.C. and 1000 volt A.C. ranges. Mounted in molded metal case. 3 inches long. Equipped with single head. Self-contained flash-light cells. Switch is provided for rapid changeover from volts to ohms or vice versa. 

$24.90

PORTABLE SIMPLEX
VOLT-OMHMMETER


$3.23

PORTABLE PRECISION
VOLT-OMHMMETER

Pocket meter in black bakelite case 1 4 2, 2 5 inches long. Range: 0-300 volts D.C. at 1,000 ohms per volt. Includes zero adjuster. .5" test leads. 

$7.75

363 UNIVERSAL AC-DC V. O. M.

Universal A.C.-D.C. Volt-Ohm-Milliamp. Range: 0-1-15-150 volts and 0-15 ma. A.C.: 0-1,000 ohms; 0-10,000 ohms; 0-500 ohms; 0-5000 ohms. Alone in power supply for 110 volts A.C. or D.C. Kilovolt measures: 1,100,000, or 1000 ohms or D.C. With leads and instructions. A high-grade precision instrument at low cost. 

$7.92

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
HICKOK TEST INSTRUMENTS

DYNAMIC TUBE TESTERS
MODEL T-53-P
The Model T-53-P permits you to test tubes in conjunction with almost any other test apparatus. It is a combination of the Hickok T-53 tube tester and the Hickok D.C.; CASH3 time payments. Time payments of 50 cents per month for 10 months. For 110 V., 50-60 cycles. Shpg. wt., 25 lbs.

TIME PAYMENTS: $10.78 down; $1.50 monthly for 10 months.

MODEL AC-51X DYNAMIC TUBE TESTER
Similar to the Model AC-51 but has a large square meter with a scale 3¾" long. Also includes following ranges: 0-200-500-1000 V. A.C.; D.C.; 0-20-30-50 mA; D.C.; 1 ohm to 25 megohms in 5 ranges; 0.0025 to 24 MF. Check for impedance of tubes. Time payments as above. For 110 V., 50-60 cycles. Shpg. wt., 24 lbs.

TIME PAYMENTS: $16.93 down; $5.60 monthly for 10 months.

MODEL 4000S RATIO SET TESTER
Similar to Model 4000S but with built-in Multi-Selector for complete Scope analyzer. Has 3000 ohms per decade, cable input. For 110 V., 50-60 cycles. Shpg. wt., 17 lbs.

TIME PAYMENTS: $12.54 down; $5.48 monthly for 10 months.

MODEL 18 UNIV. SIGNAL GENERATOR
This instrument covers from 100 KC. to 2 MC. in 16 bands at an accuracy better than 1%. Possible output of 20-4000 volts A.C. and 50-2500 volts D.C. The model 18 has 16 bands at 10000 volts A.C. or D.C. and 100-2500 volts D.C. Time payments as above. For 110 V., 50-60 cycles. Shpg. wt., 21 lbs.

TIME PAYMENTS: $16.48 down; $5.60 monthly for 10 months.

MODEL 17 SIGNAL GENERATOR
Same as Model 18 above but less D.C. output.

TIME PAYMENTS: $14.00 down; $4.00 monthly for 10 months. Write for complete literature covering any Hickok instrument.

NEW 33 ELECTRONIC DYNAMIC TUBE TESTER
Here is an accurate, modern, and rapid dynamic tube tester with many outstanding features. The illuminated dial and roll-type chart make it easy to test even the noisiest light. The combination of high and low-range tubes makes it possible to use it on 100-120 volt circuits without disconnecting the tube. Time payments as above. For 110 V., 50-60 cycles. Shpg. wt., 18 lbs.

TIME PAYMENTS: $11.15 down; $3.185 monthly for 10 months.

WESTON TEST INSTRUMENTS

SUPER-SENSITIVE ANALYZER
MODEL 772-20000 OHMS PER VOLT
Has 4½" multi-scale meter with 100 division scale and sensitivity D.C.; A.C.; 1000 volts A.C.; CASH3 time payments. For analysis of television circuits. Incorporates the following ranges: 0-2.5-10-50-250-1000 volts. D.C. at 2000 ohms per volt; 0-100 micro-amperes through 0-100 ampères. D.C.; and 0-0.9-3.0-10.0-30.0-100.0-500.0 ohms: 0-3.0-9.0 msms.; 10 to 51 Db. Output is free from hum and drift. Output may be modulated up to 20000 volts D.C. in 0.0001 volt steps. Mounted in sturdy fabric-covered case, 13x5x3x3/4. Attractive etched glass cover and bezel, E10350. NET.

TIME PAYMENTS: $12.53 down; $5.60 monthly for 10 months.

MODEL 666 TYPE 1B SOCKET SELECTOR
Ideal as the most efficient method of breaking into a receiver circuit. A.C.; D.C.; CASH3 time payments. Complete with plug, cable, selector, block, and all adapters.

TIME PAYMENTS: $10.20 down; $4.50 monthly for 10 months.

MODEL 773 TUBE CHECKERS
These models incorporate Weston's famous point-to-joint method of double-checking tubes. Will check all single and double tubes, check for shorts under actual operating conditions. Quick reading, easily understandable test reads; re-usable for future tube tests. We furnish from time to time with any analyzer. Complete with point-to-joint method of double-checking tubes.

TIME PAYMENTS: $14.00 down; $5.25 monthly for 10 months.

MODEL 771-2
A complete tube and circuit analyzer. Checks all receiver tubes; measures circuit voltages; locates condenser leakage; and measures resistance. Meters are accurate to within 1%. Provides point-to-joint method of double-checking tubes; check for shorts under actual operating conditions. Quick reading, easily understandable test reads; re-usable for future tube tests. We furnish from time to time with any analyzer. Complete with point-to-joint method of double-checking tubes.

TIME PAYMENTS: $16.75 down; $6.50 monthly for 10 months.

WRITE FOR DETAILS OF OUR TIME PAYMENT PLAN.

PRECISION TEST INSTRUMENTS

NEW MODEL 900 DYNAMIC ELECTROONOMETER
The Model 900 is a more modern "push-button" type precision dynamometer. It is a precision test instrument combined with a complete analyzer. Tests power consumption of receiving tube on the market today including ballasts. Its flexibility insures ability to accommodate future tube releases. New tube testers are furnished from time to time with any analyzer. Model 900 features: 0-1000 volts A.C. and D.C.; 1000 ohms per volt; 0.1-1.0-5-25-250-1000 volts D.C.: 0-10-50-250-1000 volts D.C.; 0-100 micro-amperes through 0-1000 ampères D.C.; and output. The 900 Square D.C. ohmic range has accuracy of 2%. Triangular wave, 13x5x3x3/4. Attractive etched glass cover and bezel, E10132. NET.

TIME PAYMENTS: $18.75 down; $5.25 monthly for 10 months.

MODEL 842P VOLT-OHM-DECIBEL-MILLIAMMETER
Ideally suited for service work on radios, TV receivers, transmitters and P.A. systems. The D'Arsonval movement is 4½" square and has an accuracy of 1%. The correct orientation of the tubes is indicated by the presence of an "R" for rectifier type. Time payments as above. For 110 V., 50-60 cycles. Shpg. wt., 21 lbs.

TIME PAYMENTS: $10.15 down; $3.35 monthly for 10 months.

E10319. MODEL 842P. Same specifications as the Model 842P, but made in durable plastic cover and case. Wood case, 7¾x8½x2.5. Wt., 6 lbs. NET.

E10131. MODEL 842L. Same specifications as the Model 842P, but made in durable plastic cover and case. Wood case, 7¾x8½x2.5. Wt., 6 lbs. NET.

We can promptly supply any Precision test instrument. Write us.

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD.
CLOSE-BRENGLE INSTRUMENTS

GRAPHOSCOPES

SHAMANSHIP PAST! A skillful display of some of the best. The text is larger than words that you are up-to-date and an expert in your own.

MODEL 105—1 INCH

This instrument offers every performance characteristic of the highest quality instruments. Reliable and ingenious design. Shown especially designed for use with the higher frequencies described above.

E10302. NET. $29.50
E10303. MODEL 105-2 INCH. Same as Model 105-1. $43.60
E10304. MODEL 106-3 INCH. Same as Model 105-3, except standard 2-tube model. $66.21
E10305. MODEL 107-3 INCH. Same as Model 126-3, but with frequency modulator. WT. 28 lbs. NET. $91.63

SIGNAL GENERATORS

These signal generators are highly accurate precision instruments built to laboratory standards. Generally suited for use with the generators described above.

MODEL 0CC

The generator emits a pure sine wave voltage controlled by a single 10 ohm potentiometer. A high-frequency output is available. For Portable Model. $33.81
E10373. MODEL 0MC1A. Has built-in wattmeter. 100 W. For 110 V., 60 cycles. WT. 15 lbs. NET. $33.81
E10374. MODEL 110. A high-frequency output 100 K. to 1 MHz. For 110 V., 60 cycles. WT. 11 lbs. NET. $45.51
E10368. MODEL 111. A frequency modulator for use with any generator and scope. WT. 28 lbs. NET. $38.70

MODEL 79C AUDIO OSCILLATOR

E10365. Accurate to 2% from 4,000 to 100,000 cycles per second. Has built-in wattmeter. $58.31

MODEL 125 TUBE CHECKER

E10366. Checks all types of tubes for mutual conductance performance. Has "Good-Bad" scale and sensitivity controls. $33.80

MODEL 120 SUPER ANALYZER

E10369. Ranges are: 0.05-25, 0.10-100, 0.05-1,000, 0.10-2,500, 0.50-10,000, 0.05-25,000, 0.05-1,000,000 ohms per tier. For 110-15 V., 60 cycles. WT. 17 lbs. NET. $42.63

TRIUMPH TEST INSTRUMENTS

MODEL 77 OSCILLOSCOPE AND WOBBULATOR

Here is one of the finest test-cost 2 inch Oscillograph-Wobulator combinations. 111/4"x3/4" tube. Both are built-in. Absolutely essential for both tipping 1 1/2" P. P. and locally calibrated. For 110-15 V., 60 cycles. WT. 20 lbs. NET. $58.75
E10124. NET. $29.35

120A SIGNAL GENERATOR

E12102. Portable Model. $33.80

E12101. Counter Model. $33.80

NEW RCA TEST EQUIPMENT

MODEL 151 OSCILLOSCOPE

Uses type 913 one-inch cathode-ray tubes. The oscilloscope employs standard cathode-ray tubes. The latter have a gain of 30 and are flat from 20,000 to 3,000 cycles. In addition it will aid in aligning receivers, visually. $39.75
E10330. NET.

MODEL 151 2-INCH OSCILLOSCOPE

E10331. Similar to the model described above but uses the new type 2014 oscilloscope tubes. The latter have a gain of 30 and are flat from 20,000 to 3,000 cycles. In addition it will aid in aligning receivers, visually. $49.95
E10332. NET.

MODEL 155 3-INCH OSCILLOSCOPE

E10333. The Model 155 retains the fine qualities of previous models, plus many new features, all of a new low price. With the lined work, a 3-Inch Oscilloscope is always portable because of the excellent metal workmanship. Price. $63.95
E10335. NET.

AC TEST OSCILLATOR MODEL 153

E10333. NET.

MODEL 9558 FREQUENCY MODULATOR

E10333. NET.

MODEL 4317 OUTPUT INDICATOR

E10336. NET.

NEW 156A TUBE TESTER

E10337. PORTABLE MODEL. Same as Model 156A, but with squeeze case and snap-on handle. $39.95
E10339. NET.

NEW BERNARD METERETTES

DELUXE MODEL

E10340. NET. $13.90

STANDARD MODEL

Same as De La Rue execute meter is 0-1 M.A. 1000 ohms per volt. $8.90
E10321. NET.

NEW BERNARD ECONOMETER

E10322. NET.

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, IIL
READRITE METERS

### D. C. VOLTMETERS

<table>
<thead>
<tr>
<th>Model 55</th>
<th>Model 95</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Without Zero Adjustment</strong></td>
<td><strong>With Zero Adjustment</strong></td>
</tr>
<tr>
<td><strong>Volts</strong></td>
<td><strong>Resist. Ohms</strong></td>
</tr>
<tr>
<td>10-0-10</td>
<td>0-5</td>
</tr>
<tr>
<td>0-100</td>
<td>0-25</td>
</tr>
<tr>
<td>0-500</td>
<td>0-100</td>
</tr>
<tr>
<td>0-1000</td>
<td>0-200</td>
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<tr>
<td>0-2000</td>
<td>0-400</td>
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<tr>
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<td>0-800</td>
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<tr>
<td>0-8000</td>
<td>0-1600</td>
</tr>
<tr>
<td>0-16000</td>
<td>0-3200</td>
</tr>
<tr>
<td><strong>Amps.</strong></td>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>0-1</td>
<td>350</td>
</tr>
<tr>
<td>0-2</td>
<td>350</td>
</tr>
<tr>
<td>0-3</td>
<td>350</td>
</tr>
<tr>
<td>0-4</td>
<td>350</td>
</tr>
<tr>
<td>0-5</td>
<td>350</td>
</tr>
<tr>
<td>1-10</td>
<td>350</td>
</tr>
<tr>
<td>0-30</td>
<td>350</td>
</tr>
<tr>
<td><strong>OUTPUT Voltmeter</strong></td>
<td><strong>Model 57</strong></td>
</tr>
<tr>
<td><strong>Indicates output volts for correct alignment of RF and IF stages.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Ratings:</strong> 0-6, 0-10, 0-20, 0-30, 0-40, 0-50, 0-60, 0-100, 0-200, 0-300, 0-500, 0-1000, 0-2000, 0-3000, 0-5000, 0-10000, 0-20000, 0-30000, 0-50000, 0-100000, 0-200000, 0-300000, 0-500000, 0-1000000</td>
<td></td>
</tr>
</tbody>
</table>

**RESISTANCE METER**

Model 561

Direct reading: 0-10,000 ohms 0-40 volts. Measures resistance and checks continued in radio and electrical equipment. Does 3 separate tests at once. An invaluable tool for reliable meter.

**RESISTORS**

No. 503 Resistor, 1150 ohms resistance to increase No. 501 ohmmeter reading to 60,000 ohms when used with a 2½-volt battery.

**Output Voltmeter**

Model 57s

Indicates output volts for correct alignment of CB and IF stages. Ranges: 0-6, 0-10, 0-20, 0-30, 0-40, 0-50, 0-60, 0-100, 0-200, 0-300, 0-500, 0-1000, 0-2000, 0-3000, 0-5000, 0-10000, 0-20000, 0-30000, 0-50000, 0-100000, 0-200000, 0-300000, 0-500000, 0-1000000.

**COPPER OXIDE RECTIFIERS**

5 M. A. CAPACITY

Miniature type. Converts D.C. meters direct or less than 20 M.A. to A.C. instruments.

**COPPER OXIDE RECTIFIER**

Excessively small full-wave rectifier for converting D.C. meters for A.C. use. Input 20 volts E.M.R.; output 20 M.A.

**KNIGHT 50 OHM SHUNTS**

Individually calibrated to an accuracy of ± 4-½ of 1%. Ideal for increasing the range of 0.1 milliammeter. Wired in hand's magnet with negligible temperature coefficient.

**GLOW LAMP RECTIFIERS**

A high quality line of triple ceramic-molded semi-precision carbon resistors. Accurate within ± 4%; ideal meter range multipliers; 1 watt size.

**CONTINENTAL CARBON SEMI-PRECISION RESISTORS**

Individuals calibrated to an accuracy of ± 4½ of 1%. Ideal for increasing the range of 0.1 milliammeter. Wired in hand's magnet with negligible temperature coefficient.
TRIPLETT PRECISION METERS

These accurate, dependable meters are available in a variety of styles, sizes and ranges for any purpose, incorporating a rugged D'Arsonval movement which assures an accuracy within 1%. The genuine polished nickel-plated brush contacts are set in adjustable screws. All instruments have zero adjustments and balanced aluminum knife-type pointers. Metal contacts are sensitively finished in white enamel with large, 0.05 ohms to 100,000 scale. The A.C. meters are the movable iron-repulsion type, self-air-damped, and have full-scale movements. Zero adjustments are available for the Model 231, 331, 531 and 731. All ranges are also available for the Model 231, 331, 531 and 731. All ranges are also available for the Model 231, 331, 531 and 731.

METER DIMENSIONS

D.C. MILLIAMMETERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Flange</th>
<th>Mfg.</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>221</td>
<td>9/16&quot;</td>
<td>Brush</td>
<td>1 1/2&quot; Bakelite</td>
</tr>
<tr>
<td>222</td>
<td>9/16&quot;</td>
<td>Brush</td>
<td>1 1/2&quot; Bakelite</td>
</tr>
<tr>
<td>223</td>
<td>9/16&quot;</td>
<td>Brush</td>
<td>1&quot; Bakelite</td>
</tr>
<tr>
<td>224</td>
<td>9/16&quot;</td>
<td>Brush</td>
<td>1 1/2&quot; Bakelite</td>
</tr>
<tr>
<td>225</td>
<td>9/16&quot;</td>
<td>Brush</td>
<td>1&quot; Bakelite</td>
</tr>
<tr>
<td>226</td>
<td>9/16&quot;</td>
<td>Brush</td>
<td>1&quot; Bakelite</td>
</tr>
<tr>
<td>227</td>
<td>3/4&quot;</td>
<td>Brush</td>
<td>1&quot; Bakelite</td>
</tr>
<tr>
<td>228</td>
<td>3/4&quot;</td>
<td>Brush</td>
<td>1 1/2&quot; Bakelite</td>
</tr>
<tr>
<td>229</td>
<td>3/4&quot;</td>
<td>Brush</td>
<td>1 1/2&quot; Bakelite</td>
</tr>
</tbody>
</table>

TRIPLETT VOLTMETERS

Range: 0-5000 Volts DC, 0-5000 Volts AC; 0-5000 Volts DC, 0-5000 Volts AC; 0-5000 Volts DC, 0-5000 Volts AC.

D.C. MILLIAMMETERS (250 Ohms Per Volt)

<table>
<thead>
<tr>
<th>Model</th>
<th>Flange</th>
<th>Mfg.</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>331</td>
<td>9/16&quot;</td>
<td>Brush</td>
<td>1 1/2&quot; Bakelite</td>
</tr>
</tbody>
</table>

TRIPLETT UNIVERSEAL AC-DC METER

TRIPLET UNIVERSAL AC-DC METER

E9070. A versatile instrument reading both A.C. and D.C. The range is 0-5, 10, 25, 50, 75, 100, 200, 500, 750, 1000, 2000, 5000 volts. For D.C. up to 1000 volts, D.C.; 0-10, 25, 50, 75, 100, 200, 500, 750, 1000, 2000, 5000 volts, and 0-5, 10, 25, 50, 75, 100, 200, 500, 750, 1000, 2000, 5000 volts. Model No. 3 meter, 3" diameter. With convex-rectangular dial and switch.

E9069. Kit of resistors and switches for above ranges. For battery or alternating current, 20 ohm, 5000 ohm, 10000 ohm, 100000 ohm, 1000000 ohm, 10000000 ohm. $9.80. Kit of switches and resistors for above ranges. Kit includes switches and resistors for above ranges. $14.38.

MODEL 701 BEEDIE TEST PANEL METERS

VOLT-OMH-MILLIAMMETERS

Build your own point-to-point analyzer or test panel using one of these meters as the Volt-ohm-milliammeter. Scale ranges are those most generally used in service and test instruments, E315. MODEL 701 BEEDIE TEST PANEL METERS. 0-1 milliamps to 1000 amperes, 10-15-25-50-100-200-500-1000-2000-5000 volts. D.C. NET $3.53.


We can supply all Beedie meters. Write for descriptive literature and prices.
KNOTHE-BEEDORE FOUNDATION METERS

These new Beebe Foundation Meter Kits are ideal for building an efficient Volt-Omm-Milliam-

meter around the high quality 20,000 ohms-

per volt movement. They are assured of per-

fect performance, for they are calibrated and

shunted with each model. The 2%-accuracy

movement is carried on jewel pivot bearings.

1000 OHMS PER VOLT

You can build an efficient Volt-Omm-Milliam-

meter around the high quality 20,000 ohms-

per volt movement. It employs a sensitive 0-30 MA

range. Using 0-10-20-50-100-200-500 volts D.C.,

0-1,000 ohms, 1 megohm; and 0-10-100,000 micromhos.

The meter is shunted, and each model

is supplied at a price that is attractive. See

multiplier meter kit and shunt resistors below.

$4.41

E2330.

MULTIPLIER RESISTOR KIT

Consists of high quality semi-precision resistors

for use with the above type of meter. Each of

them is accurately wound. Resistors are accurate to

within 5%.

$1.59

E2331. Resistor Kit, NET

SHUNT RESISTORS

E2370. To obtain reading of 0-10 M.A. on

amperemeter.

E2373. To obtain reading of 0-100 M.A. on

voltmeter. 49¢

NET, EACH

20,000 OHMS PER VOLT

You can build a really sensitive voltmeter, at an extremely low price. Use a 50 ohm

multiplier basic movement that will give you a sensitivity of 20,000 ohms per volt as a

multi-range D.C. voltmeter. Internal resistance

of the shunts are: 0-10-50-100-500-1000-5000-

0-1,000,000 ohms; 0-1,000 micromhos-

2000 micromhos; and 0-10-100 M.A. D.C. The

range and accuracy of the shunts is correct.

When added to the meters and shunts listed

above, the unit is complete. The kit:

$10.58

E2333. NET

RESISTANCE RANGE EXTENDER KIT

Here is a brand-new kit which, when used with a low-range dial, will enable you to measure resistance up to 1000 ohms. It is designed on a kit to use with any meter having a 100 ohms movement and a reversed scale resistance. This kit is

ideal for the amateur and experimenter who

wants to extend his range. When used with a 1/2 volt battery. Every skillful amateur and experimenter will find this range extender a valuable aid in his work. It is made of high grade cloth insulation, power transformer, fuses, etc. Easy to build. For 110 volt,

250 volt operation. Shrink. vel. 5 lbs.

$2.85

E2334. NET

METER REPAIR SERVICE

Whether your meter is dead or damaged it can be

in the shortest time. Our service will put

it back into good condition. Repairs are made by trained technicians and are calibrated and adjusted to the standard of

the highest accuracy. Here is a fine service that assures accuracy and reliability. Many Laboratories use it. For prices on services not shown, repair meter for calibration.

Your cost:

$3.75

SERVICE A For 5½" meters with burned-out or damaged lamps.

$2.95

SERVICE B For sluggish or erratic meters.

$2.95

SEND C If glass is cracked, scratched or broken.

$90c

an additional charge of...

SEND CASH WITH ORDER

Prices above cover only replacement parts

specified in each service. Additional parts,

such as pointers, spring-set adjusting, case, etc.,

will be supplied at the lowest possible prices.

SIMPSON D.C.

MILLIAMETERS

TYPE C-25. These are the most accurate, rugged, low-

price milliameters available. They have white enamel

face plates with black scales and internal glass

protective shield. It is housed in a glass-

mounted, B-8 2½" rectangular baffle case.

No. M.A. NET

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E2327-1 0-15 5.07 E2341-1200 1.45

E2318-5 0-5 5.07 E2342-1600 1.85

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WE can supply all Simpson meters. Write for quotations, order forms.

WESTON D.C. PANEL METERS

These instrument cases are distinguished by their

precision, ruggedness, and dependable performance.

They are well-damped D'Arca-

sian movements with an accuracy

within 2%. Contained in 2½" round baffle cases of the

flush-mounting type. The d-c meters combine

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D.C. MILLIAMETERS

No. M.A. NET No. M.A. NET

E2311-1 5.35 E2413-1 10.45

E2312-1 7.35 E2414-2 12.45

E2313-2 24.25 E2415-10 20.45

E2315-10 22.15 E2416-20 16.75

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(1000 Ohms Per Volt)

No. Volts NET No. Volts NET

E4120-0 5.75 E4140-0 10.75

E4121-1 7.35 E4141-1 12.75

E4122-3 17.15 E4142-2.5 14.15

E4123-15 31.51 E4143-10 15.55

MODEL 476 A.C. VOLTMETERS

No. Volts NET No. Volts NET

E4446-3 56.61 E4447-10 66.29

E4448-2 54.52 E4449-15 50.46

MODEL 476 A.C. AMMETERS

No. Amps NET No. Amps NET

E4132-2 0 61 E4140-2 10 65

E4133-2 0 65 E4141-2.5 10 68

E4134-2 0 61 E4142-2.5 10 65

E4135-2 0 61 E4143-5 10 65

Available in rectangular cases at same prices listed above. Order with base.

PORTABLE METER BASE

These bases offer a convenient and practical method of mounting: voltage, current, and

amperemeter. All bases are supplied with black enamel finish.

E1448. With binding posts. NET

$1.47

E1447. With 3 binding posts. NET

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Excellent for lighting macroscope-type meters. Requires single 15" mounting hole. Accom-

pany miniature base built.

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29c

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Pure wave tuning from flat 20 to 15,000 cycles. Essential kit contains coils, condensers, resistors, and hardware parts. Write for literature.

E5691. NET

$6.29

E5692. Complete Parts Kit. Printed circuit, mili-

tubes, etc. WR. 12 lbs. NET

$20.80

FOR COMPLETE INDEX SEE PAGES 159-160
ADAPTERS FOR MODERNIZING AND TUBE TESTING

Cash in on modernization. Use these adapters to replace tube types listed below for you. The new glass and metal tubes now available will increase set sensitivity, selectivity and power and stability. No longer necessary to change all adapters. These may also be used to modernize old style testing equipment. The wiring of your present tube tester or analyser need not be disturbed.

<table>
<thead>
<tr>
<th>No.</th>
<th>Replace</th>
<th>In Socket</th>
<th>Test or Replace</th>
<th>In Socket</th>
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<td>2B12</td>
<td>75</td>
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<td>U69</td>
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YOUR CHOICE OF ANY ABOVE ADAPTERS NET EACH

E1735 | $0.98 | E1734 | $0.98 | E1737 | $0.98 | E1738 | $0.98 | E1739 | $0.98 | E1780 | $0.98 | E1781 | $0.98 | E1782 | $0.98 | E1783 | $0.98 | E1784 | $0.98 | E1785 | $0.98 |

BUD ANALYZER PLUG AND ADAPTERS

ANALYZER KIT

This molded bakelite analyzer plug with its small-base adapter kit makes miniature analyser testing possible. Includes: 8-prong plug; cable and adapters; 8 wire cable; dual grid stud; and 5 adapters. YOUR PRICE $5.40

ADAPTERS ONLY

When needed all tubes. Have 8 hole octal plug to take 8 pins plug such as listed above. Adapters use HMA testing system for point-to-point analysis.

PRONGS NET EACH

E1653 | 8 to 4 | E1654 | 8 to 6 | E1655 | 8 to 6 | E1656 | 8 to 7 | E1657 | 8 to 7 |

ALDEN TUBE LEAKAGE AND SHORT TESTER

For 4, 5, 6 and 7 prong tubes. Will indicate leakage as high as 1 microamp. Operates directly across A.C. line. Container jack for using as a continuity test or check.'a' for a leak. Complete with neon lamp, grid lead, seal and plug. WT. 1 lb.

E1675 NET $2.06

ALDEN METAL TUBE TEST ADAPTER

Checks all tube types. For use with any tube rectifier. Plugs into 30 socket. Octal sockets on adapter accommodate all metal tube types. Simple toggle switches are provided for thorough tests including hook plates or double-plate tubes. Illustrated instruction plate on WT. E1674. YOUR PRICE $3.82

ALDEN MULTI-DAPTER

TYPE 550XLA Tests 120 types of tubes with your present test leads, wires, or jack. Single toggle switch selects one of 120 adapters to suit any tube test. Complete with 30 outlet test plate. E1757. YOUR PRICE $294

No. | Tube Types | Wattage |
<table>
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<td>E1767</td>
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</table>

ALDEN RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
NEUTRALIZING TOOLS • TEST LEADS

ALIGNING AND NEUTRALIZING TOOLS

4-IN-1 SERVICE ALIGNMENT TOOL

Combined in one

$2.99

INSTRUMENTS$56.00

4 Serviceman’s necessities—1/4" and 5/8" nut wrenches, neutralizing blade screwdriver, and key slot grip. Insulated handle with pocket clip.

E5523. Shpg. wt., 3 oz.

$28c

E5524. Crossed attachments.

$10c

NEUTRALIZING AND ALIGNING TOOL KITS

DE LUXE MODEL

A handy alignment tool kit that will serve innumerable uses. Consists of 1/4" and 5/8" nut wrenches, neutralizing blade screwdriver, and a full-size screwdriver with pocket clips.

$59c

E5527. YOUR PRICE.

INSULATED NEUTRALIZING SCREWDRIVER

This handy tool has a grip-like handle with socket head 114" hex. socket; neutralizing blade screwdriver.

$18c

E5503. YOUR PRICE.

BALANCING ATTACHMENT

Neutralize any set without removing chassis. May be used with 3/8" or 5/8" long. Ideal for working in close quarters. "De Luxe" set.

$2.30

E5500. YOUR PRICE.

SET TRIMMERS FOR PHILCO, ZENITH, RCA, ETC.

A specially designed tool required for precision alignment of the small size coil. Trimmer assembly used on the new All-Wave sets such as Philco, Zenith, RCA, etc. Screwdriver is designed to fit the trimmer coil exactly so that it will easily pass through a 1/2" hole. Other end has hex socket for 14" hex nut and has external metal re-inforcing handle. Every serviceman should have this efficient, time-saving tool.

$10c

E5513. YOUR PRICE.

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$73c

E5502. YOUR PRICE.

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Solderless test prod with insulated handle. Completely solderless. Wire clamps tightly in place.

$71c

E5530. YOUR NET PRICE.

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HEAVY-DUTY LAB MODEL PRODS

All-purpose leads for test work. Flexible, rubber-covered conductors fitted with heavy 1/4" handles, one red and one black. 3/8" long. Fitted with polished tips. Leads may be used for testing high-quality test leads that are used by leading servicemen.

$42c

E6491. Spade tip. PER PAIR.

E6492. Alligator Terminal. PER PAIR.

$48c

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E6494. Spade tip PER PAIR.

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$29c

E6490. Phone Tips.

E6497. Spade Tips.

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E6471. Red.

E6472. Black.

$71c

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Two valuable tools. One is a 60° 5/6" tube, on each end of which are heavy brass nickel plated hex wrenches for 5/8" and 3/4" hex nuts. The other tool fits into the tube tool. Has strong screwdriver blade at one end with the other end of special magnetic steel.

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$26c

E5483. NET.

$26c

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E5483. NET.

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E5550. YOUR NET PRICE.

E5550. YOUR NET PRICE.

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E5248. "REFRIGERATION." by Mayer and Yee. Practical, illustrated. Has data on refrigeration, modern refrigeration systems. Excellent for students and amateur radio operators. 155 pages. Shipped, 4 lbs. NET PRICE $4.90

RATHEON TUBE CHARACTERISTICS BOOK

New pocket-size 185 page data book, showing practical data and testing information, accurate illustrations of tube characteristics, and complete descriptions of tube characteristics. Low prices. Wire, 1 pt. Shipped, 5 lbs. NET PRICE $2.50

WE CAN SUPPLY ANY RADIO—ASK US
A. R. R. L. PUBLICATIONS

RADIO AMATEUR'S HANDBOOK

All the accumulated knowledge of 100,000 amateurs. Radio is considered and treated in detail in the 561 pages of this book. This is the 1933 revised edition; many new chapters, all former material thoroughly re-written and brought up-to-date. Includes all data and results of the many tubes' tests; data sheet: transmitter design; latest dope on keying methods; radio telephony, ultra-high frequencies, antenna design, power supplies, and other operating practices and field organization. Has valuable data added. Fully illustrated. Size, 31/2"x11". Shipping weight, 4 lbs.

$100

E2175. NET

RADIO AMATEUR LICENSE MANUAL

Tells you clearly, simply and exactly what is required to become an Amateur License. Contains newly revised regulations governing operation of Amateur Radio stations. Every section and Answer sheet thoroughly covers all problems likely to be on any license examinations.

E2177. YOUR PRICE...25¢

HOW TO BECOME A RADIO AMATEUR

Describes the construction and operation of a simple, inexpensive transmitting and receiving station. Contains other information of extreme value for those who wish to learn more than this.

E2176. YOUR PRICE...25¢

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A companion book to book above. Contains similar descriptions of process of modulation and principles of operation of low-power transmitter and modulator and gives valuable antenna dope.

E2186. NET...25¢

LIGHTNING CALCULATORS

Inexpensive calculators that rapidly and accurately solve mathematical and practical problems in radio and allied work. Give direct answers easily; thus and trouble-savings for engineers, experimenters, amateurs and experimenters.

E2180. Type A, solves problems involving resistance, voltage, and frequency in any circuit for three high-powered transmitters to antenna receivers.

E2170. Type B, gives direct-reading answers to calculations involving current, resistance, voltage, and power.

NET, EACH...$1.00

AR. R. L. LOG BOOKS

Contains its log notes, 38 blank pages; "Q" signal list, message number sheet, and cross-reference page in the last column.

E2178. 3 for $1.00. EACH...35¢

AR. R. L. RADIO MAP


E2171. NET...$1.25

RADIOMAP BLANKS

Newly designed, attractively printed, message blanks. Space for all information.

E2179. 1 pad of 100 sheets. NET...25¢

RADIO OPERATING QUESTIONS & ANSWERS

A complete course of instruction in modern television methods with fully the cathode-ray tube and its application to broadcasting. Price includes supplements free for one year. Shipped, 3 lbs.

E2168. NET...$2.75

TELEVISION WITH CATHODE RAYS

A complete course of instruction in modern television methods with fully the cathode-ray tube and its application to broadcasting. Price includes supplements free for one year. Shipped, 3 lbs.

E2168. NET...$2.75

RADIO OPERATING QUESTIONS & ANSWERS

A complete course of instruction in modern television methods with fully the cathode-ray tube and its application to broadcasting. Price includes supplements free for one year. Shipped, 3 lbs.

E2168. NET...$2.75

NOISE REDUCTION HANDBOOK

Essential information on noise reduction for improvement of DX reception. Employs manual of methods of eliminating source of interference and on how to eliminate it. Includes trouble-shooting, equipment, circuits. 75¢

E2095. NET...35¢

"RADIO" AMATEUR HANDBOOK

New enlarged and revised edition. Contains all you need to know to build the best apparatus for ham use. All dimensions are given. 75¢

E2080. NET...75¢

"HOW TO PASS LICENSE EXAMS"


E2096. NET...$1.96

RAYTHEON AMATEUR HANDBOOK

New 114 page complete book for ham operators. Contains all the important radio construction, applications, and specifications for the amateur. Price includes supplements free for one year. Shipped, 3 lbs.

E2098. NET...50¢
BURGESS PLUG-IN “B” BATTERIES

The rigid specifications to which these batteries are built make them suitable for all radio and laboratory requirements. They incorporate high-quality materials and are absolutely impervious to moisture. All Burgess Batteries listed below are equipped for plug-in connectors can also be supplied with Fahrenheit clips at no extra charge. Simply add letter “P” to Catalog number.

**CATALOG NO.** | **FACTORY NO.** | **VOLTS** | **SLUG. WT.** | **UNIT PKG.** | **LIST NET** | **SINGLE NET** | **UNIT PKG.** | **NET PRICE** | **NET PRICE**
---|---|---|---|---|---|---|---|---|---
E8900 | 21388 | 45 | 15 | 6 | $2.22 | $2.02 | 30 | | |
E8901 | 22988 | 45 | 10% | 6 | 1.61 | 1.46 | 30 | | |

**STANDARD “B” BATTERIES**

- E8902: 10385 | 45 | 14 | 6 | $2.55 | $1.90 | 30 | | |
- E8903: 23958 | 45 | 6% | 6 | 1.85 | 1.39 | 30 | | |
- E8904: 23959 | 45 | 6% | 10 | 2.05 | 1.51 | 30 | | |
- E8928: X050
- E8929: X050L
- E8929: X050L
- E8920: X156
- E8920: X156
- E8920: X156
- E8931: Connector for 110 volt batteries

**STANDARD “C” BATTERIES**

- E8907: 0156 | 22% | 2 | 4 | $0.90 | $0.67 | 30 | | |
- E8906: 2370 | 4% | 1% | 10 | 4.43 | 3.20 | 30 | | |
- E8909: 0550 | 1% | 4 | .65 | 48 | 44
- E8916: 0569 | 1% | 4 | .68 | 48 | 44
- E8917: B5P
- E8931: Connector for 221/2 volt batteries

**BURGESS PLUG-IN “B” AND “C” PACKS**

- E10024: F90-090-135 | 33% | 1 | $3.90 | $3.59 | 35 | |
- E10027: *090-066-135 | 44% | 1 | 9.50 | 6.55 | 35 | |

**DRY CELL “A” BATTERIES**

- E8911: 40A
- E8912: 40B

**TUBULAR FLASHLIGHT UNI-CELLS**

- E8913: No. 1, 1.4A | E8914: No. 2, 1.4A

**BURGESS 6 VOLT “HOT SHOT”**

- E8910: 6% | E8911: 11% | E8912: 20% | E8913: 43% | E8914: 66% | E8915: 100% | E8916: 100% | E8917: 100%

NEW BURGESS BATTERY FOR ELECTRIC SHAVER

- E8934: Type 2981 | NET | $3.32

**KNIGHT PLUG-IN “B” BATTERIES**

- A fine quality line of well-built batteries, manufactured exclusively for Allied and sold only under the Knight name. Only the highest quality materials are used in these batteries. Each Knight battery is individually shrink-wrapped against internal shocks by a unique sealing method. These batteries are climate-proof and are designed for long and full life. Standard 45 volt “B”

**STANDARD 45 VOLT “B”**

- Burgess 45 volt “B” battery of standard 45 volt design and performance at 22½ volts. Strong and dependable, with long life and noiseless operation. Size: 7% x 2% x 3%. Supplied with plug-in receptacle. Designed for sets using up to 6 tubes, List Single, $5.35.

**HEAVY-DUTY 45 VOLT “B”**

- Burgess 45 volt “B” battery of standard 45 volt design and performance at 22½ volts. Strong and dependable, with long life and noiseless operation. Size: 7% x 2% x 3%. Supplied with plug-in receptacle. Designed for sets using up to 6 tubes, List Single, $5.35.

**LOW-COST 4½ VOLT “C”**

- Compacts 4½ volt “C” battery tapped at 3 volts. Designed for all portable radio equipment. May be used as tapped 6 battery or as a power source for portable equipment. Supplied with plug-in receptacle. Size: 1½ x 2% x 2% inches. Shipping weight, 2 lbs.

**FLASHLIGHT CELLS**

- High capacity cells for all tubular flashlights. No. 1 UNIT CELL E8926: Silver-lined, 1½ inches. 1 5/8" dia., 1 1/2" length
- No. 1 UNIT CELL E8927: Regular size, 1½ inches. 1 3/4" dia., 1 3/4" length

**NO. 6 1½ VOLT DRY CELLS**

- A standard 1½ volt dry-cell for use on buzzers, doorbells, etc. Packed with power, Becomes quickly after heavy drain. 6/24 Hour. Shpg. wt., 3 lbs. For field use. Carry a stock of these five batteries

**KNIGHT “HOT SHOT” TYPE**

- Newly designed compact 6 volt batteries providing the full electrical equivalent of No. 6 cells in less than half the space. Built for efficient, long-life service and for high-tension circuits. $1.21

**GENERAL MIDGET PORTABLE “A” & “B” BATTERIES**

- Extensive small, lightweight portable batteries. For use in portable radio receivers and transmitters, hand-held monitors, hearing aids, weather balloons, pocket radio sets, etc. The approximate rating of E8936 is 100 MA hours; 4550A at 100 MA hours; 4550A at 1500 MA hours; E8939 is 8 ampere hour; E8940 is 15 ampere hours. E8936 and E8937 are tapped as 22½ volts. All others are untapped.
NEW
EVEREADY
AIR CELL
"A" BATTERY
Especially designed and intended only for use with 2 volt "Air-
cell" battery sets. Operates on a new principle using air as a
driving agent that maintains constant voltage and to give long life.

ECONOMICAL—CONVENIENT
Cost of a new "A" battery—only 75¢.
Now offered at a reduced price. Both Air-
cell batteries listed below are good for 1000
hours and have a useful life of approx-
imately 1000 hours. The A-600 type is for sets
with a maximum current drain of 600 M.A. The
A-850 is for sets having a maximum drain of 850 M.A. in peak-
proof tests, 10455-19 lb. Wt. 24 ls. (Not available.)
E10025, No. A-600.
$4.62 .Less 2%.
E10026, SA-850. Heavy-duty (750 M.A.) set for multi tube sets.
Wt. 29 lbs. .Less 17%.
$5.40

BURGESS 3 VOLT DRY "A" PACKS
TYPE E3971K
A 100% dry "A" battery for 3 volt bat-
tery sets. Price, 15 hours at 3 volts, 500 ma-
per hour at a discharge rate of 1/2 volt.
E3971K, Taped Reducing Resistor 25¢

"A", "B" & AIR CELL
BATTERY TESTERS
Inexpensive, portable type bat-
ttery testers by Burgess. Dry Cells, Storage
Batteries, etc. Air Cell tester indicates condition of
Batteries as "Good" or "Dead"; also, indicated is
time left during life of battery. Unusual values.
E6250, STORAGE BATTERY TESTER.
Tests condition of battery.
YOUR NET PRICE
E6251, 0-35 Amps. For testing dry
cells. Your price.
$45c
E6252, 0-50 Volts. For "B" bat-
tery. Price.
$45c
E6263, Combination 0-10 Amp.
and 0-50 Volts. NET.
Made by Burgess Battery Tester.
YOUR NET PRICE
E7340, Air-Cell Battery Tester.
E3971, NET.
$28c

LEADER
HYDROMETER
Accurate, well-made hydrometer for testing storage batteries. Has bending proof, heat, resistant rubber. Shing. wt. 1 lb.
E3971. NET.
$1.47

FOR GREATER POWER! FOR EXTRA VALUE!
KNIIGHT LONG-LIFE STORAGE BATTERIES
FOR EVERY RADIO
AND LIGHTING PURPOSE
KNIIGHT 2 VOLT
A 2 volt 21 plate Heavy Duty battery giving operating
hours at 1/2 amperes without recharging. Rated at 850 M.A. at
Radio rate. Employs famous internal compensating-

gerator. Mounted in genuine Ebrok case. The 21 plates are heavy, heavy-duty type. Size, 4x3
x1 1/16". For sets using 1/2 or 2 volt tubes.
E10456, 21 PLATE. Not available. Shipped express or by freight. Shing. wt. 21 lbs.
NET $3.29

KNIIGHT 6 VOLT
Heavy-duty, solidly constructed, storage batteries that deliver
up to 300% more power than any other comparable battery. Thick plates, care-


neated. Built for long life. With radio terminals. Not Available. Shipped express or freight. The finest 6 volt Bat-
teries you can buy. With late handling.
E10457, 12 PLATE, 55 Amperes Hours. Size, 4x3x1 1/16". Wt. 40 lbs.
NET $4.75
E10458, 15 PLATE, 121 Amperes Hours. Size, 15x4x1 1/16". Wt. 42 lbs.
NET $5.95
E10459, 19 PLATE, 155 Amperes Hours. Size, 19x4x1 1/16". Wt. 52 lbs. Brute-

force, heavy-duty type.
NET $7.49

EQUIPMENT
These batteries may be had with auto terminals at prices quoted above. Send cash with order, and specify "With Auto Terminals."

HEAVY-
DUTY
6 VOLT
GLASS
BATTERY
A de luxe glass case battery for your radio, a long life glass
battery with compact size and for long service. Delivers full
capacity. Ideal for Winekrafters or Waterproof use. Here
are the batteries you need for lighting your home, barn, henhouse, etc. Radio terminals.
E10461, PLATE, Internal 90 Amps, 130 Volts. Intermittent rate.) Size, 4 1/4x3
x1 1/16". Will operate a number of bulbs as above for 14 hours.
Shing. wt. 70 lbs.
NET $11.85

HOMCHARGER BATTERY CHARGERS
5-3 AMP.
BOOSTER
A 5 to 3 amp. tapering battery charger for use as a
dc or for battery charging. Has tapering
cell charger for small car radio interference. For
110 Volt, 60 cycle A.C. Shing. wt. 3 lbs.
E10042. NET.
$4.41

6 AMP.
CHARGER
Vibrator-type. For 6 volt storage batteries.
Self-polishing; entirely automatic in operation.
For 110 Volt, 60 cycle A.C. With cord,
plug, and 10 ft. cord and plug. Shpg. wt.. 11 lbs.
E10041. NET.
$7.35

ADD-A-CHARGER
One of these units will han-
dle 2 to 3 batteries on a
24 hour period. Depending upon unit, or if greater capacity is desired.
No radio interference with "reverse" charging. For 110 Volt, 60 cycle A.C. Comes with
wire cord, cable, clips, etc.
E10038. NET.
$12.49

GENUINE G. E. 5 AMP.
TUNNAR CHARGER
High-grade 5 amp. unit for charging any 5 volt storage battery from 110 Volt, 60 cycle A.C. Line. Paten-
ted General Electric quality construc-
tion. Delivers full 5 amperes charge 10 hours fully charged. Automatic tapering feature prevents overheating batteries, maintains uniform charging by life and freedom from run-down battery trouble. Equipped with strain-relief cord attachment. A.C. cord, charger, charger
tungsten bulb, and 10 ft. cord. For 110 Volts, 60 cycle A.C. Shing. wt. 13 lbs.
E10037. NET.
$11.47

RADIANT PAK FOR ELECTRIC SHAVERS
Double the utility of your Elec-
tric Shaver! With this new Shaver-Pak you can operate your
110 Volt Shaver from any 6 volt or 12 volt source. For use in cars,
trailers, boats, trains, or rural areas.
E9150, Type 5-6. Portable. Works on 1/2 ft. cord and plug. NET.
$4.09
E9159, Type 5-6. For 6 volts. With 1/2 ft. cord and plug. NET.
$4.09
E9158, Type 5-6. Portable. Works on 6 ft. cord and plug. NET.
$4.09

ALLIED RADIO CORPORATION, 833 W. JACkSON Blvd., CHICAGO, ILL.
GENEMOTORS & CONVERTERS

CARTER GENEMOTOR POWER PLANTS
NEW HEAVY-DUTY HIGH-POWER GENERATORS

These units are especially well-suited for two-way paired radio, power amplifiers, aircraft radio, public address equipment, etc. The new brushless design eliminates all traces of sparking, heating, and noise. This results in a constant voltage output which is easily filtered. Brushless can be used without taking anything apart. The units require no packing adjustment or replacement. They are the smallest and lightest weight dynamos made. Average weight, 11 lbs.

6 VOLT MODELS

<table>
<thead>
<tr>
<th>CAT.</th>
<th>OUTPUT</th>
<th>AMP.</th>
<th>NET</th>
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<tbody>
<tr>
<td>E1001</td>
<td>100</td>
<td>80</td>
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<td>E1002</td>
<td>150</td>
<td>100</td>
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<tr>
<td>E1003</td>
<td>200</td>
<td>150</td>
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8 VOLT MODELS

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<tr>
<td>E1004</td>
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<td>80</td>
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<td>E1006</td>
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12 VOLT MODELS

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<td>E1007</td>
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5.5 VOLT MODELS

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<tr>
<td>E1012</td>
<td>200</td>
<td>150</td>
<td>$11.76</td>
</tr>
</tbody>
</table>

CARTER COMPACT GENEMOTORS

The smallest complete auto TV converter. No fume, no trouble, no oil, no maintenance. Easily installed; will deliver full efficiency from a 6-volt battery. Measures 2 x 3 x 3. Weight, 6 lbs.

$970

HEAVY-DUTY POLICE TYPE GENEMOTOR

Ideally suited for use where reliable trouble-free service is a must. Connects directly to battery with simple, efficient circuit breaker. Units are automatic regulators and need no special care. Each, $10.29.

STANCOR POWER PACKS

The ideal power pack for auto and battery radio sales demonstration and for service test work. Eliminates need for storage batteries. New improved insulated rectifier tube is supplied with models 553 and 554. Stancor 6 volt, $8.95. 12 volt, $10.88. 24 volt, $15.59.

$20.58

FAMOUS JANETTE ROTARY CONVERTERS

CONVERTS D.C. TO A.C.

Permits the operation of A.C. radio sets, sound systems, and other devices and appliances from 20 volt direct or 110 volt D.C. lines. Complete comprises transformer, rectifier, filter and control. Shipped complete with and controls for easy connection and use. For sale at the lowest prices.

110-150 VOLTS D.C. TO 110 VOLTS 60 CYCLE A.C.

Stock: Output Inputs: No. Volts Amperes Type Price
| E10206 | 110 | 11.5 | CA-18-F | $31.39 |
| E10207 | 110 | 11.5 | CA-24-F | $34.64 |
| E10209 | 110 | 11.5 | CA-30-F | $40.30 |
| E10210 | 110 | 11.5 | CA-36-F | $44.71 |
| E10211 | 110 | 11.5 | CA-42-F | $49.14 |
| E10212 | 110 | 11.5 | 180-F | $63.53 |

32 VOLTS D.C. TO 110 VOLTS 60 CYCLE A.C.

Stock: Output Inputs: No. Volts Amperes Type Price
| E10213 | 110 | 11.5 | CA-18-F | $31.39 |
| E10214 | 110 | 11.5 | CA-24-F | $34.64 |
| E10216 | 110 | 11.5 | CA-30-F | $40.30 |
| E10217 | 110 | 11.5 | CA-36-F | $44.71 |
| E10218 | 110 | 11.5 | CA-42-F | $49.14 |
| E10219 | 110 | 11.5 | 180-F | $63.53 |

KNIHGT HIGH-QUALITY ROTARY CONVERTERS

A complete new line of Rotary Converters which are completely self-contained. No external connections are needed. Operates directly from 110 volt A.C. lines. Compact, dynamically balanced, ruggedly designed, and built for long life. Each, $31.39.

NEW MALLORY VIBRAPRAS
PORTABLE POWER PACKS FOR ALL RADIO & P.A. REQUIREMENTS

A new, inexpensive, dependable source of power for all portable radio receivers and transmitters, P.A. amplifiers, etc. Model types: 553 and 554. Ideal for battery radio. Each, $8.95.

$8.82

NEW ATR DC-AC INVERTERS

It is now possible to obtain 110 volt 60 cycle A.C. from 6 volt storage batteries. These units are designed especially for operating electro radio, sound systems, fans, small motors, etc. The improved plus-in vibrator has built-in regulation and quiet operation. Each, $11.76.

$11.76

CATALOG 1967
RADIO HEADQUARTERS FOR DEALERS AND SERVICEMEN
PIONEER GAS-ENGINE BATTERY CHARGERS

Efficient, low-cost gas-engined driven battery chargers. Built with the precision of an automobile engine. Developed to furnish power needs in districts not served by power companies. Also for use on boats, trailers, campers, industrial work, construction jobs, etc. In many cases, as follows: Shut-in wound 2-pole self-excited generator; shut-mounted armature; automatic step relay and ammeter; 4 cycle air-cooled 3 1/2 H.P. Briggs and Stratton Engine, operating at 2200 R.P.M. The two quart built-in tank will hold sufficient water for continuous operation. Equipment built-in for ease in noise reduction. Bendixes magneto for push-button starting with 130-240 volt battery. Also a separate auxiliary rope-pull starter. Overall dimensions, 18 x 13 x 11 inches. Weight, 36 lbs. for all units, 60 lbs. each.

FOR 6 VOLT BATTERIES

E5050. Model L-4. 115 Volts capacity. For charging 6 volt storage batteries for radios, farm lighting, etc. Shunt-wound generator. Designed to prevent acid re-builds. Includes shunt and 500 watt. For all units, 60 lbs. each.

$37.40

FOR 12 VOLT BATTERIES

E6095. Model D-6. 330 Volts capacity. Charges 12 V. storage batteries. NET.

$37.40

FOR 3 VOLT BATTERIES

E6096. Model M-6. 330 Volts capacity. For charging wet cell farm batteries of 3 volt type. NET.

$41.20

KNIGHT LOW-COST POWER PACKS

MODEL XPG

E915. For Short Wave receivers or small trans-out. 2–415 tubes. 200 Volts, 60 cycle. NET.

$510

E917. Same as above, except has added windings for 6 volt tubes, 1.5 amperes. Weight, 10 lbs. NET.

YOUR PRICE...

E919. Model XG. A power supply for low-power X-mitters or for crystal or tube stages. For 300 volts, 500 watts. 2–415 tubes, 200 Volts, 60 cycle. NET.

$510

E918. Same as above, except has added windings for 6 volt tubes, 1.5 amperes. Weight, 9 lbs. NET.

YOUR PRICE...

E919. Model O-1. A power supply for X-mitters using 3 or 4–215 tubes. 450 V. D.C. at 150 M.A. and 75 V. C.T. at 6 A. NET.

$510

E917. Your Price...

E919. Your Price...

E919. Your Price...

JUNIOR MODEL JRA3

These plants furnish a constant source of voltage for lighting signal lights and other gadgets, for both modern and old-time type. Engine delivers 116 Volts at 325 Watts. Also furnished with 15 volt output for clock operation, but these are made to order. NET.

$11.25

For use with 600 V.A.C. or D.C. battery. NET.

YOUR PRICE...

JUNIOR MODEL JRS3

As above, but with self-locking feature. 5 volt battery up to 29 amps. Use a standard 5 volt battery for self-starting. 300 Watts. NET.

$75.50

GAS ENGINE GENERATORS & PLANTS

NEW PIONEER "BLUE-DIAMOND" GAS-ELECTRIC PLANTS

Provide 110 Volts A.C.

E10595. Type B0. Supplies both 300 Volts D.C. and 110 Volts A.C. up to 225. Engine develops 116 Watts at 2250 R.P.M. A.C. voltage is supplied through a shunt-wound generator. NET.

$59.90

E10594. Type BDR. Same specification as above with built-in generator to furnish both 300 Volts D.C. and 110 Volts A.C. NET.

$78.70

FOR BATTERY CHARGING

All plants listed, except D052, provide battery-charging D.C. in addition to A.C. These A.C.-D.C. plants answer your power and lighting problems with a minimum of expense.

300 WATT A.C.~200 WATT D.C.

E10593. Type B0. Supplies both 300 Volts D.C. and 110 Volts A.C. NET.

$59.90

E10594. Type BDR. Same specification as above with built-in generator to furnish both 300 Volts D.C. and 110 Volts A.C. NET.

$78.70

600 WATT A.C. MODEL


$134.60

1000 WATT A.C. MODEL

E10596. Model BA-100. Heavy-duty straight A.C. current-limiter generator. Designed 186 Watts at 110 V. A.C. NET.

$194.60

FOR FILTERS FOR BOVE GAS-ELECTRIC PLANTS

E10597. Radio Filter. Designed to invert generator which feeds from entering the output leads. These effective filters are for use with 600 watt. NET.

$11.25

KATOLIGHT A.C. POWER PLANTS

1000 WATT LIGHTING PLANT

A 1000 watt, constant high-light, 120 volt, 60 cycle A.C. light plant. Ideal for use where the regular high-line service is not available. Gears all power plants with the cylinder engine. Accurate mechanical governor assures minimum voltage variation between "no load" and "full load." Engine and generators are mounted on common line. Connection between engine and generator is direct. This as- sumes, non-flickering light. Speed, 1800 R.P.M. Designed especially for applications where economy is the most important factor. Supplied with filter, shunt-winding, generator terminal panel, air-cleaner, muffler, etc. There are no fancy gadgets. Just a plain economy model which will supply dependable, economical service. Accessories which include filters, terminal board, muffler, etc., may be purchased (if needed). (Write for prices.) Shipping weight, 260 lbs. F.O.B. Factory, Mankato, Minnesota.

$171.00

YOUR PRICE...

$171.00

We can supply KATOLIGHT generators. Power plants to supply 6, 12, 36, and 120 Volt, Rotary Converters, battery chargers, can all be supplied to you. Let us know your requirements. We will need your requirements for our low quotations.
FARM LIGHTING - ELECTRIC FENCE

“POPULAR MECHANICS” R257 ELECTRIC FENCE CONTROLLER KIT

EASY TO BUILD AND OPERATE

Featured in Popular Mechanics for September, 1936. A proved Fence Controller that can be built by anyone who can handle a screwdriver, solvent, and a pair of pliers. Laid out on an open bottom chassis case for ease of mounting. All parts are standard, and can be bought at any machine shop. The case is designed to fit under the chassis. The complete unit is a self-contained device mounted in the metal chassis and is ready to use. Designed with simplicity of assembly as the main aim. When assembled and installed, the fence controller will work for years without any trouble. It builds your controller today. Illustrations show simplicity of this effective Fence Controller. Anyone can build it quickly and properly for effective operation and operation.

RELAY TYPE INTERRUPTER DEVICE

The economical low-current consumption of the R257 controller is made possible by double-relay action. Controller produces 40 short-duration shocks per minute. When horses, cattle, sheep, or sheep are in contact with the wire, they receive an effective but harmless “shock” which drives them away. Ideal for use where strange wires and fence controller can be shut off for long periods of time, thus effecting more economy of operation. The relays are the only moving parts in the entire assembly. These relays are built sturdy and built to give trouble-free operation for many years. Assembly is designed so that relays are mounted under chassis for protection from dust, etc.

NEW KNIGHT “FREE POWER” WINDMILL CHARGERS

HY-TOWER CHARGER

Get FREE POWER from the wind with this new de luxe Hy-Tower Charger. Costs nothing to operate; saves on battery-charging expenses. Puts the wind to work for you to charge 2 or 3 storage batteries. Charges 6 volt storage batteries to supply current for radio, farm radio, etc. Includes latest valuable features: wind-proof, balanced propeller; automatic tilt-back, reverse; run on any wind velocity; heavy-duty generator which cuts in at 370 R.P.M.; automatic turn-back to keep propeller faced into wind; throw-out collar for easy starting or stopping; self-adjusting, non-swinging, adjusting collar, etc. Supplied with 10-foot all-steel tower, all necessary accessories and full instructions. List $17.50

$19.75

WINDMILL SIDE-TOWER MOUNTING CHARGER

For the farmer who has a windmill tower close to the house, the new Windmill Side-Tower Charger makes a splendid installation. Windmill unit includes all features as described above: automatic tilt-back regulator; built-in dryer; automatic turn-back in case of low wind velocity to offer exceptionally reliable battery-charging. Provides sufficient power to enable you to charge several 6 volt batteries in an unusually short time. For offering of tower only, see page 42. List $47.00.

$33.75

SKY-SCAPER CHARGER

The higher the tower, the greater the current. This new Sky-Scaper Charger offers the very finest performance available. Suitable for Windmills. Includes automatic turn-back; comes with 6 volt storage battery. No charge for battery. Charges 6 volt storage batteries to supply current for farm radio, etc. Includes latest valuable features: wind-proof, balanced propeller; automatic tilt-back, reverse; run on any wind velocity; heavy-duty generator which cuts in at 370 R.P.M.; automatic turn-back to keep propeller faced into wind; throw-out collar for easy starting or stopping; self-adjusting, non-swinging, adjusting collar, etc. Supplied with 10-foot all-steel tower, all necessary accessories and full instructions. List $47.00.

$17.50

46 WE ARE HEADQUARTERS FOR ALL REPLACEMENT PARTS
ELECTRIC FENCES & ACCESSORIES

**ELECTRIC FENCE ACCESSORY EQUIPMENT**

**Fig. A. Insulates electric wire from fence posts.**

**€14101. EACH.**

**Fig. B. Insulates electric wire at fence corners.**

**€14102. EACH.**

**INSULATOR KIT**

This handy Electric Fence Insulator Kit contains 50-Type A fence post insulators and 100-Type B post insulators. Necessary leather washers are also included in the kit. Shpg. wt., 5 lb. 10c.

**€14100. NET. 79c.**

**CONVENIENT KWIK-KLIPS**

Fig. C. These clips provide an easy, quick method for fastening electric fence wire to insulators. Made of brass. Will last for years. Shpg. wt., 1 oz. 3c.

**€14103. PER PACKAGE OF 50. 30c.**

**HANDY GATE LATCH**

Fig. D. Consists of insulated handles with hook on one end and loop on other. Makes in extensive gate out of any section of fence. Shpg. wt., 5 oz. 3c.

**€14104. NET. 30c.**

**ELECTRIC FENCE ACCESSORY EQUIPMENT**

**FENCE TESTER**

An indispensable instrument which quickly shows whether fence wire is working properly, is partially grounded, or completely grounded. Two lead terminals—one terminating in a pointed red rubber, the other equipped with a holing insulated guard. To test a fence, the pointed rubber end is shoved into the ground and the insulated lead connected to the fence wire. Needle of meter shows instantaneous condition of fence control. Shpg. wt., 4 lb. 10c.

**€10625. NET. 1$1.75.**

**ELECTRIC FENCE KIT**

**KNIGHT "HOT-SHOT" TYPE BATTERY**

An efficient 6 volt dry battery, 1/4x9.6x.75 in., well-suited for operating fence controls. Individual construction is so thoroughly shock-proof that it is almost impossible to shock on handling. Shpg. wt., 6 oz. 2c.

**€6940. NET. 1$1.21.**

**COMPLETE, EASY-TO-OPERATE ARC WELDERS**

**DYNAMIC SUPER-CRASH WELDER**

For metal arc and carbon arc welding, this 110 volt direct current welder is complete with proper crushing socket, straight wire, 100 foot spool, and complete instructions. Unit measures 7 1/2" x 5 1/2" x 11 1/2". With convenient carrying handle and rotatable feet. Shpg. wt., 35 lbs. 22.95.

**€10599. Complete with helmet. NET. 45$45.**

**SUPER INDUSTRIAL ARC-WELDER**

For all heavy-duty types of welding. A De Luxe Industrial Type Arc-Welder. Heavy-duty type for all class arc welding, such as on cylinders, tanks, gondolas, cars, factory tanks, machine tools, metal fences, carriages, and general industrial work. Unit measures 7 1/4" x 5 1/4" x 12 1/4". With convenient carrying handle and rotatable feet. Shpg. wt., 35 lbs. 22.95.

**€10599. Complete with helmet. NET. 45$45.**

**ELECTRIC FENCE CONTROL**

**KNIGHT 6 VOLT ELECTRIC FENCE CONTROL**

- Complete for instant installation
- Built-in battery compartment
- Will not harm humans or animals
- Negligible operating cost
- For use with all livestock
- Saves on fence wiring costs

**ALLIED** brings you the finest commercially-built Electric Fence Control equipment. This electric fence equipment is available today. By installing a Knight Electric Fence, tremendous savings are immediately realized. Save on posts: With the Knight Fence, short light stakes placed every 30 feet are adequate for any length of fence. Gate-latches hinged below make a gate out of any section of wire. Save on labor: One man can easily erect fence posts with the use of the curtail. The current is not on all times, and because controller has a current-drawing contact, a further saving is effected. This is true of both D.C. and A.C. types. The A.C. type draws no more than 10 watts. A "Hot-Shot" type dry cell battery (see below) will operate the D.C. controller for about 4 months, or even longer if used intermittently. For use with all livestock, will hold horses, cows, sheep, or any combination of livestock with the same effectiveness. The Knight Electric Fence Controller employs a unique system of current control on the fence. The current cannot increase beyond a safe limit, no matter what the weather. The Knight design is so conservative that the time limit of the shock is less than 0.0015 seconds in duration. In effect, it is just as safe as the time limit of a shock than an electrical sensation. The fence voltage is also limited. One may not pass on this control for one second, and for one second the current cannot be increased beyond a safe limit.

**32 VOLT AND 110 VOLT**

**€10621. 32 VOLT CONVERTER.** By connecting this converter to battery lead of the Knight Electric Fence, operating arc-welding converter to your regular 32 volt plant, you can instantly increase your fence voltage any time. Unit measures: 11 3/4"x2 1/2"x2 1/2". Shpg. wt., 12 lbs. 9.05.

**POWER CONVERTERS**

**€10622. 110 VOLT CONVERTER.** Connects direct to standard 110 volt A.C. source. Converts current directly to 5, 110, 110 volt for operating the Knight Electric Fence. Fully filtered. If you have an A.C. source which will not supply this unit instead of batteries. Mounted in heavy-gauge steel box. Equipped with approved A.C. cord. Shpg. wt., 9 lbs. 4.95.

**ELECTRIC FENCES & ACCESSORIES**

Some of the very desirable features of the Knight Electric Fence Controller are as follows: The built-in, high-quality transformer will withstand 5000 volts. Switch frame is made of heavy-gauge, corrosion-resistant steel to resist rust. Contact points are made of one-inch tungsten for long life. Cabinets are finished with red water-proof enamel paint.
### IRC STANDARD VOLUME CONTROLS

<table>
<thead>
<tr>
<th>No.</th>
<th>Use Ohms</th>
<th>Ohms</th>
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<tbody>
<tr>
<td>E1190A</td>
<td>0.50</td>
<td>500</td>
</tr>
<tr>
<td>E1190B</td>
<td>0.50</td>
<td>500</td>
</tr>
<tr>
<td>E1190C</td>
<td>0.50</td>
<td>500</td>
</tr>
<tr>
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<tr>
<td>E1191D</td>
<td>1.00</td>
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### MALLORY-YAXLEY UNIVERSAL MIDGETS

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<th>Type</th>
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<td>E13901</td>
<td>E11936 3.0</td>
</tr>
<tr>
<td>E13902</td>
<td>E11937 3.0</td>
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<td>E11939 3.0</td>
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<td>E13905</td>
<td>E11940 3.0</td>
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### UTAH-CARTER VOLUME CONTROLS

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1226</td>
<td>$35.00</td>
<td>High quality Charlotte control. Isolated shaft type. CC - Counter Clockwise.</td>
</tr>
</tbody>
</table>
### Universal Volume Controls

The listings on this page constitute practically all of the Yaxley Volume Controls. With a comparatively small group, you can now meet the requirements of 90% of the majority of volume control installations. All controls have adjustable bias feature and 3" shaft which can be shortened very easily should the necessity arise. Universals are listed alphabetically to compare with similar models and extension bushing. All of these controls are listed LESS SWITCHES.

Universal control calls for a switch or where switch-type control is to be used, select lower switch cover from list below, and order as separate unit. NOTE: All units will be shipped less switch unless switch is specified in your order and extra remittance made.

#### Universal Replacement Controls

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Taper</th>
<th>No.</th>
<th>Type</th>
<th>Taper</th>
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<tr>
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<td>T</td>
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<td>T</td>
<td>65466</td>
<td>80000</td>
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</tr>
</tbody>
</table>

- **Adjustable Bias:** Slotted Shaft for auto sets, flexible shaft for auto sets, etc.
- **Wire-Wound:** Rest are Carbon.

#### Explanations of Yaxley Tapers:

**Taper I:** A modified log, left-hand taper in the carbon units semi-log in W.W. unit. For audio or any shunt circuits.

**Taper II:** A right hand log, taper in the carbon units semi-log in the W.W. unit. For series circuits, such as cathode volume controls.

**Taper III:** Combination right and left hand taper. For antenna mains.

**Taper IV:** Linear taper. Used where the voltage changes proportionately to the degree of rotation.

**Taper VII:** Universal "TRP" Tapped Controls

For practically all sets using tapped volume controls. Less Switches.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Mfr's. Type</th>
<th>Res. Ohms</th>
<th>Tapered at</th>
<th>No.</th>
<th>Mfr's. Type</th>
<th>Res. Ohms</th>
<th>Loaded at</th>
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<tr>
<td>E9200</td>
<td>TP900</td>
<td>6M</td>
<td>2500</td>
<td>E9201</td>
<td>TRP911</td>
<td>2 Meg</td>
<td>400M</td>
</tr>
<tr>
<td>E9201</td>
<td>TP900</td>
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<td>E9202</td>
<td>TRP911</td>
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<td>400M</td>
</tr>
<tr>
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<td>TP900</td>
<td>6M</td>
<td>2500</td>
<td>E9203</td>
<td>TRP911</td>
<td>2 Meg</td>
<td>400M</td>
</tr>
<tr>
<td>E9203</td>
<td>TP900</td>
<td>6M</td>
<td>2500</td>
<td>E9204</td>
<td>TRP911</td>
<td>2 Meg</td>
<td>400M</td>
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<tr>
<td>E9204</td>
<td>TP900</td>
<td>6M</td>
<td>2500</td>
<td>E9205</td>
<td>TRP911</td>
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<td>400M</td>
</tr>
<tr>
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<td>6M</td>
<td>2500</td>
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<td>TRP911</td>
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<td>400M</td>
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<td>TP900</td>
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<td>E9208</td>
<td>TRP911</td>
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<td>400M</td>
</tr>
</tbody>
</table>

**VOLUME CONTROLS**

IT'S EASY TO FIND THE RIGHT YAXLEY VOLUME CONTROL

Your volume control worries are over when you use the Mallory-Yaxley Encyclopedia. Sets are listed alphabetically according to manufacturers' names. All you need do is find the correct listing for your control type. You'll find your control in less than a minute! Mallory-Yaxley Encyclopedia contains over 2,000 listings. A complete reference book, it's a logical and convenient way to get the correct answer to every service problem. New edition every second mailing, this is the Mallory-Yaxley Encyclopedia that eliminates guess-work from servicing: analyses 17,000 volume control types and gives every detail that is important. E11665. YOUR NET PRICE.

### Special Single "SRP" Controls

These controls are especially made for receivers whose volume control requirements are so special that they cannot be met by Yaxley universal type controls. These controls have special electrical or mechanical features, which make them suitable for special replacement purposes. Consult the Mallory-Yaxley Encyclopedia for correct selections.

**List, 51.00:** List, 60c.

**Special Dual "DRP" Controls**

Consist of two separate resistance elements tapped and controlled by one shaft. These dual units will service practically all sets employing this type of control. Consult your Mallory-Yaxley Encyclopedia for control types you require and then order from this listing.

### Midget "MR" Controls

A new series of midget replacement volume controls especially suited for匹on connections where space permits and controls are unnecessary. Efficiently built, compact, long-lived. Designed with switch covers and caps to permit compact size. Available in many models and types, including special types with binary, quinary, etc., switches. See page 50 for additional listing of midget volume controls.
TWIN VOLUME CONTROLS

Many troublefree sets with single controls may be improved with No. 74-801 if the original control is in the 'C' line circuit, or with No. 74-802 for the screen grid circuit. Each case is matched to the original control; section nearest shaft is slotted from rear to end. Other fittings have same response in both sections. No. 96 tape. Clamps, 1% x 1% x 1". Price, each...

TAPPED RADIOHYMS

<table>
<thead>
<tr>
<th>No.</th>
<th>CRL</th>
<th>Description</th>
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<tbody>
<tr>
<td>50c</td>
<td>72-134 25000</td>
<td>10,000 Ohms Curve, Max. Res. 25000 Ohms</td>
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STANDARD CENTRALAB RESISTANCE CURVE CHART

The taper curves illustrated on the left will help you select the proper Centralab Volume Control for use in any type of radio circuit. The numbers shown on each curve correspond to the curve numbers shown in the Standard and Midget Radiohist. Each curve is applicable to the following:

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STANDARD MIDGET RADIOHYMS

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<td>25000 Ohms Curve, Max. Res. 25000 Ohms</td>
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</table>
VOLUME CONTROL GUIDE

The new completely revised CRI Volume Control Guide - Larger than ever! None of the features are: 16,000 different models, set and dial numbers listed in numerical order; new type and ware-pack unit switch listing; new duplex are listed; new A.A.S.A.C. controls new ADASHAFT controls. Every model they should have copy of this valuable Guide.

E3009 . FREE WITH ORDER FOR CRI CONTROLS.

REPLACEMENT VOLUME CONTROLS

A very thorough listing of the latest line of Centralab Volume Controls. Controls marked (*) are exact duplicates. Where original control is small in size, new Midget controls are simplified. All hand selected for best life and fine performance.

Manufacturer and Model Cat. No. NET

Grumman (General Hospital Use) 590 1 $39.00 .50
111 1 $39.00 .50
58-54 1 $39.00 .50
4-B, RA, 4-C, Universal 1 $39.00 .50
59, 58-1, Class 858, 510, 441 1 $39.00 .50
4D, 5D Class 1 $39.00 .50
117, 121, Class 1171, 1211 1 $39.00 .50
511, 7-B Class 1 $39.00 .50
312* 1 $39.00 .50

Broadway Radio

SG-4, SG-C 1 $39.00 .50
SGL, 610, 33AC 40 1 $39.00 .50
ZX, ZX, ZX 21 1 $39.00 .50

Kennedy, Colin, R., Corp.

126G, 16, 20, 22 1 $39.00 .50
45, 50, 52, 56, 59 1 $39.00 .50
126G, 20, 22, 24 1 $39.00 .50

Knight (Allied Radio Corp.)

6/7, 8/9, 9 Tube Super 1 $39.00 .50
450 1 $39.00 .50
510 1 $39.00 .50
8410 1 $39.00 .50

Nakazawa Radio (Columbia Phonos)

17 1 $39.00 .50
171, 20 1 $39.00 .50
201, 32, 35, 105, 106, 107 1 $39.00 .50

Cl, Cl, Cl, CI, Cl, Cl, Cl, Cl, Cl 70-7N, 902, 930 1 $39.00 .50
92, 942, 942, 942, 942 1 $39.00 .50
930, Phonon Comb 1 $39.00 .50
30 Series, 31-33 1 $39.00 .50
27-34 1 $39.00 .50
Majestic (Grangby-Grunow)

78, 701, 71, 72 1 $39.00 .50
168, 181 1 $39.00 .50
171, 170, 170, 170 1 $39.00 .50
115, 115, 115 1 $39.00 .50
14, 14, 14, 14, 14 1 $39.00 .50

Centralab

14, 14, 14, 14, 14 1 $39.00 .50
21, 21, 21, 21, 21 1 $39.00 .50
23, 23, 23, 23, 23 1 $39.00 .50

Majestic (Grangby-Grunow)

78, 701, 71, 72 1 $39.00 .50
168, 181 1 $39.00 .50
115, 115, 115 1 $39.00 .50
14, 14, 14, 14, 14 1 $39.00 .50

Allied Radio Corporation, 833 W. Jackson Blvd., Chicago, Ill.
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RESISTOR ASSORT-
MENT AND CABINET

CONTAINS 100 POPULAR
RESISTOR VALUES

A handy Bass
wood 6-drawer cab-
net with a care-
fully selected as-
sortment of 100
Knight resistors.
Ideal also for
washers, small
tools, etc.,
each drawer has a
removable parti-
tion. Bottom drawer
reserved for larger items.
Varied in natural wood finish. Will not warp
and will stand hard usage. 30%-50% off.
YOUR PRICE

$535

FREE!
The above basswood cabinet will be
given to you free with an order for any 200
Knight Carbon resistors you select.

HANDBY KNIGHT
RESISTOR KITS

An asset in shop or on service calls.
Each kit is an assortment of the most
popular values of Knight carbon resis-
tors. RMA color-coded.
Mounted on convenient handy
standby kit brackets.

12 POPULAR VALUES
IN EACH STRIP

13 Certified high quality Knight carbon
resistors of the types most frequently
required are included in the handy
kit brackets. Kit brackets hold larger items
such as resistors as you use them. Free-
RMA Color Code chart is included with each kit.

STANDARD VALUES

Ohms
200 800 2500 10,000 50,000
100 400 1600 6000 30,000
50 200 800 3300 15,000
25 100 400 1600 6000
10 50 200 800 3300
5 25 100 400 1600
2.5 10 50 200 800
1 2.5 10 50 200
0.5 1 2.5 10 50
0.25 0.5 1 2.5 10
0.125 0.25 0.5 1 2
0.0625 0.125 0.25 0.5 1

1/2 WATT KITS

ESI129. Consists of one each of the above
from 200 to 15,000 ohms.
ESI126. Consists of one each of the above
from 20,000 ohms to 2 meg.
YOUR PRICE

$49c

EITHER KIT

1 WATT KITS

ESI127. Consists of one each of the above
from 200 to 15,000 ohms.
ESI120. Consists of one each of the above
from 20,000 ohms to 2 meg.
YOUR CHOICE

$60c

EITHER KIT

RMA COLOR-CODE GUIDE

A handy pocket-size cellular guide with
torres listed which show codes of values
and colors of resistors accorded to selected
RMA color-code. (Use Resistor Chart, page
1.)
FREE with order for 24 resistors

YOUR PRICE

$9c

HIGHEST STANDARD
OF QUALITY

ASSURED ACCURACY

- SOLID MOLDED, PERMANENTLY BONDED,
- TOLERANCE AVERAGE CLOSE TO 5%,
- ABSOLUTELY QUIET IN OPERATION.
- COMPLETELY DURABLE PROOF.
- NON-INDUCTIVE—NO CAPACITY EFFECT.
- MAINTAIN RESISTANCE VALUES OVER
WIDE TEMPERATURE RANGE.
- OXYGEN-WELDED TINNED LEADS.
- NO FINER CARBON RESISTORS MADE.

The finest carbon resistors you can buy at any
good price. They are the highest quality units with con-
cidence, in any I.F. or Audio circuit. No other
similarly designed resistors are as accurate;
Tolerance to moisture, quiet in operation, non-
inductive, have low temperature coefficient; are me-
chanically strong. They will carry 100% overload without
	on being permanently affected. Each resistor is
RMA Color Coded. The tolerance of each and
every Knight Carbon Resistor is held within
5% (average close to 5%) by using automatic
testing machines. Save and profit by using Knight
resistors. Knight Resistors—The resistor units with the outstanding features.

POPULAR KNIGHT
CARBON RESISTOR KITS

Each kit contains 24 values.
Highest quality Knight Carbon Resistors. Packed in
handy kits of 24 units of the most commonly used
and needed values. Keep a kit on your work bench and a kit
in your tool box—you'll have the resistor you need when
you want it. All resistors RMA color-coded. A handy
Color Code Guide is supplied FREE with each kit. Knight
Resistors will save you time and money.

KITS CONTAIN THE FOLLOWING VALUES:

Ohms
2 Ohms
10 Ohms
100 Ohms
1 kOhms
10 kOhms
100 kOhms
1 Mohm
100 Mohms

1/2 Watt KIT

ESI138. Consists of one each of the above Knight Carbon
Resistors in 1 watt size.

YOUR PRICE

$1.25

1/2 WATT KIT

ESI138. Consists of one each of the above Knight Carbon
Resistors in the 1/2 watt size.

YOUR PRICE

$1.03

1 WATT KIT

ESI135. Consists of one each of the above Knight Carbon
Resistors in 1 watt size.

YOUR PRICE

$87c

Put in a stock of these high-
grade money-saving kits. You can't beat them for quality, value and
convenience. Order a supply now.
**IRC RESISTORS**

**TYPE "BT" INSULATED METALLIZED RESISTORS**
- Crack-proof, Trouble-free
- Completely Moisture-Sealed
- High Voltage Insulation

An improved new resistor design makes these units outstanding and desirable in every way. The high voltage insulating material absolutely eliminates danger of grounding. The quiet performance of these new type resistors renders them ideal for use in A.C. circuits, high capacity ones, etc. Each unit is color-coded and marked with resistance value. Accuracy ± 1%. (Illustrations at left are actual size.)

**STANDARD STOCK RANGES**

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**NEW IRC ALL-METAL RESIST-O-CABINET**

Sturdily built insulating cabinet of heavy metal, handsomely finished in blue and silver. Has four metal drawers, each with strap labels front and seven permanently fastened metal partitions. Flange bottom permits stacking cabinets. Provides convenient storage for resistors or other small parts. Contains capacities: 1.0, 2.5, 5.0, 10.0, 25.0, 50.0, and 100.0 meg. 1 Watt, each: 1000, 5000, 10000, 25000, and 50000 ohms. 2.5 Watt, each: 1500, 2500, 5000, 10000, 25000, and 50000 ohms. 5.0 Watt, each: 5000, 10000, 25000, and 50000 ohms. 10.0 Watt, each: 10000, 25000, and 50000 ohms. AB 10 Watt, 1 each: 10000, 25000, and 50000 ohms. Overall size of cabinet: 11" long, 5/8" high, 5/16" deep. You may order any resistors at standard price; cabinet is supplied filled with above resistors. $821. Cabinets are not sold separately.

**TYPE "BW" INSULATED WIRE-WOUND RESISTORS**

New type insulated, wire-wound resistors. Ideal for use with all types and makes of meters. Available in 0.1, 0.25, 0.5, 1, 2, and 5 watt usage type. May also be used as center-tapped resistors when grouped in series. Specify values when ordering.

**POWER WIRE-WOUND RESISTORS**

Finest quality resistors are evenly spaced on non-independent ceramic core. Durability cement coating provides protection against extra heat and humidity. With wound leads. Actual tests prove these units superior for mechanical strength, load capacity, lower surface temperature, etc. Conforms to N.K.A. standards and are accurate within ± 5%. Ideal for all Service work.

**NEW IRC TYPE MW-J CENTER-TAPPED RESISTORS**

These units are the most completely protected wire-wound resistors available. A new special phenolic compound impregnates to insulate. Legs are clamped to element under high pressure. Mounting cases: 2.5. Price: 2c.

---

**NEW IRC VOLUME CONTROL ANALYZER AND RESISTANCE INDICATOR**

A new calibrated continuously variable resistance indicator. Tuned to produce a uniform reading which may be directly read to any degree of accuracy. Extensive use of sensitive radio equipment makes for the design and manufacture of a new type of resistance indicator. Available in two different models: 1.5 inch, 7/8" diameter, 10 cent price; 4.5 inch, 1 3/8" diameter, 40 cent price.

---

**FREE—WITH PURCHASE OF 59 IRC RESISTORS**

---

**IRC WIRE-WOUND PRECISION RESISTORS**

Designed for most exciting demands of accuracy and durability. Circuit boards made from nickel silver and copper alloy; standard size and style number. Insulated, enamel, insulated, windings are varnish proof. Made to standard price; cabinet is supplied filled with above resistors. $821. Cabinets are not sold separately.
**5 Watts, $0.25 each.**

**10 Watts, $0.50 each.**

**25 Watts, $0.75 each.**

Non-inductive wire-wound resistors are accurate to 0.5%. They are wound of copper wire in "Koolhm" which is non-moisture-absorbent and a rapid heat conductor. Encased in aluminum shell with firmly embedded terminals. Combine cooler operation with greater wattage capacity in high-intensity lights.

<table>
<thead>
<tr>
<th>Ohms</th>
<th>No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>120</td>
<td>1000</td>
</tr>
<tr>
<td>2</td>
<td>120</td>
<td>1500</td>
</tr>
<tr>
<td>3</td>
<td>120</td>
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<td>200</td>
<td>3000</td>
</tr>
<tr>
<td>9</td>
<td>200</td>
<td>3500</td>
</tr>
</tbody>
</table>

**25 Watts, $0.75 each.**

<table>
<thead>
<tr>
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<th>No.</th>
<th>Notes</th>
</tr>
</thead>
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<tr>
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<td>2500</td>
</tr>
<tr>
<td>9</td>
<td>350</td>
<td>3000</td>
</tr>
</tbody>
</table>

**10 WATT "BUILD-YOUR-OWN" VOLTAGE DIVIDERS**

Now you can have "tailor-made" voltage dividers for every special requirement. Small, light, and compact 10 watt units which can be quickly assembled on brass rod and mounting brackets to make up any desired value. Units are insulated with "Koolhm" "E" form, wound resistors above, providing rapid heat dissipation. E449 hardware kit for building units is furnished FREE with each purchase of two or more 10 Watt units.

<table>
<thead>
<tr>
<th>Ohms</th>
<th>No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>8</td>
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<td>4000</td>
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**Wire-Wound Resistors**

Wires-wound on bore inserts. Low inductance.

<table>
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</thead>
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<tr>
<td>E9082</td>
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<td>750</td>
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<tr>
<td>E9083</td>
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<tr>
<td>E9084</td>
<td>200</td>
<td>990</td>
</tr>
</tbody>
</table>

**For Free 65c.** Net Each 7c.

**Eagle Plunger Leak**

Adjustable grid leak with a range from 0 to 56 megohms. Standard mounting.

E3974. YOUR PRICE... 25c

**For Additional Resistor Listings See Transmitting Type Voltage Dividers on Page 115.**
RESISTORS • BALLASTS

OHMITE WIRE-WOUND RESISTORS

"RED DEVIL"-10 WATTS
E6290. Available in all values from 1 to 25,000 ohms. Listed marked. Specify value desired when ordering.
NET EACH .............................................

"BROWN DEVIL"-20 WATTS
E6291. Values, 5 to 15,000 ohms. Sizes, 2 x 1/2%. Specify value desired. 
NET EACH ......................................

REPLACEMENT LINE BALLASTS

Exact duplicate line ballasts to replace original units in sets designed for their use. Made of quality parts to exact specifications of original, but discarded or non-functional sets. These units maintain normal voltage in spite of line fluctuations from 90 to 150 volts, thus assuring better radio performance and preventing damage to other parts of set. Enclosed in porcelain-cased porcelainated metal cases. singly or in sets. Shipped, wt., 1 lb. We can supply replacement ballasts for all ordinary sets. Shipped in original with data sheets, making tube and model information available. Single or any set made. Send for complete price list.

"RED DEVIL"-10 WATTS
E6292. Available in all values from 1 to 50,000 ohms, except those marked. Specify value desired when ordering.
NET EACH .............................................

"BROWN DEVIL"-20 WATTS
E6293. Values, 5 to 15,000 ohms. Sizes, 2 x 1/2%. Specify value desired. 
NET EACH ......................................

LINE CORDS AND VOLTAGE REGULATORS

AC-DC SET LINE CORDS

A special cord with built-in resistor which permits the operation of any 3-prong 110 Volts A.C.-D.C. receiver from a 220 Volt line. With plug and complete instructions.
E9145. List $.10, NET ..............................

VOLTAGE REDUCING RESISTOR

Reduces 220 Volts A.C. to 110 Volts A.C. to permit the operation of any A.C. radio receiver without change in circuit or wiring. Easy to install; simply plug Resistor into electric line socket, then plug radio set line cord into other end of Resistor. Will maintain original set with power consumption of 90 watts or less. Built for each receiver.
E6572. NET ...........................................

PROTEC VOLTAGE REGULATOR

An air-cooled dependable voltage regulator. Fills any standard socket or outlet and will deliver correct voltage to any set. Small and inconspicuous. Extremely dependable. Will give lasting service. 1 lb. Each.
E3970. EACH ...........................................

MUTER WIRE-WOUND ZIPOHM RESISTORS

Flat, wire-wound resistors to reduce overheating in radio. Each resistor is clearly marked with a tag. They are noiseless, durable, and accurate to within 5%. Ohms Ohms Ohms Ohms Ohms Ohms Ohms Ohms Ohms Ohms

10 100 1000 10,000 100,000 1,000,000
20 200 2000 20,000 200,000
50 500 5000 50,000

E6748. 5 WATT. Sizes, 3 1/2%, except units rated 12500 to 20000 ohms which are 2 1/2%. With 1/2% leads. Each .................................. 15c

CANDOHM RESISTORS

These resistors are exact duplicates of the original listed below. No orders will be filled, save all numbers on original part. Also give make, model and tube line-up of set. Please include deposit with order.

No.  (Fact. No.) Ohms  NET

CANDOHMETER RESISTANCE INDICATOR

Accurately calibrated dual-range resistance indicator. Quickly and accurately determines the value necessary for replacing any burned-out or defective radio tube. Panel reads freely in enclosed slot. With scale, dial, and clip.
E6599. 0-1000 Ohms. Shown wt. 1 lb. NET ...........................

CENTER-TAPPED RESISTORS

Most used in any filament or humid-ballast circuits. Wire-wound on flexible filament. Clip.
E6586. 0-100; 0-1000 Ohms. Shown wt. 1 lb. NET ...........................

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD
"TINY-MIKES" TYPE TM

ALUMINUM CAN DRY UNITS
TYPE LS

TUBULAR ELECTROLIGHTS

TYP Bat SW OIL-IMPREGNATED SHORT WAVE CONDENSERS

HANDY KIT OF TYPE TC CONDENSERS

NEW SPRAGUE "ATOMS" MIDGET ELECTROLIGHTS

ALUMINUM CAN TYPE

"500" WET ELECTROLIGHTS

600 V. CARDBOARD CASED
THE FINEST ELECTROLYTIC
CONDENSERS YOU CAN BUY!

Quality materials, quality construction, and quality safeguards have gained for KNIGHT Condensers a national reputation for outstanding efficiency, long life and trouble-free service. Thousands of Solderers, Amateurs, Radio Builders and Experimenter use KNIGHT Condensers exclusively because they know that these units are absolutely the equivalent of the finest standard makes and yet provide much more under the KNIGHT famous quality trade-mark.

TYPICAL CONSTRUCTION FEATURES:

1. Sturdy outside cardboard container.
2. Wax-impregnated, moisture-resistant inner liner.
3. Carbon completely filled with pure, high-temperature wax.
4. Etched aluminum foil increasing capacity per square inch.
5. Superior grade of bleached paper.
6. Terminal lead securely and permanently riveted.

Flexible, insulated push-back leads.

Electrically and mechanically, KNIGHT Condensers are the best that can be made and are guaranteed unconditionally for a year. ALLIED ELECTRIC does not guarantee that does not give one full year of satisfactory performance when operated at correct rated voltage. Simpl

UNCONDITIONALLY GUARANTEED FOR ONE YEAR

CARDBOARD CASED
DRY ELECTROLYTICS

These KNIGHT single and multiple section electrolytic condensers are adaptable to practically any filter and power application. Flanges may be removed without injury to condenser. The color-coded insulated leads allow the greatest possible flexibility in mounting. Conservatively rated at 525 D.C. surge volts: 450 D.C. working volts. Multiple units have separate sections. Whether for replacement or construction work, these KNIGHT condensers will do the job efficiently and inexpensively.

525 Volts Surge—450 Volts Wkg.

SINGLE SECTION

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3825</td>
<td>8-8-8</td>
<td>2</td>
<td>23c</td>
</tr>
<tr>
<td>E3826</td>
<td>4-4-4</td>
<td>4</td>
<td>21c</td>
</tr>
<tr>
<td>E3827</td>
<td>8-8</td>
<td>10</td>
<td>41c</td>
</tr>
<tr>
<td>E3828</td>
<td>8-8-8</td>
<td>16</td>
<td>51c</td>
</tr>
</tbody>
</table>

MULTIPLE SECTION

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
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<td>8-8-8</td>
<td>1-8</td>
<td>43c</td>
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<tr>
<td>E3830</td>
<td>8-8-8</td>
<td>6-8</td>
<td>63c</td>
</tr>
<tr>
<td>E3831</td>
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<td>E3832</td>
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<td>66c</td>
</tr>
<tr>
<td>E3833</td>
<td>8-8-8</td>
<td>12-8</td>
<td>80c</td>
</tr>
</tbody>
</table>

BANTAM SIZE
DRY ELECTROLYTICS

The latest perfected development in miniature electrolytic condensers. These miniature condensers are made in compact units which can be used throughout, and are combined with skilled production to assure you of a finer condenser at a lower price.

525 Volts Surge—450 Volts Wkg.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>E3835</td>
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<td>21c</td>
</tr>
<tr>
<td>E3836</td>
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</tr>
<tr>
<td>E3838</td>
<td>8-8-8</td>
<td>10-8</td>
<td>36c</td>
</tr>
</tbody>
</table>

VOLTAGE DOUBLING
DOUBLE SECTIONS

Quality-built electrolytic condensers especially designed for filter use in A.C. D.C. and inverters. A.C. sections use Type 9229 or 9253 tubes with 4- colored flexible 6 inch insulated wire leads—2 black and 2 red. Each capacity in a separate condenser section.

200 Volts Surge—150 Volts Wkg.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3839</td>
<td>10-10</td>
<td>10-10</td>
<td>70c</td>
</tr>
<tr>
<td>E3840</td>
<td>12-10</td>
<td>12-10</td>
<td>71c</td>
</tr>
<tr>
<td>E3841</td>
<td>16-10</td>
<td>16-10</td>
<td>74c</td>
</tr>
<tr>
<td>E3842</td>
<td>20-10</td>
<td>20-10</td>
<td>75c</td>
</tr>
</tbody>
</table>

CARTRIDGE TYPE
DRY ELECTROLYTICS


ALUMINUM CAN
DRY ELECTROLYTICS

Ordinary, low-priced dry electrolytic condensers mounted in aluminum insulated containers. Have standard nut and mounting and insulated leads. 1/2" diam. x 2 ½" in length. 4% for 250-500; 4% for others.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3843</td>
<td>8-8-8</td>
<td>2</td>
<td>42c</td>
</tr>
<tr>
<td>E3844</td>
<td>8-8-8</td>
<td>4</td>
<td>44c</td>
</tr>
<tr>
<td>E3845</td>
<td>8-8-8</td>
<td>8</td>
<td>47c</td>
</tr>
<tr>
<td>E3846</td>
<td>8-8-8</td>
<td>16</td>
<td>52c</td>
</tr>
</tbody>
</table>

MULTIPLE UPRIGHTS

In moisture-proof aluminum containers with each section separately wraped and fully insulated from the others. Negative terminals are always positive to aid in the proper color coding of soldering lugs at top. Working voltage, 450; surge voltage, 550; size 3 1/4" dia., 3 1/2" long; 4% for 250-500; 4% for others.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
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</thead>
<tbody>
<tr>
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<td>E3848</td>
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</tr>
<tr>
<td>E3850</td>
<td>8-8-8</td>
<td>8-5-4</td>
<td>60c</td>
</tr>
</tbody>
</table>

ALUMINUM-COATED
CARDBOARD CONTAINERS

For transformers, ripple filters, and high-current A.C. circuits. For A.C. and D.C. and high A.C. receivers. Containers are of aluminum-coated cardboard and filled with aluminum-doped electrolytics. B.C. and E.D.C. - D.C. and egg-yolk filters filled with electrolytics are made to order. Continuous operation 110 volts: 4% for 10-100; 6% for 125-500; 8% for others.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Peak Volts</th>
<th>NET</th>
</tr>
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<tr>
<td>E3851</td>
<td>8-8-8</td>
<td>500</td>
<td>80c</td>
</tr>
<tr>
<td>E3852</td>
<td>8-8-8</td>
<td>700</td>
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<tr>
<td>E3853</td>
<td>8-8-8</td>
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</tr>
<tr>
<td>E3854</td>
<td>8-8-8</td>
<td>1250</td>
<td>80c</td>
</tr>
</tbody>
</table>

LOW VOLTAGE ELECTROLYTICS

For use on low-current circuits requiring low deflections and low internal resistance. To be used for sensitive instruments where high quality and long life are essential. The condenser for D.C. service will last at least 10 years in continuous service and at least 50 years under average service conditions.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Peak Volts</th>
<th>NET</th>
</tr>
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<tbody>
<tr>
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<td>8-8-8</td>
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<td>80c</td>
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<td>E3856</td>
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<td>80c</td>
</tr>
<tr>
<td>E3858</td>
<td>8-8-8</td>
<td>1250</td>
<td>80c</td>
</tr>
</tbody>
</table>

WRITE US FOR "HARD-TO-GET" PARTS

58
### KNIGHT MOLDED BAKELITE MICA CONDENSERS

Genuine bakelite molded units available in three convenient mounting types, including insulated dielectric and Bakelite cases. Strong insulated mounting type, 1/4" thick. Pigtail lug type, 9/32". Tubular type, 9/32" and 1/8". Terminals may also be used for mounting. Highest quality at lowest available.

<table>
<thead>
<tr>
<th>Pigtail</th>
<th>Insulated</th>
<th>Lug Type</th>
<th>Mfd.</th>
<th>Type No.</th>
<th>Each</th>
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<td>0.0005</td>
<td>0.00025</td>
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<td>0.001</td>
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<tr>
<td>0.020</td>
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<tr>
<td>0.025</td>
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<td>0.030</td>
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<tr>
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<tr>
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<td>KNIGHT</td>
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<td>KNIGHT</td>
<td>0.120</td>
<td>0.120</td>
<td>KNIGHT</td>
<td>0.120</td>
</tr>
</tbody>
</table>

### By-Pass and Replacement Condensers

#### KNIGHT BATHTUB CONDENSERS

Non-refractive metal-cased units for all high voltage requirements. Permanently sealed and moisture-proof. Type A: 0.01μf in 600 V. Type B: 1.8μf in 600 V. Type C: 10μf in 600 V.

<table>
<thead>
<tr>
<th>Mfd. No.</th>
<th>Volts</th>
<th>NET 10 FOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>E7773</td>
<td>1.0</td>
<td>200 30c</td>
</tr>
<tr>
<td>E7774</td>
<td>1.0</td>
<td>200 25c</td>
</tr>
<tr>
<td>E7775</td>
<td>1.0</td>
<td>300 25c</td>
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<tr>
<td>E7776</td>
<td>1.0</td>
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</tr>
<tr>
<td>E7777</td>
<td>1.0</td>
<td>600 25c</td>
</tr>
</tbody>
</table>

#### Single Section (Type B)

<table>
<thead>
<tr>
<th>Mfd. No.</th>
<th>Volts</th>
<th>NET 10 FOR</th>
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<tr>
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<td>200 30c</td>
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<tr>
<td>E7795</td>
<td>1.0</td>
<td>300 30c</td>
</tr>
<tr>
<td>E7796</td>
<td>1.0</td>
<td>400 30c</td>
</tr>
<tr>
<td>E7797</td>
<td>1.0</td>
<td>600 30c</td>
</tr>
</tbody>
</table>

#### VIBRATOR CONDENSERS

A new series of oil-immersed capacitor cans capable of handling heavy voltages in vibration. Suitable as replacements in numerous applications. housed in specially designed, fully shielded cans. Wing, 50 case. B. Units marked, "May not Lead".

<table>
<thead>
<tr>
<th>Value</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0μf</td>
<td>11/2x3&quot;</td>
<td>$2.70</td>
</tr>
<tr>
<td>1.5μf</td>
<td>11/2x3&quot;</td>
<td>$3.70</td>
</tr>
<tr>
<td>2.0μf</td>
<td>11/2x3&quot;</td>
<td>$4.70</td>
</tr>
</tbody>
</table>

### HANDY KNIGHT CONDENSER KITS

#### WITH FREE METAL CABINETS

Take advantage of this remarkable offer. Orders the condenser kits listed below, and receive FREE a metal cabinet today. Sold at 90c each. These measure 91/4"x61/2x3/4". Sturdily constructed, suitable for many uses. Proprietary is made for stacking several of these cabinets in form one remote, handy unit. Ideal for keeping small parts. Big quality condensers and get these cabinets FREE.

- **Kit No. 1**
  - **ASSORTMENT OF "TINY KNIGHTS"**
    - Kit of new "TINY KNIGHT" Dry Tubular Condensers. The most popular and widely demanded values have been selected for your convenience. Kit consists of: 9-3.9pfd 9V10C; 4.7-400 in 100 V.; 240 in 250 V.; 240 in 300 V.; and 14-11513 in 16 Mfd. 250 V. condensers.

- **E7768. NET WITH CABINET. $4.96**

- **Kit No. 2**
  - **STANDARD DRY ELECTROLYTICS**
    - Kit of KNIGHT Cardboard and Can Type Electrolytics. Following selection has been made from our standard high quality line of 11513 in 250 V. condensers. Kit includes 3 in 100 V.; 3 in 115 in 115 V.; 3 in 115 in 125 V.; 3 in 115 in 150 V.; 3 in 115 in 200 V.; and 1 in 300 V. 300 V. condensers.

- **E7766. NET WITH CABINET. $4.94**

- **Kit No. 3**
  - **PERM-A-SEALD TUBULARS**
    - Kit of KNIGHT PERM-A-SEALD Tubular Condensers for high voltage applications. Kit includes 3 in 115 in 115 V.; 3 in 115 in 125 V.; 3 in 115 in 150 V.; 3 in 115 in 200 V.; and 1 in 300 V. 300 V. condensers.

- **E7767. NET WITH CABINET. $4.33**

### MAKE UP YOUR OWN CONDENSER SELECTION—SAVE MONEY!

FREEDOM! Select any assortment of KNIGHT Electrolytic Condensers (Perm-A-Seed and new TINT-KNIGHTS may be supplied) which totals $5.00 net or over. A metal cabinet will be included in your assortment for FREE cost to you. You are not limited only by the low prices of KNIGHT Condensers, but because you also get a useful cabinet without extra charge. Start building your own assortment, and save money. Place your order now. Write for details.
ALLIED brings you the most comprehensive exact duplicate filter condenser listing available today. ALLIED's listing below compares with the most popular replacements. It also has the advantage of being available in our vast condenser stocks, many condensers which are not constantly in demand. If you might need a condenser similar to one we carry, simply consult our stock and you will satisfy your condenser requirement. You will find these condensers exact duplicates in every detail of construction. The mounting holes will be identical with condensers you are replacing. At present you can replace them all color-coded. Fast and accurate replacement work. Aerovox standard quality is built into each unit.

**NEW KNIGHT "600" DRY ELECTROLYTICS**

A radical departure from standard design in condenser manufacture. Leads are brought out to a standard 4-prong tab base. Ideal for use by experimenters in building new equipment. Makes possible split-second replacement of any electrolytic condenser in a public address amplifier or in a receiver chassis. Mounted in moisture-proof, non-corrosive aluminum containers.

600 VOLTS PEAK—475 VOLT D.C. WKG.

A new line of high voltage, high safety factor condensers, especially for P.A. use in amplifiers and for use in equipment where condenser failure must not occur. Will stand heavy shock and vibration. Mounting rails may be cut off where necessary. Units of unusually high quality which will stand up under all types of heavy-duty service.

**NEW TOBE "PLUGGIN" DRY ELECTROLYTICS**

These electrolytics are identical to the units originally used in a wide variety of standard sets. Each unit has color-coded wire leads 8" long. Cardboard containers have mounting flanges.

**TUBULAR TYPE**

**rectangular type**
TUBULAR BY-PASS UNITS  
TYPE TP  
Non-inductive by-pass condensers of superior quality. Thoroughly impregnated against moisture. Write for quantity prices.  
600 Volts DC  
400 Volts DC  

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>NET</th>
<th>Pkg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11750</td>
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</tr>
<tr>
<td>E11751</td>
<td>.00025</td>
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<tr>
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<td>0.001</td>
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</tr>
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<tr>
<td>E11758</td>
<td>.02</td>
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<tr>
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<tr>
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</tr>
<tr>
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<tr>
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<td>0.10</td>
</tr>
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<tr>
<td>E11799</td>
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</tbody>
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COMPLETE SERVICE DATA ON 17,000 RADIOS  
ALLIED STOCKS ALL MALLORY UNITS  
The Mallory condenser described on this page constitutes Type TP, still available in 17,000 radios. The entire service data is available from Allied at all times. Any type not listed here may be ordered from Allied at 40c/2 units discounts from list prices shown in this schedule. Orders over 30 units are guaranteed to meet all service requirements up to Mallory condensers now.

DUAL-PASS UNITS  
17,000 RADIO TYPE SR605.

DRY ELECTROLYTIC CONDENSERS  
CARDBOARD CASED  
In metal containers  
Small and compact replacement condensers. Internal metal seal prevents damage from excess heat or humidity. Reasonable cost. All units have 5% tolerance color-coded seals.

BB-TUBULARS  
100 V. D.C. WORKING NET 24c.

RS—SINGLE SECTION  
High efficiency metal case electrolytic condensers for use in alternating and direct current circuits. Adequate for services up to 60 cycles. New internal construction prevents surface failure. With leads, mounting nut, and washer.

WE—WET ELECTROLYTICS  
Low power factor and efficient self-healing characteristics make these units ideal for all low-duty service requirements. Rated conservatively at 400 Volts D.C. working, values are guaranteed for efficient, long-life service. Supplied with cut-out mounting uprights.

TUBULAR DRY ELECTROLYTICS  
Especially designed for by-pass use. Low power factor and suitable for high temperature service. With 3/16" terminal holes.

MOUNTING HARDWARE  
E 13444. A-016. Terminal Connector to replace or replace existing hardware NET EACH 3c.

E 13445. 101-1 Universal Mounting Bracket to replace unnecessary tapped holes on existing chassis. Can units on chassis originally equipped with ring clamp or square bolt nags. NET 6c.

MALLORY—REPLACEMENT MULTIPLE SECTIONS  
A new series of standard D.C. leads. Designed for replacement of similar size units. These D.C. leads are available in all multiple units. Good quality replacement units are always on spot.
AEROVOX ELECTROLYTIC CONDENSERS
ALUMINUM CAN TYPES

TYPE GL INVERTED—FIG. A
525 Volts D.C. Peak—450 Volts D.C. Working

MIDGET CARDBOARD DRY ELECTROLYTICS

TYPE E UNEVERSAL MTC.—FIG. C
525 Volts D.C. Peak—450 Volts D.C. Working
Thoroughly dependable units which will serve a large number of popular radio sets. Pub-
lished with dependable ratings. Hermetically sealed. With hand and nut inverted mounting.

WET ELECTROLYTICS
TYPE FG—FIG. D. 500 V. Peak, 450 V. Wkg.

TUBULAR ELECTROLYTICS
TYPE PR. Light compact units for replacement or construction work. Ideal for bypass and
filter requirements. With 3/8" securely riveted pinnum wire leads.

NEW MINIATURE "DANDEES"

MIDGET CARDBOARD DRY ELECTROLYTICS

TYPE PBS-450
525 V. Peak, 450 V. D.C. Wkg.

TYPE P' ELECTROLYTICS
525 V. Peak, 450 V. D.C. Wkg.

LIVE-RUBBER MOLDED PAPER CONDENSERS

Cartridge Condensers
Conservatively rated compact non-inductive paper condensers. Sealed in wax impregnated pa-
per tubes, with wire leads. Tubes and sections units have common lug for convenient mounting.

400 Volt

1000 Volt

BAKELITE MICA CONDENSERS
Compact "postage stamp type" con-
densers. Ideal for both high frequency and meter by-pass circuits. Sealed in bakelite cases against
all climate and temperature conditions. Selected Ruby mica dielectric.

TYPE 1467

TYPE 1450 CONDENSERS
Accurate micro-fallout condensers in bakelite cases. Handy soldering lug. Working volt-
age up to 5000 V. D.C. Tested at 5000 volts. Thoroughly sealed against humidity. Capacity of units is clearly marked on case.

INDEX SEE PAGE 159-160
### Cornell-Dubilier Condensers

#### High-Grade Electrolytic Condensers

**“DWARF” Tubular Paper Condensers**

Reliable non-inductive all-purpose condensers. Wax-impregnated and triple-sealed against moisture. Low power-factor and high DC resistance make these units ideal for all RI, IP and audio by-pass requirements. With 22% nickel 300°C tinned leads.

**400 Volts DC Working Volts**

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>NET</th>
<th>No.</th>
<th>Mfd.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3125</td>
<td>0.1</td>
<td>45</td>
<td>E3135</td>
<td>0.15</td>
<td>55</td>
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<tr>
<td>E3145</td>
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<td>56</td>
<td>E3155</td>
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<td>65</td>
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<td>E3165</td>
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<td>E3175</td>
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<td>E3185</td>
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<td>155</td>
<td>E3195</td>
<td>0.5</td>
<td>225</td>
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**600 Volts DC Working Volts**

<table>
<thead>
<tr>
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<th>Mfd.</th>
<th>NET</th>
<th>No.</th>
<th>Mfd.</th>
<th>NET</th>
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</thead>
<tbody>
<tr>
<td>E3125</td>
<td>0.1</td>
<td>95</td>
<td>E3135</td>
<td>0.15</td>
<td>135</td>
</tr>
<tr>
<td>E3145</td>
<td>0.2</td>
<td>185</td>
<td>E3155</td>
<td>0.25</td>
<td>265</td>
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</table>

**1000 Volts DC Working Volts**

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>NET</th>
<th>No.</th>
<th>Mfd.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3125</td>
<td>0.1</td>
<td>265</td>
<td>E3135</td>
<td>0.15</td>
<td>395</td>
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<td>E3145</td>
<td>0.2</td>
<td>465</td>
<td>E3155</td>
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<td>695</td>
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**1600 Volts DC Working Volts**

<table>
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<th>NET</th>
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<th>Mfd.</th>
<th>NET</th>
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</thead>
<tbody>
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<td>E3125</td>
<td>0.1</td>
<td>525</td>
<td>E3135</td>
<td>0.15</td>
<td>795</td>
</tr>
</tbody>
</table>

- Ideal for Auto Vibrator Purposes.

#### Molded Bakelite Mica Condensers

Conservative working voltage rating 500 V. D.C. based on test voltage of 1000 V. D.C. Type W are 4%, 6%, and 8% to 6000 mfd. higher capacity any 3%, 5%, or 10% Type L. All capacities are 15%.

**Cap. Mfd. Type L.**

<table>
<thead>
<tr>
<th>No.</th>
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<td>E3641</td>
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<tr>
<td>.0001</td>
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<td>.00025</td>
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</tr>
<tr>
<td>.025</td>
<td>E3652</td>
<td>E3662</td>
</tr>
</tbody>
</table>

#### Wet Electrolytics

**Type ET—Fig. D. 500 V. D.C. Peak**

Ideal for all heavy-duty work where dry units are unsuitable. Low power factor and leakage current. Self-healing. Stud and nut mounting.

<table>
<thead>
<tr>
<th>Mfd. Peak</th>
<th>Volts</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3715</td>
<td>6</td>
<td>7 x 1 7/8</td>
</tr>
<tr>
<td>E3716</td>
<td>8</td>
<td>8 x 15/16</td>
</tr>
<tr>
<td>E3717</td>
<td>10</td>
<td>9 x 7/8</td>
</tr>
<tr>
<td>E3718</td>
<td>12</td>
<td>12 x 7/8</td>
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<tr>
<td>E3719</td>
<td>14</td>
<td>14 x 1</td>
</tr>
<tr>
<td>E3720</td>
<td>16</td>
<td>16 x 7/8</td>
</tr>
</tbody>
</table>

#### Tubular Electrolytics

Type ED. Compact, low leakage, dry electrolytic condensers. Well-made, double-sealed in durable cardboard containers.

<table>
<thead>
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<th>Mfd. Peak</th>
<th>Volts</th>
<th>Size</th>
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<td>3</td>
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<td>E3701</td>
<td>5</td>
<td>5 x 1 1/4</td>
</tr>
<tr>
<td>E3702</td>
<td>7</td>
<td>7 x 1 3/4</td>
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<td>E3703</td>
<td>10</td>
<td>10 x 1 3/4</td>
</tr>
<tr>
<td>E3704</td>
<td>12</td>
<td>12 x 1 3/4</td>
</tr>
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</table>

#### New Type BR “Beavers” Midget Electrolytics

These compact, high quality condensers are ideal for replacement and construction work where space is at a premium. Potentiated bipolar electrolytic process makes high power, high capacitance blue-colored varnished protective sleeve, spurious and end evacuation, prevents internal shorts. All units have aluminum container. Finest quality units.

**Net**

<table>
<thead>
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<th>Mfd.</th>
<th>Size</th>
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<td>E4077</td>
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<td>150 x 9/32</td>
</tr>
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</table>

#### Cardboard Cased Dwarf Midgets

**Type JR**

Desirable, inexpensive compact dry electrolytics. For use in all smaller appliances: make ideal replacements in the smallness and economy of a wide range of every type of radio service job where dry units are unsuitable. All units have aluminum containers: sealed to prevent humidity. With adjustable mounting feet.

**250 V. DC Peak, 200 V. DC Wkg.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3930</td>
<td>8</td>
<td>1 x 3/8</td>
</tr>
<tr>
<td>E3931</td>
<td>12</td>
<td>1 x 3/8</td>
</tr>
</tbody>
</table>

#### Type EH

Build up your service profits with these high quality electrolytic condensers. In improved cardboard cases with punched flanges to facilitate mounting. Multiple units have common mounting flanges. Working voltage 450 V. D.C. Surge voltage 550 V. D.C. All units have long flexible insulated wire leads. Carefully built for long service.

**525 Volts DC Peak**

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3670</td>
<td>5</td>
<td>5 x 1 1/4</td>
</tr>
</tbody>
</table>

#### Type HM—600 Volts Peak

Use these condensers where a high safety factor is required or where surge voltages are high. 600 V. D.C. Working. 720 V. D.C. Surge.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>E4080</td>
<td>4</td>
<td>1/2 x 1 1/4</td>
</tr>
</tbody>
</table>

---

*Cornell-Dubilier High-Grade Electrolytic Condensers are ideal for all RI, IP and audio by-pass requirements.*

---

*Allied Radio Corporation, 883 W. Jackson Blvd., Chicago, Ill.*
QUALITY ELECTROLYTIC CONDENSERS

CARDBOARD CASED
"LITTLE GIANT" DRY ELECTROLYTICS

The latest perfected development in dry electrolytics. Electrical characteristics are unchanged but size is greatly reduced. Especially desirable where space is at a premium, and for small equipment where size is important. Have 6" leads. Dual units have separate cavities.

TABLE 5

-55 V. Pek, 450 V. D. C. Wkg.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4 x 5 x 1.5</td>
<td>$0.38</td>
</tr>
<tr>
<td>4</td>
<td>3 x 4 x 1.5</td>
<td>$0.40</td>
</tr>
<tr>
<td>8</td>
<td>2 x 2.5 x 1.5</td>
<td>$0.41</td>
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<tr>
<td>12</td>
<td>1.5 x 2 x 1.5</td>
<td>$0.41</td>
</tr>
<tr>
<td>24</td>
<td>1 x 1.75 x 1.5</td>
<td>$0.60</td>
</tr>
<tr>
<td>36</td>
<td>0.75 x 1.25 x 1.5</td>
<td>$0.66</td>
</tr>
<tr>
<td>60</td>
<td>0.625 x 1 x 1.5</td>
<td>$0.76</td>
</tr>
<tr>
<td>120</td>
<td>0.375 x 0.625 x 1.5</td>
<td>$1.29</td>
</tr>
</tbody>
</table>

DAA-O CARDBOARD DRY ELECTROLYTICS

117 electrolytic condensers specially treated to repel moisture. In sturdy cardboard containers; wax filled. Unaffected by the adverse conditions of temperature and humidity. With consequent outlasting features and 6" waxed leads. Excellent for replacement applications. Watering it at 4500 will withstand surges of 255 volts.

-55 V. Pek, 200 V. D. C. Wkg.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4 x 5 x 1.5</td>
<td>$0.50</td>
</tr>
<tr>
<td>4</td>
<td>3 x 4 x 1.5</td>
<td>$0.53</td>
</tr>
<tr>
<td>8</td>
<td>2 x 2.5 x 1.5</td>
<td>$0.53</td>
</tr>
<tr>
<td>12</td>
<td>1.5 x 2 x 1.5</td>
<td>$0.54</td>
</tr>
<tr>
<td>24</td>
<td>1 x 1.75 x 1.5</td>
<td>$0.70</td>
</tr>
<tr>
<td>36</td>
<td>0.75 x 1.25 x 1.5</td>
<td>$0.70</td>
</tr>
<tr>
<td>60</td>
<td>0.625 x 1 x 1.5</td>
<td>$0.76</td>
</tr>
<tr>
<td>120</td>
<td>0.375 x 0.625 x 1.5</td>
<td>$1.29</td>
</tr>
</tbody>
</table>

TUBULAR ELECTROLYTICS

-55 V. Pek, 450 V. D. C. Wkg.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4 x 5 x 1.5</td>
<td>$0.50</td>
</tr>
<tr>
<td>4</td>
<td>3 x 4 x 1.5</td>
<td>$0.53</td>
</tr>
<tr>
<td>8</td>
<td>2 x 2.5 x 1.5</td>
<td>$0.53</td>
</tr>
<tr>
<td>12</td>
<td>1.5 x 2 x 1.5</td>
<td>$0.54</td>
</tr>
<tr>
<td>24</td>
<td>1 x 1.75 x 1.5</td>
<td>$0.70</td>
</tr>
<tr>
<td>36</td>
<td>0.75 x 1.25 x 1.5</td>
<td>$0.70</td>
</tr>
<tr>
<td>60</td>
<td>0.625 x 1 x 1.5</td>
<td>$0.76</td>
</tr>
<tr>
<td>120</td>
<td>0.375 x 0.625 x 1.5</td>
<td>$1.29</td>
</tr>
</tbody>
</table>

BAKELITE MOLDED MICA CONDENSERS


eightest quality materials. Sealed against all climatic conditions. Resistant by discriminating Servicemen and Amateurs.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>%&quot; Sq.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.002</td>
<td>4.0 x 1.5 x 1.5</td>
<td>$12c</td>
</tr>
<tr>
<td>0.004</td>
<td>3.0 x 1.5 x 1.5</td>
<td>$9c</td>
</tr>
</tbody>
</table>

NEW MINICAP TUBULARS

New compact ultra dry capacitor, hermetically sealed in metal case and mounted on a cardboard tube. One lead is riveted directly to the metal canister, and the other is brought through a small bakelite bushing. Dual units have common negative mounting strap. Ideal for replacements.

-55 V. Pek, 450 V. D. C. Wkg.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4 x 5 x 1.5</td>
<td>$0.38</td>
</tr>
<tr>
<td>4</td>
<td>3 x 4 x 1.5</td>
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<td>24</td>
<td>1 x 1.75 x 1.5</td>
<td>$0.60</td>
</tr>
<tr>
<td>36</td>
<td>0.75 x 1.25 x 1.5</td>
<td>$0.66</td>
</tr>
<tr>
<td>60</td>
<td>0.625 x 1 x 1.5</td>
<td>$0.76</td>
</tr>
<tr>
<td>120</td>
<td>0.375 x 0.625 x 1.5</td>
<td>$1.29</td>
</tr>
</tbody>
</table>

IN METAL CANS

STANDARD SIZE DRY INVERTED CAN

Round inverted type electrolytics with six 1/2" leads. Caps are adequately insulated from the canister sections, and the leads are brought through extruded metal screw base. A locknut is supplied with each unit. Has exceptional characteristics making it ideal for replacements. Sizes 4 x 4, 4 x 3, 4 x 2, 4 x 1.5 "

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>Peak V.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>08</td>
<td>1.5</td>
<td>$0.50</td>
</tr>
<tr>
<td>12</td>
<td>1.0</td>
<td>$0.50</td>
</tr>
<tr>
<td>16</td>
<td>0.75</td>
<td>$0.47</td>
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<tr>
<td>25</td>
<td>0.45</td>
<td>$0.25</td>
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</tbody>
</table>

TYPE D - 450 V. D. C. Wkg.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>Peak V.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>08</td>
<td>2.5</td>
<td>$0.50</td>
</tr>
<tr>
<td>12</td>
<td>2.0</td>
<td>$0.40</td>
</tr>
<tr>
<td>16</td>
<td>1.5</td>
<td>$0.30</td>
</tr>
<tr>
<td>25</td>
<td>1.0</td>
<td>$0.25</td>
</tr>
</tbody>
</table>

WET ELECTROLYTICS

-55 V. Pek, 450 V. D. C. Wkg.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>Size</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4 x 5 x 1.5</td>
<td>$0.50</td>
</tr>
<tr>
<td>4</td>
<td>3 x 4 x 1.5</td>
<td>$0.53</td>
</tr>
<tr>
<td>8</td>
<td>2 x 2.5 x 1.5</td>
<td>$0.53</td>
</tr>
<tr>
<td>12</td>
<td>1.5 x 2 x 1.5</td>
<td>$0.54</td>
</tr>
<tr>
<td>24</td>
<td>1 x 1.75 x 1.5</td>
<td>$0.70</td>
</tr>
<tr>
<td>36</td>
<td>0.75 x 1.25 x 1.5</td>
<td>$0.70</td>
</tr>
<tr>
<td>60</td>
<td>0.625 x 1 x 1.5</td>
<td>$0.76</td>
</tr>
<tr>
<td>120</td>
<td>0.375 x 0.625 x 1.5</td>
<td>$1.29</td>
</tr>
</tbody>
</table>

"SEALDTITE" TUBULAR PAPER CONDENSERS

Finest quality paper condensers in specially treated cardboard tubes. Double vacuum insulated, non-inductively wound, leads are hot-soldered to the section.

-55 V. Pek, 200 V. D. C. Wkg.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>08</td>
<td>$0.56</td>
</tr>
<tr>
<td>12</td>
<td>$0.56</td>
</tr>
<tr>
<td>16</td>
<td>$0.56</td>
</tr>
<tr>
<td>25</td>
<td>$0.56</td>
</tr>
</tbody>
</table>

DOMINO MOLDED CONDENSERS

Paper condensers molded in bakelite. They are resistant to heat and moisture. Flat, compact, economical and uniformly colored for quick identification. Type MP.

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>08</td>
<td>$0.15</td>
</tr>
<tr>
<td>12</td>
<td>$0.15</td>
</tr>
<tr>
<td>16</td>
<td>$0.15</td>
</tr>
<tr>
<td>25</td>
<td>$0.15</td>
</tr>
</tbody>
</table>

"10X" DOMINO ASSORTMENT

A special assortment of popular 600 V.D.C. Volt Domino Condensers in the following values: 0.01-0.02-0.05-0.10-0.15-0.20 MF. $0.62

"TOM THUMB" TYPE TT CONDENSERS

Very compact molded paper units sealed in varnished wrappings. Occupy very little space. They are especially recommended for replacement in capacitor filter blocks.

-55 V. Working - 600 V. Test

<table>
<thead>
<tr>
<th>Mfd.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.001</td>
<td>$0.50</td>
</tr>
<tr>
<td>0.002</td>
<td>$0.24</td>
</tr>
</tbody>
</table>

MAKE ALLIED YOUR RADIO SUPPLY HEADQUARTERS
KNIGHT FILTER CHOKES
Open-type construction, with leads. For any tank and AC receiver. Excellent for test equipment, building requirements—where a high-quality, dependable replacement is available. Use 1% A.C.-T. 2% B.C.

No.   Henrys   M.  Ohms   NET
E11650  25  25  850  68c
E11651  150  35  250  1.25
E11652  250  100  200  71c
E11653  500  200  62c
E11654  1000  500  500  39c
E11655  1500  750  600  35c
E11656  2000  1100  89c

* Plate considerable for det. tube. High impedance at audio frequency.

KNIGHT AC-DC CHOKES
For any or 5 tube midget. Some shielded. All units rated at 150 ly. at 40 M. A. at 4000 cycles. New, high-grade tape winding to supply...25 volts, 50/60 cycles. Conservatively rated for high-consumption service. Several types are available for practically all set requirements. Terminals are provided for sub-panel wiring. Unit is not a noisy affair. For use in substitute choke circuits. Ideally inserted as corner booth...tuning, positive, solid mounting. Ideal for use in limited space. Two tubes will give a ton of new life to value low-cost, high-grade units for replacement purposes. Use them regularly in high-quality setups.

No.   Ohms   Ohms   NET
E11636  250  250  .70c
E11637  250  250  .70c
E11638  250  250  .70c
E11639  250  250  .70c

NET EACH 37c

KNIGHT AUTO RADIO VIBRATO TRANSFORMER
A newly developed compact transformer designed to meet the demand for...tubes. When the...25 volts, 50/60 cycles. May be used...the same M.A. wires. Units use 3%...for universal high-quality...not a loud affair. Conserves low-cost replacement unit.

E11671. YOUR PRICE 1.25

KNIGHT FIELD EXCITER POWER TRANSFORMER
This transformer is designed to deliver 169 volts at 200 A. 1...filter, with an 83 or 50...will...be as for either...fuses to 40...Sec. 50 at 40 M. A. in conjunction with any Standard Universal...type. Good quality. 1%...current low-cost replacement unit.

E11673. YOUR PRICE 1.95

KNIGHT TUBE TESTER TRANSFORMER
An ideal transformer for use in test equipment. Also...for modernizing old equipment. Can be also used...in laboratories, etc. It is no longer necessary to purchase new test equipment when the transformer...size. It is 24%...any tube to single grid. Amperage: 2.5...N. at 7.5 A.

M.A.-CT and 5 volts at 4 A. 2%...NET EACH 5.75c

E11674. YOUR PRICE 1.95

KNIGHT HIGH-QUALITY POWER TRANSFORMERS
Splendid values in carefully designed and well-constructed compact power transformers. Only fine-quality materials are used...all requirements. Terminal arrangement for sub-panel wiring. Unit is not loud. A very...pure in circuit. All set requirements. Terminals are provided for sub-panel wiring. Unit is not noisy...deliver...two tubes to give a ton of new life to value low-cost, high-grade units for replacement purposes. Use them regularly in high-quality setups.

E11675. YOUR PRICE 1.25

FOR 2.5 VOLT TUBES

4 TUBE SETS
Primary: 115 V. at 50/60 cycles. Sec.: 65V. at 45 M. A. Makes: 2.5 V.-C.T. 5 V. at 2 A. E6055. NET 69c

5 TUBE SETS
Primary: 115 V. at 50/60 cycles. Sec.: 65V. at 45 M. A. Makes: 2.5 V.-C.T. 5 V. at 2 A. Mfg. 2%2c. E6057. NET 86c

9 TUBE SETS
Primary: 115 V. at 50/60 cycles. Sec.: 65V. at 45 M. A. Makes: 2.5 V.-C.T. 5 V. at 2 A. E6059. NET 1.58

TO 10 TUBE SETS
Primary: 115 V. at 50/60 cycles. Sec.: 65V. at 45 M. A. Makes: 2.5 V.-C.T. 5 V. at 2 A. E6059. NET 1.75

KNIGHT AUDIO AND OUTPUT TRANSFORMERS

SPECIAL AUDIO
E11657. Push-pull input. Open frame type. Single, 115, 225, 650, 1150, Mfg. centers. 5%2c. NET 78c

OUTPUT TRANSFORMERS
To feed into 8 to 12 input voice coil. Open frame.
E11658. Single 15, 25, 25A, 50V. at 600. Mfg. centers. 5%2c. NET 65c

E11660. Push pull 45, 25, 25A, 50V. Mfg. centers. 5%2c. NET 49c

E11661. Push pull 115, 225, 650, 1150, Mfg. centers. 5%2c. NET 54c

MIC Transformers

OPEN TYPE
E11655. For single or double button microphone. 100% primary. Open frame type. 15%2c. 30 lbs. center 1%. NET 52c

E11656. Single button coupling transformer. Turns ratio: 1 to 64. Insulation ratio: 1 to 3000. Mfg. centers: 20 lbs. 1%. NET EACH 71c

SHIELDED TYPES
E6050. Single button coupling transformer. Turns ratio: 1 to 64; insulation ratio: 1 to 3000. For single button carbon microphone into tube. Fully insulated. Mfg. centers: 20 lbs. 1%.

E6051. Two button type. To couple any double button transformer into single grid. Turns ratio: 1 to 64; insulation ratio: 1 to 3000. Mfg. centers: 20 lbs. 1%.

NET EACH 1.25

MIC Transformers

SHIELDED TYPES
E6050. Single button coupling transformer. Turns ratio: 1 to 64; insulation ratio: 1 to 3000. For single button carbon microphone into tube. Fully insulated. Mfg. centers: 20 lbs. 1%

E6051. Two button type. To couple any double button transformer into single grid. Turns ratio: 1 to 64; insulation ratio: 1 to 3000. Mfg. centers: 20 lbs. 1%

NET EACH 1.25

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
STANCOR
POWER TRANSFORMERS

EXACT DUPLICATE

EXACT FIT GUARANTEED

The units listed below are precision-built transformers which conform exactly in every respect to the original manufacturers' specifications and physical characteristics. Current and voltage ratings are conservative and assure proper operating conditions. No reading is needed for them to function as they were intended. Just pull out the defective unit, put in the new unit and resolder connections.

FREE STANCOR REPLACEMENT GUIDE

New fourth edition of STANCOR Replacement Guide. A comprehensive alphabetical listing showing under each type all obsolete, recent, equivalent, and output transformers necessary for real servicing jobs. Also shows tube equivalents of all sets listed. Select the transformer you want and then order from STANCOR Guide sent FREE on request.

POWER TRANSFORMERS REBUILT LIKE NEW

SERVICE YOU CAN TRUST

Rebuilding is exactly done, quickly and economically, to exact original specifications. We use the original core and laminations. Transforming is done in factory accurate Auto Transformers, Non-Transformers, Diathermy and Amplitude Transformers, or other types as listed at left is only representative. If you cannot determine price, write for quotations stating frame and number of turns, with exact voltage, and other available data. Increase your profits with next, efficient repair jobs.

SHIPPING INSTRUCTIONS

For speedy and efficient service, fill out the following suggestions:

1. Send old transformers prepaid. We return postpaid.
2. Enclose full price or 20% deposit with order.
3. Be sure to include tube numbers, name of set, 25 or 60 cycle, etc.
4. We will return rebuilt transformers postpaid anywhere in the United States. Take advantage of this additional big savings for added profits.

66 RADIO HEADQUARTERS FOR DEALERS AND SERVICEMEN
## Thordarson Universal Power Transformers

### Universal Duplicate Transformers

18 Units for 500 Sets

<table>
<thead>
<tr>
<th>Type</th>
<th>T-13R01</th>
<th>T-13R02</th>
<th>T-13R03</th>
<th>T-13R04</th>
<th>T-13R05</th>
<th>T-13R06</th>
<th>T-13R07</th>
<th>T-13R08</th>
<th>T-13R09</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transf. H.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>W.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<tr>
<td>D.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### Replacement Encyclopedia

A brand new 30-page book that tells you how to Thordarson transformer to use for replacement on any set. Enables you to service 99% of the sets listed in this guide with the minimum stock requirement, and will save time and expense more sets perfectly than will any other assortment.

**E 11004.** FREE with your order for any Thordarson transformer. Be sure to get this helpful guide at once. Get your Guide today.

### Dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>T-13R01</th>
<th>T-13R02</th>
<th>T-13R03</th>
<th>T-13R04</th>
<th>T-13R05</th>
<th>T-13R06</th>
<th>T-13R07</th>
<th>T-13R08</th>
<th>T-13R09</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transf. H.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>W.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>D.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### General-Purpose Power Transformers

A carefully selected listing of general-purpose power transformers. Over 1,000 of every type are listed in this book. Add 50% for 220 volts. (Indicates weight in lbs.) Typical Thordarson universal units are listed next one of these units to assure perfect performance coupled with long life.

### Universal 6 Volt Vibrator Transformers

More and more servicemen are adding to their incomes by reducing direct or burned-out vibrator transformers to their needs of "bargain" vibrators sold in recent years. Thousands of 3,000,000 sets sold in 1986, 37, and 38 will soon require replacement. Thordarson universal vibrators, Thordarson replacement vibrators are provided with mounting feet or may be used with original mounting brackets. You can add to your service profits by ordering each one of these transformers. Be prepared to service motors very soon. All of all transformers is approximately 3/4 lbs. each, except TH1200 which is 9/16 lbs. on.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>D.C. Volts</th>
<th>M.A.</th>
<th>Size</th>
<th>List</th>
<th>Net</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12735</td>
<td>T11133</td>
<td>3C</td>
<td>30</td>
<td>2.5</td>
<td>2</td>
<td>$2.50</td>
<td>$2.25</td>
<td>1.69</td>
</tr>
<tr>
<td>E12736</td>
<td>T11134</td>
<td>3C</td>
<td>60</td>
<td>2.5</td>
<td>2</td>
<td>$2.50</td>
<td>$2.25</td>
<td>1.69</td>
</tr>
<tr>
<td>E12737</td>
<td>T11135</td>
<td>3C</td>
<td>90</td>
<td>2.5</td>
<td>2</td>
<td>$2.50</td>
<td>$2.25</td>
<td>1.69</td>
</tr>
<tr>
<td>E12738</td>
<td>T11136</td>
<td>3C</td>
<td>120</td>
<td>2.5</td>
<td>2</td>
<td>$2.50</td>
<td>$2.25</td>
<td>1.69</td>
</tr>
<tr>
<td>E12739</td>
<td>T11137</td>
<td>3C</td>
<td>180</td>
<td>2.5</td>
<td>2</td>
<td>$2.50</td>
<td>$2.25</td>
<td>1.69</td>
</tr>
</tbody>
</table>

### ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL. 67
The latest Thordarson high-quality transformers, designed for practically every input, output, mixer, or line application, are for almost any need will be found in the list below. All units have been carefully designed and are precision-built to rigid, exact specifications. We can supply all Thordarson transformers to your orders, or write for prices.

**LATEST COUPLING TRANSFORMERS**

![Fig. 2-F, Fig. 2-B, Fig. 2-G, Fig. 2-D, Fig. 4-D]

The latest Thordarson high-quality transformers, designed for practically every input, output, mixer, or line application, are for almost any need will be found in the list below. All units have been carefully designed and are precision-built to rigid, exact specifications. We can supply all Thordarson transformers to your orders, or write for prices.

### TUBE TO LINE [LOW LEVEL]

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Primary</th>
<th>Secondary</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11038</td>
<td>T11A90</td>
<td>2-F</td>
<td>20,000 CT</td>
<td>500/125</td>
<td>$5.47</td>
<td>$1.47</td>
</tr>
<tr>
<td>E11039</td>
<td>T11A91</td>
<td>2-F</td>
<td>20,000 CT</td>
<td>200/50</td>
<td>2.00</td>
<td>1.47</td>
</tr>
</tbody>
</table>

### MIXER OR LINE TO TUBE

- **Output Coupling Transformers**
- **Output Transformers**
- **Microphone Coupling Transformers**
- **Output Transformer**

### OUTPUT COUPLING TRANSFORMERS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Primary</th>
<th>Secondary</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11050</td>
<td>T51A40</td>
<td>2-F</td>
<td>20 or 50 Ohms</td>
<td>Single or PP Grids</td>
<td>$7.25</td>
<td>$1.62</td>
</tr>
<tr>
<td>E11051</td>
<td>T51A40</td>
<td>2-F</td>
<td>50, 150, 300 or 500 Ohms</td>
<td>Single Grid</td>
<td>2.75</td>
<td>2.20</td>
</tr>
<tr>
<td>E11052</td>
<td>T51A40</td>
<td>2-F</td>
<td>200, 400, 800 or 1000 Ohms</td>
<td>Single Grid</td>
<td>3.75</td>
<td>2.20</td>
</tr>
<tr>
<td>E11053</td>
<td>T51A40</td>
<td>2-F</td>
<td>2.2-1.5-1.5, 1.5-1.5, 2-1.5-1.5, 2-1.5-1.5</td>
<td>Single Grid</td>
<td>2.00</td>
<td>1.18</td>
</tr>
</tbody>
</table>

### OUTPUT TRANSFORMERS

- **Output Transformer**
- **Output Transformer**
- **Output Transformer**
- **Output Transformer**

### MICROPHONE COUPLING TRANSFORMERS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Primary</th>
<th>Secondary</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11055</td>
<td>T52A33</td>
<td>2-F</td>
<td>D, B, M, B 200-0-200</td>
<td>200 or 50 Ohms</td>
<td>$1.25</td>
<td>$1.91</td>
</tr>
<tr>
<td>E11056</td>
<td>T52A33</td>
<td>2-F</td>
<td>D, B, M, B 200-0-200</td>
<td>200 or 50 Ohms</td>
<td>$1.50</td>
<td>0.60</td>
</tr>
<tr>
<td>E11057</td>
<td>T52A33</td>
<td>2-F</td>
<td>Crystal Grid 100,000</td>
<td>Single Grid</td>
<td>2.10</td>
<td>3.32</td>
</tr>
</tbody>
</table>

### OUTPUT TRANSFORMERS

- **Output Transformer**
- **Output Transformer**
- **Output Transformer**
- **Output Transformer**

### TRU-FIDELITY TRANSFORMERS

Sensational new design now makes possible really True Fidelity! Completely new circuitry. Useable in almost every application. May be used as stand-ins in lastraders, or others. Details can be taken from top or bottom. Simply terminal board with fuse of convenience. Size: 14" x 7" x 7 1/2". All parts (except PP grids and input) are precision-balanced to center tap, for use on balanced transforma.
### THORDARSON AUDIO • OUTPUTS • CHOKES

#### THORDARSON TRANSFORMERS

Genuine Thordarson audio transformers, chokes and other radio components. The equipment listed below includes the most popular transformers in the Thordarson line. These units are supplied, in a variety of mountings, as illustrated, in both straight and suspended work. All units carry Thordarson guarantees. If the transformers you require is not listed, send us your order with deposit and we will supply correct unit promptly.

#### STRAIGHT AUDIO TRANSFORMERS

Descending audio units assure good reproduction at attractively low prices. Universally applicable for service replacement work.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11212</td>
<td>T67A25</td>
<td>2-C</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.32</td>
<td>$1.18</td>
</tr>
<tr>
<td>E11213</td>
<td>T67A36</td>
<td>2-F</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.47</td>
<td>$1.32</td>
</tr>
<tr>
<td>E11214</td>
<td>T57A45</td>
<td>2-F</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.50</td>
<td>$1.35</td>
</tr>
<tr>
<td>E11215</td>
<td>T57A47</td>
<td>2-F</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.75</td>
<td>$1.60</td>
</tr>
</tbody>
</table>

* Has metric shield between primary and secondary windings. † For either straight or push-pull use.

#### PUSH-PULL INPUTS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11222</td>
<td>T14A42</td>
<td>3-C</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$2.52</td>
<td>$2.30</td>
</tr>
<tr>
<td>E11223</td>
<td>T14A41</td>
<td>3-B</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$2.65</td>
<td>$2.42</td>
</tr>
<tr>
<td>E11224</td>
<td>T14A40</td>
<td>2-5</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$2.75</td>
<td>$2.52</td>
</tr>
<tr>
<td>E11225</td>
<td>T14A41</td>
<td>2-F</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$2.80</td>
<td>$2.56</td>
</tr>
</tbody>
</table>

#### PUSH-PULL INTERSTATE

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11226</td>
<td>T14A42</td>
<td>3-C</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.75</td>
<td>$1.60</td>
</tr>
</tbody>
</table>

*May be used in Class "AB" Amplifiers where grid current flows.

#### OUTPUT TRANSFORMERS FOR 1 TO 10 ORM VOICE COILS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12766</td>
<td>T57A50</td>
<td>2-E</td>
<td>Universal for single or P/F tubes</td>
<td>$0.62</td>
<td>$0.50</td>
</tr>
<tr>
<td>E12767</td>
<td>T57A50</td>
<td>3-E</td>
<td>Universal for single or P/F tubes</td>
<td>$0.62</td>
<td>$0.50</td>
</tr>
<tr>
<td>E12768</td>
<td>T57A52</td>
<td>4-E</td>
<td>Universal for single or P/F tubes</td>
<td>$0.62</td>
<td>$0.50</td>
</tr>
</tbody>
</table>

* For heavy-duty speaker drivers drawing up to 60 M.A.

#### OUTPUT TRANSFORMERS FOR 6 TO 12 ORM VOICE COILS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12767-1</td>
<td>T57A50</td>
<td>2-E</td>
<td>Universal for single or P/F tubes</td>
<td>$1.50</td>
<td>$1.30</td>
</tr>
</tbody>
</table>

#### FOR 1, 2, AND 4 ORM VOICE COILS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12760</td>
<td>T57A57</td>
<td>2-E</td>
<td>Universal for single or P/F tubes</td>
<td>$1.25</td>
<td>$1.00</td>
</tr>
<tr>
<td>E12761</td>
<td>T57A57</td>
<td>3-E</td>
<td>Universal for single or P/F tubes</td>
<td>$1.25</td>
<td>$1.00</td>
</tr>
<tr>
<td>E12762</td>
<td>T57A57</td>
<td>4-E</td>
<td>Universal for single or P/F tubes</td>
<td>$1.25</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

#### PLATE COUPLING CHOKES

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Fig.</th>
<th>MA</th>
<th>Hys.</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
</table>

* For use on plate inductance with 8 G. tubes. Max. Cap. 8 M.A.

#### FILTER CHOKES

Designed with typical Thordarson precision to give good service.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>MA</th>
<th>Hys.</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
</table>

#### THORDARSON NEW "CHT" SERIES OF TRANSFORMERS

An entirely new line of transformers filling the gap between laboratory grade units and servicemen's replacements. These handsome units meet all requirements for wide-range reproduction. Many advanced electrical and mechanical features take the C.H.T. line to a new high in efficiency and performance. The complete C.H.T. line is illustrated below. We can supply all other C.H.T. transformers immediately. Send us your order.

#### LOW IMPEDANCE SOURCE TO GRID

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12710</td>
<td>T15A46</td>
<td>2-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.60</td>
<td>$1.40</td>
</tr>
<tr>
<td>E12711</td>
<td>T15A47</td>
<td>3-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.80</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

#### LOW IMPEDANCE TO LINE OR MIXER

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12712</td>
<td>T15A48</td>
<td>4-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$2.00</td>
<td>$1.75</td>
</tr>
</tbody>
</table>

#### TUBE TO LINE (LOW LEVEL)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12715</td>
<td>T29A49</td>
<td>2-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$2.00</td>
<td>$1.75</td>
</tr>
</tbody>
</table>

#### INTERSTATE COUPLING UNITS (CLASS A)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12720</td>
<td>T29A50</td>
<td>2-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$2.50</td>
<td>$2.25</td>
</tr>
</tbody>
</table>

#### TUBE TO OUTPUT TRANSFORMERS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12724</td>
<td>T15S50</td>
<td>2-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.60</td>
<td>$1.35</td>
</tr>
</tbody>
</table>

#### DRIVER TRANSFORMERS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12722</td>
<td>T15D50</td>
<td>2-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.75</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

#### MULTI-TAP OUTPUT TRANSFORMERS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12729</td>
<td>T55S50</td>
<td>2-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.50</td>
<td>$1.25</td>
</tr>
</tbody>
</table>

#### ISOLATING TRANSFORMERS

For use on electrical therapeutic machines, hair-dryers, clippers, medical instruments, bath, power equipment, etc. Also used in Ammeter transformers for elimination of line noises or to keep B.F. out of the line. Taps 105-115-125 V., 50-60 cycles. See, 115 V. Static shield between primary and secondary at 10% deviation at 50 V.A.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12731</td>
<td>Type T1600</td>
<td>100 lbs.</td>
<td>$0.90</td>
<td>$0.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E12732</td>
<td>Type T1600</td>
<td>22 lbs.</td>
<td>$12.25</td>
<td>$10.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MULTI-LINE TRANSFORMER TO VOLUME CONTROL

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Fig.</th>
<th>Ratio</th>
<th>Size</th>
<th>List</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12739</td>
<td>T55S50</td>
<td>2-E</td>
<td>3:1</td>
<td>1 5/8 x 2 1/4 x 1/2</td>
<td>$1.75</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

#### ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
4 OR 5 TUBES-2.5 VOLTS
Type P-2986. Sec.: 750 V, at 90 M.A.-C.T., 5 V. at 2 A. C.T. 2.5 V. at 1 A. C.T. Mig. area. 3 1/2 x 3 1/2". Wt., 1 lb. .
E12915. List. $2.35. NET. $1.32

6 OR 6 TUBES-5 VOLTS
Type P-2982. Sec.: 170 V, at 50 M.A.-C.T., 5 V. at 2 A. C.T. 5 V. at 1 A. C.T. Mig. area. 3 1/2 x 3 1/2". Wt., 1 lb. 3 oz.
E12916. List. $3.00. NET. $1.76

2 OR 2 TUBES-5 VOLS.
Type P-2983. Sec.: 300 V, at 100 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/2 V. at 1 A. C.T. Mig. area. 2 7/8 x 2 7/8". Wt., 1 lb. 3 oz.
E12917. List. $3.25. NET. $1.91

8 OR 8 TUBES-5 VOLS.
Type P-2984. Sec.: 200 V, at 50 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/4 V. at 1 A. C.T. Mig. area. 3 1/8 x 3 1/8". Wt., 5 lbs.
E12918. List. $4.00. NET. $2.35

3 OR 3 TUBES-5 VOLS.
Type P-2988. Sec.: 300 V, at 100 M.A.-C.T., 5 V. at 2 A. C.T. 3 V. at 1 A. C.T. Mig. area. 2 3/4 x 2 3/4". Wt., 6 lbs.
E12920. List. $3.50. NET. $2.94

10 OR 10 TUBES-2.5 VOLS.
Type P-2987. Sec.: 250 V, at 50 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/4 V. at 1 A. C.T. Mig. area. 3 1/2 x 3 1/2". Wt., 3 lbs. 5 oz.
E12921. List. $5.00. NET. $2.94

HALF-SHELL REPLACEMENT POWER TRANSFORMERS

FOR 2.5 VOLT TRANSFORMERS
Type P-2971. Sec.: 650 V, at 40 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/4 V. at 1 A. C.T. Mig. area. 2 3/4 x 2 3/4". Wt., 3 lbs. 3 oz.
E12930. List. $2.10. NET. $1.47

Type P-2988. Sec.: 300 V, at 50 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/4 V. at 1 A. C.T. Mig. area. 2 3/4 x 2 3/4". Wt., 3 lbs. 5 oz.
E12921. List. $3.00. NET. $1.76

Type P-2969. Sec.: 750 V, at 50 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/4 V. at 1 A. C.T. Mig. area. 2 3/4 x 2 3/4". Wt., 3 lbs. 3 oz.
E12932. List. $3.00. NET. $2.06

Type P-2989. Sec.: 300 V, at 50 M.A.-C.T., 5 V. at 3 A. C.T. 2 1/2 V. at 1 A. C.T. Mig. area. 3 1/2 x 3 1/2". Wt., 3 lbs.
E12933. List. $3.50. NET. $2.06

Type P-2990. Sec.: 750 V, at 50 M.A.-C.T., 5 V. at 3 A. C.T. 2 1/2 V. at 1 A. C.T. Mig. area. 3 1/2 x 3 1/2". Wt., 3 lbs.
E12934. List. $4.00. NET. $2.35

FOR 5 VOLT TRANSFORMERS
Type P-2970. Sec.: 650 V, at 40 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/4 V. at 1 A. C.T. Mig. area. 2 3/4 x 2 3/4". Wt., 3 lbs. 3 oz.
E12936. List. $2.75. NET. $1.32

Type P-2971. Sec.: 650 V, at 40 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/4 V. at 1 A. C.T. Mig. area. 2 3/4 x 2 3/4". Wt., 3 lbs. 3 oz.
E12937. List. $2.50. NET. $1.47

Type P-2987. Sec.: 250 V, at 50 M.A.-C.T., 5 V. at 2 A. C.T. 2 1/4 V. at 1 A. C.T. Mig. area. 2 3/4 x 2 3/4". Wt., 3 lbs. 5 oz.
E12921. List. $3.50. NET. $2.15

Type P-2988. Sec.: 300 V, at 50 M.A.-C.T., 5 V. at 3 A. C.T. 2 1/2 V. at 1 A. C.T. Mig. area. 3 1/2 x 3 1/2". Wt., 3 lbs.
E12932. List. $3.00. NET. $2.06

Type P-2990. Sec.: 750 V, at 50 M.A.-C.T., 5 V. at 3 A. C.T. 2 1/2 V. at 1 A. C.T. Mig. area. 3 1/2 x 3 1/2". Wt., 3 lbs.
E12934. List. $4.00. NET. $2.35

STANCOR UNIVERSAL VIBRATOR TRANSFORMERS

The following five transformers were designed particularly for use in servicing these receivers for which complete controls are not available. They are ruggedly built to give long, reliable service, and are reasonably priced. Since they are not identical to the original equipment, it is recommended that the brackets from the old transformer be used with the new. Average shipping weight each unit, 2 lbs.

E12173. Output 225 volts at 50 M.A. YOUR PRICE. $1.47

E12174. Output 250 volts at 50 M.A. YOUR PRICE. $1.47

E12175. Output 260 volts at 50 M.A. YOUR PRICE. $2.06

E12176. Output 285 volts at 50 M.A. YOUR PRICE. $2.35

E12177. Output 330 volts at 100 M.A. YOUR PRICE. $2.79
ACME STEP-DOWN TRANSFORMER
Will reduce line voltage of 200-240 volts to 110. Designed with two 12-volt outputs for operation of radio sets, phonographs, and appliances, etc. Will handle 40 lbs. in ready-made cast iron case. Special transformer designed to meet all demands. Price, $12.60. Net, $11.95.

ACME VARIABLE VOLTAGE ADJUSTER
Maintains proper operation of on-off con-suming Shpg. Electric Circuits, and many other devices under varying line conditions. Adjustment is made with inductor. Primary tapped for the desired voltage. Secondary connected in parallel with the line voltage of the switch. Designed with low flux density so that they do not attain the high temperature commonly created in magnet transformers. Each unit is electrically shielded and furnished with wire leads. Price, $1.50. Net, $1.15.

FOR 93 TUBE
Type E-553, has a primary of 115 V. at 60 cycles, and a secondary of 120 V. at 50 cycles. Ma. Size: 6.2 lbs. List, $1.75. 95 lbs. List, $1.60. NET, S.23.

FOR TUBES
Type E-510, has a primary of 115 V. at 60 cycles, and a secondary of 120 V. at 50 cycles. Size: 6.2 lbs. List, $1.75. 95 lbs. List, $1.60. NET, S.23.

STANDARD OSCILLOSCOPE TRANSFORMERS
These transformers are ideal for use as microphone pre-amplifiers, where independent high voltage supplies are needed. Both high and low voltage are obtained from one unit with a separate transformer for the high voltage. These transformers are designed for use with oscilloscopes. Serves to prevent the high voltage from being applied directly from plates to circuit. Each unit is electrostatically shielded and furnished with wire leads. Price, $1.50. Net, $1.15.

FAMOUS JEFFERSON TRANSFORMERS
PLASTIC-SEALED TRANSFORMERS
Heteromatically sealed with a plastic coating which permanently protects the high voltage windings. Designed with two sets of brackets for horizontal or vertical mounting. Low leakage, magnetically isolated for 60% D. Ratio, 1 to 1. Popular on set-building and replacement purposes. Sizes, 1/4, 3/8, 1/2. Price with leads. Shpg. wt., 1/4 lbs. Type E-564. $1.60. E6025. 1/2 lbs. $1.75. E6026. 3/4 lbs. 73c.

“STAR” SEALED TRANSFORMERS
Outstanding values in high quality transformers for use in any set or amplifier. A.C. or D.C. Martine-Wound coils for uniformity and uniformity. Laminated core of high silicon steel. Assembled in black anodized steel cases with nickelated binding posts. Windings completely shielded and clearly marked. Operate directly from plates of 150-250 Watts. Price with leads. Shpg. wt., 1/4 lbs. E6030. 1/2 lbs. 73c. E6031. 3/4 lbs. 1.32. E6032. 1 lbs. $1.03. NET EACH.

LINE TO VOICE COIL OUTPUT TRANSFORMER
A high-quality, heavy-duty transformer capable of driving loudspeaker coils continuously, ideal for P.A. or P.L. installations. Several of these transformers may be connected in various series or parallel arrangements to obtain a number of speaker outputs. Primary impedance is 1800 ohms, with taps at 400, 200, 100 and 50 ohms. Secondary is 2 or 6 or 15 Ohms. Sizes: 2x1, 3x1, 3x2. Price with leads. Shpg. wt., 1/4 lbs. E-564B. 3/4 lbs. $1.70.

STANDARD OUTPUT TRANSFORMERS
These scientifically designed output transformers are substantially built, using only the highest quality materials. Laminations are accurately made of high silicon steel. Unshielded type. With tin-plates and brass to cover requirements of small or large equipment.

150 WATTS
Suitable for use on transformers of 90, 125, 150, 180, 210, 230, 250. Ideal for use with microphone, small sound amplifiers, wall condenser, small far, hair dryers, electric razors, electric clocks, recording iron, lamp, etc. Usually serves as a step-down transformer when line voltage is less than 110 volts A.C. or D.C. or as a step-up transformer when line voltage is higher than 110 volts. A.C. or D.C. are used as isolation transformers for static-shielding purposes. Equipped with plate to cover. Built in A.C. receptacle. In shielded against microphone. Sizes: 2x1, 3x1, 3x2 watts. Price with leads. Shpg. wt., 1/4 lbs. E-12960. 3/4 lbs. $8.23.

1000 WATTS
Has same general specifications as transformer above. Rated at 900 watts. Will handle larger sets, including ones, and a secondary output up to 1000 watts. Size approximately 15x7x6. Price, $1.96. NET, $1.50.

1100 WATTS
Has same general specifications as transformer above. Rated at 900 watts. Will handle larger sets, including ones, and a secondary output up to 1000 watts. Size approximately 15x7x6. Price, $1.96. NET, $1.50.

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
MALLORY EXACT DUPLICATE VIBRATORS

The listing below shows the complete line of Mallowy 6 volt vibrators. This list includes vibrators to replace different types in both automobile and regular household type radio sets. Ordinarily your manufacturer's ordering card will show if original vibrator is A-1, B-1 or C-1. If your card is not available, include vibrator type number when ordering and we will fill your order promptly from our huge stock. Our complete line of vibrators is ready at all times for all 6 volt sets and 4.5 and 6 volt sets. We have a complete stock of vibrators ready for installation today.

EXTRA DISCOUNTS: Reduced prices, if you purchase 6 or more vibrators on one order.

<table>
<thead>
<tr>
<th>Name and Model</th>
<th>Mfrs. No.</th>
<th>Name and Model</th>
<th>Mfrs. No.</th>
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<tr>
<td>FIRESTONE 54.94, R132.H3 TRAVELER</td>
<td>209V</td>
<td>SIMPLEX 292</td>
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<td>FORD 1040</td>
<td>500P</td>
<td>SPARTON 33, 33A, 33B. 339</td>
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<tr>
<td>PHILCO 1911, 1912, 1122, 1123. 1124</td>
<td>210P</td>
<td>STEWART-WARNER 112, 1122, 1122, 1133</td>
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<td>FREED 18, 23</td>
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<td>STROMBERG-CARLSON 21, 21A</td>
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<td>VINTAGE 2129</td>
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<tr>
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<td>VINTAGE 2129</td>
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<td>SEARS-ROEBUCK 2129</td>
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<tr>
<td>WELL-GARDNER 2129</td>
<td>2129</td>
<td>VINTAGE 2129</td>
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*Ask for our special end adapter. E4690.

KNIGHT SPECIAL VALUE

EXACT DUPLICATE VIBRATORS

These vibrators are exact duplicates of the vibrators they replace. Because of their manufacture, only our manufacturers would be able to produce them in large quantities at a saving in production cost. These savings are in turn passed on to you. Early RCA, Zenith, files, etc. will fill your order as a matter of policy. No charge on any CAT. 6.00, and up. We will fill your order promptly if you wish to ship your vibrators for installation.

FOR PHILCO SETS

For all Philco auto sets, sets, commercial models 1937-1941. $1.16

$1.04

$1.04

$1.04

$1.04

$1.04
More Features—More Watts for Your Money
IN EVERY Knight SOUND SYSTEM!

AN IRON-CLAD Guarantee
We ask you to compare the tone quality, the power output, the overall performance of any Knight Sound System with that of any other system, now on the market. Order the model you want, paying for Cash or on Time Payments, and test it out for yourself, under your own operating conditions.

Compare the features, compare the quality, compare the actual performance. If your Knight Sound System isn't everything we claim it to be—if it doesn't prove to be the biggest P.A. dollar's worth on the market—then have it returned and your money refunded. Remember, too, that every purchase of the purchase price, less only transportation charges, is covered by the Knight Radio Manufacturers' Association Guarantee.

FREE CONSULTING SERVICE
We invite you to submit your Public Address program to our Sound Engineers for authoritative advice and proper recommendations without any obligation on your part. Write to us today.

BUY ANY KNIGHT SOUND SYSTEM ON CONVENIENT MONTHLY PAYMENTS
Don't lose big profits in P.A. for lack of Cash! You can get any of the Knight P.A. Equipment you need—NOW—without making it earn for you while it rests on our attractive monthly Payment Terms. Your order comes to you complete.

Monthly Payment Terms, if your order comes to us, are as follows:

- You'll find our list of Terms attached below. It is your obligation to make your Public Address System in the field at the lowest price and, in addition, to avoid ever purchasing anything except the equipment you need.
- Select the P.A. Equipment you want and write the Knight Public Address Equipment you want ordered. Write to us for full details of our convenient Monthly Payment Plan.

Take eight months to pay. Pay just 10c down, 10c a month, and the balance in convenient monthly payments.

Simplified Table of Terms

<table>
<thead>
<tr>
<th>Cash Price</th>
<th>Monthly Payment</th>
<th>Monthly Payment 8 Months</th>
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<tbody>
<tr>
<td>$40.00</td>
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<td>$200.00</td>
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Add 10% to the uncarried charges on the table.

Then divide by 12 to obtain the monthly payments required.

Select the equipment you want and send in your order with a 10% down payment. Your equipment will be promptly handled and delivered to you. Your sniture will be forwarded to you immediately after-
Knight 8 Watt Standard Sound Systems

MORE FOR YOUR MONEY IN POWER AND TONE

• Mike and Phone Input
• Built-in Transformer
• Beam Power Output
• Mic. and Phone Input
• Built-in Power Output
• Polared Connections
• 4-8,500 Ohm Output
• Built-in Output Transformer
• Completely Fused

A high-quality low-cost sound system intended for smaller installations where moderate coverage is desired. Complete, easy to set up and easy to operate. Compact and complete; no external batteries or mixers are required, microphone transformer and current control. Built in full PC Audio and completely independent. The complete Knight 8 Watt System has essentially uniform frequency response from 80 to 10,000 cycles. A variable Tone Control is provided to accommodate bass or treble as desired and to aid in compensating for varying acoustical conditions. Each speaker is carefully tuned before shipment to assure perfect operation when it reaches you.

• Latest Circuit. Latest technological developments are used! 5N7, 5L6G, 12AY7, 6V6G. Gain is 95 db. Hum and distortion are negligible. Frequency current for the 2500 ohm dynamic speaker is supplied by the amplifier. Output transformer with 4, 8 and 500 ohms tap is mounted in the amplifier. The amplifier circuit is fused. A detailed wiring diagram is posted on the base plate. No detail has been overlooked in our desire to give you the best for your P.A. dollar.

• Built-in Mixer. The Knight 8 Watt Sound System is supplied with an entirely new high-grade double-button microphone of latest streamlined design. A twin tip jack is provided for plugging in a high-impedance crystal or magnetic phone pickup. Separate volume controls for both microphone and phonograph permit effective blending and fading action. Microphone current is automatically supplied by the amplifier. No external batteries or transformers are required. Microphone and speaker receptacles are polarized for rapid, convenient connection. A tip jack is provided for extra speaker (high-impedance P.M. or magnetic) or headphones. These exclusive Knight "extra-value" features are incorporated to give exceptionally versatile operation in the field.

• Complete System. The Knight 8 Watt Sound System comes complete with the following: 1 Knight 8 Watt Amplifier; 1 Knight Streamlined double-button microphone on desk stand with 25 foot cable and polarized plug; 1 full-8 inch Jensen Electro-dynamic speaker with 25 foot cable and polarized plug, 1-7500 cycle phonograph pickup and plug, 1 fuse and complete operating instructions. For 110 volts, 30-60 cycles A.C. Ship wt.: 5 lbs.

$21.45
E12209. Complete 8 Watt Carbon System

Your Price: $24.95

8 Watt Portable Sound System

The Knight 8 Watt Standard Sound System is offered also in modern, low-cost portable form. Ideal for use in store demonstrations, small halls, churches, club rooms, for sales talks, side shows, etc. Especially compact and convenient. Give excellent coverage of small and medium-sized audiences at low cost. The entire system is completely contained in a single leatherette-covered carrying case. 19¾" x 15½" x 8½". Weights only 32 lbs. Uses new type streamlined double-button carbon microphone for excellent response; employs latest octal tubes throughout for maximum stability and output. Microphone transformer and current supply are built in. Has input for phonograph as well as microphone. Includes individual volume controls for microphone and phonograph to permit "mixing" and blending of voice and music. Tone Control allows for emphasis of bass or treble as desired. The Beam Power 4L6G tube assures full 8 watt output while using the smallest tube size available. The Jensen 8-inch dynamic speaker is the finest type available. The Knight 8 Watt Portable Sound System comes complete in attractive and sturdy single carrying case. Includes: 1 Knight 8 Watt Amplifier; 1 streamlined double-button carbon microphone and desk stand with 25 foot cable and plug; 1 Jensen 8-inch Electro-dynamic Speaker with 25 foot cable and polarized plug—all in a single unit carrying case. For operation on 110 volts, 60 cycles. Ship wt: 45 lbs.

$26.40
E12309. Complete 8 Watt Portable System

Your Price: $28.95

Phone Input. The Knight 8 Watt Amplifier has phone input for any high-impedance type phone pickup. May be hooked up instantly by means of tip-jacks for splendid wide-fidelity phonograph record reproduction.

Streamlined Carbon Mike. New two-button type of latest, efficient design—beautiful in appearance, internally compact. Unit is designed to give essentially flat response from 45 to 7000 C.P.S. for excellent performance.

Built-in Mixer. Individual volume controls are provided on the Knight 8 Watt amplifier for simultaneous making microphone and phonograph Tone Control is also included. All controls are easily accessible on the front face panel.

List: $26.40
Your Price: $28.95
CHOICE OF MICROPHONES

In addition to the Knight Velocity Microphone, the Knight 8 Watt Sound System is available with choice of microphones, as illustrated above:

- **Universal Input**: Provision is made to handle any high-impedance type microphone and crystal or magnetic pickup. No circuit changes are required when changing from one type of microphone to another.
- **Built-in Electronic Mixer**: Separate microphone and line inputs; automatic mixing action, as desired. Tone Control is also included to accentuate bass or treble, as desired, and to aid in compensation for varying acoustic conditions.
- **New High-Gain Circuit**: Advanced engineering design is reflected in the circuit of the Knight 8 Watt Amplifier. Uses the following octal tubes to the fullest advantage: 1-67TG, 1-6F5G, 1-6SLG, 1-5Y4G. This modern tube line-up assures absolute rated output and minimum distortion. The Amplifier develops a gain of 115 db, for microphone and 80 db. for phonograph. Has essentially flat frequency response from 70 to 10,000 C.P.S. The incorporation of Inverse Feedback results in negligible hum and distortion. Field current for the 3,500 ohm dynamic speaker is supplied by the Amplifier. Built-in output transformer is tapped at 1, 4, 8, and 500 ohms. An extra speaker output permits the use of an additional speaker (4, 8, dynamic or magnetic) or headphones, if desired.
- **Simple to Operate**: The Knight 8 Watt Sound System has been designed for the utmost simplicity in both installation and operation. Polarized connections and complete operating instructions permit instant installation and operation by anyone. It's impossible to make a wrong connection. The Amplifier is effectively fused for complete protection. A complete wiring diagram is mounted on the base plate.
- **Complete Velocity System**: The Knight 8 Watt High-Gain Velocity Sound System comes complete as follows: 1 - Knight 8 Watt High-Gain Amplifier, 1 - Knight Velocity Microphone with 25 foot cable and connecting plugs, 1 - Highest grade Baseusq type Stand, 1 - Jensen 8-inch Electro-dynamic speaker, 25 foot cable and polarized pin attached, complete kit of R.C.A. tubes, spare fuse and complete instructions. For operation from 110 volts, 50-60 cycles A.C. Shpg. wt... 60 lbs.

**HIGH-GAIN PORTABLE**

The Knight 8 Watt High-Gain Sound System with Velocity Microphone is available also in a modern, low-cost portable system. Designed for coverage of small audiences, ideal for musical organizations, lecturers, demonstrations, side-shows, etc. All components are housed in a single compact carrying case, 19 1/4" x 13 1/2" x 8". Weight complete is only 40 lbs. Includes all features described above: Inverse Feedback, Universal Phone Input, High-Gain Mic Input, Beam Power Tube, Electronic Mixer, Tone Control; Fuse, Extra Speaker Jack, 4, 8, 500 ohms tapped output; latest octal tubes. Delivers full 8 watts output. The complete Knight 8 Watt High-Gain Portable System includes: 1 - Knight 8 Watt High-Gain amplifier, 1 - Knight Velocity Microphone with banana-Jack and 25 foot cable and plug; 1 - 8-inch Jensen Dynamic Speaker with 25 foot cable and polarized plug; complete set of R.C.A. tubes, spare fuse, and operating instructions. Entirely self-contained, completely portable. For operation from 110 volts, 50-60 cycles A.C. This is One of the finest low-cost Portable P.A. Systems available.

**HIGH-GAIN MICROPHONE**

**CHOICE OF MICROPHONES**

- Inverse Feedback
- Hi-Gain Mikes and Universal Phono Input
- Beam Power Tube
- Electronic Mixer
- Tone Control
- 4, 8, 500 Ohms O.P.
- Active Equalizer
- New Octal Tubes
- Universal Input
- Built-in Electronic Mixer
- Acoustic Compensator
- Shock Absorber: Locking-type Polarized Cable Connector.
- For automatic matching of corresponding audio and tone characteristics
- Suitable for use with any line electronic microphone.
- Adaptable for use with any line electronic microphone.
- Designed for use with all types of line electronic microphones.
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**FEATURES:**

- Four Input Channels
- Universal Mike Input
- Dual Phone Input
- Built-in V.I.Meter
- 12" Jensen Speakers
- Dual Tone Control
- Inverse Feedback
- Beam-Power Output
- Speaker Selector Switch
- Built-in Electronic Mixer
- Universal Output
- Headphone Monitor Jack
- Shorting Type Input Jacks
- Power Stage Tap
- Completely Fused

**TECHNICAL SPECIFICATIONS:**

The Knight 15 Watt High-Gain System delivers 15 watts output at 5% distortion, 25 watts peak. Gain is 120 db., essentially flat from 20 to 10,000 C.L.S. Noise level is negligible. Tubes used: 2-6J7G, 2-6N7G, 1-6L5G, 2-6V6G. Two high gain microphones always permit use of any high-impedance Crystal, Velostor, Velocity, Soundwell or Dynamic microphone. Individual microphone controls are provided. This exclusive new Dual Phone Input with fader control to accommodate one or two crystal or magnetic pickups. Includes Dual Tone Controls for bass and treble accentuation. Individual microphone and phone controls permit blending and fading as desired. Muting action is electronically controlled. Inverse Feedback; has Speaker Selector Switch, providing choice of 2, 4, 8, 16 or 300 ohms at standard two-contact speaker receptacles. Mute locks are of shorting type, blocking out all possibility of noise from channels out in use. Contains Power Stage Tap for adapting it to use of Knight Power Stage Switch (See page 49). Supplied with genuine Jensen Permanent Magnet Dynamic Speakers. Complete with R.C.A. tubes. High-fidelity tone is achieved on both voice and music by the Knight 15 Watt Sound System (See page 83 for portable phonograph). Operated from new dual control on front panel—each microphone controlled from either side of a zero position, allowing fading action for background or sound effects. Another fine feature.

New Speaker Selector Switch permits instant selection of voice coil or speaker line output microphones to match any number of speakers of the P.M. type or any other variety of microphone. A speaker selector is furnished for easy installation and operation. Each system is carefully tested before shipment.

15 WATT STANDARD HIGH-GAIN SOUND SYSTEMS

THE ALL-PURPOSE P. A. LEADER

An exceptional value in a low-cost complete Knight 15 Watt High-Gain Sound System using the new Knight Velocity Microphone with exclusive Acoustic Compensator feature. Delivers maximum output of 25 watts. Ideal for use by orchestras, church- ers, morticians, schools, clubs, lodges, night clubs, clubs, centers, etc., and wherever immediate fidelity, power, with exceptional fidelity is desired. The finest medium-power Sound System available at a surprisingly low price.

* Unlimited Feedback. A new feature that is seldom found in moderately priced Sound Systems. Provides greater output with minimum distortion, and greatly improves frequency response. Unlimited Feedback permits operation at higher levels not possible in ordinary systems.

* Four Input Channels. The Knight 15 Watt High-Gain Sound System permits the use of any two high-impedance microphones along with two crystal microphones. Full electronic mixing is provided by means of individual microphones and graphic equalizer controls, permitting blending and fading as desired. Dual Tone Controls are also incorporated, giving individual bass and treble control.

* Full Frequency Response. The complete output level of amplifier directly in decibels. May be had with System at small additional cost. A true absolute value for recording, for maximum and constant volume level where speakers are remotely located. An exclusive circuit Knight P. A. feature for 1939.

* 12" Jensen Speakers. Two genuine 12-inch Jensen Permanent Magnet Type Dynamic Speakers are provided with the 15 Watt System. They adequately handle the output of the amp, giving wide-range faithful reproduction. These speakers are far superior to ordinary dynamics; they require no field excitation, ruggedly built with typical Jensen quality. Each speaker is equipped with 30 foot rubber-covered cable and standard 2-prong appliance plug.

* Powerful Circuit. The High-Gain Amplifier incorporated in the Knight 15 Watt Sound System develops a full 15 watts output with minimum distortion, free from distortion. Uses the latest type tubes, as follows: 26-G122, 24401G, 1641G, 2646G, 1, 5146G. Brilliant equalizing makes this system a marvel of efficiency. The circuit is so designed as to result in unusually high gain and remarkable, wide-range fidelity.

* Splendid Response. Frequency response is essentially flat from 150 to 10,000 cycles. S.P.S. Gain is 120 db. on mike and 80 db. for phone. Hum level is negligible. These splendid characteristics assure high output coupled with excellent fidelity, making the Knight 15 Watt Sound System ideal both for sound reinforcement as well as for powerful public address coverage.

* Professional Appearance. 1939 in design and function. The Knight 15 Watt Sound System is complete in itself. All controls are assembled conveniently on the left side black front panel, with clear, distinct calibrations in brushed aluminum. Control knobs and connector groups are located for easy handling. Stand and base plates hold all microphone, speaker and phonograph components in receptacles. There is provided a speaker selector switch, a monitor headphone jack and a power on-off switch. Screen acts at back gives access to tubes.

* Extra Features. You get full value in the Knight 15 Watt Sound System. Extra features include the following: Speaker Selector switch, permitting unbreakable mismatching, instantly to any number of speakers; Power Stage Driver Tap allowing for additional units of extra power stage when desired (see page 60); Monitor Headphone Jack for checking. All components are sensationally low priced.

* Complete 15 Watt Velocity Mike System. The complete Knight 15 Watt Velocity Microphone System includes: 1-Knight 15 Watt High-Gain Amplifier. 1-Knight Velocity Microphone with Acoustic Compensator, 25 foot of special shielded microphone cable with polarized amplifier plug and lock. 1-Stabilizer microphone floor stand with gooseneck clamp (adjustable from 46 to 72 inches); 1, 12" Jensen P. M. Dynamic Speakers with 30 foot rubber-covered cables and 2-prong plugs; complete 0, C. A. take-up space plug, and full instructions for installation and operation. For operation on 110 volts. 60 cycle A.C. (May also be had for 220 volt and 110 volt. 25 cycle at small additional cost.) Shpg. wt. 19 lbs.

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15 WATT AMPLIFIER ONLY

The Knight 15 Watt High-Gain Amplifier is available separately as an individual nucleus for sound reinforcement or for use with any two high-impedance microphones. Features as described. Has universal input for any two high-impedance microphones and two phono-phones. Develops a remarkable gain of 120 db. permitting the direct use of high-impedance microphones and phonographs, permitting their use in a preamplifier. The frequency response is essentially flat from 40 to 10,000 cycles. Has individual volume control for both microphones and phonographs, permitting their use in a preamplifier. Provision is made for the use of two microphones, either of which may be used at will. Dual Tone Control is built-in for bass or treble emphasis. Has polarized receptacles for mikes, 2-contact receptacles for speakers and twin jacks for phone input.

15 WATT HIGH-GAIN PORTABLE SYSTEM

A splendid new completely portable full 15 watt Public Address System of professional and all-around quality. Shure "Rocket" Crystal Microphone. Designed especially for use by orchestras and lecturers, for demonstration purposes, funeral parlors, churches, political meetings, etc. Usually portable, compact and convenient. Entirely self-contained in a single carrying case, 24 1/2" x 10 1/2" x 12". Weight 60 lbs. Complete. The Knight 15 Watt Portable System will also handle one or two crystal or magnetic phone pickups. Individual volume controls are provided. Dual Tone Control is built-in. Additional features include: Speaker Selector Switch permitting, if desired; Headphone jack; extra Power Stage Tap; Fuse, for additional high-impedance mike with separate volume control, etc.

THE LAST WORD IN P. A. CONVENIENCE

The complete system includes: 1-Knight 15 Watt High-Gain Amplifier; 1-Shure "Rocket" Crystal Microphone with 25 foot cable and polarized plug; 1-Balanced Stand; 1-Jensen 12" P. M. Dynamic Speaker and 30 foot rubber-covered cable; 1-Jensen 12' Velotron Microphone; 1-Velotron Microphone; 1-Electro-Voice Dynamic Microphone. 1-Knight 12" P. M. Permanent Magnet Type Dynamic Speaker. Self-contained in a single carrying case. For operation on 110 volts, 60 cycle A.C. Shpg. wt. 74 lbs. A. I. A. approved.

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CHOICE OF MICROPHONES

In addition to the Knight Velocity Microphone, the 15 Watt System is available with a choice of microphones, as illustrated above (tens 1. V. meter).

E12211, Complete System as described above, but with Shure "Rocket" Crystal Microphone.
E12213, System with Electro-Voice Dynamic Microphone. (Fig. A.)
E12217, System with Brush Sound Cell Microphone. (Fig. D.)
E12218, System with Shure "Uniplane" Crystal Microphone. (Fig. D.)

Less Each: $114.50.

CASH PRICE, EACH OF ABOVE SYSTEMS: $66.50

Time Payments: $6.65 down, $8.23 monthly, for 6 months.

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15 WATT PORTABLE SYSTEM WITH 2 SPEAKERS

Same as above, but assembled in two cases for additional use only. They are a dual split-case with two Jensen P. M. speakers and 30 foot cable and plug. Shpg. wt. 19 lbs.

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PORTABLE SYSTEM WITH 2 SPEAKERS

Same as above, but assembled in two cases for additional use only. The only the other a dual split-case with two Jensen P. M. speakers, with cables and plugs. Shpg. wt. 75 lbs.

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E12229, Extra Speaker Case with 12" Jensen P. M. Speaker and 30 foot cable and plug. Shpg. wt. 7 lbs.

E12237, Complete System with 12" Velotron Microphone. (Less 1. V. meter.)

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E12221, Complete System with 12" Velocity Microphone.

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E12220. R.C.A. Tube Kit. NET: $7.58
E12225. Volume Level Meter. $4.50

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E12220, R.C.A. Tube Kit.: NET: $7.58
E12225. Volume Level Meter. $4.50

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A brilliant medium-power system — ALLIED'S great quality P.A. challenger for 1959 equipped with many features that work — built for top-notch versatile performance — priced so amazingly low it bows all over competition. Check the exclusive advantages of this American Dynamic system and you'll see that ALLIED gives you the most for your money.

- **Automatic Volume Stabilizer.** 1959's successor to A.V.C. — exclusive with ALLIED. Limits excessive peaks to eliminate feedback and blaring. Actually provides twice the usable power output of ordinary 18 watt systems.

- **5 Channel Mixer.** Has input for any four high-impedance microphones with individual gain controls for each channel. Also has provision for any two high-impedance crystal or magnetic pick-ups with fader control. Incorporates Master Gain Control which provides instant control of overall level.

- **Automatic Volume Expansion.** Provides realistic reproduction by automatically building up the louder clashing passages to preserve the proper relationship between the loud and soft passages of the original recording.

- **Inverse Feedback.** In new improved form; permits greater power output with less distortion, hum and noise, achieving a higher fidelity relationship.

- **Dual Tone Compensation.** Separate controls are provided for both bass and treble ranges permitting low or high notes to be built up either separately or together without disturbing tones in the middle range.

- **Volume Level Meter.** Indicates output of amplifiers directly in decibels. May be had with system at small additional cost. Valuable for recording or for maintaining constant volume level when speakers are remotely located.

- **1939 Features and Design.** Brilliantly engineered. Uses following retail tubes: 4-617G, 4-6N7G, 6-67G, 2-6K7G, 1-6H6G, 2-6V6G, 1-6SN7. Delivers full 18 watts at 5% distortion, 25 watts peak output. Gain is 225 db. on microphone, and 80 db. on phone. Hum level and distortion are negligible. Frequency is essentially flat from 40 to 16,000 C.P.S. Other features include: Speaker Selector Switch, offering impedances of 2, 4, 8, 16, and 500 ohms; Power Stage Driver Tap; Monitor Headphone Jack; mute; Shorting type input jacks; Wiring Diagram mounted on base plate.

**Complete 18 Watt Velocity System.** Includes: 1 Knight 18 Watt High-Gain De Luxe Amplifier; 1 Knight Velocity Microphone with 25 foot cable and plug; 1 Knight De luxe adjustable Floor Stand; 2 Jensen 12-inch P. M. Dynamics with 30 foot cables and polarized plug; Complete kit of R.C.A. tubes; spare fuse and operating instructions. For 110 volts, 50-cycle. A.C. Shpg. wt., 72 lbs. E12215, Complete System (use V. J. meter), List, $94.50. CASH PRICE, Time Payments: $8.25 down, $10.21 monthly. E12250, Volume Level Meter, NET $4.50.

**18 Watt Amplifier Only** E12218, The Knight 18 Watt High-Gain De Luxe amplifier is also available separately. Includes all of the advanced features described above. Size: 21 1/2" x 11" x 9 1/2" Weighs 34 lbs. For 110 volts, 50-cycle A.C. Shpg. wt., 75 lbs. List, $36.95. YOUR PRICE, E12303, Kit of R.C.A. Tubes, NET: $12.00.

**18 Watt De Luxe Portable System** The Knight 18 Watt De Luxe Sound System is also available in convenient portable form. Has all of the advantages and features described above. Entirely self-contained in two cases — one for amplifier (22 1/2" x 13 1/2" x 10 1/2"), the other a split-case for the speakers (21 1/2" x 13 1/2" x 8 3/4"). Designed to carry short and convenient. The complete Knight 18 Watt Portable System includes: 1 Knight 18 Watt De Luxe High-Gain Amplifier in case; 1 — Uni-plex Crystal Microphone with 25 foot cable and plug; 1 Knight Collapsible de Luxe Floor Stand; 2 Jensen 12-inch P. M. Dynamics in system, with 30 foot cables and 2-prong plugs, R.C.A. tube kit; spare fuse and instructions. Contained in two handy carrying cases. Shpg. wt., 85 lbs. **E12225, Complete 18 Watt System (less V. J. meter), List, $104.50. CASH PRICE, $94.50.**

**Choice of Microphones** In addition to the Knight Velocity Microphone, the 18 Watt System is available with a choice of microphones as illustrated above: E12223, Complete System as described above, but with Shure Uni-plex Crystal Microphone. (Fig. D) Less V. J. meter. E12224, Complete System as above, but with American Dynamic Microphone. (Fig. B) Less V. J. meter. E12213, Complete System as above, but with Shure "Uni-plex" Crystal Microphone. (Fig. C) Less V. J. meter. List Each, $167.50. **CASH PRICE, EACH OF ABOVE $82.50.**

**Time Payments:** $8.25 down, $10.21 monthly.
The new Knight Velocity Microphone with built-in Acoustic Compander and On-off Control Switch.

Here is ALLIED'S answer to the big demand for an intermediate-power High-Cgain Sound System. Especially designed to handle the requirements of large auditoriums, ball-rooms, athletic fields, skating rinks, for small parks, political rallies, carnivals, etc.

The complete Knight 35 Watt Sound System is offered complete as follows: 1 Knight 35 Watt Amplifier; 1 Knight Velocity Microphone with 25 foot cable and polarized plug; 1 Knight adjustable Floor Stand; 2-1/16 inch Jansen P.M. Dynamic Speakers with 30 foot Cables and 2-prong plugs; R.C.A. tube kit spare fuse and operating instructions. For 110 volts. 50-60 cycles A.C. Shpg. wt., 67 lbs. 

$775.00

CHOICE OF MICROPHONES

The Knight 35 Watt System is available also with a choice of microphones as illustrated above (Fig. E.)

E12238, Complete System as described, but with Shure "Rocket" Microphone. (Fig. B.)

E12240, Complete System as above, but with Electro-Voice Dynamic Microphone. (Fig. C.)

E12241, Complete System as above, but with Bruno Velotron Microphone. (Fig. E.)

E12237, Complete System as above, but with Brush Sound Cell Microphone. (Fig. A.)

E12236, Complete System as described above, but with Shure "Uniplex" Microphone. (Fig. D.)

CASH PRICE EACH...$77.50

Time Payments: $7.75 down, 59.95 monthly for 8 months

E12250, Volume Level Meter. NET $4.50

35 WATT AMPLIFIER ONLY

E12235, Features exactly as described above and at left. Size: 191/2" x 111/2" x 91/2". Shpg. wt., 29 lbs. For 110 volts. 50-60 cycles A.C. Less tubes and V. 1 meter. 

CASH PRICE...$33.50

List, $67.50 NET.

E12306: R.C.A. Tube Kit. NET...$8.38

$89.50
OUTSTANDING NEW FEATURES

- **Volume Level Meter.** Indicates volume output directly in decibels. May be had with Knight M Systems at small additional cost. Valuable for recording work or for determining volume output where speakers are remotely located from amplifier.

- **4 Microphone Inputs.** Here is the first 35 Watt De Luxe Sound System ever offered with the use of from one to four microphones. Each microphone may be controlled individually or simultaneously. Each microphone may be set at any desired degree of blending, and the total number of microphones used may be varied to suit the application. Microphones may be any of those illustrated for proper balance. Microphone may be either separately or simultaneously.

- **A.V.C. and A.V.E.** Among the outstanding features of the Knight P.A. systems is Automatic Volume Control and Automatic Volume Expansion. The former automatically prevents feedback and the latter mantains constant volume level. A.V.E. is especially effective in providing higher fidelity phone reproduction.

- **New Speaker Selector Switch.** Permits instant selection of voice coil or speaker line output impedance to match any number of speakers of the desired type and without disturbing tones in the middle range. The switch is a significant advance in P.A. design and creates a degree of tonal excellence that must be heard to be appreciated. Only the Knight P.A. offers such quality of flawless tone reproduction.

An advantageous new feature of the Knight 35 Watt De Luxe System is the convenient Master Gain Control. This feature provides simultaneous control of the overall volume level of all the five input channels. After setting the individual microphone controls to desired degree of blending, the handy Master Gain Control may be used to adjust the total volume level. This convenient feature is another one of the exclusive new Knight P.A. features.

The Knight 35 Watt De Luxe Sound System has built-in true Dual Tone Compensation. Separate controls are provided for both bass and treble ranges, permitting low or high notes to be built up either separately or together without disturbing tones in the middle range. This feature is a significant advance in P.A. design and creates a degree of tonal excellence that must be heard to be appreciated. Only the Knight P.A. offers such quality of flawless tone reproduction.

New Speaker Selector Switch permits instant selection of voice coil or speaker line output impedance to match any number of speakers of the desired type and without disturbing tones in the middle range. The switch is a significant advance in P.A. design and creates a degree of tonal excellence that must be heard to be appreciated. Only the Knight P.A. offers such quality of flawless tone reproduction.

You can use one or two crystal or magnetic phonograph pickups with the Knight 35 Watt De Luxe System. Dual phono input of the convenient plug-in type is provided. This is operated from the special dual control on the front panel. Each phono is controlled from either side of a zero position, allowing fading action for background or sound effects. For suitable complete low cost phonograph units see listing on page 88.
Our finest Public Address achievement—a phenomenal new Sound System backed by ALLIED'S iron-clad guarantee—an invincible System that will outperform and outlast anything on the market in its own power and price class. It has so much built-in quality, so much output and high-fidelity tone, you'll marvel at the low price at which you can buy it. Especially developed for the most critical and exacting of sound requirements. Superior quality makes this equipment available for use by large orchestras, for church and school, for large auditoriums and halls, for theatre presentations, for outdoor pedestrians, field days, for recording studios, etc., wherever large power and utmost fidelity are required.

**Automatic Volume Stabilizer, 1939's remarkable successor to A.V.C. — exclusive with ALLIED.** Limits excessive peaks and maintains volume at proper level for the elimination of feedback and blasting. Actually permits twice as much even tone on the same peak as that of ordinary 35 watt systems. An exclusive and brilliant new Knight feature found in no other sound system.

**Automatic Volume Expansion.** Designed to re-create the original tonal realism of phonographic recordings by automatically building up the louder passages to their true volume relationship, maintaining the correct balance between the loud and soft passages of the original recordings.

**5 Channel Mixer, Exclusive.** In the Knight 35 Watt System, has provision for the use of one to four high-impedance microphones of any type, each with a separate volume control. One or two crystal or magnetic phone units may also be used, regulated by a single fader type phone switch. As many as four microphones and one phone unit may be used simultaneously and blended or 'mixed' in any desired degree. The entire output of all the input channels used at any one time is electronically mixed and may be controlled by the single Master Gain Control without disturbing the original balance.

**Dual Tone Compensation.** The Knight 35 Watt De Luxe System has built-in true Dual Tone Compensation. Separate controls are provided for less bass and treble ranges permitting low or high notes to be built up either separately or together without disturbing tones in the middle range. You get far superior tone with this outstanding new feature—exclusive with Knight.

**Inverse Feedback.** A new development in its latest and most improved form, which permits greater power output with less distortion, hum and noise, achieving a higher fidelity of tonal response. This feature is used effectively in the Knight 35 Watt Sound System. You'll notice the difference once you hear it.

**Knight Velocity Microphone.** Incorporates the best features of the finest velocity microphones. Has new Acoustic Compensator which makes it insensitive to either voice or music for best effect; new "on-off" switch for control at the microphone; live gain rubber shock absorber; adjustable master volume control; separate tone and level controls for each microphone and with fader located from the input channels making recording use or for maintaining constant volume levels on the various microphones are remotely located from the amplifier.

**1939 Engineering.** Uses the following components: 4-S.I.N.T.G.; 2-6K7G; 1-6H6G; 2-6L6G; 1-S.A.V.C. Gain in 1800 cycles, only 30 volts and full head room for peaks with negligible hum level and distortion. Frequency response is essentially flat from 40 to 15,000 cycles.

**Genuine Jensen P. M. Dynamic Speakers.** Two-inch Jensen P. M. Dynamic Speakers are included with the Knight 35 Watt De Luxe System. They handle the output of the amplifier with excellent fidelity.

**Added Features.** Special Speaker Selector Switch provides 2, 4, 8, 16 and 500 ohm output. Powerful Stage Drive Tap; Panel A.C. line. Shorting-type Input jack diagram on base plate; standard 2-prong speaker receptacles. Tap cover. Base plate are removable for easy accessibility to all tubes and parts. You get more for your dollars than you ever had before.

**Complete 35 Watt Velocity System.** The complete Knight 35 Watt De Luxe Velocity System includes: 1—Knight 35 Watt High-Gain Amplifier; 1—Knight Velocity Microphone with Acoustic Compensator; 1—foot cable and polarized plug; 1—Knight Adaptor Microphone Floor Stand; 1—base; 1—12" P.M. Dynamic Speakers, each with 30 foot rubber-covered cable and standard 2-prong plug; complete R.C.A. tube kit, spare fuse, and instructions. Ships, wt. 84 lbs. For 110 volts, 60-cycles A.C.

**E12276. Complete 35 Watt System.**
- Less V. 1 meter. ..List $157.50
- Cash Price, EACH OF ABOVE. . $92.50

**AMPLIFIER ONLY**

Available separately for replacement in high-grade sound systems or as initial equipment. Has input for four high-impedance microphones and two phone pickup phones. Gain is 15 db. The amplifier has an exceptionally wide frequency response of 50-6000 cycles and 6000-10,000 cycles. Hum level and distortion are negligible. Suitable for projection of voices or music for 35 watts and 5000 watts. Has polarized receptacles for microphone. Standard 2-prong plug for speakers. Equipped with individual volume controls for each microphone and with fader for control of phones. Also has Master Gain Control for all inputs. Includes individually variable bass and treble Compensation Controls. Has A.C. switch and indicating bulb's eye on front panel. Protecting fuse is located in tube compartment. Striking modern case measures 11 3/4" x 11 3/4" x 11 3/4". Beautiful black and grey two-tone finish. For 110 volts, 50-60 cycles A.C. Ships, wt. 4 lbs.

**E12275. 35 Watt Amplifier.**
- Less tubes and V. 1 meter. . List $37.50
- Cash Price. , B.C. . . $44.95

**CHOICE OF MICROPHONES**

In addition to the Knight Velocity Microphone, the 35 Watt System is available with one of the following:

**E12279. Complete System as described above, but with Shure 301-B Crystal Microphone.** (Fig. C.) Less V. 1 meter.

**E12279. Complete System as described above, but with Shure 301-B Crystal Microphone.** (Fig. C.) Less V. 1 meter.

**E12279. Complete System as described above, but with American Dynamic Microphones.** (Fig. C.) Less V. 1 meter.

**E12278. Complete System as above, but with Shure "Uni- pro" Microphones.** (Fig. C.) Less V. 1 meter.

**Choice of Microphones**

- **35 WATT PORTABLE SYSTEM**
  - The finest high-quality Portable Sound System now available.
  - Incorporates superb performance with unusual portability and convenience. Answers the most exacting and critical sound requirements; ideal for schools, churches, traveling orchestras, music band organizations, night clubs, funeral homes, lecturers, for portable recording work, etc. An unusually compact system. Combined in two large carrying cases for the amplifier (10 1/4" x 13 1/2" x 8 1/2") and the other a split-case for the two speakers (21 1/2" x 13 1/2" x 8 1/2"). Weights only 75 lbs. Complete. The 35 Watt Portable System incorporates the following features: Automatic Volume Stabilizer; Automatic Volume Expansion; 6 Input Channels; Inverse Feedback; Dual Tone Compensation; Dual Phonograph Input; 4 Hi-Gain Mike Channels; Universal Output; Speaker Selector Switch; Headphone Monitor Jack; Driver Stage Tap, etc. The complete portable system includes: 1—Knight 35 Watt De Luxe System in portable carrying case; 2—12 inch Jensen P.M. Dynamic Speakers with 30 foot cable and plugs in dual-speaker carrying case; "Uniplug" Microphone with 25 foot cable and "Automatic" de luxe collapsible floor stand; R.C.A. tubes, extra fuse and complete instructions. For 110 volts, 50-60 cycles A.C. Shpg. wt. 93 lbs.

**E12282. Complete System, (less V. 1 meter). List $207.00
- **Cash Price.** . . . . $104.50

**Time Payments: $10.45 down; $12.94 per month, for 8 months.**
**Knight 65 WATT "Giant-Power"**

The exclusive new Knight Velocity Microphone with Acoustic Compensator. "On off" Switch. Shock Absorber. Swivel and cable lock - the finest microphone made.

**FEATURES**
- Four Input Channels
- 2 Universal Mike Inputs
- Dual Phono Input
- 4—12" Jensen Speakers
- Dual Tone Control
- Inverse Feedback
- 4—6L6 Beam Power Tubes
- Headphone Monitor Jack
- Power Stage Top

**TECHNICAL SPECIFICATIONS**

The Knight 65 Watt High-Gain Sound System delivers full 65 watts output at 5% distortion. 90 watts peak. Gain is 12, essentially flat from 70 to 10,000 C.P.S. Hum level is negligible. Tubes used are: 2—6J7G, 2—6NZG, 1—535Z, 4—6AG, 2—548. Two high-gain microphone channels permit the use of any high-impedance Crystal, Velotron, Velocity, Sound Cell or Dynamic microphone. Individual microphone controls are provided. Has exclusive new Dual Phono Input with fader control to accommodate one or two crystal or magnetic pickups. Includes Dual Tone Controls for bass or treble accentuation. Individual microphone and phono controls permit blending and fading as desired. Mixing action is electronically controlled. Incorporates Inverse Feedback, has Speaker Selector Switch providing choice of 4, 8, 16 or 200 ohms at standard two-contact speaker receptacles. Input jacks are of shorting type, blocking out all possibility of noise from unused channels.
SOUND SYSTEMS
Super-Power AT LOW COST

We set out to build a giant-power system to cover a wide range of P.A. requirements at low-cost—and we're proud to say that we've succeeded in a big way. This new Knight 65 Watt System is perfect for outdoor use in large stadiums and athletic fields, in public parks, in music band-sheds, at race tracks, circuses, skating rinks, ballparks, fair grounds, for factory call systems or wherever big power, faithful tone and versatile operation are required. Just check these outstanding value features:

- **Four Input Channels.** The Knight 65 Watt Sound System permits the use of one of two high-impedance microphones or two low impedance microphones at the same time, making it ideal for the use of a high-impedance microphone and two ordinary dynamics; they require no field excitation, are rated for normal operating conditions and are ideal for disaster work, emergency work, etc.
- **Super Powerful Circuit.** The High-Gain Amplifier incorporated in the Knight 65 Watt Sound System features a new 10 12V, 615G tube, giving a 65 Watt output undistorted. 5 116 Beam Power Output Tubes assure exceptionally high gain and low-power output coupled with unusually wide-range fidelity.
- **Complete 65 Watt Velocity System.** The complete Knight 65 Watt System includes 2 Knight GIANT-30 Foot White Aluminum Cables, 2 Knight 65 Watt Power Drivers, 2 Knight Velocity Microphones and 23 Foot cables and plugs, 1 Knight Adjustable Microphone Floor Stand, 4 Jensen PM-12B Dynamic Speakers, 50 Foot wire, 1 R.C.A. Mic. plug, 1 R.C.A. tube kit, 1 speaker case and full instructions. See Fig. B. Vol. 100, 50-60 cycles A.C. operation.

**CHOICE OF MICROPHONES**

In addition to the Knight Velocity Microphone, the 65 Watt System is available with either of microphones as illustrated above (less V.I. meter):

- **E12258. Complete System as described above, but with Shure 781-D Crystal Microphone.** (Fig. C.)
- **E12270. Complete System as described, but with Brune Veltron Microphone.** (Fig. D.)
- **E12269. Complete System, but with Brush Sound Cell Microphone.** (Fig. A.)
- **E12267. Complete System, but with Shure "Uniplex" Crystal Microphone.** (Fig. E.)

List Each... $272.50

Choice of microphones to suit your individual requirements. See our representative for complete details.

**65 WATT AMPLIFIER ONLY**

The Knight 65 Watt, High-Gain Amplifier is offered separately either as an ideal replacement for obsolete amplifiers or for use wherever giant power is required. Has universal input for any two high-impedance microphones and two phones. Develops a remarkable gain of 125 db., permitting the direct use of high-impedance microphones without requiring preamplifier. Frequency response is essentially flat from 40 to 10,000 C.S.S. The amplifier has individual volume controls for both microphones and phones, permitting them to be "faded" or "mixed" at will. Dual Tone Control is built-in with separate controls for bass and treble emphasis; helps compensate for varying acoustical conditions. Has polarized receptacles for rikes, 2-contact receptacles for crackers and 2-prong receptacles for phono. Output is universal, tapped at 2, 4, 8 and 506 ohms. Size: 11 1/2" x 9" x 16". Shpg. wt. 30 lbs. For 110 volts, 50-60 cycles A.C. operation.

- **E12265. Knight 65 Watt Amplifier, Complete System, but without Sound System.** Last... 995.00. CASH PRICE...

$147.50

**65 WATT PORTABLE SYSTEM**

The Knight 65 Watt Giant Power Sound System is offered in a remarkably compact portable system as illustrated at right. It includes all of the advanced features described above with the added convenience of the Knight Portable System. Knight portable system separates completely for amplifiers and power drivers to operate without the encumbrance of wires or cables. Knight 65 Watt Amplifier in a portable carrying case; 4 Jensen 12" P.M. Dynamic Speakers with 30-foot cables and plugs, mounted in split carrying cases; 1 Shure "Uniplex" Microphone with 25-foot cable and plug; 1 Knight Deluxe collapsible floor stand; R.C.A. tubes with 4-prong plug. Shpg. wt. 15 lbs. CASH PRICE...

$144.50

New Speaker Selector automatically matches impedance correctly to any number of speakers. Designed to fit all types of loudspeakers. No additional components required.

**Time Payments:** $14.45 down, $17.69 monthly for 8 months.

**E12220. V.I. Meter only.** CASH PRICE...

$4.50

**E12225. Complete System, less V.I. meter.** CASH PRICE...

$127.50

**E12230. Volume Level Meter.** CASH PRICE...

$4.50

**E12235. R.C.A. Tube Kit.** CASH PRICE...

$12.43

See Page 73 for attractive Time Payment Plan. Suitable portable phonograph units are shown on Page 88. Excellent baffles of all types are described on Page 87.
An outstanding Mobile Sound System that is available for universal 6 Volt D.C. or 110 Volt A.C. operation. Versatile and powerful applications. Its low price gives it exceptional appeal.

**COMPACT, POWERFUL 6 VOLT-110 VOLT MOBILE SYSTEM.** The Knight 18 Watt 6 Volt-110 Volt Mobile Sound System is designed for versatile performance, operates directly from any 6 volt storage battery or from any 110 volt A.C. line. Will cover large portable. May be simply and quickly installed or changed from car to car or from one place to another. The lowest-priced efficient mobile-portable sound system available. Designed especially for sound trucks; an ideal system for powerful reproduction of phonograph records.

**HIGHEST QUALITY COMPONENTS.** The Knight 18 Watt 6 Volt-110 Volt Mobile System is built of the finest matched components selected to withstand the punishings of heavy-duty mobile service. The powerful high gain 18 Watt Amplifier unit has plug-in vibrator "B" supply. A high-quality 78 R.P.M. phonograph motor with 10-inch turntable and speed-regulator is built-in quality Amperite ACH Velocity Microphone with detachable handle. Supplied with high floor stand if desired. Cables for microphone, speakers, and battery are all equipped with polarized battery clips. Entire system is housed in an attractive, sturdy steel case equipped with strong handles. Size: 17 1/2 x 13 1/4 x 10 1/4.

**1939 CIRCUIT DESIGN.** The powerful 18 Watt Universal 6 Volt-110 Volt Amplifier used in the system incorporates the finest new features, including improved Inverse Feedback, high-gain greater output with less distortion and noise, achieving greatly improved tonal fidelity. The amplifier has essentially flat frequency response from 70 to 8,000 C.P.S. of which separate volume controls for the microphone and photo pickup, permitting blending and mixing, is available. Speaker-Selector Switch which permits switching to any group of speakers, with output taps at 2, 4, 8, 16 and 500 ohms. Fully fused on both 6 Volts D.C. and 110 Volts A.C.

**COMPLETE 18 WATT 6 VOLT-110 VOLT MOBILE SYSTEM.** Offered complete for operation from any 6 volt storage battery or from any 110 volt, 50 volt A.C. or direct. Includes: 1-Knight 18 Watt Hi-Gain Universal Amplifier, mixing panel and phonograph in steel cabinet, with 2-genuine Jensen 12-inch P.M. dynamic speakers, each with generous 30 foot cables and polarized plugs; Amperite ACH Velocity Microphone with detachable handle and generous 22 foot cord and polarized plugs; R.C.A. tube kit; spare fuse and instructions. Shpg. wt., 90 lbs.

**E12310 Complete 6 Volt-110 Volt 18 Watt Mobile System.**

<table>
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<tr>
<th>Last Price</th>
<th>$125.00</th>
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<tr>
<td>Cash Price with Tubes</td>
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**Time Payments:** $8.65 down, $10.71 monthly, for 8 months.

**18 WATT 6 VOLT MOBILE SOUND SYSTEM.**

Here is the Knight 18 Watt Mobile Sound System with essentially the same features as described above, but intended only for use from a 6 volt storage battery or where A.C. current is not available. Particularly recommended for use in advance publicity wagons for carnivals and road shows, and sound helicopters and advertising cars. Includes: 1-Knight 18 Watt High-Gain Amplifier, mixing panel and phonograph in steel cabinet, with 2-genuine Jensen 12-inch P.M. dynamic speakers, each with generous 30 foot cables and polarized plugs; Amperite ACH Velocity Microphone with detachable handle and generous 22 foot cord and polarized plugs; R.C.A. tube kit; spare fuse and instructions. Shpg. wt., 92 lbs. For 6 volt D.C. operation only.

**E12323 Complete 18 Watt 6 Volt Sound System.**

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<th>Last Price</th>
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<tr>
<td>Cash Price</td>
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**Time Payments:** $8.25 down, $10.21 monthly, for 8 months.

**CHOICE OF MICROPHONES.**

We offer the Knight Mobile Sound System with a wide choice of famous microphones in addition to the type microphone illustrated on this page, using one of the finest available (Fig. A). A choice of microphones include: 1-Knight "Rocket" Crystal Microphone; 2-Jenson "Venus" Crystal Microphone; 3-Central "Amperite" ACH Velocity Microphone; 4-Sherar "Uniplex" Crystal Microphone.
**30 WATT DELUXE MOBILE SYSTEM**

America's newest and most versatile Universal Sound System! A new departure in design, features, quality and performance - developed and offered exclusively by ALLIED.

Operates entirely and directly from any 6 volt storage battery wherever A.C. current is not available, or, with a slight change, may be operated from any 110 volt 50-60 cycle A.C. outlet. Delivers full 30 watts output in 5% distortion (40 watts maximum) with excellent tonal fidelity, making it ideal for use in sound trucks, on political rallies, concerts, concerts, traveling dance orchestras, road shows, lecturers, evangelists, etc.

- **1319 Amplifier Design.** Outstanding for power and circuit excellence - the new Knight 30 Watt Amplifier incorporates exclusive improved Inverse Feedback - a feature which assures larger power output with less noise, hum and distortion, and at the same time aids in developing improved tonal reproduction on both microphone and pickup. Has two high-gain universal microphonic input channels, permitting the use of any high-impedance microphones. Dual photograph input permits the use of an additional phonograph pickup of either crystal or magnetic type in addition to the crystal pickup already built into the system. Separate volume controls are provided for blending microphone and phonograph as desired. Has Dual Tone Controls for emphasizing bass and treble and tone in compensating for varying acoustical conditions. New and wide panels carry Speaker Selector Switch offering 2, 4, 8, 16 and 500 ohm inputs. Power Stage Tube, Headphone Jack, Extra Phone Jack. Speaker and Microphone interconnections. Amplifier is based on both A.C. and D.C. Wiring diagram is included on base plate.

- **Powerful New Circuit.** The 30 Watt Universal Amplifier uses the following tubes: 2 077G; 1 077G, 1 6L6G, 2 6L6G; 2 6N5G. Gain on microphone is 121 db., on phono 80 db. Frequency response is essentially flat from 40 to 10,000 C.P.S. Hum level and distortion are negligible. Current drain on 6 volts as well as 110 volts is at a minimum. A built-in special heavy-duty power supply with plug-in type vibrator operates efficiently from either 6 volts A.C. or 110 volts A.C. Special standby switch conserves power supply drain but keeps all units ready for operation.

- **New V. I. Meter.** Indicates volume output directly in decibels. May be had with system at small additional cost. Ideal for use where speakers are remotely operated from amplifier.

- **Compact Single Unit Design.** The entire 30 Watt De Luxe Mobile System is built around the compact single amplifier unit. Amplifier, high grade single needle meter, sturdy crystal pickup, 6 volt and 110 volt power supplies, and all controls and connecting interconnections are assembled in one compact modern steel case. Size overall is 183/4" x 133/4" x 11".

---

**CHOICE OF MICROPHONES**

The Knight 30 Watt Mobile System may also be had with a choice of any of the famous microphones shown on page 4.

- **E12232 - Knight 30 Watt System complete with Shure "Rocket" Crystal Microphone,** (Fig. A)/Less V. I. meter.
- **E12233 - Knight 30 Watt System complete with Shure "Unidisc" Crystal Microphone,** (Fig. C)/LeSS V. I. meter.
- **E12234 - Knight 30 Watt System complete with American Dynamic Mike,** (Fig. E)/Less V. I. meter.

**List Price $104.50**

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**OUTDOOR EVENTS**

**INDOOR P.A.**

**ANTI-ELECTION OFFER!**

**30 VOLT 300 WATT MOBILE SYSTEM**

**List Price: $215.90**

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<th>Time Payments:</th>
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<td>E12230, Amplifier only with built-in microphone and power pack</td>
<td>$62.50</td>
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<tr>
<td>E12305, R.C.A. Tube Kit</td>
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<tr>
<td>E121230</td>
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<tr>
<td>E121231, Complete 30 Watt De Luxe Mobile System (less V. I. meter)</td>
<td>$104.50</td>
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**30 WATT DE LUXE MOBILE SYSTEM**

**List Price: $104.50**

**IN-PLANT**

**ANTI-ELECTION OFFER!**

**30 VOLT 300 WATT MOBILE SYSTEM**

**List Price: $215.90**

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<td>E121231, Complete 30 Watt De Luxe Mobile System (less V. I. meter)</td>
<td>$104.50</td>
</tr>
</tbody>
</table>
A complete, self-contained, self-powered unit for use with any type of public address or recording equipment. Completely built, no tubes. Supplied complete, ready for immediate operation. Output is to 200 ohm line. Use; 1-6C6 as S.G. Amp.; 1-6G2A Triode-Amp.; uses 84 as rectifier. Components are carefully shielded and rubber-mounted. Has a gain of 60 db, and a flat response from 30 to 12,000 cycles. Hum is negligible. Case size, 8 1/4 x 8 1/4 x 11 1/4". Shop wt., 33 lbs. For 110 Volts, 60 cycles A.C. Complete with tubes. A ruggedly constructed unit.

MEISSNER R. F. TUNER

A true high-fidelity Broadcast band tuner for those who desire the very finest program reproduction. Consists of three Tuned R.F. stages and detector. With high impedance output circuit designed to couple to input circuit of almost any type of high quality audio amplifier. Coils have Ferrocore cores providing maximum selectivity without sacrificing quality. Ideally suited for P.A. monitoring of broadcast programs, for School and Educational Broadcast reception, etc. Has monitor head-phone jack with unique circuit arrangement which prevents unbalance of circuit when phones are plugged in or out. Eliminates annoying plug noises. Built-in power supply is highly stabilized to prevent erratic operation; heavily filtered to insure smooth performance. Illuminated 4" airplane dial is directly calibrated to simplify tuning in desired programs. Tuning range is from 550 to 1600 Kc. covering all standard Broadcast station frequencies. The entire unit is housed in an attractive black wrinkle finished steel cabinet. Extremely compact in size; measures only 8 3/4" wide, 8 3/4" high, 12 3/4" deep. Has full A.V.C. Equipped with volume and tone controls. Use: 3-6H6, 1-6166, 1-6836, and 1-554 tubes. Supplied completely wired (not a kit) ready for immediate operation; less tubes. One of the finest R.F. tuners available, yet our price is attractively low for such outstanding quality. For 110 volts, 60 cycles A.C.

E9852. R.F. Tuner. NET PRICE. $28.50

Your Price. $11.75

E12252. R.C.A. Tube Kit. NET. $44.25

E12250. Volume Level Meter. NET. $5.00

E9850. The Knight Volume Expander. For 110 Volts, 50-60 cycles A.C. Shpg. wt., 12 lbs. Less tubes. (Note: The Volume Expander is intended only for use as an accessory with record playing equipment; it is not in itself a complete record-playing device.) List. $23.50

YOUR PRICE. $11.75

E12310. R.C.A. Tube Kit. NET. $3.39

A.C. PREAMPLIFIER

A new broadcast-station-quality A.C. operated preamplifier. Ideally suited for use with any type of Public Address or recording equipment. Completely built into one compact steel case. Designed to amplify the output of crystal, velocity, dynamic or other low-level microphones to a point where they can be fed into mixing circuits, telephone lines or any low-gain main amplifier. Input is arranged for 50, 200, or 500,000 ohms to match the output of any type of microphone. A volume control is incorporated for convenient operation. Output is to 200 ohm line. Use; 1-6C6 as S.G. Amp.; 1-6G6A Triode-Amp.; uses 84 as rectifier. Components are carefully shielded and rubber-mounted. Has a gain of 60 db, and a flat response from 30 to 12,000 cycles. Hum is negligible. Case size, 8 1/4 x 8 1/4 x 11 1/4". Shop wt., 33 lbs. For 110 Volts, 60 cycles A.C. Complete with tubes. A ruggedly constructed unit.

A new broadcast-station-quality A.C. operated preamplifier. Ideally suited for use with any type of Public Address or recording equipment. Completely built into one compact steel case. Designed to amplify the output of crystal, velocity, dynamic or other low-level microphones to a point where they can be fed into mixing circuits, telephone lines or any low-gain main amplifier. Input is arranged for 50, 200, or 500,000 ohms to match the output of any type of microphone. A volume control is incorporated for convenient operation. Output is to 200 ohm line. Use; 1-6C6 as S.G. Amp.; 1-6G6A Triode-Amp.; uses 84 as rectifier. Components are carefully shielded and rubber-mounted. Has a gain of 60 db, and a flat response from 30 to 12,000 cycles. Hum is negligible. Case size, 8 1/4 x 8 1/4 x 11 1/4". Shop wt., 33 lbs. For 110 Volts, 60 cycles A.C. Complete with tubes. A ruggedly constructed unit.

VOLUME EXPANDER

A complete, self-contained, self-powered unit for use with any amplifier lacking an effective volume expander. Designed to recreate the original tonal realism of phonograph recordings. When recordings are made, it is necessary to reduce the louder passages and to increase the level of the softer passages to avoid high surface noise and overcutting into adjacent grooves. This results in a reduction of contrast and brilliance in the recording. Designed to recreate the original rendition properly, the Volume Expander automatically builds up the louder phonograph passages to their true volume relationship, maintaining a correct balance between the loud and soft passages of the original recording. Brings out the exact original recorded rendition and actually minimizes surface noise. The Knight Volume Expander is compactly built, size, 11 1/2 x 6 1/2 x 8 1/4". Uses the following tubes: 1-6F5, 1-6H6G, 1-6Z5. Two controls are used, one for control of volume, the other to control the degree of expansion. Has tip-jack output to connect directly into the phonograph input circuit of any amplifier. Bring your present equipment up to-date with the Knight Volume Expander and get the full phonograph record reproduction. The Knight Volume Expander is also suitable for coupling for high-grade home type phonograph equipment not provided with this feature. Adds immeasurably to wider tonal response. Recommended for use with Knight 8, 15, 35 and 66 watt standard amplifiers to provide unsurpassed reproduction.

E9850. The Knight Volume Expander. For 110 Volts, 50-60 cycles A.C. Shpg. wt., 12 lbs. Less tubes. (Note: The Volume Expander is intended only for use as an accessory with record playing equipment; it is not in itself a complete record-playing device.) List. $23.50

YOUR PRICE. $11.75

E12310. R.C.A. Tube Kit. NET. $3.39

Knight 35 WATT POWER STAGE

An all-solid state amplifier, designed specifically for use with phonograph equipment. Uses photocell amplifiers which have a proved long life and higher quality sound. Provides unsurpassed volume control for larger 35 watt and 70 watt power amplifiers. The new Knight Power Panel is housed in a self-controlling case. In an attractive compact design. Has 11 Volts A.C. Preamplifier. Designed to provide a natural response from any type of speaker. This bridge circuit signal will not be more than 3%, even with a signal at the full rated capacity of the circuit. A.C. Preamplifier. Includes one 11 Volts A.C. Preamplifier. Designed to provide a natural response from any type of speaker. This bridge circuit signal will not be more than 3%, even with a signal at the full rated capacity of the circuit.
QUALITY CRYSTAL HEARING AIDS

NOW—every hard-of-hearing person can regain the thrill of perfect hearing — personally. New portable battery model is housed in pin-seal leakage, candleform 5' deep, 8" wide, 6" high. Requires only two small batteries, one 1 1/2 volt cell, and one small "B" battery. No longer need your friends raise their voices — no more embarrassing standing on a par with those whose hearing is unaffected — in one amazingly sensitive and simple-to-operate hearing aid is the entire solution to your problem. You can use it in your home or at your office. Club, or anywhere you travel. It picks up voices or music from any part of the room and reproduces it with clear, crisp naturalness of tone. New, modern circuit using latest type crystal microphone and crystal earphone unit reproduces and amplifies every sound at many times its normal intensity — without annoying buzz and noise so prevalent in cheap, imperfectly designed hearing aids. Here is the first low-cost Hearing Aid that will function sensitively and with excellent fidelity. Weights only 6 lbs.

E12175, Portable Battery Model (illustrated). With tubes; less earphones. Less only earphone (see listing below). YOUR NET PRICE...$29.95

LATEST ALL-ELECTRIC MODELS

This sensational new device plugs into any 110 volt outlet, AC or DC. Operation is extremely economical — little drain is only 35 watts, less than your favorite reading lamp. Service is limited to occasional tube replacement — in most cases tubes will last for two years. Churches, clubs, and many organizations can use the standard unit also, for every unit will handle up to eight foot, headband or bone conduction type reproducers. Standard Model is housed in a handsome polished walnut cabinet. 33" high, 634" wide, 434" deep, and Amperite Home Model Kontak pickup with foot pedestal. NET PRICE...$29.95

E12176, Standard AC-DC Model in walnut case. With tubes less earphones. Shpg. wt. 6 lbs.

HEARING-AID ACCESSORIES

E12178, Crystal Earphone with headband and 4 foot cord. NET...$4.41
E12180, Largette Type Crystal Earphone with 4 foot cord. NET...$4.41
E12182, Bone Conduction Unit with 4 foot cord. NET...$6.06
E12184, Individual volume control with 10 foot cord. NET...$2.06
E12185, 220 Volt Adapter Cord. Permits use of 110 volt AC-DC units from 220 volt DC source. NET...59c
E12183, Double plugs. Permit use of two earphone units in single earphone outlet. NET PER PAIR...$1.49
E12184, Replacement batteries for battery model. NET PER SET...$1.49

ELECTRICAL INSTRUMENT AMPLIFIER

The very latest in electrical amplification for musical instruments. Everywhere the best of soloists are using amplifiers to create new and novel musical effects, to put new life into ageing arrangements, to bring up feature passages, for luten, viola, electric violins, etc. NOW— you can get these same effects from your own system. Delivers all the power of the KNIGHT 8 Watt High Gain Portable Sound System described on page 23, but with the new Home Model Amplifier, Beneath the Character — only one professional instrument, or child can operate it! You merely slip the tiny inconspicuous pickup unit under the amplifier. and your set will produce every effect you desire. FOR USE WITH ANY INSTRUMENT

A small slip of adhesive tape holds pickup securely in place. A slight flip of the fingers, and it is instantly removable for portability or for attachment to another instrument if desired. The complete Electrical Instrument Amplifier is extremely compact for convenient portability. Designed for easy operation (no technical knowledge required). Delivers all 8 watts to carry feature passages above even the largest speaker mounted in portable case and operated at some distance from the amplifier unit. Supplied complete, ready available for RCA tubes, amplifier and Acoustic earphone speaker control and 25 foot cord.

NET PRICE...$35.75
E12335, Complete System as described. YOUR NET PRICE...$41.35

E12336, Same System as above but with Amperite KTH Professional Pick-up and foot-pedal volume control. YOUR NET PRICE...$41.35

Knight INTERCOMMUNICATION SYSTEM

Here is an entirely new type of intercommunication system which permits instant, automatic, direct contact between adjacent offices, rooms, etc. Essential to all modern businesses, homes, and institutions. Much faster and more convenient than telephone systems. The complete Knight System consists of two (or more) stations connected together. The simple two-wire system is fast and easy to operate. You simply push the small lever to talk and remove it to listen. You simply push the small lever to talk and remove it to listen. Stations may be located at any distance from each other, and may be used simultaneously. The complete Knight System consists of two (or more) stations connected together. The simple two-wire system is fast and easy to operate. You simply push the small lever to talk and remove it to listen. Stations may be located at any distance from each other, and may be used simultaneously.

E12340, Complete Two Way System. Consists of: Two units with amplifier and two complete Sub-station units. YOUR NET PRICE...$26.25
E12341, Additional Sub-station Unit with 50 foot cable and polarized plug. YOUR NET PRICE...$9.90
E12342, Master Station Unit. Complete with tubes, junction box, and Sub-station units. YOUR NET PRICE...$4.25
E12343, Sub-station Unit. Up to 10 may be used with each Master Station Unit. Complete with tubes, junction box. YOUR NET PRICE...$7.95
E12344, Cable for connecting Master and Sub-station units. PER FEET...40c

NOTE: WE CAN SUPPLY ALL types of Intercommunication Systems for various purposes, as well as Factory and Industrial Paging and Call Systems. For complete details and prices, write to our Engineering Division, giving your requirements in detail.

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LOW-COST SINGLE-SPEED MODEL
A dependable electric phonograph, suitable for use with any amplifier or radio set having a high-impedance phone input circuit. Incorporates a high-grade single-speed 78 R.P.M. motor, self-starting synchronous type; maintains constant speed regardless of line voltage variations. Equipped with 12-inch turntable. Uses a high-impedance flat type Knight magnetic pickup which has excellent frequency response. Pickup cord is equipped with convenient phone tip ends. Includes built-in volume control. Has needle cup. The entire assembly is housed in a compact, sturdy leatherette-covered case which measures 17 3/4" x 13 1/2" x 17" open; 17 3/4" x 13 1/2" x 9 1/4" closed. Leather carrying handle is securely riveted on top. Entire unit is light in weight, compactly built for easy portability. Includes approved 6 foot cord and plug. For operation on 110 Volts, 60 cycles, A.C. Shpg. wt. 29 lbs.
E10052. With Magnetic Pickup.
**YOUR PRICE** $1365

PORTABLE PHONO WITH ENCORE PICKUP
An entirely new type of portable phonograph. Much smaller in size than usual portable units, it is designed for ready portability. New "Encore" type crystal pickup mounts in lid of case directly above turntable core. Operation is simple: place record on turntable, start motor, lower lid, and record starts playing. Pickup is automatically lowered in starting groove; fast flip-over adjustment makes instant change for playing either 78 or 12-inch records. Pickup is high-fidelity crystal type with tangent head; has extremely wide frequency range and greatly reduces record wear and needle hair. Patent pending. Mechanical arrangement provides cushion rest for pickup when unit is being carried. Case is finished in handsomely masoned leatherette with handle and rubber bumper feet. Motor is sturdy single-speed 78 R.P.M. type with 15" x 15" x 7". For 110 volt 60 cycles. Size: 15" x 15" x 7". Shpg. wt. 15 lbs.
E10052.
**YOUR PRICE** $1575

HIGH GRADE DUAL-SPEED MODELS
Essential equipment for sound systems. Also suitable for use with any radio set or amplifier to provide brilliant reproduction of 8, 10, or 12" standard records. Sturdy, self-starting 78 R.P.M. motor runs smoothly and quiet. Motor speed is controlled by a heavy-duty crystal pickup; with built-in volume control. Has pickup cord with convenient phone tip ends. Comes in mason-colored leatherette-covered case with carrying handle and rubber feet. Has slip-type hinges which allow cover to be removed. Measures 17 3/4" x 13 3/4" x 9 1/4" closed. Equipped with leather carrying handle which will not loosen or pull off. Fills every requirement for high quality, portable phonograph. Includes approved 6 foot cord and plug. For operation on 110 Volts, 60 cycles, A.C. Shpg. wt. 30 lbs.
**YOUR PRICE** $2155

PORTABLE PHONOGRAPHS

NEW 6 VOLT D.C. MODELS
Essentially the same as the 110 Volt Models listed above, but equipped with heavy-duty 6 volt D.C. motors. Dual-speed type; will play any 8 to 12' record, either 78 or 33 1/3 R.P.M. In ruggedly constructed portable cases. Ideal for all portable 6 volt operated and equipped phonographs. Motor runs smoothly. Case size: 17 3/4" x 13 3/4" x 9 1/4". Shpg. wt. 40 lbs.
E10053. With Webster Magnetic Pickup.
**YOUR PRICE** $2575

KNIGHT PLAYER
A dandy little record player that will bring endless hours of entertainment. May be quickly and easily attached to any radio set or amplifier to provide brilliant reproduction of 8, 10 or 12" standard records. Sturdy, self-starting 78 R.P.M. motor runs smoothly without warring. High-quality magnetic pickup has extremely wide tonal response. Equipped with built-in volume control. Housed in attractive leatherette with carrying handle and rubber bumper feet. Operates from 110 volts. 60 cycles A.C. Size: 15" x 15" x 7". Sturdily built for ideal portable service wherever fine record reproduction is in demand.
E10050.
**YOUR PRICE** $995

KNIGHT RECORD PLAYER & AMPLIFIER
This new portable self-contained unit meets a wide demand for a high-quality, self-powered phonograph player. Ideal for use in homes, schools, fraternities, dormitories, advertising agencies, churches, clubs, homes and camps, etc. Can be used wherever 110 volt 60 cycle A.C. is available. Built of highest quality components to assure long life and trouble-free operation. Single unit carrying case contains sturdy, single-speed 78 R.P.M. phonograph motor and turntable, tangent-head crystal pickup, and built-in amplifier and speaker. Pickup, amplifier and speaker are accurately matched to provide the finest type of record reproduction; will play all 8, 10 and 12" standard records with brilliant tonal quality. Built-in volume control with A.C. switch attached permits operation as either high or low volume levels as desired. Case is covered in attractive tan leatherette with carrying handle and rubber bumper feet. Operates from 110 volts. 60 cycles A.C. Size: 15" x 15 3/4" x 9". Sturdily built for ideal portable service wherever fine record reproduction is in demand.
E10051.
**YOUR PRICE** $2995
Famous AUTOMATIC RECORD CHANGERS

GARRARD RECORD CHANGERS

New, high-grade record changers for use in the finest type of record-reproducing units. Designed and built to provide finest quality of tone, minimum surface noise, mechanically perfect operation, and a minimum of record groove wear. Will not damage the finest records. Rugged mechanical construction for trouble-free long-life.

MODEL RC-6 CHANGER

An unusually sturdy, rugged mechanism designed to provide simple smooth-acting operation. Spindle holds eight 10' or 12' records; can be instantly set to play 10' or 12' records by means of simple adjustment knob on top of mechanism, mounting plate. Heavy-duty electric motor is fully enclosed and requires only periodic inspection; runs silently. Crystal pickup is tangent-head type with swivel head to permit top-changing of needle. An unusual feature is the Rejector control by means of which any undesired records on the spindle can be automatically rejected without being played. Entire assembly is compact in size; only 183 x 141/2 x 51/4" above panel, and 41/2" below panel. For 100/130 and 200/250 volts. 60 cycles. 30 lbs. $44.70

E10087. NET $44.70

MODEL RC-1A MIXER-CHANGER

The finest and most versatile of all record-changing mechanisms. Will play any combination of eight 10' or 12' records inter-taped, without mechanical settings or changes. High-fidelity tangent-head crystal pickup provides true tonal reproduction of every type of recording. Powerful, fully-enclosed motor will operate silently and efficiently without attention. Smooth-acting mechanism is equipped with automatic stop; changer stops when last record in magazine is finished. Automatic Rejector allows uninterrupted operation. Any record can be repeated as many times as desired by means of automatic repeater. Dimensions: 183/4 x 141/2 x 51/4" above panel. Wt., 35 lbs. For 100/130 and 200/250 volts. 60 cycles. $59.95

E10088. Model RC-1A. Same as RC-6 but for 100/130, 200/250 volts. 60 cycles A.C. or D.C. NET $50.98

E10089. Portable Carrying Case for Garrard RC-6 or RC-5 record changer. In maroon leatherette. NET $6.75

E10087. Model RC-1A. Same as RC-1A but for 100/130, 200/250 volts. 60 cycles A.C. or D.C. NET $50.98

E10090. Portable Carrying Case for Garrard RC-1A or RC-2A record changers. NET $7.50

PACKARD RECORD CHANGERS

A completely dependable automatic Record Changer, single speed type, will play any 6, 8, or 10 or 12, 78 R.P.M. records. Last record will repeat until mechanism is turned off. May be set to repeat or reject any record at will. Motor is governor controlled, induction type. Operates without noise. Equipped with high-impedance, high-fidelity crystal pickup, assuring the very best quality of reproduction. Provides brilliant response without mechanical distortion or noise. For 110 volts, 60 cycles A.C. operation. Available as mechanism only or in portable case.

MODEL K. Mechanism only. An Efficient, compact unit measuring only 12" x 12" x 5 1/2". Plays 10" records automatically; plays 12" records manually, by means of simple change. Records last record. Finished in statuary bronze. Wt., 20 lbs. $27.50

E10134. NET $27.50

MODEL L. Mechanism only. Will play eight 10" or seven 12" records automatically with only simple change adjustment. Size: 14" x 14" x 8". Finished in statuary bronze. $31.80

E10136. NET $31.80

IN PORTABLE CARRYING CASES

The Packard Record Changer mechanicals, as listed above, are also available in a portable case. Sturdy, black leatherette covered carrying case.

MODEL K RECORD CHANGER, in portable case. $32.00

E10137. NET $32.00

MODEL L RECORD CHANGER, in portable case. $35.20

E10138. NET $35.20

R.C.A. PORTABLE RECORD CHANGER, in portable case. $36.55

E10139. NET $36.55

IN PORTABLE CASE ONLY, For all Packard Record Changer mechanicals, as listed above. $22.75

We Can Also Supply Packard Record Changers in other than the standard models listed above, as follows: For dual-speed (78 and 45 R.P.M.) models, add $3.00. For each additional 45 R.P.M., add 50c. Add 55.94 if 78 R.P.M., 6 volt D.C. motor is desired. For 110 volt 2 cycle motor, add $5.95, and for 220 volt 59 cycle motor, add 45c.

E10055. Knight 4 Watt A.C.-D.C. Amplifier, less tubes and speaker. Shipped wt., 8 lbs. NET $5.95

E10056. R.C.A. Tube Kit for 4 Watt A.C.-D.C. Amplifier. NET $3.90

NEW R.C.A. AUTOMATIC RECORD CHANGER

Here is an exceptionally fine 78 R.P.M. unit for those who require the highest-quality record-changer mechanism. Identically the same as units used in R.C.A.-Victor Radio-Phone Combinations. Will automatically play 10" or 12" records when loaded with 12" records, it will operate for periods of uninterrupted entertainment. New R.C.A. Junior crystal pickup is of the latest inertia type, balanced to assure minimum record wear and surface noise. Top-loading makes needle changing fast and easy; no fumbling; simply drop needle in top well and tighten on screw. Mechanism is of simple fool-proof design, built to provide continuous trouble-free operation. Shock-absorbent coupling between motor and turntable eliminates vibration. High-fidelity type high-impedance crystal pickup has output of 1.5 volts at 1000 cycles; range is from 10 to 7000 C.P.E. providing extremely brilliant reproduction of all types of records. Operates from 110 volts, 60 cycles A.C. Shipped wt., 35 lbs. $44.75

E10091. No. 9844. List $74.95

E10092. No. 9844A. Same as above but with motor for operation from 110 volts, 50-60 cycle A.C. List $77.45

Knight 4 WATT AC-DC AMPLIFIER

Now for the first time, you can get a high-quality, A.C.-D.C. amplifier to build your own record-reproducing unit. Especially designed by ALLIED'S engineers to provide perfect reproduction of highest quality. Can be used for modernizing old phonograph equipment or for building compact record or transcription-playing devices or for installation in portable phonograph units. Extensively compact in size, chassis measures only 4" wide, 9" long and 7" high, exclusive of tubes. Overall height with tubes is only 6 1/2". Uses 1-6C6G, 2-5L6G, and 2-6B5G. Will operate from any 110 volt A.C.-D.C. outlet and produce full 4 watts output. Input circuit with tip-jacks is designed for high-impedance crystal pickup. Output circuit is high-impedance and designed to operate with a Precision Magneto dynamic speaker, having an output transformer to match the 2 beam-power 25L6G tubes in push-pull. Volume control on front is equipped with "on-off" switch; one turn permits accentuation of treble or bass ranges as desired. Can be quickly and easily installed. Select one of the many fine crystal pickups and P.M. speakers listed in this catalog, and with the Knight 4 Watt A.C.-D.C. Amplifier and a phonograph motor, you can build a fine record-playing unit that will provide endless hours of high-quality entertainment.

E10055. Knight 4 Watt A.C.-D.C. Amplifier, less tubes and speaker. Shipped wt., 8 lbs. NET $5.95

E10056. R.C.A. Tube Kit for 4 Watt A.C.-D.C. Amplifier. NET $3.90
PORTABLE CASES for AMPLIFIERS, SPEAKERS, etc.

FOR KNIGHT 15 & 35 WATT AMPLIFIERS

Designed for use with the Knight 15 and 35 watt amplifiers. Maroon leatherette-covered. Comfortable, securely fastened carrying handle; bottom fitted with rubber feet. Has shielded grille for 12" speaker, protected by roll-down cover with snap fasteners. Web strap provided for holding desk type mike stand. 21" x 24" x 12". Wt. 15 lbs.

E12506. NET $7.35

E12516. As above but in Black leatherette. Size 181/2" x 171/2" x 191/2". NET $4.75

FOR KNIGHT 15 & 35 WATT SOUND SYSTEMS

Designed to make completely portable the Knight 15 or 35 watt Standard sound systems. Attractive leatherette-covered case with ample room to carry amplifier and two 12" dynamic speakers. Separates into three units, two of which serve as speaker bailles; holds amplifier in bottom section. All units fasten securely together with heavy trunk clamps. Heavy plywood with nailed bonded corners. Size, 25" x 22 1/2" x 15 1/2". Shpg. wt. 28 lbs.

E12521. NET $9.95

E12527. Same high quality case as above, but for equipment other than Knight Sound Systems. Size, 24 1/2" x 19 1/2" x 13 1/2". Shpg. wt. 24 lbs.

CASE FOR AMPLIFIER ONLY

An exceptionally rugged portable carrying case for use with the Knight 15 or 35 watt Standard amplifiers or similar units. Laminated plywood construction. Attractive maroon leatherette covering. Available with clamshell cases only. Size, 10 3/4" x 20 5/8" x 12 1/4".

E12508. NET $5.85

E12509. As above but for Knight 16 and 35 watt Deluxe and 65 watt Standard amplifiers 10 5/8" x 22 5/8" x 13 3/4".

PHONOGRAPH CASE

Maroon leatherette-covered cases. Sturdy plywood construction; carrying handle; rubber feet on bottom. Cutout for Green Flyer motor. With needle and volume-setting and maximum volume-setting. Price includes 15" tonearm. Size, 20 1/2" x 16 5/8" x 12 1/4".

E12512. NET $4.50

E12513. Same as above but with cutout for Knight Supreme High Fidelity Phonograph Motor. 4.5 lbs. NET EACH $4.50

PLAYS 8" TO 16" RECORDS ON 110 V. AC OR DC

The new Knight Transcription Reproducer and Record Player has been designed for maximum versatility in operation. The universal character of both amplifier and phonograph units makes the Knight Transcription Reproducer suitable for use on any 110 volt line, as AC or DC. The amplifier has been especially developed to give maximum fidelity with the Acoustic Crystal pickup, and has a scratch-filter built-in for elimination of surface noise. The latest Beam Power tubes are employed for greater volume-setting and in equipped with Tone Control which permits accentuation of bass, treble ranges as desired. The dual-speed phonograph is equipped with speed regulator (33 1/3 or 78 R.P.M.) and AC/DC switch. All controls are grouped conveniently on top panel of portable. Wt., 34 lbs.

$49.75

YOUR PRICE.

PORTABLE UTILITY CARRYING CASE

For convenience in carrying any 12" dynamic speaker. Ideal for portable sound systems or for temporary installations. Speaker grille is backed with heavy metal screen. Removable back fitted with snap-type trunk clamps. Constructed of heavy plywood for light weight and long service. Has carrying handle and rubber feet on bottom. Size, 13 1/2" x 13 1/2" x 6 1/4". Wt. 25 lbs. Flap over top to hold supporting stand. NET $8.75

E12522. NET $8.75

E12518. NET $2.95

E12519. NET $4.95

E12521. NET $9.95

E12527. NET $5.95

FOR KNIGHT 8 WATT SOUND SYSTEMS

Designed for easily carrying either of the two Knight 8 watt sound systems. Sturdy construction with metal reinforced corners. Maroon leatherette covering. Has shielded grille for 8" speaker. Metal plate and web strap for holding microphone and desk stand. 19 1/2" x 13 1/4" x 8". Designed and built with typical Knight quality. May also be used for other amplifiers or similar equipment. A sturdy, easy-to-carry case. Shpg. wt., 19 lbs.

E12505. NET $4.95

E12519. NET $4.95

DUAL SPEAKER CARRYING CASE

Permits easy carrying of two 12" speakers. Case divides into separate units, serving as buffers when speakers are in use. Has attractive leatherette covering and sturdy carrying handle. Speaker grilles are backed with heavy metal screen. Heavy plywood construction; map-type trunk clamps; rubber feet on bottom of each section. Extremely compact and portable. Size closed, 21 1/2" x 13 1/4" x 8 1/4". Wt., 34 lbs. flap over top to hold supporting stand.

E12519. NET $4.95

E12521. NET $9.95

SINGLE SPEAKER CARRYING CASE

An attractive case for any 12" dynamic speaker. Ideal for portable sound systems or for temporary installations. Speaker grille is backed with heavy metal screen. Removable back fitted with snap-type trunk clamps. Constructed of heavy plywood for light weight and long service. Has carrying handle and rubber feet on bottom. Size, 13 1/2" x 13 1/2" x 6 1/4". A fine speaker case value. Wt., 25 lbs.

E12518. NET $2.95

E12519. NET $4.95

E12521. NET $9.95

E12527. NET $5.95

CASE FOR AMPLIFIER ONLY

An exceptionally rugged portable carrying case for use with the Knight 15 or 35 watt Standard amplifiers or similar units. Laminated plywood construction. Attractive maroon leatherette covering. Available with clamshell cases only. Size, 10 3/4" x 20 5/8" x 12 1/4".

E12508. NET $5.85

E12509. As above but for Knight 16 and 35 watt Deluxe and 65 watt Standard amplifiers 10 5/8" x 22 5/8" x 13 3/4".

E12527. NET $5.95
WEATHERPROOF BAFFLES

STEEL MODEL

Designed to afford complete speaker protection as well as adequate sound distribution for either indoor or outdoor sound installations. Rigidly constructed of pressed steel. Place in 16½ x 9½ x 10½ deep bell housing to accommodate 12" speaker. For smaller speakers use reducer rings listed below. Comes with weather proof snap-on cover. Has no annoying resonant rattles or vibration. Finished in black wrinkle baked enamel. Shpg. wt., 15 lbs. $8.25

E10565. NET.

REDUCER RINGS

E10280. Reducer ring for 8" speaker. $5.00.
E10281. Reducer ring for 10" speaker. 53c.

NET EACH.

AUTO TOP & WALL MOUNT STAND

For use with any of the Aluminum or Steel Baffle described above. Construction, 12' high with cast mounting base. 7" diam. Swivel top. Adjustable. $1.95.

E10568. Auto top and wall mount finished in black wrinkle baked enamel. Shpg. wt., 8 lbs.

BULLET SPEAKER HOUSING

This new streamlined enclosure is ideal for many types of call systems as well as for general voice and sound reinforcement. Can be suspended from a wall or mounted from the ceiling. Made of high-grade spun aluminum and steel, finished in gray enamel. Metal with front screen is black and silver. Has internal lining of felt to prevent resonant rattles. Equipped with mounted hardware and suspension loops. Stiff 11" diam., 10" deep. For 8" speakers. Grommeted, matted, attractive in appearance.

E10570. NET. $3.50.

E10571. Same as above but for 10" speakers. 14" diam., 12" deep. Shpg. wt., 6 lbs.

NET. $4.70.

INCLINED SPEAKER BAFFLES

Attractive, wall nut-finish, speaker baffles for either wall or table mounting. Especially suited for all types of centralized radio and sound equipment. Front openings are backed with attractive black and gold grille cloth.

E10287. For 8" speakers. NET. $3.50.
E10288. For 12" speakers. NET. $4.25.

"STORM-PROOF" MARINE HORNS

A completely new type of weatherproof horn designed especially to withstand severe weather conditions of all kinds. For use with mobile Sound Trucks, Police and Fire cars, etc. Speaker unit mounts in inverted position in heavy steel horn which is acoustically treated.

E10572. WX-8. Horn only for 8" speaker. 18" diam., 12" deep. Less speaker and mounting fixture. $10.29.
E10573. WX-8HP. Complete horn with 8" 16 watt speaker. Less Shpg. $18.52.
E10574. WX-12. Horn only for 12" speaker. 24" diam., 10" deep. Less speaker and mounting fixture. $17.64.
E10575. WX-12SP. Complete horn with 12" 50 watt speaker. Less Shpg. $25.87.

TRUMPET FLARE ONLY

The trumpet flare only as used in the aluminum baffles described above is available for mounting on front of any speaker. Will provide even distribution of sound in desired direction and eliminates problem of acoustic feedback. 16½ x 9½ x 3½ deep.

E10284. NET. $3.88.

LOW-COST DEMOUNTABLE BAFFLES

Fig. A. Ideal for use with any standard dynamic speaker; will greatly increase sound coverage. Weatherproofed for mounting either outside or indoors. Bell is 33 1/8 x23 3/4 x 25 1/2 deep. Type 1 is for 10" and 12" speakers; Type 2 is for 8" to 9" speakers.

LESS SPEAKER HOUSING

E10276. Type 1, $3.95.
E10277. Type 2. $6.80.
NET EACH.

WITH SPEAKER HOUSING

E10278. Type 1, $8.50.
E10279. Type 2. $7.85.

NET EACH.

GIANT TYPE BAFTEL


NET. $6.53.


NET. $11.38.

Fig. B. Semi-directional type, demountable, weatherproof baffles for use where extreme directional effect or long range projection is not required. For short range, large-area coverage. Bell is 30" x 18" x 8" deep. Type 1 for 10" to 12" speakers; Type 2 for 7" to 9" speakers. Can be assembled in a few minutes and are readily portable.

LESS SPEAKER HOUSING

E10276. Type 1, $3.95.
E10277. Type 2. $6.80.
NET EACH.

WITH SPEAKER HOUSING

E10278. Type 1, $7.50.
E10279. Type 2. $6.80.

NET EACH.

OCTO HORN'S & UNITS

A new exponential type of indoor or portable horn. Constructed of heavy-gauge spun aluminum with chrome finished steel shell housing, acoustically designed and treated to prevent metallic sounds. Complete assembly is impervious to all weather and atmospheric conditions. Drivers units are 6" in diam, and have heavy-duty 5" diaphragms with 6 ohm voice coils; will handle up to 15 watts safely. Units are available with either PM or DC-excited fields. Horn has adapter for use on standard horn stands; bell diam. 28" length 39" overall length approximately 36'. Light weight makes this complete unit ideal for mobile or portable sound systems. Shpg. wt., 38 lbs.

E10580. Equipped with P. M. horn unit. List, $40.50.

E10581. Complete horn assembly equipped with 6 volt DC field type unit. List, $30.00.

E10582. 6 volt DC units only. List, $8.82.
E10583. P. M. Type units only. NET. $11.76.
E10584. Oxford Exponential horn unit only. NET. $14.70.

E10585. Equipped with power and rubberized cover for Oxford horn for protection in wet weather. NET. $2.06

91
Knight P.A. SPEAKERS

$5.75

AUDITORIUM DYNAMICS

These powerful 12-inch Auditoryum Dynamic Speakers will reproduce large audio power with absolute fidelity. Will handle from 10 to 15 watts with minimum distortion. They are especially designed for brilliant reproduction of voice and music, either indoors or outdoors. Each is a fully-pressed-steel frame finished in satin-black. One-piece cone has heavy-duty 1/4" diameter 8-ohm voice coil. Overall height 12-1/2". SUPPLIED LESS TRANSFORMER. Write for prices for line and field. 100-ohm Field. 1000-ohm Field. 1000-ohm NET.

YOUR PRICE EACH $5.75

E12526, Knight Universal Output Transformer

66c (if ordered with speaker, specify O.P. tubes and connections)

KNIGHT HEAVY-DUTY DYNAMICS

Similar to the Knight Auditoryum Dynamics described above, but power handling ability is 25 watts. With 8 ohm voice coils.

E12477, Knight Heavy-Duty 12" Dynamic. 1000-ohm Field.

$8.29

E12478, Knight Heavy-Duty 12" Dynamic. 2500-ohm Field.

$10.95

EACH $8.29

E21397, Line transformer 88c

E21399, Output transformer 88c

E12485, Knight 12" P.M. Speaker. Normal rating. 18 watts.

$6.67

E21296, Line transformer 88c

E21295, Output transformer 88c

E12486, Knight 12" P.M. Speaker. Normal rating. 25 watts.

$7.86

E21397, Line transformer 88c

E21394, Output transformer 88c

P.M. SPEAKER CABLE

Round flexible weather-proof cable. No. 18 (15-350) stranded wire conductors, each rubber-covered and coded, with cotton wrap and outer live rubber sheath, high quality; built to last.

E2435, 2 CONDUCTOR, 100 FT. $2.95 

PER FT. $0.03

FIELD EXCITER

A useful field supply unit, using a type 30 tube as a rectifier. For converting a field supply for A.C. operation. Furnishes 15 watts under normal load. 25 watts reduces hum. With 110 volt A.C. cycle transformer. Size 3-3/8" x 1-1/2" high. Wt. 5 lbs. Listed tube E9489. YOUR PRICE $2.94

HEAVY-DUTY DYNAMICS

15 INCH SPEAKERS

Famous UTAH SPEAKERS

HEAVY-DUTY DYNAMICS

These 12-inch D.C. Dynamic Speakers are especially designed to handle all heavy-duty requirements in the P.A. field with true high-fidelity reproduction. The completely enclosed cone suspension excludes dust and dirt. Conservatively rated at 15 watts normal input, 45 watts distorted output. Handle peaks of 25 watts. Voice coil impedance 8 ohms at 400 cycles. The average field requires 15 watts excitation. Supplied less transformer. See listing below for suitable line and output transformers. Average shipping weight is 14 lbs each.

E12530, Type F12-2, 6 Volt. Normal input 18 watts. Cone size 12". Normal output 2500 ohms. Each $6.03 A.C. MODEL $10.44

E12534, Type F121AC. For 120 Volt Cycle A.C. Line 80 ohms. Set.

UTAH SUPER-DYNAMICS

These Utah 12 inch Super-Dynamic Speakers are particularly noted for their faithful frequency response over the entire audible range. They are designed to handle 18 watts with any trace of distortion and will easily handle peaks of 25 watts. The pole pieces are 1-1/2' in diameter. Voice coil impedance is 8 ohms at 400 cycles. The recommended field excitation is 18 watts. Speakers are supplied less transformers. See listing below for suitable line and output transformers. Shipping weight is 15 lbs each.

E12466, Type G12-10, 1000 Ohms. Net. $9.85

E12467, Type G12-15, 2500 Ohms. Net. $9.85

UTAH 15-INCH ELECTRO-DYNAMICS

One of the finest, most efficient stadium-type speakers available today. The extremely wide frequency range is achieved by the use of a newly developed magnet. The entire driver unit assembly is completely covered for protection against dust and rain. Perfect for use in any outdoor installation. These units equal or surpass the performance of equipment used in any of the largest and most modern stadiums today. For your real high fidelity public address system. Write for complete listing.

E12468, Type G12-15. 20 watts normal input. 35 watts peak. 2500 ohm field voice coil impedance. 8 ohms. Requires 18 watts field excitation. Less output transformer.

Ship. wt., 18 lbs.

$13.29

E12469, Type H15. 30 watts normal input. 45 watts peaks. 2000 ohm field voice coil impedance. 8 ohms. Requires 25 watts field excitation. Less output transformer.

Ship. wt., 19 lbs.

$15.58

HIGH-FIDELITY PERMO-DYNAMIC SPEAKERS

These P.M. speakers represent the latest word in Permanent Magnet design and cannot be treated or treated. Extremely high efficiency and sensitivity are achieved through use of newly developed magnets. The entire permanent magnet assembly is completely covered for protection against dust and rain. Will assure you of the finest real hi-fi reproduction, conservatively rated. Less output transformers.


$5.14

E12471, Type H15P. Normal input, 18 watts. Cone size 12". Voice coil, 80 ohms. Ship. wt., 6 lbs.

$5.29


$9.70


$12.49

E12474, Type H15P. Normal input, 30 watts. Cone size, 12". Voice coil, 80 ohms. Ship. wt., 17 lbs.

$19.40


$21.46

UTAH SPEAKER TRANSFORMERS

The output transformers listed below are designed to couple single or push-pull power tubes to an 8 ohm voice coil. The line transformers have primary tapped at 500, 1000, 1500, and 2000 volts and for any voltage up to 2000 volts. Secondaries for 8 ohm voice coils. These units are ardently constructed and will stand full rated load without distortion. Line transformers permit accurate matching of several transformers to 500 ohm line for multiple speaking installations. Listed are supplied on speakers.

E12535, Output. Ship. wt., 3 lbs.

$1.18

E12536, Output. Ship. wt., 3 lbs.

$1.22

E12537, Output. Ship. wt., 3 lbs.

$1.25

E12538, Output. Ship. wt., 3 lbs.

$1.29

E12539, Output. Ship. wt., 3 lbs.

$1.33


$1.37

E12541, Line. Ship. wt., 3 lbs.

$1.41

E12542, Line. Ship. wt., 3 lbs.

$1.45

E12543, Line. Ship. wt., 3 lbs.

$1.49

We can supply all UTAH Speakers made. Write for Catalog.
Jensen Bass Reflex Peri-Dynamics

Another exclusive Jensen development. Models KM and KV speakers reproduce the Peri-Dynamic principle using a newly-developed "Bass Reflex" feature. Acoustically correct enclosures with matched speakers provide clear, wide-range reproduction of the finest type. Eliminates cavity resonance, boom, vibration, and provides better bass frequency response. The type KM have been especially designed for all-around high fidelity requirements. Use KV for voice or speech only. Speakers are supplied with matching transformers. See listings below at right for suitable impedance-matching transformers.

MODEL KM

<table>
<thead>
<tr>
<th>No.</th>
<th>Speaker Used</th>
<th>Size</th>
<th>Weight</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E9630</td>
<td>PM0CS</td>
<td>24&quot; x 17&quot; x 11&quot;</td>
<td>31 lbs</td>
<td>$14.41</td>
</tr>
<tr>
<td>E9631</td>
<td>PM0CS</td>
<td>28&quot; x 17&quot; x 11&quot;</td>
<td>45 lbs</td>
<td>17.82</td>
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<tr>
<td>E9632</td>
<td>PM12C</td>
<td>30 9/16&quot; x 21&quot; x 11&quot;</td>
<td>21 lbs</td>
<td>23.11</td>
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<tr>
<td>E9633</td>
<td>PM12B</td>
<td>30 9/16&quot; x 21&quot; x 11&quot;</td>
<td>66 lbs</td>
<td>33.87</td>
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<tr>
<td>E9634</td>
<td>PM12B</td>
<td>30 9/16&quot; x 21&quot; x 11&quot;</td>
<td>83 lbs</td>
<td>33.28</td>
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<tr>
<td>E9635</td>
<td>A15PM</td>
<td>30 9/16&quot; x 21&quot; x 11&quot;</td>
<td>80 lbs</td>
<td>35.40</td>
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MODEL KV

<table>
<thead>
<tr>
<th>No.</th>
<th>Speaker Used</th>
<th>Size</th>
<th>Weight</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E9637</td>
<td>PM0CS</td>
<td>11 3/4&quot; x 9 3/4&quot; x 11&quot;</td>
<td>11 lbs</td>
<td>$9.06</td>
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<tr>
<td>E9638</td>
<td>PM0CS</td>
<td>14 1/2&quot; x 11&quot; x 11&quot;</td>
<td>22 lbs</td>
<td>14.46</td>
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<tr>
<td>E9639</td>
<td>PM12C</td>
<td>14 1/2&quot; x 11&quot; x 11&quot;</td>
<td>25 lbs</td>
<td>20.79</td>
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</tbody>
</table>

Jensen KM Enclosures Only

Particularly recommended for use with Jensen speakers but may be used with other speakers of the correct size.

Cinaudagraph "Magic Magnet" Speakers

These famous "Magic Magnet" speakers have gained an enviable reputation for their fidelity of reproduction. Unique compact design and construction; cone and voice coil are one integral assembly. Voice coil cannot get off-center. Can be used for integral or separate voice output transformer.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Watts</th>
<th>V.C.</th>
<th>Wt.</th>
<th>NET</th>
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</thead>
<tbody>
<tr>
<td>E10401</td>
<td>MA6-8</td>
<td>6&quot;</td>
<td>4.8</td>
<td>6 ohms</td>
<td>2 lbs</td>
</tr>
<tr>
<td>E10411</td>
<td>EB-7</td>
<td>8&quot;</td>
<td>5.8</td>
<td>6 ohms</td>
<td>3 lbs</td>
</tr>
<tr>
<td>E10412</td>
<td>EZ6-10</td>
<td>6&quot;</td>
<td>7.0</td>
<td>6 ohms</td>
<td>5 lbs</td>
</tr>
<tr>
<td>E10413</td>
<td>NZ10-10</td>
<td>10&quot;</td>
<td>10</td>
<td>6 ohms</td>
<td>7 lbs</td>
</tr>
<tr>
<td>E10414</td>
<td>NZ10-15</td>
<td>10&quot;</td>
<td>15</td>
<td>6 ohms</td>
<td>7 lbs</td>
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<tr>
<td>E10415</td>
<td>FY12-12</td>
<td>12&quot;</td>
<td>15-18</td>
<td>6 ohms</td>
<td>16 lbs</td>
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<td>E10416</td>
<td>BW11-12</td>
<td>12&quot;</td>
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<td>43 lbs</td>
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<tr>
<td>E10417</td>
<td>SU11-12</td>
<td>18&quot;</td>
<td>30-35</td>
<td>8 ohms</td>
<td>65 lbs</td>
</tr>
</tbody>
</table>

Cinaudagraph Air Column Units

Utilize the famous Cinaudagraph, permanent-magnet field structure which does away with separate field supplies. Conservatively rated. Supplied with transformer.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Watts</th>
<th>V.C.</th>
<th>Wt.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E10420</td>
<td>PVA</td>
<td>8&quot;</td>
<td>15</td>
<td>6 ohms</td>
<td>8 lbs</td>
</tr>
<tr>
<td>E10421</td>
<td>HWA</td>
<td>10&quot;</td>
<td>22</td>
<td>6 ohms</td>
<td>27 lbs</td>
</tr>
<tr>
<td>E10424</td>
<td>RBA</td>
<td>10&quot;</td>
<td>30</td>
<td>6 ohms</td>
<td>36 lbs</td>
</tr>
</tbody>
</table>

Cinaudagraph Air Column Horns

For use with air column units above. Strongly built to withstand outdoor handling. Cloth covered of spun aluminum.

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Bell</th>
<th>For Unit</th>
<th>Wt.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E10425</td>
<td>110</td>
<td>20&quot;</td>
<td>HWA or SHG</td>
<td>7 lbs</td>
<td>$14.41</td>
</tr>
<tr>
<td>E10425</td>
<td>26&quot;</td>
<td>24&quot;</td>
<td>HWA or SHG</td>
<td>7 lbs</td>
<td>14.82</td>
</tr>
<tr>
<td>E10427</td>
<td>32&quot;</td>
<td>52&quot;</td>
<td>HWA or SHG</td>
<td>11 lbs</td>
<td>31.16</td>
</tr>
</tbody>
</table>

Permanent Magnet Dynamics

The famous Jensen line of improved permanent-magnet dynamic speakers provides a high quality unit for every price. Scientifically designed, and developed in the laboratories of the world’s leading manufacturer of fine reproducers, these speakers are equal in every respect to the finest electrodynamic types. Smaller units are available for small space, voice and reception purposes, or for original installation in any type of radio receiver requiring the highest quality of reproduction. The large units are especially designed for all requirements for full fidelity of reproduction in large radio receivers, Public Address systems, Centralized radio and sound installations. Call systems, etc. Every model is available as less transformer, with adjustable impulse load line to voice coil transformer or with adjustable output transformer. Sturdy frame assemblies are designed to resist vibration and are rust-proof for use under all types of climatic conditions. Correctly balanced and aligned voice coil and cone assemblies are designed for extremely wide frequency range without rattle or annoying resonant peaks. New improved and over size permanent-magnet field assemblies of highly magnetized alloy require no external field supply of D.C. excitation voltage. All models feature extremely high sensitively and overall efficiency. All "A" and "B" models have 6 ohm voice coils; "C" models have 4 ohm voice coil; "D" models have 8 ohm voice coils.

Jensen HIGH-FIDELITY P.M. DYNAMIC SPEAKERS

Highest quality Jensen Permanent Magnet Dynamic Speakers. Especially designed for those installations which require the finest of high fidelity reproduction. Acoustically correct in every detail, these speakers have extended frequency range, greater than the standard Jensen models listed above. Response is exceptionally good up to 7500 C.P.S. Have 8 ohm voies.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Transformer</th>
<th>Output Trans.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM12B</td>
<td>12&quot;</td>
<td>1 PM12B or PM12C</td>
<td>-10</td>
<td>16 lbs</td>
</tr>
<tr>
<td>PM12C</td>
<td>12&quot;</td>
<td>1 PM12C</td>
<td>-10</td>
<td>20 lbs</td>
</tr>
<tr>
<td>PM15B</td>
<td>15&quot;</td>
<td>1 PM15B</td>
<td>-10</td>
<td>20 lbs</td>
</tr>
</tbody>
</table>

New Adjustable Impedance Matching Transformers

Permit accurate matching of one or more speakers to any output circuit or line. Clip terminals for flexible lead to speaker circuits. Variable in steps of 1-4, 7, 10, 14, 18 to inf. db. Permit individual regulation of speaker level in series to any desired. Individual transformer for each speaker. With hum bucking coil and adjustable output transformer, for all tubes. 8 ohm voice coil. Shipp. wt. 14 lbs. An excellent speaker value at our low price.

Jensen Heavy-Duty B12-X

An exceptionally high quality, highly efficient 12" dynamic speaker. Recommended for use wherever high fidelity performance is desired. Curvilinear type cone provides extremely extended high frequency response. Will handle up to 10 watts continuously. With hum bucking coil and adjustable output transformer, for all tubes. 8 ohm voice coil. Shipp. wt. 14 lbs. An excellent speaker value at our low price.

Jensen Level Controls

Constant impedance devices which will control up to 50 watts output power. Ideal for use where a fixed impedance is desired. In steps of 2-4, 7, 10, 14, 18 to inf. db. Permit individual regulation of speaker level in series to any desired. In a series hook. For 2 ohm, 4 ohm, 7 ohm, 10 ohm, 25 ohm, 50 ohm, 100 ohm. Shipp. wt. 9 lbs. Highest quality units of all brands.

Jensen Speakers with a Reputation

Permanent Magnet Dynamics

PERMANENT MAGNET DYNAMICS

The dynamic system is that of the highest order producing a product of the utmost fidelity and reproduction. The Jensen dynamic system is the result of many years of research and development in the field of magnetic reproduction. This system is characterized by a high degree of fidelity, wide frequency response, and low distortion. The Jensen dynamic system is designed to operate with a minimum of distortion and noise, and to provide a natural and pleasing sound. Jensen dynamic systems are available in a wide range of output levels, from very low to very high. They are ideal for use in any application requiring high-quality sound reproduction, such as in theaters, studios, and recording facilities. Jensen dynamic systems are also suitable for use in home stereo systems and are available in a variety of sizes and shapes. Jensen dynamic systems are manufactured using the latest in technology and materials, ensuring high performance and reliability. Jensen dynamic systems are backed by a commitment to quality and excellence, and are used by professionals around the world. Jensen dynamic systems are the preferred choice for those who demand the best in sound reproduction.
**NEW ASTATIC CRYSTAL MICROPHONES**

**MODEL T3 ACORN**
A diaphragm-type crystal microphone with many features. Sewed-type mounting for directional or non-directional positions. Frequency response flat within 5 db. from 30 to 10,000 C.P.S. Output 0.6 db. Acoustic feedback is definitely reduced. Will plug in connector and 25 foot shielded cable. 3/4"-27 thread. 

**UNIPLEX MODEL**

**LAPSE TYPE**
A new diaphragm-lapel type crystal microphone. Ideal for use by soloists and performers. Person moves to move about freely without loss of volume from amplifier system. Only 1/4" in diameter. 3/4" thick. Weighs only one ounce. Output -6 db. with a frequency response flat from 50 to 6,000 cycles. Non-directional. Element is genuine Grafon-Hi-Phon crystal. Supplied with 25 foot shielded cable.

**D2 WATCH CASE MODEL**
Fig. A. A small crystal microphone with good frequency response. Non-directional. Response flat from 50 to 6,000 cycles with rating characteristics to 10,000 cycles. Output -6 db. Case is 3/4"-27 b button microphone. Locking type plug and socket. 1/4"-27 thread. Supplied with shielded 25 foot cable.

**NEW MU MODEL**
Fig. C. New MU-3 has two dual-diaphragm crystal units. MU-4 has four dual-diaphragm units. Provides maximum amplification without feedback. Cannot be overloaded. Tilting head has polarized cable connector. Excellent frequency response. Output -60 db. Self-locking type tilting head. 1/4"-27 thread. Has 25 foot shielded cable.

**R.C.A. TWO BUTTON CARBON MIKE**
Genuine R.C.A. quality. R.C.A. home recording equipment. Similar as used in R.C.A. home recording equipment. Suitable for public address work. Impedance is 200 ohms. Output case is 8 x 3 1/2 x 2 inches. Finished in dark brown crackle. With flexible wire. Has lift output level.

**NEW ROCKET MODEL**

**DIAPHRAGM MODEL 70H**
A superior crystal microphone of the diaphragm pressure capactuated type. Output -6 db. 1/4"-27 thread. Has new side-wire-electrode and connector plug. 1 inch in diameter. 1/4" thick. Supplied complete with 7 foot shielded rubber covered cable.

**SHURE ULTRA WIDE-RANGE CRYSTAL MICROPHONE**
These Shure microphones provide reproduction from 30 to 10,000 cycles. Output -53 db. Crystal is moisture-sealed. All models have 1/4"-27 thread and 25 foot cable. Supplied with 25 foot cable.

**NEW TYPE "TRI-POLAR"**
A new mike having three directional characteristics means by means of a 3-point pickup. Directional, wide-angle front pickup 45-55 db. Bidirectional pickup from front and back, dead at sides, or Non-directional: 250 degree pickup. Response from 30 to 10,000 cycles. New Satin-chrome case 7/16" high, 1/4" capacity. 1/4"-27 thread. Wt. 2 lbs. Supplied with new cable receptacle and 25 foot cable.

**DYNANIC MICROPHINE**

**LAPEL MIKE MODEL "W"**
Extremely small and economical lapel crystal microphone. Completely dependable. For use in inter-office systems, de-tectaphones, P.A. systems, etc. Approved by 200 Ohio's. Can be used with low-gain amplifiers. Will provide maximum efficiency when used with high impedance, 0000 ohms. Amplifier. Output level: 30 db. Exclusively enclosed in metal case, 1/4" thick. 

**LATEST SHURE CRYSTAL MICROPHONES**

**NEW ROCKET MODEL**
Large 1/2"-28 thread. 25 foot shielded cable. 

**DIAPHRAGM MODEL 70H**
Large 1/2"-28 thread. 25 foot shielded cable. 

**NEW TYPE "TRI-POLAR"**
Large 1/2"-28 thread. 25 foot shielded cable. 

**NEW CRystal MICROPHONE**

**LAPEL MIKE MODEL "W"**
Extremely small and economical lapel crystal microphone. Completely dependable. For use in inter-office systems, detectaphones, P.A. systems, etc. Approved by 200 Ohio's. Can be used with low-gain amplifiers. Will provide maximum efficiency when used with high impedance, 0000 ohms. Amplifier. Output level: 30 db. Exclusively enclosed in metal case, 1/4" thick. 

**SINGLE BUTTON HAND MIKE**
CARRIERS MICROPHONES

**MODEL 618-D**
An exceptionally high-quality dynamic microphone. This mike requires no field excitation; magnets are of aluminum-nickel iron. May be used for close-talking work. Condenser pickup makes it suitable for use in Broadcast Stations, Recording studios, etc. Response is flat from 30 to 10,000 C.P.S., output level: 60 db. Spherical adjustment for directional or non-directional angle of pickup. With mounting screw and cable plug. Less enjoy.

**E3948.** 30 Ohms Impedance, $35.28. 
**E3949.** 200 Ohms Impedance, $40.28.

**BRUSH MICROPHONES**

**VIBRATION PICKUP**
A genuine crystal-type vibration pickup which can be used for musical instruments; industrial variable study; vibration and noise measurement; wireless and cable plug. Exceptionally flat frequency response; high output level. High impedance type; can be used with any high-gain amplifier. Case is aluminum. With 20 foot cord.

**E1213.** List, $25.00, NET, $16.70.

**AMERICAN DYNAMIC MICROPHONES**

**TYPES D7-D7T**
A rugged general-purpose dynamic microphone with wide frequency response. Output level is 60 db. Standard pickup design for installations where background noise and feedback must be controlled. Chrome finish. High gain amplifier. Equipped with plug and screw type connector. Output, 60 db. Has built-in 50 ft. pickup with wide frequency range. Equipped with plug and screw type connector.

**E2535.** BR 2, NET, $17.35.

**MODEL D-9**
New, uni-directional dynamic microphone designed for use wherever extreme high quality reproduction is required. Semi-directional sound. Will reproduce all types of voices or music with background noise and feedback reduced to a minimum. Uses Alnico permanent magnets; no polarizing voltage required. Response, 30 to 10,000 C.P.S. Output, 60 db. Impedance, 70 ohms. Frequency response, 10,000 C.P.S. at a level of -27 db. Supplied with 25 foot cable and connector plug.

**E2356.** List, $52.92.

**MODEL D-3**
An audio-type high-frequency dynamic microphone designed for use wherever extreme high quality reproduction is required. Semi-directional sound. Will reproduce all types of voices or music with background noise and feedback reduced to a minimum. Uses Alnico permanent magnets; no polarizing voltage required. Response, 30 to 10,000 C.P.S. Output, 60 db. Impedance, 70 ohms. Frequency response, 10,000 C.P.S. at a level of -27 db. Supplied with 25 foot cable and connector plug.

**E2356.** List, $52.92.

**MODEL D-9**
An all-purpose dynamic type microphone especially suited to installations having abnormal sound conditions. Output, 60 db. Uni-directional sound, with lifting bracket to 4" 27 thread. Finished in chrome. Size: 3 3/4" o.d. 2 1/4" i.d. Finished in chrome. High output, 84 db. with 25 foot cable and plug. Used in studio installations.

**E2355.** D 3, 60 Ohms, $30.58.

**E2355.** D 9, $29.05.

**E2355.** D 1, High Impedance, $22.05.

**WESTERN ELECTRIC DYNAMIC MIKE MODEL 631A**
A genuine Western Electric dynamic type microphone of the well-known "Shaker" type. Same as used in leading broadcast and Communication radio stations. Recording studios, etc. Developed by engineers of the Western Electric. A T. N. E. and Bell laboratories. Suitable for use with microphone amplifiers. Small and compact in size; only 1 1/2" o.d., 2" in diameter. Exceptionally flat frequency response from 40 to 10,000 C.P.S. Model 63A will reproduce all types of voices or music with crisp, natural tone quality. Type 8A may be used with standard microphone amplifiers. Less stand, 25 foot cable, and plug.

**YOUR NET PRICE**
**E9886.** Type 2A Floor Stand. NET, $15.25. 
**E9887.** Type 0 Directional Stand. NET, $15.25.

**E9888.** Type 8A Directional Plate. 1.45

**E9889.** Type 3A Swivel Attachment. NET, $3.15.
AMPERITE VELOCITY MICROPHONES

ACOUSTIC COMPENSATOR VELOCITY MODEL
A complete line of highest quality velocity microphones that fill every requirement for high fidelity voice reproduction. The Acoustic Compensator is extremely valuable in adapting the microphone to varying acoustic conditions. Raise the slide to increase high frequencies; lower the slide to increase low frequency response. These new Amperite velocity microphones are heavy case metal finish: hand-hammered ribbons; genuine Amperite Acoustic Compensator. With built-in switch and 25' feet of rubber-covered shielded cable. On-off switch in base of microphone and shielded cable. Live microphone shock absorber. Available in chrome-finished cases at no extra charge. Specify when ordering.

MODEL RB3K
E2544. Same as Model RB3K, but left-handed type. 1000 ohms. With switch and 25' cable. List $19.60.
E2546. $24.70
NET EACH OF ABOVE

STANDARD MODEL RAL

MODEL RALH
E2547. Identical as Model RAL, but with high impedance type. 2000 ohms. With 12' cable. $12.94

STUDIO VELOCITY TYPE

MODEL ACCH
E2311. SKH. Home Model. Range 600-2000 C.P.S. With 20' cable. $10.06
E2312. SKH. With foot-pedal volume control. $11.76
E2313, KTH, Precision Model. Range 40-9000 C.P.S. With 25' cable. $12.94
E2314. KTH, With foot-pedal volume control. $17.64

AMPERITE CONTAK MICROPHONES
For use with string type musical instruments. Can be attached to most radio sets or to any amplifier. Will provide natural reinforcement without peaks or resonant rattle. Excellent high fidelity quality and volume of tone. Except for string type frequency response. Assembled in a two-section metal case. Separate volume control permits unusual tonal effects. Supplied with cable.

E2311, SKH. Home Model. Frequency range 600-2000 C.P.S. With 20' cable. $10.06
E2312, SKH. With foot-pedal volume control. $11.76
E2313, KTH, Precision Model. Range 40-9000 C.P.S. With 25' cable. $12.94
E2314. KTH, With foot-pedal volume control. $17.64

KNIGHT CARBON MICROPHONES
STREAMLINE 2-BUTTON STANDARD 2-BUTTON
Modern streamline design. This fine double-button carbon microphone has a frequency response from 40 to 8000 C.P.S. Impedance 200 ohms per button. Both buttons are dependent on live rubber. Equipped with rubber shock absorber. $12.41
E2644, NET. $4.41
E2643. With desk stand and 25' cable NET. $5.29

KNTIGHT MICROPHONE STANDS
E10550. Fig. A. Chrome finished telescopic stem with gray crinkle finish base. Adjustable from 41 to 72' to 72'. Threaded 1/2 -27. Has positive locking collar and heavy cast base. Shpg. wt., 17 lbs. NET. $3.95
E10551. Fig. B. Deluxe Type. Base and telescopic stem finished in polished chrome. Adjustable from 47 to 72'. Threaded 1/2 -27. Shpg. wt., 18 lbs. NET. $4.95
E10552. Fig. C. Three Section Telescopic Type. Base and sections finished in attractive black rubber. Positive clutches. Adjustable from 25 to 65 inches. 1/2 -27 thread. Shpg. wt., 17 lbs. NET. $4.45
E10553. Fig. D. Deluxe Collapsible Type. Base and sections take-down stem finished in polished chrome. Ideal for portable work. Use as boom or floor stand. 20' to 59'. Octagonal. Shpg. wt., 6 lbs. NET. $2.25
E10554. Fig. E. 3 Way Mike Stand, can be used as desk stand, hand type, or suspension type. Consists of: 1 -base, 1 -6' chrome stem, 1 - Mike handle, and 1 - Suspension link. Shpg. wt., 6 lbs. NET. $2.25
E10555. Fig. F. Carbon Microphone Ring. 61/4' diameter. Chrome. Finished with 8 springs. For use with all carbon microphones. Threaded 1/2 -27. Shpg. wt., 3 lbs. NET. $1.47
E10556. Fig. G. Detachable Microphone Handle. Makes any microphone a handheld for portable use. Spindle threaded 1/2 -27. Overall length, 5 lbs. 11 lbs. NET. 25c
E10557. Mike Stand Adapter. For old type microphones. Chrome-plated. Bottom, 3/4 -27 female; top, 3/4 male pipe thread. NET. 29c
E1058. Mike Stand Adapter. For old style Amperite, R.C.A., and Universal microphones. Bottom is 3/4 -27 female; top is 3/4 male pipe thread. NET. 29c

MICROFONERS EXTERNAL INPUT
Balance knob for controlling low impedance microphones to high impedance input.

E6919. $2.94
E6060. Single button type. Shielded. Flexible wired leads. NET. 25c
E6061. Double button type. NET. 15c
EACH. 1.32

COUPLING TYPE
E6050. Single button type. NET. 25c
E6051. Double button type. NET. 25c

2-BUTTON TYPE
E6050. Single button type. NET. 25c
NET. 25c

BANQUET & DESK STANDS
E10559. Fig. A. Crystal Mike Desk Stand. Chrome finished 10' high. Base finished in polished chrome. 3/4 -27 thread. Shpg. wt. 6 lbs. NET. $6.12
E10561. Fig. B. Carbon Mike Desk Stand. Height overall, 10'. Has 5/4' ring. With 8 mike springs. Finished in black varnish. 4 lbs. NET. $1.32
E10560. Fig. C. Adjustable Banquet Stand. Telescopic two section stem and base finished in polished chrome. Adjustable from 16' to 27'. Threaded 3/4 -27. Wt. 6 lbs. A deluxe stand in every detail of design and construction. NET. $3.45

E3918. $2.06
**FINEST QUALITY MICROPHONE ACCESSORIES**

**HIGH GRADE MIKE & SPEAKER CABLE CONNECTORS**

**CHASSIS TYPE**

For use in chassis equipment where reliability is of utmost importance. All conductors are shielded with special woven braid. Connection with chassis or speaker equipment is made by means of brass or copper nuts or screws. Figs. 19, 20, 21.

**SHIELDED TYPE**

Polished chrome-finished horns from microphone or music cable connectors. Threads: M 0.08. Fig. 22. 322-950. 25c each.

**Cable Type Plugs**

- E1965. T. PLONG. 59¢
- E1666. T. PLONG. 65¢
- E1667. T. PLONG. 65¢
- E1668. 3 CONTACTS. 65¢
- E1669. 2 CONTACTS. 65¢

**SHIELDED PLUGS & JACKS**

Fully insulated standard 2 and 3 circuit plugs and jacks. Nickel-plated brass barrel. 2 CIRCUIT E6666. PLUG. NET EACH. 59¢

**3 WAY MIKE PLUG AND JACK**

For use in any two or three conductor mike input circuit. High quality plug has bakelite handle. Long jack has phosphor-bronze springs for loss-less contact. Jack mountings of fine die cast construction. E6956. PLUG. 40c.

**WEATHERPROOF CABLE**

May be used outdoors without break-down or leakage of the inner conductors. Conductors are individually insulated by individually rubber-covered; full cotton covering; completely shielded; covered with heavy rubber. CAT. NO. FT. FEET.

- E3514. 2 $3.75 50c.
- E3515. 3 3c 1.75.
- E3516. 4 8c 4.25.

See page 140 for additional cable listings of all types.

**MIDGET JACK**

Three contact microphone jack to fit E8957 plug at NET 21c.

**PORTABLE JAC**

Fully insulated. Fits E8957 plug at head of microphone. Jack fits to black molded bakelite. Screwed to be threaded to hold wire securely. E8960. 35c.

**MIKE STAND REDUCERS**

Four size cord reducers, for every requirement. Top: Mike Stand. E7293. ⅛ pipe, 27c.

**MIKE STAND SWIVELS**

Permit tipping microphone to angle of maximum pickup. E7585. ⅛ pipe to 21c.

**NEW SHURE PHONOGRAPH PICKUPS**

**NEW "ECONOMY" CRYSTAL**

A small compact crystal pickup that moments in minimum space. Especially recommended for compact record players and for modernizing obsolete recorders and combinations. Plays 10" and 78 records. Has balanced-tackling, needle-tip feature, triple moisture sealed crystal, rubber-cushioned plug-in, and modern streamlined housing. All the pickup trouble to be found in older models. E8951. Safety-Pin Clasp Type. NET 8c. Use covers. Fits tubing up to 1/4" diameter. NET 15c.

**"ZEPHYR" CRYSTAL**

A crystal pickup with uniform frequency response from 50 to 10000 C.P.S. resulting in brilliant reproduction of all types of records. A high frequency: can be connected directly to grid. Needle-tip angle keeps needle tangent to and centered in record groove. Needle pressure is only 30 oz., making maximum weight and greatly reduced surface noise. In attractive new black molded bakelite housing 11½ long. Equipped with socket insert to fit 100110. NET 21c.

**TRANSCRIPTION TYPE**

High fidelity crystal type pickup for record reproducing equipment. Designed to meet the latest requirements for high quality reproducing of records in Paragon. Shure needlebridge assures proper tracking of needle to groove at tip-back test for rapid easy needle changes. Needle pressure is only 20 oz. Arm locks automatically when swing back.

- E7528. Model 99C. $5.88
- E7529. Model 99CW. $5.88

**MIDGET JACK**

Three contact microphone jack to fit E8957 plug at NET 21c.

**PORTABLE JACK**

Fully insulated. Fits E8957 plug at head of microphone. Jack fits to black molded bakelite. Screwed to be threaded to hold wire securely. E8960. 35c.

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**MIKE STAND SWIVELS**

Permit tipping microphone to angle of maximum pickup. E7585. ⅛ pipe to 21c.
NEW WEBSTER PHONOGRAPH PICKUPS

STREAMLINE MAGNETIC
A true high-fidelity magnetic pickup of advanced design. Vertical bearing permits lifting of arm past vertical center for rapid easy needle changes. Correctly damped to eliminate resonance peaks and to smooth out the frequency response. Output: 2.5 volts at 10,000 C.P.S. Impedance: 18,000 ohms. Length: 9/16". net $470.

STREAMLINE CRYSTAL
Tapered stylus and correct balancing contribute to the increased frequency response of this high-fidelity unit. Variation-free bearings and correctly damped assembly eliminate resonance peaks. For all 10" or 12" records. net $588.

NEW STANDARD CRYSTAL PICKUP
New-in performance and in styling, this crystal pickup has excellent frequency response. Impedance: 30,000 ohms; output: 2.5 volts at 10,000 C.P.S. House in carved walnut case. net $427.

DELUXE CRYSTAL PICKUP
Similar in appearance to Standard model directly above, but with extended frequency range for full high-fidelity reproduction. Impedance: 40,000 ohms, output: 2.5 volts at 10,000 C.P.S. Houses in carved walnut case. net $522.

LATEST ASTATIC CRYSTAL PICKUPS

NEW KNIGHT PICKUPS

CRYSTAL PICKUP
Type A. An accurately balanced, high-impedance, high-output type crystal pickup at a exceptionally low price. Has triple-sealed crystal cartridge set at tangent to assure proper needle-tracking for minimum wear and surface noise. Exceptionally wide range for brilliant reproduction. Will play all 10" to 12" records with remarkable total fidelity. net $3.85.

MAGNETIC PICKUP
Type B. An outstanding value in a high-quality high-impedance magnetic pickup. Combines high-fidelity performance with attractive appearance. Designed to give maximum output over an extremely wide frequency range. Accurately balanced for minimum needle pressure. Suitable for all types or record playing equipment. Plays all 10" to 12" records. net $3.95.

RCA-VICTOR CRYSTAL PICKUPS
Fig. A. De Luxe Model. A new development from the famous RCA laboratories. Used in many of the expensive RCA phonograph combinations. Features: top needle-loading for quick, easy needle changing. Has offset crystal cartridge, rubber-cushioned arm has ball-bearing mounting. Finished in brown walnut with RCA chrome trim.
E7623. RCA 1418A. List, $14.95. net $8.97.
E9493. Senior Model. RCA 9647. Similar in appearance to above, but without chrome trim. Has top needle-loading and automatic return. List, $6.95. net $4.47.
E9492. RCA 9648. Needle Box and Pickup Rest for Senior Pickup. net 45c.

Type B. Junior Model. Another new RCA crystal pickup at a exceptionally low price. Impedance at 1000 cycles is 100,000 ohms. Frequency response is 50 to 10,000 cycles. The offset needle position assures true-tracking. Pickup arm is notched. Needle pressure only 2.5 grams.
E9494. RCA 9642. List, $4.95. net $2.27.

RCA-VICTOR PICKUP HEADS
E9496. RCA 9676. Exact duplicate for RS45 and RS75. 400 ohms. net $3.90.
E9520. pickup model. 341. impedance 30 ohms. net $3.30.
E1279. New Pickup Transformer. 30 ohms. net $2.20.

FOREIGN RECORDS
Popular selections of foreign language recordings. All new records, no seconds or rejects. 252 of 25 assorted, your special price $2.25.

STANDARD MODELS
These highly efficient phonograph pickups will fill almost all requirements for high-quality record reproduction at moderate cost. Attractively modern in styling, accurately balanced to exert correct needle pressure on record, constructed of highest quality materials for longest performance. Especially suitable for modernizing obsolete phonograph and radio-phone combinations.

MAGNETIC MODELS
An improved magnetic type pickup capable of clear, true reproduction of all standard 78 or 33'/2 R.P.M. records. Will reproduce extended frequencies on both bass and treble for brilliant effect. One-time unit. Play all records up to 12" size. Standard for service 900 ohms.
E2290. Less Volume Control. YOUR PRICE $5.05.
E2291. With Volume Control. YOUR PRICE $5.65.

HIGH IMPEDANCE MODELS
Similar to standard impedance model above, but 36,500 ohm impedance. High output type for use with any low-gain amplifiers.
E2292. Less Volume Control. YOUR PRICE $5.65.
E2293. With Volume Control. YOUR PRICE $6.05.

CRYSTAL STANDARD TYPE MODELS
Standard type. An excellent crystal pickup for use wherever true reproduction is a necessity. Wide range from 30 to 7000 C.P.S. Provides brilliant true tone response.
E2296. Less Volume Control. YOUR PRICE $6.46.
E2295. With Volume Control. YOUR PRICE $7.06.

HIGH FIDELITY TYPE
Improved crystal pickup for current installation. Response flat to 5000 C.P.S. Impedance 30,000 ohms.
E2300. Less Volume Control. YOUR PRICE $7.50.
E2301. With Volume Control. YOUR PRICE $8.06.

LATEST ASTATIC CRYSTAL PICKUPS

RCA-VICTOR PHONOGRAPH NEEDLES

E7619. S.tone. 100 to pkg. net $0.17.
E7620. Perm-point Needle 100 to pkg. net $0.50.
E7600. Pkg. per pkg. net $0.30.
E7601. Needle Cup net $0.50.

POPULAR RECORD ASSORTMENTS

CARTON OF 25 DOUBLE-FACED RECORDS
Famous brands American records at real savings. All are records by famous artists, dance orchestra, and bands. Because these assortments ship as already packed, we cannot determine what titles are in each assortment. Many are current popular numbers. New, 13 lb., Carton of 25 Assorted. YOUR SPECIAL PRICE $2.25.

FOREIGN RECORDS
Popular selections of foreign language recordings. All new records, no seconds or rejects. 252 of 25 assorted, your special price $3.50.

LATEST ASTATIC CRYSTAL PICKUPS

RCA-VICTOR PHONOGRAPH NEEDLES

E7600. Perm-point Needle 100 to pkg. net $0.50.
E7601. Needle Cup net $0.50.

FOREIGN RECORDS
Popular selections of foreign language recordings. All new records, no seconds or rejects. 252 of 25 assorted, your special price $3.50.

LATEST ASTATIC CRYSTAL PICKUPS

RCA-VICTOR PHONOGRAPH NEEDLES

E7600. Perm-point Needle 100 to pkg. net $0.50.
E7601. Needle Cup net $0.50.

FOREIGN RECORDS
Popular selections of foreign language recordings. All new records, no seconds or rejects. 252 of 25 assorted, your special price $3.50.
HEAVY-DUTY RECORDING MOTOR
A heavy-duty double motor and turntable for 78 and 33 1/3 R.P.M. recording and playback. Has constant speed, governor-controlled, induction motors. Silent performance is assured by spiral-cut gears running sealed in oil, oversize self-lubricating bearings. Just the turntable to use with high-grade recording and playback equipment. Ideal for recording with any head on either blank or pregrooved discs. Supplied with speed shift lever, speed regulator, hardware and weighted 12" turntable.
E10076, Same heavy-duty motor as above, but with 16" balanced cast-aluminum turntable. NET $30.85 YOUR SPECIAL PRICE... $20.10

KNIGHT SPECIAL VALUE MOTOR
An unusual value in a high-quality, inexpensive phonograph motor. No record machine along advanced principles for long life. Absolutely dependable and quiet in operation. Constant speed, self-starting motor is fully enclosed for complete protection from dust, dirt, etc. Will maintain constant speed regardless of line voltage fluctuations. Single speed, 78 R.P.M. Has balanced 12" turntable covered with felt. Motor assembly can be quickly and easily mounted on wood or metal panel. Ideal for modernizing old phonograph equipment. Operates from 110 volt, 60 cycle alternating current. NET E10070. List. $12.75.

DEAGAN CHIMES
Produces four, perfectly pitched, full body,8-feet long chimes housed in a felt-covered box. Whole set sounds three times in one minute. Each chime sounds a different note. Operates from 110 volt AC. NET E7330. List. $3.50. NET $4.80

STROBOSCOPE
E7331, 6-lamp. Checks turntable speed at either 78 or 33 1/3 R.P.M. on any phonograph motor. 12c

RCA RK24 PHONO OSCILLATOR
Designed to insure good phonograph reproduction even with practically any set. May be used with any electrical pickup and can be connected in a few minutes. No changes in the set. Leads are arranged to slip under turntable protract of radio set. Requires 6.3 volt battery, or 6V 1.5 volt set. 2.5 volt set. NET E9497. List. $5.75. NET $5.85

ALLIED OFFERS A COMPLETE SELECTION OF RECORDING EQUIPMENT

UNIVERSAL 110 VOLT AC-D.C.
A single-speed motor for use on 110 volt AC-D.C. line. Operates at 78 R.P.M. With 12" turntable and AC-D.C. switch and mounting hardware. NET E10073. List. $19.75. NET $18.50

DUAL SPEED UNVERSAL
Plays 78 or 33 1/3 R.P.M. records. Operates at constant speed from 110 volts AC or D.C. Supplied complete with 12" felt-covered turntable, speed control, and change levers. AC-D.C. switch, and mounting hardware. NET E10069. List. $22.50. NET $21.35

SPEED Payments: As above, with 10" turntable and all hardware. NET E10074. List. $24.50. NET $23.40

WEIGHTED 12" TURNABLE
For 33 1/3 R.P.M. instead of standard 78 R.P.M. turntable. Unit is 12" in diameter, and ready for operation anywhere that 110 volts, 60 cycle, AM is available. Complete with record orPlayback case, coupling. AM, speaker, AC-D.C. switch, and mounting hardware. NET E10085. List. $25.95. NET $24.70

Automatic Stop. For use with any of the Green Flyer motors above. NET E7624. NET 90c

FEDERAL PT-12 RECORDER
A complete portable recorder that will fill the requirements of Schools, Broadcast stations, Advertising Agencies, etc. Completely self-contained, and ready for operation anywhere that 110 volts, 60 cycle, AM is available. Consists of portable carrying case with built-in recording turntable, amplifier, record player, speaker, and microphonc. With 4" high-strength crystal type microphone, unit is complete with 10" turntable, 1000 cycle range, and 10,000 cycle range. Complete recorder, operating with 110 volts, AM, with carrying case. NET E10342. List. $98.00. NET $90.25

2 SPEED 78-33 1/3 R.P.M.
A heavy-duty motor suitable for all records and transcription-playing requirements. Will play all standard 78 or 33 1/3 R.P.M. records. Fully enclosed gears in oil, dust-tight. With 12" turntable, speed control, speed change lever, and hardware. For 110 volts, 60 cycles. NET E10072. List. $17.50. NET $16.30

"Green Flyer" MOTORS

SINGLE SPEED 78 R.P.M.
Heavy-duty governor-controlled induction type motor. Has dual belt-drive. Has built-in record changer. 78 R.P.M. Has spiral-cut laminated gears sealed in oil. With 12" felt-covered turntable and record changer. All necessary hardware supplied. NET E10070. List. $15.00. NET $13.75

2 SPEED 78-33 1/3 R.P.M.
A heavy-duty motor suitable for all records and transcription-playing requirements. Will play all standard 78 or 33 1/3 R.P.M. records. Fully enclosed gears in oil, dust-tight. With 12" turntable, speed control, speed change lever, and hardware. For 110 volts, 60 cycles. NET E10072. List. $17.50. NET $16.30

UNIVERSAL 110 VOLT AC-D.C.
A single-speed motor for use on 110 volt AC-D.C. line. Operates at 78 R.P.M. With 12" turntable and AC-D.C. switch and mounting hardware. NET E10073. List. $19.75. NET $18.50

DUAL SPEED UNVERSAL
Plays 78 or 33 1/3 R.P.M. records. Operates at constant speed from 110 volts AC or D.C. Supplied complete with 12" felt-covered turntable, speed control, and change levers. AC-D.C. switch, and mounting hardware. NET E10069. List. $22.50. NET $21.35

SPEED Payments: As above, with 10" turntable and all hardware. NET E10074. List. $24.50. NET $23.40

WEIGHTED 12" TURNABLE
For 33 1/3 R.P.M. instead of standard 78 R.P.M. turntable. Unit is 12" in diameter, and ready for operation anywhere that 110 volts, 60 cycle, AM is available. Complete with record orPlayback case, coupling. AM, speaker, and microphonc. With 4" high-strength crystal type microphone, unit is complete with 10" turntable, 1000 cycle range, and 10,000 cycle range. Complete recorder, operating with 110 volts, AM, with carrying case. NET E10085. List. $25.95. NET $24.70

Automatic Stop. For use with any of the Green Flyer motors above. NET E7624. NET 90c

FEDERAL PT-12 RECORDER
A complete portable recorder that will fill the requirements of Schools, Broadcast stations, Advertising Agencies, etc. Completely self-contained, and ready for operation anywhere that 110 volts, 60 cycle, AM is available. Consists of portable carrying case with built-in recording turntable, amplifier, record player, speaker, and microphonc. With 4" high-strength crystal type microphone, unit is complete with 10" turntable, 1000 cycle range, and 10,000 cycle range. Complete recorder, operating with 110 volts, AM, with carrying case. NET E10342. List. $98.00. NET $90.25
KNIGHT PORTABLE RECORDER

The new Knight Portable Recorder has been designed to meet the demand for a high-quality recording equipment that is available at a price everyone can afford. Ideal for school and home use. Will produce uniform results with a minimum of experience in the art of recording. Powered by a 3/60 p. 110 volts, 60 cycle motor, the rim-driven and dynamically-balanced cast-aluminum turntable runs smoothly and silently at 78 R.P.M. without variation. Completely enclosed lead screw of massive construction is finely machined for positive feed and long trouble-free operation. New horizontal magnetic type cutting head has smooth response from 30 to 3,000 C.P.S. without peaks; automatically compensated for low frequencies. Impedance of cutting head is 300 ohms. Exclusive "Dual-Action" control automatically engages drive screw and low-speed driving head, eliminating possibility of damaging stylus or disc. Records on any disc up to 12" diam., cutting 100 lines per inch inside to outside, at 78 R.P.M. Supplied complete with pl's 6-back pickup of the inductively-dynamic type. Housed in leathertex-covered portable case. Descriptive bulletin on request. Less amplifier.

E-18011 SPECIAL NET PRICE $99.50

PRESTO Quality RECORDING EQUIPMENT

MODEL 12-E PORTABLE
An extremely portable high-grade recorder. Designed primarily to fill the requirements of Schools, Advertising Agencies, etc., for high-quality recording equipment at moderate cost. Consists of complete recording and playback equipment in one compact, easily-operated unit. Features heavy 12" turntable, synchronous motor, sturdy overhead assembly, built-in amplifier and 8" dynamic speaker. Grooves and records in one operation on acetate discs up to 12". Records at either 33 or 1/3, R.P.M. Switch on amplifier for recording or playback. Playback is high-frequency magnetic type, built-in volume level indicator. With crystal mic and floor stand or banquet stand. Complete descriptive literature sent on request. For 110 volts, 60 cycles. Wt. 2 lbs.

E-18375. MODEL 16-X. Similar to the Model 12-E above, but records on size acetate disc up to 0.1 inch diameter at either 78 or 33 1/3 R.P.M. Supplied complete with velocity microphone and floor stand. Wt. 3.75 lbs.

$350.00 NET

E-2045. E-12376. "Junior" Recorder, complete. NET

$149.00 Each

E-13380. Same as above but less amplifier. In Walnut case. Wt. 30 lbs.

$98.50 NET

E-14279. Similar to Model 1 SJ but equipped with high-frequency type microphone mounted on adjustable floor stand. For operations from 110 volts, 60 cycles. Wt. 38 lbs.

$164.00 NET

WE CAN SUPPLY all Presto recording equipment not listed here on special order. Many Presto items not listed are carried in stock for immediate shipment. Complete Presto catalog sent on request. For Low Time Payment Terms, See Page 73.

Complete Selection of RECORDING DISCS

ALUMINUM DISCS
Made of hardened aluminum alloy; mirror-polished. Assures maximum volume and life.

PREGROOVED PLAIN
Double-faced discs; recording on both sides. Each
No. Dia. Thickness Wt. Price
E-0805 6" 0.004" 0.09 lb. $1.40
E-0806 6" 0.005" 0.10 lb. $1.50
E-0807 6" 0.006" 0.12 lb. $1.60
E-0808 6" 0.007" 0.14 lb. $2.00

MIRROR ACETATE DISCS

Inexpensive mirror-smooth composition discs.
No. Dia. Thickness Price
E-0814 6" 0.004" $1.45
E-0815 6" 0.005" $1.70
E-0816 6" 0.006" $1.95
E-0817 6" 0.007" $2.20
E-0818 6" 0.008" $2.40

OVERSIZE MIRROR DISCS

No. Dia. Thickness Price
E-0820 11" 0.006" $1.18
E-0821 17" 0.006" $2.42

FEDERAL "PERMA-DISK" DISCS
New Federal "Perma-Disk" disc capable of 200 playbacks when properly cared for. Even with coating on heavy base for greatest reduced surface noise.
No. Dia. Each Per 10
E-0822 6" $1.00 $0.95
E-0823 8" $1.20 $1.10
E-0824 10" $1.75 $1.55
E-0825 12" $2.45 $2.25

FEDERAL "PERMA-BOR" DISCS
Acetate-coated composition board disc. Coated one side only.

Acetate-coated board composition disc. Coated one side only.

PRESTO "GREEN SEAL" DISCS
Heavy aluminum base with mirror-smooth composition coating. The finest recording disc available for professional work. "O" Type.
No. Dia. Thickness Price
E-0834 6" 0.005" $0.40
E-0835 8" 0.005" $0.50
E-0836 10" 0.005" $0.60
E-0837 12" 0.005" $0.70

PRESTO BLACK SEAL DISCS

For mixing master plates where high- quality pressings are required. Only one side can be used.
No. Dia. Thickness Price
E-0838 6" 0.005" $1.25
E-0839 8" 0.005" $1.50
E-0840 10" 0.005" $1.75
E-0841 12" 0.005" $2.00

UNIVERSAL ECONOMY DISCS
New lightweight, low-priced acetate discs. Every coating for reduced surface noise. Excellent frequency response.

SAPPHIRE NEEDLES

Precision-ground and polished, high quality sapphire cutting needles. Have long life and excellent fidelity.

E-2203. Fig. A. Beryllium composition needles. Wt. each. List. $4.00 EACH.

$2.35 EACH

E-2204. Fig. B. For pregrooved aluminum and composition discs. List. $4.00 EACH.

$2.35 EACH

E-2205. Fig. C. For all Acetate or other semi-plastic discs. Price each. List. $5.00 EACH.

$3.50 EACH

E-2206. Fig. A. Bent Shank sapphire. List. $7.50 EACH.

$4.41 EACH

PRESTO GENUINE SAPPHIRE NEEDLES

E-2207. Fig. D. Highest quality recording needles available. Gold-soldered needle points. Mirror-polished. For use on acetate discs. Average life approx. 200 hours. Each. $3.00

E-2207. Fig. D. Same high-quality genuine sapphire needles as E-2207, but with long Shank to fit Presto "Junior" Professional Recording head. EACH.

$3.00

WE RESERVE Presto sapphire needles at $1.65 each.

STEEL CUTTING NEEDLES

Professional type cutting needle, special alloy steel hand-polished to a razor edge. For cutting acetate discs.

E-2208. For all or II. R.P.M.

PACKAGE OF 10, EACH.

$1.76

E-2209. Long Shank steel cutting needle for use in Presto Professional cutting head.

PACKAGE OF 12, EACH.

$2.65

SAPPHIRE RECORDING NEEDLES

E-2204. RCA Victor Steel Home Recording Needles. 26 discs.

PACKAGE OF 8, NET.

$2.50

PLAYBACK NEEDLES

E-2200. Ransom Needle, Pkg. of 100. .55c

E-2201. Kacti Needles, Pkg. of 100. .50c

E-2202. Red-Bank Steel Needles, for playing acetate discs. .092" at point. Package of 100. .50c

E-2203. Railing Shot Needles. .10c

E-2204. "Walco" Sapphire Needle. Lasts for years. EACH.

$1.90

WTR.

$9.02

WTR.

$2.42

WTR.

$3.61

WTR.

$2.00

WTR.

$1.60

WTR.

$1.10

WTR.

$0.90

WTR.

$0.80

WTR.

$0.60

WTR.

$0.50

WTR.

$0.40

WTR.

$0.30

WTR.

$0.20

WTR.

$0.10

WTR.

$0.00
NEW! NATIONAL 600 WATT TRANSMITTER KIT

OST-OST-OST Announcing the newest and latest of modern
transmitter kits for the Amateur. Stop. Designed by
National Co., oldest and most famous builder of high-quality
Amateur equipment. Stop. Power input up to 600 watts phone
at 50 volts, complete with built-in RF and AF channels.

- VFO
- Micrometers
- Controls
- Speakers
- Condensers
- Resistors
- Power Supply
- Transformers
- Modulators
- Keyers
- Keys
- Power Amps
- Preamplifiers
- Accessories
- Antennas
- Masts
- Towers
- Cables
- Connectors
- Feeders
- Hinges
- Latches
- Doors
- Windows
- Shelves
- Racks
- Cabinets
- Panels
- Units
- Kits
- Complete
- Minimum
- Full
- Medium
- High
- Extra-High
- Ultra-High
- Ultra-Ultra-High
- Extra-Ultra-Ultra-High
- Supra-Ultra-Ultra-High
- Octuple-Ultra-Ultra-High
- Quadruple-Ultra-Ultra-High
- Double-Ultra-Ultra-High
- Single-Ultra-Ultra-High
- Fractional-Ultra-Ultra-High
- Fractional-Octuple-Ultra-Ultra-High
- Fractional-Quadruple-Ultra-Ultra-High
- Fractional-Dual-Ultra-Ultra-High
- Fractional-Single-Ultra-Ultra-High
- Fractional-Fractional-Ultra-Ultra-High
- Fractional-Fractional-Quadruple-Ultra-Ultra-High
- Fractional-Fractional-Dual-Ultra-Ultra-High
- Fractional-Fractional-Single-Ultra-Ultra-High
- Fractional-Fractional-Fractional-Ultra-Ultra-High
- Fractional-Fractional-Fractional-Quadruple-Ultra-Ultra-High
- Fractional-Fractional-Fractional-Dual-Ultra-Ultra-High
- Fractional-Fractional-Fractional-Single-Ultra-Ultra-High
- Fractional-Fractional-Fractional-Fractional-Ultra-Ultra-High

Complete Exciter and Speech Amplifier

An ultra-modern exciter unit that provides sufficient RF excitation for any low-

power or medium power buffer stage, plus a 15-watt speech amplifier housed in a 15-watt

exciter and speech amplifier. There are three separate stages: RF, AF, and AM. The RF stage

consists of a crystal oscillator followed by a high-frequency booster, a buffer amplifier, and a

modulator. The AF stage consists of a crystal oscillator, a buffer amplifier, and a modulator.
The AM stage consists of a crystal oscillator, a buffer amplifier, and a modulator.

The exciter unit is complete with all necessary hardware, including a 15-watt power supply,

and is ready for operation immediately. The exciter unit comes with a complete set of

instructions, including diagrams and tables. It is shipped complete, ready for assembly.

Priced at $129.00

NTE-A Complete Exciter-Speech amplifier for operation on 5, 10, 20, and 75

meters. Furnished complete with tubes. In black-wrinkle finish. Shipped

complete with tubes. Shipped complete with tubes. Shipped complete with tubes.

NTE-B Complete Exciter-Speech amplifier for operation on 10, 12, 20, and 75

meters. With tubes. In black-wrinkle finish. Table cabinet.

NTE-C Complete R.F. Exciter unit for use on 10, 20, 40, and 75 meters.

Supplied less built-in Speech Amplifier for those who want a TV. Exciter unit:

10 watts output. With tubes. Shipped complete with tubes. Shipped complete with tubes. Shipped complete with tubes.

NTE-D Complete R.F. Exciter unit for use on 10, 20, 40, and 75 meters.

Supplied less built-in Speech Amplifier for those who want a TV. Exciter unit:

10 watts output. With tubes. Shipped complete with tubes. Shipped complete with tubes. Shipped complete with tubes.

NOTE: All units supplied on order with rack relay panel. Shipped net to you at

$6.00 net added to above prices. Ask for Time Payment details.
THE SKYCHAMPION

Meet the Sky Champion! — a real winner for quality performance—a blue-ribbon champion in its price class. It's "what it takes" to make it a favorite with the Short-Wave DXer and ham chasing peak, directivity hardly expect so much for so little, but your Sky Champion will hold its own with many more expensive sets. Features are: separate band-control, dial, RF and AF gain controls, individual coils for each band, inertia tuning mechanism, Beat Frequency Oscillator, AVC switch, Tone Control, Beat Oscillator, send-receive switch, Pitch Control, Band switch, phone jack, and others. Here too, is continuous tuning in four overlapping bands from 543 KC to 40,000 KC for dependable reception on Broadcast, Amateur and Short-Wave bands. Eight tubes: 1x7K, 6L7, 6J5, 6D7, 6F6, 6G6, and 60. are arranged in a modern circuit which provides maximum selectivity, tone quality and sensitivity. Speaker is built-in—there's nothing more to buy. Signal-to-noise ratio is admirably high. In fact, every way, the Sky Champion is a super-efficient, low-priced receiver that will put a real thrill into SW DX-ing or Amateur operation. It offers you professional styling, conveniently grouped controls, operating flexibility, and above all, precision workmanship and performance that are truly outstanding. For 110 V. 60-60 cycles A.C. Shpg. wt., 34 lbs.

E10651, $25. With Tubes.

NET CASH PRICE.

Time Payments: $1.95 down, 56.33 months for 8 months

THE SKY II

Ever popular in the medium-price class, the Sky Challenger has been particularly successful. The Sky Challenger II incorporates the most amazing contribution to the present-day communications receiver field in years—Infinite Image Selection, completely eliminating objectionable image interference. Providing additional selectivity, and getting a real thrill into your operating or listening. Continuous tuning range covers 545 KC to 38,000 KC in five bands. Exclusive controls include, receiver type main tuning dial; 1000 degree spiral bandspread dial; Iron-Core IF's; Tone Control; Band Selector; Band Spread Control; Crystal Phase control and in-out switch; Beat Oscillator Pitch Control, AF and RF gain controls; AVC switch; phone jack; and many others. Efficient new circuit uses: 1x6K7, 6L7, 6J5G, 607G, 67T, 6F6G, and 60. No other receiver at the price offers so much as the Sky Challenger II. Available with or without crystal filter. Has terminals for 4" meter. For 110 V. 50-60 cycles. Shpg. wt., 4.40 lbs.

E10658, $15. Less crystal and speaker.

NET CASH PRICE.

Time Payments: $1.70 down, 59.33 months for 8 months

E10659, $15. With crystal, less speaker.

NET CASH PRICE.

Time Payments: $1.30 down, 51.93 months for 8 months

THE SUPER-SKYRIDER

Here is a communications type receiver, outstanding in performance, distinct in modern styling, unbelievable in its selectivity, tone quality and sensitivity, and priced so low that you can't appreciate its value until you've operated it yourself. Here is complete, continuous tuning from the top of the Broadcast band down to 5 meters, from 545 to 62,000 KC. A unique dual tuning system makes the Super-Skyrider the easiest tuning receiver you've ever handled. A directly-calibrated six-band dial with automatic band indicator tells at a glance just what portion of the tuning range it's set to receive. The exclusive 1000 degree spiral bandspread dial separates closely crowded stations with astounding ease. Iron-core IF's, stages with Broad and Sharp I.F. expand assures tremendous selectivity, important, too, is the average over-all sensitivity of better than 1 microvolt for all bands! The Super-Skyrider is literally loaded with desirable features. Imagine the ease and flexibility possible with by-wire tuning, AVC on-off switch, beat oscillator pitch control, variable beat oscillator injector, RF and AF gain controls, send-receive switch, phasing control for I.F. crystal stages, pre-amplifier stage, direct-calibrated signal meter, tone control, Broad and Sharp selectivity control, extremely high selectivity, and dynamically-balanced stereo-mechanical bandspread tuning. Bandspread dial covers 1000 degrees in 10 complete rotations of control wheel and is reilluminated. Advanced circuit uses 11 tubes: 6K7-RF, 6L7-1st Det., 6X7-1st IF, 6K-2nd IF, 6K7-2nd Det. — A.C.1-1 Audio, 2-9G-P-P Power Output, 6J5-H.P.O., 6J7-Meter Amplifier, 6L7-B.P.O., and S3Z-Rectifier. The Super-Skyrider fills every requirement for an all-service receiver for communication work or for Short-Wave. It's one of the outstanding communications type receiving sets on the market today—unsurpassed for versatility and dependability. Available in a rugged crystal filter. For 110 V. 50-60 cycles. Shpg. wt., lbs. With tubes.

E10654, $16. Less speaker circuit.

NET CASH PRICE.

Time Payments: $2.90 down, 52.26 months for 8 months

E10655, $16. With built-in crystal filter, less speaker.

NET CASH PRICE.

Time Payments: $1.10 down, 53.74 months for 8 months

E10661, 12" P.M. Speaker. Accurately designed to match the Super-Skyrider both in appearance and performance. Recommended for non-resonant type cabinet. With 5 foot connecting cord. NET PRICE. $12.00.
THE NEW SKYRIDER MARINE

For special communication requirements such as Marine and Aircraft service, but also an ideal receiver for Jewelers, Press stations, and other services which require dependable reception on frequencies from 148 K.C. all the way up to 18.5 Mc. The new Skyrider Marine is a 6-4-6 tube receiver designed especially for the commercial communications superhet. This new receiver is one of the Hallcrafters' finest achievements. For operation from 110 Volts, 50-60 cycles A.C., with tubes and accessories priced at $9.90 net. See 111."5" meter for Skyrider 5-10.

THE NEW SKYRIDER 5-10

This new receiver is specifically designed to render exceptionally efficient performance on the whole amateur band range in two bands from 37,000 K.C. to 68,000 K.C. It is ideal for the Amateur who specializes in ultra-H.F. work, and for Municipal Dept. communications service. Uses new RK 1851 tubes as R.F. amplifier, offering U.H.F. sensitivity of better than 75. Two 1500 K.C. I.F. stages provide a bandwidth of 70 K.C. at 10 times down. This unusual combination of sensitivity and selectivity is only one of the features which make the Skyrider 5-10 outstanding. Other features include: noise silencer; A.V.C. switch; re- receive switch; R.F. and A.F. gain controls; Built-in Frequency Oscillator; Tone Control; Phone jack; built-in speaker, etc. Built-in new 8 tube circuit employs: 1-851, 1-6L7, 1-6J5, 1-6P7, 1-6Q7, 1-6H6, and 1-806. Separate broadcast bandspread dial provides easy, accurate logging and is equipped with inertia tuning control. From every standpoint, the new Skyrider 5-10 is a ruggedly-built communications type receiver.

SARGENT 39 STREAMLINER

An entirely new, moderately priced communication type receiver designed for long-distance reception. Attractive modern styling, coupled with advanced circuit refinements, make this fine receiver an ideal set for the Short Wave DX fan as well as for Amateur communication work. Constructed of the very finest materials, designed to provide maximum efficiency and flexibility of operation. Has four frequency bands covering 9.3 to 550 meters. Has extremely high efficiency on Amateur 8 meter band. Full vision type dial is rear-illuminated and directly calibrated for easy tuning. Incorporates all desirable features such as: Two I.F. stages, Varnier tuning with high ratio drive and extended broadcastband, built-in 5" Jensen Speaker, Headphone jack, C.W. oscillator, A.V.C. built-in hum-free power supply, high-gain Superhet circuit with reduced noise level, modern stem cabinet in black walnut with silver striping etc.

RME MODEL 69 SINGLE-SIGNAL SET

A precision-built communications receiver with an exceptionally efficient circuit. Laboratory-built and tested, aligned and adjusted with the tubes which are included when shipped from the factory. Features: Two calibrated, illuminated dial, shielded output meter, built-in modulation transformer, crystal filter. Panel control of bandwidth permits rapid selection of any frequency band from 550 to 32,000 K.C. Uses five tubes: 1-6K8, 1-6E7, 1-715, 1-42, and 1-80. Antenna input for single wire or doublet line. An unusual high-performance receiver that will satisfy even the most exacting requirements. Yet priced so low that everyone can afford to own it. In its trim professional appearance, as its remarkable performing ability, the new Sargent "Streamliner" is sure to meet with universal approval. For operation from 110-120 volts, 50-60 cycles A.C., with 25 Ft. wire or doublet line. $14.10

DR-8 PRESELECTOR. Frequency range, 550-32,000 K.C. Average signal gain, 20 to 25 DB; rejection ratio approx. 50,000:1. Built-in power supply; input for any antenna. For 110 V, 60 cycles. $42.60

THE POPULAR LOW-COST SKY BUDDY

For the beginning Amateur, the Short-Wave Listener, or the boy in quest of new thrills by way of Short-Wave Radio, the Sky Buddy has always been the outstanding low-cost choice. The new, improved 1939 model offers even greater features, greater performance and greater value. Tuners from 545 K.C. to 18,000 K.C. in three bands, and covers Broadcast, Amateur, and Short-Wave bands. Features are comparable to those usually found only in higher-priced receivers: separate Bandspread dial, Built Frequency Oscillator, solid-receive switch, A.V.C. switch, P.H. control, A.F. gain control, phone jack, etc. Has built-in speaker offering excellent tone quality. The Sky Buddy uses only five tubes-6K8, 6P7, 6Q7, 6K6, 6C80-but its performance is characteristic of most 8 tube sets. Accessories include: for either double or Marconi type antenna system. For 110 V, 50-60 cycles A.C., Shpg. wt. 25 lbs. $24.50

E10650. With Tubes. NET CASH PRICE
Time Payments: $5.50 down, $4.41 monthly for 6 months.

E10652. Model 5-22. NET
Time Payments: $4.45 down, 57.99 monthly for 8 months.

E10682. "5" meter for Skyrider 5-10. NET $10.00

E10653. with Tubes. NET $69.50
Time Payments: $6.95 down, $8.60 monthly for 8 months.

E10176. Less Speaker. NET $1410

E10175. With Speaker. NET $152.88

SIXX FREQUENCY EXPANDER. For use with any high-quality communications set. Will provide excellent U.H.F. reception with overall sensitivity of better than 71.5. Tunes 27.8 to 70 Mc. $45.10

E10178. with tubes. NET $45.10

E10177. with Tubes. NET $42.60

Literature on request. See P. 73 for Time Payment terms.
NATIONAL NC44 RECEIVER

The new NC 44 Communication Receiver combines capability of very low price. It employs seven tubes in a superheterodyne circuit. The 6K8 first detector and oscillator has exceptional stability and conversion gain. Other circuit features are: Two 456 KC IF stages, second detector and AVC tube, CW oscillator, and 251LG beam power tube with 2 watts output. There are separate controls for RF and AF gain, and on-off switches for the AVC and CW/IC circuits. The self-contained power supply operates on 105-110 volts A.C. or D.C. A straight-line frequency counter is used in conjunction with a separate two-handled condenser. This combination, plus the full-motion dial calibrated in frequency for each range covered and a separate linear scale for the bandspread condenser, makes accurate tuning easy. Both condensers have an inertia-type drive. A coil switch, with silver-plated contacts selects the four ranges from 550 KC to 30 Mc. Provision is made for either headphone or speaker operation. Shipping weight, 45 lbs. Housed in an attractive, dustproof steel cabinet finished in black wrinkle enamel. With tubes and speaker.

$49.50

E10676, NET.

NC-44 B. A battery model of the NC-44 for those who have no A.C. or D.C. supply lines. Operates from a 6 Volt storage battery and 8" bat-teries. With tube and speaker.

$49.50

E10677. NET.

Writs for Easy Time Payment Terms.

NATIONAL NC-BOX RECEIVER

A communications receiver for operation from any 110 volt A.C. D.C. line. Skillful engineering, and mechanical design blended to-gether provide the maximum in sensitivity, selectivity and ease of operation. A new 1560 KC I.F. system eliminates image interference without preselction. Tuning range is continuous from 550 KC to 30 MC in four bands. Band switching is accomplished through a unique coil arrangement controlled from the front panel. New type full-motion dial with multiple scales is accurately calibrated, making tuning and "logging" easy. The NC-80X is equipped with a crystal filter continuously variable from 400 CPS to 5 MC for sharp tuning. Uses 6-6G, 6-67, 3-6K7, 1-6CS, 1-251LG, and 1-2523 tubes. Beam power output tube (251LG) supplies 2 watts undistorted to P.M. speaker. Features include AVC, 10 to 1 and 60 to 1 tuning ratio, linear scale, BFO, etc. Amplifier bandspread is provided for easy tuning on all frequency ranges. Complete with tubes, crystal and 8" P.M. speaker in metal cabinet.

$99.00

E10670, NET.

SPECIAL AMATEUR BAND NC-81X RECEIVER

Similar to the Model NC-80X as described above but incorporates several features making it an exclusive Amateur model. Tuning range covers all the AM and FM amateur bands. A complete bandspread system will provide adequate bandspread on the 150, 80, 40, 20 or 10 meter bands. New crystal filter with controllable selectivity makes reception of CW or Phone signals possible over a large band of interference. Has built-in power supply. For 110 Volts A.C. or 6 volt storage battery. Complete with tubes, 2 batteries, crystal, and 8" speaker in metal cabinet.

$99.00

E10671. YOUR NET PRICE.

NOTE: The NC-80X and NC-81X are both available on special order for battery operation from 24 volt battery and 8" batteries at no additional charge. Write for Time Payment Terms.

SM-80 MOUNTED "S" METER

For use with the NC-80X or NC-81X receivers which do not have built-in "S" meters, a meter of the same type as that used in the HRO is now available in a desk mounting. The necessary resistor network is built into all receivers of the NC-80 series, and it is only necessary to connect two wires to install the meter. Black wrinkle finish. Complete, less battery.

$6.00

E10660. NET.

NEW NATIONAL NC-100 SERIES

"An amazing efficiency 11 tube superhet with a frequency range of from 540 to 30,000 KC in five bands. Incorporates efficiency of plug-in coils and tubes, plus provision for three different power systems: A.V.C. Volume-BFO switch; AC on-off and standby switch; RF and AF gain controls; Tone Control, etc. Full-motion dial is calibrated in megacycles, with separate high-speed vernier scale for precision tuning. Built-in tuned RF stage operates on all bands. Also has built-in hum-free power supply. Has signal meter calibrated directly in 5uS units. Antenna input for single wire or double antenna. 10" speaker supplied.

NC-100A A.C. MODEL

New improved model of the famous NC-100 series. As decribed above, in attractive black wrinkle finish steel cabinet. With tubes and 10" P.M. speaker (in metal cabinet). For 110 volts, 50-60 cycles, A.C.

$120.00

E10672, NET.

NC-100A BATTERY MODEL

Similar to the NC-100A but less the built-in power supply. Operates from 6 volt storage battery and 8" B batteries. Supplied complete with tubes and 8" P.M. speaker. Especially suited for portable operation. Shipped weight, 65 lbs.

$110.50

E10674, NET.

NC-100XA CRYSTAL FILTER MODEL

Identically the same as the NC-100A. New in crystal filter for extreme selectivity. Has crystal phasing control for maximum selectivity. For operation from 110 volts, 50-60 cycles, A.C. With tubes and 10" P.M. speaker in metal cabinet.

$142.50

E10673, NET.

NC-101X "HAM" MODEL

Similar to the NC-100A, but built strictly for use in Amateur communication work. Covers only the 1-7205, 3.5-4.0, 7-0.7, 14.0- 17.4 and 28.500 MC bands. Equipped with PW type micro- meter dial giving extreme bandspread. Crystal filter, calibrated 40 meter and supplied with tubes and 10" P.M. speaker. Shipping weight, 3.1 lbs.

$129.00

E10675, NET.

NEW NATIONAL NC-510 RECEIVER

A new and ultra-efficient communications type superheterodyne receiver for Ultra High-Frequency work. Has tuning range from 28 MC to 84 MC in three bands. Full-motion type dial is accurately calibrated in megacycles for each band. Dial has parallel eliminating mirror, range indicator, frequency logging markers and inertia type tuning drive with 60-1 ratio. Rotary coil-changing system provides plug-in coils with easy operating selector switch. Uses 956 in R.F. stage, 954 first detector, and 955 I.F. oscillator. Has three 1560 KC IF stages, air-trimmed R.F. and I.F.; continuously variable selectivity crystal filter from 100 cycles to 2 MC. Also incorporates a CW oscillator, a new type of AVC circuit, a vacuum tube voltmeter type "S" meter calibrated to provide accurate indication of signal level. The NC-151 has been care-fully and accurately designed to provide optimum performance in the Ultra High Frequency ranges. With tubes and 8" P.M. speaker, in cabinet. Ship wt., 62 lbs.

$150.00

E10677. Complete, less power supply.

$177.70

Write for Easy Time Payment Terms on any of the above National sets.
NEUTRALIZING CONDENSERS

TYPE NC-600
A standard neutralizing condenser suitable for use with 6L6's and similar tubes. Has high capacitance range from 4.9 to 49.0. Max. capacity 40.0. $1.372 NET

TYPE NC-800
For use with the RCA 500 or other tubes which require small capacity. Insulated with bakelite. Insulation, 1.376 NET $1.80

TYPE NC-150
A high-cutoff condenser for neutralizing the 6L4, 6L6, 807 and like tubes. Max. capacity 12.0. Adj. from 4.8 to 19.0. $3.90 NET

TYPE NC-500
High-cutoff condenser to neutralize WE-251A and similar tubes. Adj. cap. 25.0. Max. capacity 25.0. $7.50 NET

TYPE TCN
A heavy-duty neutralizing condenser with a peak voltage of 600 volts. Maximum capacity 25.0. For use with 25L3, 52L1, 25B1 and similar tubes. $2.40 NET

TYPE STN
Suitable for neutralizing type 45, 50, 53 and similar tubes. Max. capacity 12.0. Peak voltage 660 volts. Ideal for use with double tube circuit. $1.20 NET

PRCISIOON GANGED CONDENSER WITH MICROMETER DIAM.

A precision ganged condenser assembly for H.F. circuitry. Built gready, with your choice of shaft. Insulated knobs with brush and cap for insulated condensers. $8.10 NET

SHAFTE COUPLINGS

E1550. A small efficient condenser shaft coupling. Hubs 3/4" shaft. Insulation in Stock. $6.60 NET

E1555. TX-10. Similar to TX-9. but with bakelite insulation. $3.30 NET

TX-11 (TX-11) THROUGH TX-20
Flexible plate to 4" hubs for driving offset stators up to 90 degrees. No backlash. TX-12 has bakelite insulated shaft. $7.50 NET

E1551. TX-12. NET

E1552. TX-11. Plain hub, bakelite insulated. $3.60 NET

TRANSMITTING TYPES

TYPE TMS
Precision type condensers for use in higher stages of transmitters. All others are rated at 1900 Volts Peak. $2.20 NET

NO. TYPE MMF. PLATES NET
E1339 TMS-150 150 14.00
E1340 TMS-200 200 15.00
E1341 TMS-250 250 16.00
E1342 TMS-300 300 17.00
E1343 TMS-350 350 18.00
E1344 TMS-400 400 19.00

TYPE THA HEAVY-DUTY

Insulating condenser. $12.50 NET

NO. TYPE MMF. PLATES NET
E1351 THA-200 200 12.50
E1352 THA-250 250 13.50
E1353 THA-300 300 14.50
E1354 THA-350 350 15.50
E1355 THA-400 400 16.50

ULTRA-MIDT CONDENSERS

Contact, ganged condensers for use in H.F. use in radiators and transmitters. $90.00 NET

NO. TYPE MMF. AIR GAP NET
E1199 TAC-150 150 15.90
E1200 TAC-200 200 16.90
E1201 TAC-250 250 17.90
E1202 TAC-300 300 18.90
E1203 TAC-350 350 19.90
E1204 TAC-400 400 20.90

ROTOR CLAMPING DEVICES

E1556. For clamping rotor shaft of THA or TMC Neutralizing Condensers. Max. for use up to 150. 0.344. Roil. firmly. $51c NET

Allied Radio Corporation, 833 W. Jackson Blvd., Chicago, Ill. 105
NATIONAL SHORT

NATIONAL RADIO AND R.F. CHOKE

Ideal for high frequency coupling. Has continuous 4 section universal winding on aluminum shield for high efficiency and built-in shield capacity is only 1 mfd. Both 25 MHz. 125 MA. 50 ohm capacities.

E1479. List. 60c. YOUR PRICE. $0.36

TRANSMITTING TYPE CHOKE

Universal chokes with honeycomb-turnings in five sections. Rated from 500 MA. continuous. Inductance. 45 ohms D.C. resistance. $1.35.

E1481. $1.35.
E1482. $1.54.
E1483. $1.54. For 20, 40 and 60 meter bands.
E1484. $1.75. 20 meter bands. Lotus. $1.75. Best Osc. $3.00.

DIODE TRANSFORMERS

Isolation mounted, moisture-proof units with air dielectric condenser. Series are 16, 25, 30 and 35 cycle inductance and have Litz wound. Inductance is always 0.25 .

E1497. 300-950 KC. $1.60.
E1498. 500-950 KC. $1.60.
E1499. 150-550 KC. $1.60.
E1499. 750-1500 KC. $1.60.

LOW FREQUENCY OSCILLATOR COIL

Two separate inductances, closely coupled, in aluminium cans. Used in super-regenerative sets as clock and frequency modulator. Sec. Inductance. 625 mHz. Two l. 1000 KC. with. 1000 mHz. unit. $2.10.

E1496. 600.900. $3.00.

CRYSTAL HOLDERS

VERTICAL TYPE

Minima crystal in vertical position, allowing it to vibrate freely. Launders and copper plates, crystal, aluminum cans and panel bushing. Not for X or Y cut crystals.

E1470. $1.50.
E1471. With Crystal. $1.95.

4-IN-1 HOLDER

New pressure type holder which accommodates crystal diode plug-in mountings.

E1460. Holder Only. $4.50.
LOW-LOSS TYPE
Insulating sockets designed for use in H.P. receivers and in low power stages of transmitters. A grand Special Socket for National. All others are illustrated.

STEEL CABINETS
Strictly constructed, masonite steel cabinets for housing home-built receivers and special equipment or laboratory equipment, etc. Used with most receivers and transmitters. Cabinets and sub-bases are undecided so that you can punch them. Individually stamped 25 lb. each. "Finch" finish. Supplied with sub-base and top cover.

NATIONAL INSULATORS

NATIONAL "HRO" STANDARD RECEIVER
Built to meet the most exacting requirements of H.P. communication. Incorporates: Two T.R.F. stages; crystal filter with adjustable selectivity; calibrated balanced plug in colinear single control tuning; calibrated "N" meter; variable beat oscillator. Tuning is by means of a 20 to 1 ratio box. 500 divisions for tuning accuracy. Extremely high stable wave oscillator. Special plug in crystal. Supplied with tubes and coils covering 1.7-30 MC. (Loss number and power supply.) For further information write: Shug. Mfr., 63 8th St., Chicago, Ill. $179.70

NATIONAL "HRO" JUNIOR RECEIVER
Has all features of H100 Standard except for tuning meter and crystal filter. Meteromter dial contains minute handrack (although no use as the HRO Standard). Supplied with coils reaching 10 to 20 meters -12 Amateur Bands. Additional leads for control insulators, etc. Ready for installation.

COILS FOR "HRO" STANDARD

COILS FOR "HRO" JUNIOR

POWER PACK

"NATIONAL" DIALS

TYPE "B" 4

TYPE "BM" 3
Smaller than the "D" dial; similar in appearance but with parabolic curve. E1529. Scale 200-0, 360°, counter-clockwise. Each. $1.20

TYPE "N"

TYPE HRO 1½ DIAL
E1534. New elliptic silver dial as used on the HRO receivers. Scale 0-10 over 180° clockwise. $1.50. For 1½" shaft. $1.60

TYPE "A" 4 DIAL

TYPE "O" 3½ DIAL
E1543. Attractive ornamental German "Silver" dial. Made especially for the HRO-100 receiver. Covered with a pure white finish. Large flared "grip" knob for easy turning. Fits all 3½" shafts. $90

"HRK" KNOB
Large, full-rip tuning knob for use with high frequency transmitters, etc. 2½" in diameter with fluted "grip" knob; non-rotating. Fits all 3½" shafts. $1.00

"HRO" STANDARD RECEIVERS

"HRO" JUNIOR RECEIVERS

F. M. SPEAKER

STEEL CABINETS

ACORN TUBE SOCKETS

POWER PENTODE SOCKETS

NATIONAL INSULATORS

STAND-OFF INSULATORS

H. F. BUSHINGS

CATHODE-RAY OSCILLOSCOPE
Hammarlund Precision PRODUCTS

"PA-300" TRANSMITTER FOUNDATION KIT

A new transmitter unit that requires only a screwdriver and some skill for installation consists of a push-pull I.F. amplifier designed to use tubes such as 737, 738, 803, etc., with power output of 100 to 200 watts per pair. May be used with any low-power drive stage, or with BD-60 Buffer-Driver stage described below. Grain and mica capacitor units which provide maximum gain per stage coupled with extremely sharp selectivity.

E5374. 3-35 M.M.F. 15c.
E5375. 25-80 M.M.F. 40c. NET.

“EC” EQUALIZERS


E5374. 3-35 M.M.F. 15c.
E5375. 25-80 M.M.F. 40c. NET.

“ME” EQUALIZERS

Extremely small low-loss equalizer. Screw adjustment. Isolation base, with mica diaphragm and screened base plate, 3 to 6 mm. 35c.

E5376. List 30c. NET.

“TYP” TYPE

A high grade mica plate condenser on a 1¼-inch diameter base isolated base. Suitable for high frequency use and operating from 1000 to 2000 cycles. Base mounting studs are 1½ inches centers.

No. Type Mfr. Min. List
E5420 BHT-70 19-70 .50 30c.
E5421 BHT-70 19-70 .50 30c.
E5422 BHT-220 100-220 70c 42c.

“TYP” TYPE

Similar to Type TYP above, but on Isolation base (1¼ inch diameter). Suitable for high uniform capacity and power factor, not affected by temperature of humidity. hamburger

STEAK No. Type Mfr. Min. List
E5417 BHT-70 25-70 40c 24c.
E5418 BHT-70 25-70 40c 24c.
E5419 BHT-220 100-220 70c 42c.

“APC” MICRO CONDENSERS


No. Type Mfr. Min. List
E5429 MICA-70 10-70 $0.50 .30c.
E5430 MICA-140 19-140 .30 26c.
E5431 MICA-1000 600-1000 1.60 60c.

NEUTRALIZING CONDENSERS


E5426. Type N-10. 5½" di 3.8 to 4.5 mm. 1 cent. $1.80.
E5428. Type N-15. Same as above, but cap. is 8.3 to 14.5. 1 cent. $3.60.

"CS-3" COIL SHIELD

Very effective as a general purpose shield, to shield tubes from the air and heat. Can be used for coils and transformers, etc. Dia. 3½. Height .95. $3.50.

E5425. NET.

TRANSFORMING TYPE CONDENSERS "MTC"

For high and ultra high frequency use. Aluminum plates. Suitable for contacts and insulating purposes.

No. Type Mfr. Min. List
E5644 15 25 .70 1.95.
E5645 20 35 .75 2.45.
E5633 30 45 .80 3.20.
E5638 40 50 .85 3.90.
E5637 25 60 .80 3.65.
E5636 30 60 .80 3.90.
E5639 35 60 .80 3.90.
E5640 40 60 .80 3.90.

"MTCD" CONDENSERS

Similar in shape, size and price to the "MTC" Series condensers. Send as per order.


"HF" MICRO CONDENSERS

A new series of ultra-high frequency condensers. Very efficient in tuning or balancing high frequency circuits. Uniform plates. Insulation provided for high frequency use and operating from 1000 to 2000 cycles. Base mounting studs are 1½ inches centers.

No. Type Mfr. Min. List
E5447 5 25 .75 1.95.
E5448 10 35 .75 2.45.
E5449 15 45 .75 3.40.
E5450 20 50 .75 4.15.
E5451 25 50 .75 4.95.
E5452 30 50 .75 5.75.
E5453 35 50 .75 6.55.
E5454 40 50 .75 7.35.

"DC" DUAL MICROs

No. Type Mfr. Min. List
E5423 5 25 .45 1.65.
E5424 10 35 .45 2.65.
E5425 15 40 .45 3.65.
E5426 20 45 .45 4.65.
E5427 25 50 .45 5.65.
E5428 30 50 .45 6.65.
E5429 35 50 .45 7.65.

108. LOWEST PRICES—HIGHEST QUALITY—BEST SERVICE.
HAMMARLUND CHOKES

MIDGET CHOKES

For receivers and transmitters. Arranged at many uses in even the most highly sensitive. Universal mount. Thoroughly impregnated. Center core is of Isolationite. Brass plates, all of our own design. D.C. resistance, 35 ohms. 2 1/2" dia. x 2 1/2" long. $0.10. E5344. List. 60c. NET 36c.

CH-X

Low-loss 10, 15, 20, 30, 50, 60 cycles, all short-rage receivers and transmitters. Necessaries to all types of circuits, permanently mounted on contact Isolationite soil. 

SHIELDED CH-105


MINIATURE CHOKES

Semi-circular plates. All others are Midget. $0.60.

R.F.C. 85 CHOKES

High induction chokes for use with B.C. and R.F. receivers. Specially wound and impregnated. Extremely low distributed capacity makes this choke the highest capacity, 150 ohms, M.A. continuous rating. 50,000.0 M.A. continuous rating. $0.10.

ISOLANTITE SOCKETS

STANDARD


ACORN TUBE TYPE

Designed for the new "T" type tubes. Low-loss Isolantite. A new type tube. $0.36.

"TS-50" ALUMINUM TUBE SHIELD

Complete isolation and shielding for the new "T" type tubes. Low-loss Isolantite. A new type tube. $0.36.

FAMOUS "STAR" MIDGET CONDENSERS

Popular low-priced midget condensers for most building and experimental work. Sizes for short wave tuning, continuous wave, etc. Single hole spaces, half" dia. for 50 M.A. rating, half" dia. for 150 M.A. rating. High Q. and high efficiency. $0.15.

DOUBLE-SUDED "STARS"

Similar to standard "STAR" condensers listed above, but with greater alignment between adjacent coils and plate space, allowing use in low power transmitter circuits.

DUAL MIDGET CONDENSERS

Rigid, high quality midget condensers, designed especially to provide added efficiency at high frequencies. Sizes are for 200 K. to 50 K. for 200 M. per sec. One Midget and 10 M. per sec. Two Midgets. $0.30.

NEW "SWF" LOW-LOSS COIL FORMS

Designed low-loss forms for use with 0.5-3" diameter coils. Have short inside for mounting capacities up to 1" diameter. $0.36.

"TFC" MANTLE COIL FORMS

Isolantite coil forms designed for maximum efficiency at ultra-high frequencies. Forms are 1" in diameter, 1 1/2" in diameter, and have holes drilled to permit almost any type of experimental winding. Maple "TFC-4" type is ideal for medium size 25 and 50 Mf. bands.

CF-M FORM COIL

High efficiency inductance coils with high Q. and high efficiency. Sizes are for 0.5-3" diameter. $0.36.

CONDENSER COUPLING

For use as bandspread tuning condensers in all airtight receivers for amateur frequency meters. Made of high quality, high efficiency, and all nickel tuning done with insulated construction. $0.36.

BANDSPREAD MIDGETS

For use as bandspread tuning condensers in all airtight receivers for amateur frequency meters. Made of high quality, high efficiency, and all nickel tuning done with insulated construction. $0.36.

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
5966. Switching permits rapid change of separate meter bands. Highly sensitive triple-con trol harmonic oscillator, parallel 6L6's in the RF amplifier, and 1-56C rectifiers. Will safely handle input power up to 80 watts. Attractive steel cabinet, MJ66X19%, is finished in black crystal. Circuit design produces maximum "noise" without excessive power requirements. Easy to assemble; all drilling and paneling is already done. Requires one 6-50 and one 0-200 MA meters, 9" wide. Complete, ready for assembly, less only tubes and crystals. Wt., 14 lbs. $4975. E9558. NET.

ACCESSORY KIT

Contains complete set of RCA tubes, Triplet meters, and one HilBer crystal (crystal within 5 KC). NET. $14.75. E9980. NET.

ANTENNA COUPLER KIT

For use with entire 50 watt CW kit, or with the complete 400 watt transmitter. Will match any type of tuned feeders. Cabinet, 16X6X4. Requires 1-6 J7, 1-20 A3, 2-6C5. Complete, ready for assembly, less only tubes, meters, and crystals. Wt., 6 lbs. E9956. NET.

600 WATT R.F. AMPLIFIER

Can be driven by the Utah 50 watt CW unit, or any similar exciters unit. Uses 2-255 and 2-6C5 tubes in the R.F. section. Requires 3-256, 2-6C5, 2-807, 2-65C, 1-6A1, 1-12AT7 tubes: one 0-75 and one 0-150 MA Simpson meters; and one or two 12 MC crystals. All necessary parts and cabinet supplied; with complete instructions. Easily assembled in a few hours. Wt., 81 lbs. E9950. Complete, less only tubes, meters, and crystals. NET. $6975. E9951. Accessory Kit. NET. $32.00.

ACCESSORY KIT

Contains complete set of RCA and Taylor tubes, two Simpson meters, and one HilBer 7 MC crystal (crystal within 5 KC of specified frequency). E9651. Accessory Kit. NET. $1525.

NEW THORDARSON 100 WATT MULTI-BAND TRANSMITTER


R.F. UNIT KIT

All necessary parts for the construction of the R.F. kit. Kit includes: Drilled printed circuit and panel, coils, transformers and chokes, hardware, Barker - Williamson turret and control panel, tubes, all necessary parts for the construction of the R.F. unit, less only tubes. Wt., 5 lbs. E9665. Kit. $92.32. E9585. Complete kit of tubes for the R.F. unit. NET. $9.15.

MODULATOR UNIT KIT


NEW SPEECH AMPLIFIER

Designed and engineered to provide the Amate- ur with a second harmonic stage of exceptionally high sensitivity and stability. This new Thordarson Speech Amplifier Kit is a complete unit for the construction of a speech amplifier. Consistently rated at 15 watts output; sufficient to drive average antenna. Properly designed to provide maximum stability and uniform R.F. feedback and hum. Uses 1-6F7, 1-6C5, 2-400, 4-807, 1-56F, and Input for crystal mixer: 500 ohm line output. Descriptive literature sent on request.


HAM TRANSMITTER


For CW or phone. Wt., 43 lbs. Less meter and transformer. E9170. NET. $195.00.

AMATEURS DEPEND ON AMATEURS

THOUSANDS OF AMATEURS DEPEND ON AMATEURS

THE UTILITY TRANSJUNIOR

A complete kit to build a low-power CW rig with power output up to 25 watts. Uses 1-6OG or 6L6 in a crystal-ended harmonic oscillator, and 1-56C rectifiers. Has built-in power supply. Operates on all bands from 160 to 10 meters. Will operate on two or more bands with one crystal. Has tuned antenna coupling. Requires one 2-inch 0-100 MA meter. E9663. Less tubes, crystal, and cabinet. Wt., 43 lbs. NET. $1525.

5-10-20 X-MITTER KIT

A sensational new 45 watt CW-Phone trans- mitter at low cost on the amateur 5, 10 and 20 meter bands. Highly efficient circuit uses two separate final R.F. stages. Complete hand-switching permits rapid change of operation to any of the three frequency bands. Porcelain-finished cabinet contains entire R.F. unit, speech amplifier-modulator, and final plate and filament power supplies. Rectifiers: 1-56C, 2-6L6, 2-6L6G, 2-807, 2-65C, 1-6A1, 1-12AT7, 2-56G, 1-12AT7, 1-6A1, 1-12AT7 tubes; one 0-75 and one 0-150 MA Simpson meters; and one or two 12 MC crystals. All necessary parts and cabinet supplied; with complete instructions. Easily assembled in a few hours. Wt., 81 lbs. E9950. Complete, less only tubes, meters, and crystals. NET. $6975.

ACCESSORY KIT

Contains complete set of RCA and Taylor tubes, two Simpson meters, and one HilBer 7 MC crystal (crystal within 5 KC of specified frequency). E9651. Accessory Kit. NET. $32.00.
HALLICRAFTERS MARINE TRANSMITTER-RECEIVER

Developed in the famous Hallicrafters Laboratories, this new combination transmitter-receiver is intended for use by the small boat owner. Operates entirely from a 12 volt storage battery, with a carrier power output of 50 watts. Will provide radio-telephone communication from Ship-to-Shore and telephone frequencies in Marine band of 2100 to 2800 KC.

SIMPLE TO OPERATE

Selection of operating frequency is made by front panel switch. Output of receiver is automatically switched from front panel loudspeaker to telephone receiver when handset is removed from hook. Pushing push-to-talk switch in handset starts transmitter. Simple switch turns on all tube filaments, other controls are the receiver volume control, frequency selector switch, and meter switch for checking operation or tuning adjustments. Total power demand is 35 amperes from 12 volt storage battery, shorting 2.5 amperes during standby periods. Vibration and draught-prone plate supplies are built-in. Available for operation from other DC voltages at slightly higher prices. Entirely self-contained except 25" wide, 11.5" high and 5.25" deep. Supplied with tubes. Weight, 150 lbs. Write for descriptive booklet.

E10666. Complete, less only battery, antenna and crysta. **$390.00**

RTL "COMPACT" TRANSMITTER-RECEIVER

A portable 50-60 6IC unit. Transmitter employs 1—30 as final amplifier, 1—19 as Class B Modulator, and 1—19 as push-pull oscillator. Cost $275.00. Receiver uses 1—14 or 1—14A TIP stage, 1—30 super-regenerative detector and the 2 watt audio system of the transmitter. housed in 12 3/4" x 15 1/2" case with carrying handle. Batteries fit in lower compartment requires 5 portable type 45 volt B batteries. 2 dry cells or 4 45 volt batteries. Output of receiver only 150 ma. Weight less batteries. Housed in black finish aluminum case. Size 11 1/8" x 9 1/4" x 3 3/4". **$26.50**

E10194. TELESCOPING FLEX-STEEL ANENNA. For use with the "Compact" A/E. **$2.60**

GORDON DX WORLD CLOCK

A modernistically designed wristwatch movement completely developed for the Amateur and Short-Wave DX fan. Includes variable coil dials which tell the time accurately in GMT and Standard time in any part of the world. Dial face is plain white for day and night hour marking. Self-winding movement. Designed for operation from standard 110 volt 60 cycle line. **8.82**

E10133. NET.
**Transmitting Equipment**

**Type T20**
A general-purpose triode especially suited to all low-power transmitter circuits. Will form the heart of some of the highest frequency types of equipment, including short- and long-wave, broadcast and amateur. Features: 7.5 volts at 1.75 A, Plate, 300 volts max. for Class C service. Max. D.C. plate current, 75 A. R.F. output, 45 W. 
$2.25

**Type T28**
A high-plate usage for zero bias Class B audio applications, and for conventional RF multipliers. Same general characteristics as T20 but with the factor of 62. Class B output. 76 W. per pair. 
$2.25

**Type T29**
A high-plate usage for zero bias Class B audio applications, and for conventional RF multipliers. Same general characteristics as T20 but with the factor of 62. Class B output. 76 W. per pair. 
$2.25

**Type T210**
The amateur's power tube. Max. input to one tube, 700 W. modulated or 875 W. cw. CW 25 W. plate, 2000 V. at 300 M.A. max. Plate, 10 V. A, A. R.F. output, 300 volts, 200 W. per pair, in Class B, rating limited to 200 W. 
$13.50

**Type T2/2**
Recommended for Class B audio use, or for R.F. service up to 20 M.C. current. Efficiency 200 W.; plate, 2500 V. at 300 M.A. max. F.H. service, 30 V. A, A. R.F. output, 300 volts, 200 W. per pair, in Class B. Required driving power required, 29 to 35 W. 
$21.50

**Barker-Williamson Air Inductors**

**Type B**

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**Ohmite R.F. Plate Chokes**
High efficiency R.F. chokes for all transmitter circuits. Single layer windings on ceramic core with copper or copper clad. 

**Type 250**
Type 250. For the 5 meter band. Inductance, 1.54 microh. D.C. resistance, 11.75%. 
$1.50

**Type 251**
Type 251. For 10 and 20 meters. 35 microh. Resistance 5 ohms. 
$2.50

**Type 252**
Type 252. For 20 and 40 meters. 67 microh. Resistance 10 ohms. 
$4.50

**Type 253**
Type 253. For 20, 40, 80, 160 meters. 100 microh. Resistance 20 ohms. 
$3.60

**Knife R.F. Chokes**

**Midget Type**
Very popular with the amateur and R.F. equipment. Inductance, 1.54 microh. D.C. resistance 30 ohms. Size, 1.25 M.A. Universal type winding in five sections on ceramic core. 
$1.40

**Heavy-Duty Types**

**Type 2164**
25 W. M.A. Plate at 1000 A. Three sections universal-wound. 10 W. per section. With mounting brackets. 
$88

**Type 2165**
85 W. M.A. Plate at 1000 A. Five universal-wound sections on ceramic core. 
$73

**Type 2166**
28 W. M.A. Plate at 1000 A. Five tapered universal-wound sections on ceramic core. 
$88

**Type 2167**
5.3 M.A. Plate at 500 A. Same as Type 2165. 
$88

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**Allied is headquarters for Radio Builders**

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TRANSMITTING EQUIPMENT

TYPE RK49
A beam-power tetrode similar to the 6L6, but having a six-inch loudness. An improved electron collector, frequency multiplier, or neutralized R.F. oscillator. May be used in either plate or screen modulated. F.L.: 6.3 V, at 9 A. Plate: 400 V, at 160 A. Neutralized plate circuit 16 W. Dissipation 1.6 W. $2.50.

TYPE RK51

OHMITE VOLTAGE DIVIDERS
Ideal for transmitter power supplies. Conservatively rated. Have sliding contact. Will handle 200 watt input. Will take 100 watts input. 200 volt coil permits alternate air circulation to prevent over-heating. Covered with bakelite end coating. $50 WATTS

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COTO LO-LOSS INDUCTORS
Designed for maximum efficiency in either high or low power transmitters. Less bulky than ordinary toroid cores and room for smaller space for mounting. Solid construction with low dielectric loss. Weight per foot of iron or copper at cost of core laminated bakelite. Equipped with plug-in base with banana plugs. "H" and "TL" series handle up to 1K input. "BT" and "BTL" series handle up to 150 watts input. "A" are am- niocells for inductive coupling or pi-section networks.

"TVL" SERIES (With Variable Link)

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COTO R.F. CHOKES

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ALLIED RADIO CORPORATION, 835 W. JACKSON BLVD., CHICAGO, ILL. 113
RCA DeForest TRANSMITTING TUBES

TRIODES AND PENTODES

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<td>E134</td>
<td>100W</td>
<td>A-H-C</td>
<td>15.00</td>
</tr>
</tbody>
</table>

NEW RCA TRANSMITTING TUBE MANUAL

Cathode-ray tube manual contains all pertinent materials of importance to the radio amateur regarding the characteristics, operating conditions, characteristics, and mechanical details of R.C.A. Cathode-ray tubes. A highly readable manual for the use of the Amateur or Experimenters best advantage.

E390. NET...$2.50

RCA X-MITTING TUBE BOOKLET

A 16-page booklet containing combined tube data and operating characteristics on RCA transmitting tubes. A FINE PURCHASE for the Ward. NET...$0.25

TRANSMITTING EQUIPMENT

CATWAVE RAY TUBE DATA

A complete line of R.C.A. and B.C. ray tubes complete with detailed data of real value. NET...$0.25

TELEVISION APPARATUS

R.C.A. TELEVISION KINESCOPES

Just released! Two brand new cathode-ray tube designed primarily for television. Ideal for use in the amateur's home receiver. NET...$60.00

E371. R.C.A. 1801. 3" Screen. NET...$40.00

E372. R.C.A. 1851. Television pentode metal tube, similar in design to RCA 1801 and 1851. NET...$2.10

E373. R.C.A. 1852. Television pentode metal tube, similar in design to RCA 1801 and 1851. NET...$1.85


RCA TELEVISION PARTS

New arrival—a complete line of necessary parts for the Experimental Television receiver. Designed to provide maximum efficiency and operation when used with the RCA 1801 and 1851 Kinescope tubes. A complete circular type covering all the necessary parts will be sent free on request. Ask for R.C.A. Television Parts catalog No. 1851. R.C.A. Type Description NET...$1.00

E375. 9534. Detector Tube. NET...$1.00

E376. 9535. Vertical F. Ampl. Trans. NET...$3.00

E377. 9536. Horizontal Osc. NET...$3.00

E378. 9537. Horizontal F. Ampl. NET...$3.00

E379. 9538. Horizontal F. Trans. NET...$3.00

E380. 9539. Vertical F. Trans. NET...$3.00

E381. 9540. Cathode. NET...$1.50

E382. 9541. Trigger tube. NET...$1.50

E383. 9542. Transformer. NET...$1.50

E384. 9543. Transformer. NET...$1.50

E385. 9544. Transformer. NET...$1.50

E386. 9545. Transformer. NET...$1.50

E387. 9546. Power Supply Cap. NET...$1.50

WESERITE ELECTRONIC TRANSMITTERS

TYPE 316 A

Especially designed for use in ultra high frequency chokes and amplifiers. 7.5 W. output, up to 500 Mc. Max. output up to 750 Mc. Plate, 145 V. at 100 ma. Throat. 1.5 A. 2 V. at 3.5 A. NET...$1.00

WESTERN ELECTRONIC TRANSMITTING TUBES

TYPE 316 A

Especially designed for use in ultra high frequency chokes and amplifiers. 7.5 W. output, up to 500 Mc. Max. output up to 750 Mc. Plate, 1.5 A. 2 V. at 3.5 A. NET...$1.00

DUNCO RELAYS

Small, efficient relays for use in all types of control circuits. Maximum capacity is typically limited to 100 ma., 120V. NET...$4.41

E7550. Model R-2A. 25, 50, 60 cycle, 120 V. A.C. coil. 30 amp. N.E.T. $4.41

E7551. MODEL R-2B. 25, 50, 60 cycle, 120 V. A.C. coil. 60 amp. N.E.T. $4.41

E7552. MODEL R-2C. 25, 50, 60 cycle, 120 V. A.C. coil. 100 amp. N.E.T. $4.41

GUARDIAN RELAYS

MODEL B-100

For use in break-in circuits. Both P.D.T. type. NET...$4.41

E7571. Model B-100. NET...$3.23

MODEL R-100. For R.F. circuits up to 1 KW. and 115 V. for coil switching or starting, cutting condensers in circuits, etc. NET...$1.47

E7572. Model R-100. NET...$1.17

MODEL R-100-C. Same as R-100 above, but S.P.D.T. type. May be used in multiple R.F. circuits for many applications. NET...$1.17

E7573. Model R-100-C. NET...$1.47

MODEL L-250. Overload relay for use in plate circuit relay in current less than 25 amp. NET...$1.47

E7574. Model L-250. NET...$1.47

MODEL L-500. Same as L-250 but minimum current is 500 ma. NET...$1.47

E7575. MODEL L-500. NET...$1.47

MODEL L-750. High power type overload relay, 0.100 ma. current when maximum voltage is 750 ma. NET...$1.47

E7576. MODEL L-750. NET...$1.47

A model designed for use in plate circuit relay in current less than 250 ma. NET...$1.47

E7577. MODEL L-750. NET...$1.47

WESTERN ELECTRONIC TRANSMITTERS

WRITE FOR FREE BULLETIN

T-16950. For No. 1801 Kinescope tube and A.F. power. NET...$1.00

T-16951. For No. 1801 Kinescope tube and A.F. power. NET...$1.00

T-16952. For No. 1801 Kinescope tube and A.F. power. NET...$1.00

Write for complete data booklet on Western Electronic Transmitting Tubes. Indicates individual characteristics of tubes along with complete ratings, operating data, special applications for use in your work. Requested.

ALLIED can supply any type of transmitting tube made. Write us for complete information.

114 EVERYTHING FOR THE RADIO AMATEUR
BLILEY MOUNTED CRYSTALS

TYPE B5
Bliley's new low-drift 20 and 40 meter crystals. Less than 4 cycles/A/sec/°C drift. Crystal holder is made of new molded low-loss material. These crystals replace Type LD2 crystals in frequencies below 14 MC.

No. Frequencies Within EACH
E2615 7 to 7.3 MC 5 KC $4.90
E2617 7.3 to 7.5 MC 5 KC $4.95
E2618 7.5 to 7.7 MC 5 KC $4.95
E2619 7.7 to 7.9 MC 5 KC $4.95
E2620 7.9 to 8.1 MC 5 KC $4.95

TYPE HF2
Available in two ranges: for 20 meter operation, and for multiplying into the 10 and 5 meter bands. Each unit is mounted in a holder which is identified by a mark of 200/20C/C (E2621 is $34C/MC/C); mounted between the terminals, machine-rolled in a holder of molded Vitreong G.

No. Frequencies Within EACH
E2621 14.0 to 14.4 MC 15 KC $5.75
E2622 14.4 to 15.0 MC 30 KC $5.75
E2623 15.0 to 15.4 MC 30 KC $5.75
E2624 15.4 to 15.8 MC 30 KC $5.75
E2625 15.8 to 16.2 MC 30 KC $5.75

VARIABLE FREQUENCY UNIT
TYPE VF-1
Easily adjustable crystal type. Can be shifted up to 6 KC above or below the fundamental frequency. 4 drift less than 4 cycles/A/sec/°C. E2530. Within 5 KC of specific 3.5 MC frequency. Net $7.50

E2531 14.0 to 14.4 MC 15 KC $7.50
E2532 14.4 to 15.0 MC 30 KC $7.50
E2533 15.0 to 15.4 MC 30 KC $7.50
E2534 15.4 to 15.8 MC 30 KC $7.50
E2535 15.8 to 16.2 MC 30 KC $7.50

E2536, NET $10.00

We can supply all types of Police, General Communications, and Broadcast frequency crystals. Write for prices.

HYTRON TUBES

A new and complete line of inexpensive, low-power transmitting tubes. Sturdily construction and precision machining will assure long life to the operator. HY10, HY11, HY12, and HY13 have graphite hood. HY14, HY15, HY16, and HY17 have graphite plate, and plate leads to top cap. HY18, HY19, HY20, and HY21 have graphite plate and leads to top cap. HY22, HY23, HY24, and HY25 have graphite plate and leads to top cap.

Type HY-21. Plate dissipation, 25 W. Plate voltage, 700 V. Filament, 7.5 V. Plate, 280 to 300 V. for 1,500 MHz. This type is suitable for use as Oscillator, R. F. Amplifier, or Class A Modulator.

E2140. NET $1.45

Type HY-40. Plate dissipation, 40 W. Plate voltage, 1,000 V. Filament, 7.5 V. for 3,500 MHz. These types are suitable for use as Oscillator, R. F. Amplifier, or Class B Modulator.

E2141. NET $2.75

Type HY-51A. Plate dissipation, 65 W. Plate voltage, 1,000 V. Filament, 7.5 V. for 3,500 MHz. These types are suitable for use as Oscillator, R. F. Amplifier, or Class B Modulator.

E2142. NET $5.00

Type HY-51B. Plate dissipation, 65 W. Plate voltage, 1,000 V. Filament, 7.5 V. for 3,500 MHz. These types are suitable for use as Oscillator, R. F. Amplifier, or Class B Modulator.

E2143. NET $5.00

Type HY-57. Plate dissipation, 65 W. Plate voltage, 1,000 V. Filament, 7.5 V. for 3,500 MHz. These types are suitable for use as Oscillator, R. F. Amplifier, or Class B Modulator.

E2144. NET $3.50

Type HY-60. Beam-Tetrode. Plate dissipation, 15 W. Plate, 350 V. Filament, 6.3 V. for 500 MHz. These types are suitable for use as Oscillator, R. F. Amplifier, or Class A Modulator.

E2145. NET $2.50

Type HY-61. Beam-Tetrode. Plate dissipation, 25 W. Plate, 600 V. Filament, 6.3 V. for 250 MHz. These types are suitable for use as Oscillator, R. F. Amplifier, or Class A Modulator.

E2146. NET $3.00

Type HY-62. Half-Wave Mercury Rectifier. Plate dissipation, 10 W. Plate, 250 V. Filament, 6.3 V. for 250 MHz. These types are suitable for use as Oscillator, R. F. Amplifier, or Class A Modulator.

E2147. NET $1.05
CARDWELL TRANSMITTING CONDENSERS

**MIDWAY SINGLES**

Sturdily built, compact, variable condensers for transmitters and receiver X'mitters. Armature plates of Nickel-Chrome steel for even, long life. Armature and frame cap carefully machined and assembled for smoothest operation. Double bearing construction. Same housing and mounting spacing throughout. 2500 V. .050" gap; 10,000 V. .070" gap. Motionless extra heavy plates (mounted edges for minimum loss and extra peak voltage). ½ shaft, built-in connections respectively.

**AIRGAP VOLTAGES:**

- **E4**: 5000 V.
- **E5**: 3600 V.
- **E6**: 3600 V.
- **E7**: 3600 V.
- **E8**: 3600 V.
- **E9**: 3600 V.
- **E10**: 3600 V.
- **E11**: 3600 V.
- **E12**: 3600 V.
- **E13**: 3600 V.
- **E14**: 3600 V.
- **E15**: 3600 V.

**T** "LINE SINGLES"

Accurately built, heavy-duty condensers for high-frequency transmitting, receiving, and metering applications. Mounted in condenser insulated, with bolted-on extra heavy plates (mounted edges for minimum loss and extra peak voltage). ½ shaft, built-in connections respectively.

**NEW XE-160-70-XQ CONDENSER**

Newly developed condenser for multi-band transmitters. Has 2 small and 2 large sections which may be connected in series or parallel to provide covering capacity ranges for all amateur bands. Airgap .100 inches per section.

**X** "LINE DUALS"

Comprehensive complete line of X-line dual condensers. Mounted in condenser insulated, with bolted-on extra heavy plates (mounted edges for minimum loss and extra peak voltage). ½ shaft, built-in connections respectively.

**TRIM-AIR MIDGETS**

For all those who require high-quality midgets are required. Light, compact, and easy to mount. Universal mounting facilities. Can be used as midget tuning condenser or as low power neutralizing condenser. Can easily be gas-bonded.

**DIC'T TYPE NEUTRALIZING CONDENSERS**

Type A: Condensers for circuit insertion tubes such as 995, 984, R-20-3, 55, etc. With Alsimag pillars. Cap. range: 2-15 mfd. 91.12. 50-800 V. .050" gap.

**FLEXIBLE COUPLINGS**

Type A. Small but strong coupling. Fits ¼" shafts. No bushing required. Insulated, insulated. 1/4" diameter.

**CENTRALAB SWITCHES**

Isolantite Insulated

New transmitter switches with Isolantite insulation for high-frequency, low-loss, dual condensers for 5 and 10 meter X'mitters and phasor machines. NF type ideal as capacitors for 500 K. 35 to 35. 500 K. 35 and 3D type intended for phasor HF 3500 or as tank capacitors for 5 meter amplifiers.
Transmitting Equipment

E. F. Johnson Type "N"
NEUTRALIZING CONDENSERS
Developed for use with low C tubes. Plate is polished aluminum cylinders with high high
maximum capacitance. Has high micrometer adjustment, airgap remains constant. Aluminum insulation. Mount, vertically or horizontally.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Capacity</th>
<th>Air</th>
<th>Gap</th>
<th>NET</th>
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<tr>
<td>EB640</td>
<td>N20</td>
<td>30</td>
<td>1.65</td>
<td>.055</td>
<td>$1.91</td>
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<tr>
<td>EB650</td>
<td>N25</td>
<td>40</td>
<td>1.50</td>
<td>.075</td>
<td>$2.00</td>
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<tr>
<td>EB643</td>
<td>N35</td>
<td>50</td>
<td>1.50</td>
<td>.075</td>
<td>$2.25</td>
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<td>EB637</td>
<td>N40</td>
<td>100</td>
<td>1.50</td>
<td>.075</td>
<td>$3.75</td>
</tr>
</tbody>
</table>

"G" SERIES CONDENSERS
Designed to provide lowest possible capacity. These condensers are suitable for use with most low C tubes. Plates are polished aluminum with buffed and rounded edges. End plate is of Alumagrip with self-closing device.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Capacity</th>
<th>Air</th>
<th>Gap</th>
<th>NET</th>
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<td>13843</td>
<td>50C2</td>
<td>32</td>
<td>.045</td>
<td>.125</td>
<td>$1.47</td>
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<td>13884</td>
<td>32C2</td>
<td>20</td>
<td>.045</td>
<td>.125</td>
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<td>20C2</td>
<td>16</td>
<td>.045</td>
<td>.125</td>
<td>$1.47</td>
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<tr>
<td>13944</td>
<td>12C2</td>
<td>12</td>
<td>.045</td>
<td>.125</td>
<td>$1.47</td>
</tr>
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<td>13974</td>
<td>6C4</td>
<td>6</td>
<td>.045</td>
<td>.125</td>
<td>$1.47</td>
</tr>
</tbody>
</table>

FLEXIBLE SHAFT COUPLINGS
For use with any condenser having 3/4" shaft. Flexible phosphor bronze action, ideal for receivers or transmitters.

E6115: Bakelite Type... $2.27 per each.
E6116: Type T... $3.25 per each.
E6117: As above but with metal. $3.35 per each.

MALLORY-YALEX PANEL BUSHING
For use with brass or fibre shafting, to mount condensers, etc., away from panel. EB600... 10 for 44c each. NET... 5c.

Button-Type Feed-Thru Bushing
For use whenever it is necessary to pass 1/8" or 1/4" current through panel or chassis. Low-loss ceramic. 3/8" dia., with center hole for 1/4" screw. Fits 3/8" hole.
E6121. PER DOZEN... 20c.

TRANSMITTING CORES
An ideal inducance form for transmitters and for numerous other uses. Bakelite body, 2 1/2" diameter, 3 1/2" long, with molded fin-

PLAIN FORMS
No. Progs. Each NET...
E6255... 38c...
E6256... 60c...
E6257... 53c...

E6258...
E6259...
E630...

JOHNSON CORES
GROOVED FORMS
No. Progs. Each NET...
E6255... 38c...
E6256... 60c...
E6257... 53c...

E6258...
E6259...
E630...

COIL FORMS
Low-loss forms of ironless. Particularly adapted for 20 and 10 meter operation. Thrashed for 20, 10 wire windings; plenty of holes for wire and glass insulators. Supports 20 and 10 meter coil forms 2 1/4 x 5.5".

FOR 20 AND 40 METERS
E6696. Less supporting legs... $0.20 per
E6697. With supporting legs... $0.25...

FOR 80 AND 160 METERS
E6989. Less supporting legs... $1.18...
E6990. With supporting legs... $1.32...

INSULATED GRID CAPS
NET EACH... 6c....

E633. Large size for transmitting tubes such as 866, etc.
NET EACH... 11c....

FAMOUS "MAC-KEYS"
DELUXE
MAC-KEY
The finest of the Mac-Keys. Hug e and fast handling, double insulated. Metal parts throughout. Lasers poten
dot stabilizer; all silver contacts; circuit closing switch. Built for smooth, non
ting operation at any speed.
E7973. NET... $9.50.

STANDARD MAC-KEY
Heavy cast brass anchors keyed firmly to table. Ordinary points perfectlyailable. Vibrat
less and stutter-proof. Not tiring.
E7968. NET... $7.50.

MAC STRAIGHT KEY
A well-balanced, sturdy constructed straight key for use in all types of radio or wire trans
mission circuits. Perfectly balanced arm with heavy chrome base makes sending easy and t
slide around.
E7969. NET... $1.50.

MAC OSCILLATOR
An efficient audio oscillator for learning codes. In bakelite case. Tunable at 1200, 600,
or 1600 cycles. The beginner who finds it hard to learn to receive or send signals on the air. Also use-
ful as indicator equipment for schools. Supplied with 2-65G0 and 1 Ballast tube. Wt. 2 lbs.
Per 110 V. A.C. or D.C. NET... $5.95.

MAC HUMMER
A simple low-power electric mechanism) audio oscillator, designed for self-instruction of the Morse and Telegraph codes. Will produce a 1/4 volt "F" battery. Will reproduce up to 20 words per minute.
E7971. NET... $1.50.

MAC PRACTICE SET
A combination of E7960 and E7971 "Straight Key" and mechanical "11 m-
mer" on one heavy base. Excellent for beginners learning the code.
E7972. NET... $2.95.

CODE PRACTICE SET
A simple key and defensive buzzer on one heavy base. Reprodu-
ces high-pitched key for practice and detector. Mesmerizer unit for code aus-
euses.
E7703. NET... $2.00.

AMERICAN CODE READER
A new motor-driven device that records code signals up to 100 words per min-
ute on chemically treated paper tape. Will operate on 110 V. 60 cycle a.c. or d.c. and co-
nects to any receiver or set for regular voices, voice of coil of any coil of any radi-
set. Memos of recorded transmissions which are easily decoded. A new aid for entertainment for the SWL. Re-
equires 1-76 tube.
E10387. NET... $117.60.

WORLD TIME CHART AND SHORTWAVE STATION LIST
Indicates time in 125 countries. Instantly. 111 Shot tower stations. Useful for the amateur
E5235. NET... 10c.

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
PREMAX ANTENNAS

**VERTICAL TYPE**
Essentially designed to offer peak efficiency, can be placed directly for maximum conductivity. Entirely self-supporting, no supporting wires. Fully adjustable to permit setting at exact lengths for specific operating frequencies.

- **20 METER ANTENNA**
  Maximum height, 34 feet; minimum, 7 feet. Self-supporting, porcelain base insulator with cast flanges for lag-screws or bolts. Copper-plated. Shipped wt., 25 lbs.
  E10058, NET $16.76

- **40 METER ANTENNA**
  Additional height of 10 feet. Shipped wt., 50 lbs.
  E10059, NET $6.17

**HIGH-GRADE 5 METER TELESCOPING ANTENNAS**
Vertical type antennas for ultra H.F. use. Tubing, sections of hard aluminum: lock in both adjustment and portable use.

- **E1935**
  30 ft. section. No. 3 conductor. Less base. For direct mount. Insulator used on bottom of tower only. E1006, NET $1.18

- **E1945**
  1/2 wave 3 section. With base. Length closed 18", extended 36". Insulator used on bottom of tower only. 88c

- **E1955**
  1/2 wave 3 section. Insulator used on bottom of tower only. Binding post mounting. 1.12

- **E1965**
  1/2 wave 3 section. With insulator base. Length 26", extends to 52". 1.32

**MIDGET STAND-OFF INSULATORS**
Small porcelain units. Insulation and efficient insulators of varied type.

- **E2142**
  2 inches high. Body 1/32" thick. 2 pieces 53c. NET EACH 6c

- **E2143**
  Body 1/32" thick. 1 with 1/32" drilled porcelain hardware. NET EACH 4c

**JACK TYPE**
An example of 2" stand-off insulator and light duty jack, for portable use. Inexpensive and efficient.

- **E2145**
  NET EACH 8c

**FEED-THRU STAND-OFF INSULATORS**
The ideal method of bringing leads through chassis bases, or through sub-panels. Sturdy insulators of glazed porcelain. Universally used for transmitter feeders.

- **E6112**
  1/8" high, 3/8" dia. base. 6c

- **E6111**
  1/8" high, 3/8" dia. base. 7c

- **E6110**
  1/8" high, 3/8" dia. base. Pins 1/8" hole. EACH. 13c

**JACK TYPE FEED-THRU**
Some units as listed above, but fitted with built-in jack on top, for transmitter feeders. Gold-plated.

- **E6113**
  1/8" high, 3/8" dia. base. 17c

- **E6114**
  1/8" high, 3/8" dia. base. Pins 1/8" hole. EACH. 13c

**STRAIN INSULATOR**
A heavy, porcelain insulator for installing up antenna guy wires or support wires over long spans. 12 gauge, 1/2" diam. E1995, 10 FOR $4.00 EA. 6c

BUILD-YOUR-OWN

**BEAM TYPE ANTENNA**
A completely weatherproof flexible cable on feeding any type of antenna. Insultators with power ratio are indicated by type, i.e., BCF-41.

- **1000** lb. 41 ohm signal impulse and handles 1000 Watts. The 91 ohm cable for doublets, etc., 1.35 ohm for direct feed type beams. 34 ohm for vertical monoblocks. Aluminized rubber tubing which prevents are set on antenna end is supplied at $1.50 each. 3 per box. 51.45

- **250 WATT LINE**
Flexible weatherproof 86 ohm line for use with transmitters, receivers, feeders, etc., 200 volt. 2 ft. of line, Insulation rubberized, finished with self-weatherproof lead. 11c per ft. 7 feet: $2.04

**LEAD-IN INSULATORS**
For use with transmitters, receivers, feeders, etc. Provides direct feed type. Porcelain insulators come on threaded rod.

- **E6138**
  1/4" red with cone insulator and water-tight washer. 53c

- **E6139**
  3/8" red with cone insulator and water-tight washer. 86c

**CARDWELL COAXIAL BEADS**
For connecting 3/4" or larger concentric lead-in. All 1/16" diameter. 100 beads. 55c. Sold per box of 8. E13740. Pack of 500 beads. $1.38

**FEEDER SPREADER**
For correct spacing of parallel antenna feeders. Made of strong white porcelain. Low capacity and long length. 1/4" x 4". 11c

- **E6218**
  1/4" x 10". NET EACH 14c

**ANTENNA INSULATORS**
Made of strong white porcelain. Low capacity and long length. 3/8" x 10". Glassed over porcelain. 3/8" wide by 7/8" high. E6219, 10 FOR $5.00 EACH.

- **E3415**
  3/8" 7 inches long. 20c

- **E3416**
  12 inches long. 29c

- **E3417**
  20 inches long. 39c

**JOHNSON "Q" ANTENNAS**
The favorite antenna of leading Amateurs. Provides a considerable increase in radiated power and makes operation on Zepp antennas possible. Accurate matching of line and antenna impedances is simplified by use of smart-wave matching section of porcelain feeding. It can be fed by open wire system up to several hundred feet. Inverters are available for both antenna, center assembly, 3 coils 1/2" aluminum tubing, 1/2" washers, and insulators.

- **E13350**
  100. 10 Meter Kit. NET $4.62

- **E13351**
  200. 20 Meter Kit. NET $7.20

- **E13352**
  300. 30 Meter Kit. NET $9.70

- **E13353**
  400. 40 Meter Kit. NET $12.70

- **E13354**
  10. 10 Meter Aluminum antenna, center assembly, 3 coils 1/2" aluminum tubing, 1/2" washers, and insulators. NET $6.12

**COPPERWELD SOLID ENAMELED ANTENNA WIRE**
The ideal wire for use in long, harmonic radiators, or any antenna which must be free of external r.f. fields. Will hold external covering. High conductivity, no corona. Available continuous lengths up to 1000 feet.

- **Gauge 100 Feet.**
  NET 200 FEET. NET $1.45

- **E13366**
  1.00 10. 12 ft. $0.23

- **E13367**
  1.50 1.50 12 ft. $0.24

- **E13368**
  2.00 2.00 12 ft. $0.28

**HARD-DRAWN SOLID ENAMELED WIRE**

- **Gauge 100 Feet.**
  NET 200 FEET. NET $0.50

- **E13455**
  16 1.00 16 ft. $0.35

- **E13456**
  14 1.50 14 ft. $0.31

- **E13457**
  12 2.00 12 ft. $0.23

**SOFT-DRAWN COPPER TUBING**
Medium hard-drawn copper wire with heavy enameled coating. Ideal for use in H.F. circuits on coils, bus wiring, etc.

- **Cal. No. Gauge**
  25 1.00 25 ft. $0.50

- **E2345**
  14 1.00 14 ft. $0.30

- **E2346**
  13 1.50 13 ft. $0.25

- **E2347**
  12 2.00 12 ft. $0.10

**PYREX INSULATORS**
Strong, genuine Pyrex glass insulators for all types of antenna installations. Extremely low surface conductivity. High tensile strength.

- **E3750**
  3/4" long. For R.F. use up to 250 watts. NET $7.60

- **E3751**
  1" long. For R.F. use up to 1000 watts. NET $7.50

**BEE-HIVE INSULATORS**
For supporting coils, condensers, high voltage leads, etc. Made of plaster of Paris composition. 3/4" diam. 3/4" high. Extra-stong; weatherproof for outdoor use.

- **E1961**
  10 FOR $0.40 EACH. 9c

**STAND-OFF INSULATOR**
Highest quality porcelain; 1/2" high. Hole at top for supporting or holding wire or cable.

- **E1961**
  10 FOR $0.50 EACH. 10c
Made of superior grade of low absorption high-temperature porcelain, with machine screws, top and bottom, and with hardware. Heavy breakage-proof.
THORDARSON C. H. T. MULTI-VOLT SERIES

Engineered and constructed for maximum efficiency under continuous load, these units provide unusual flexibility, excellent regulation, and quiet operation. All units fully shielded. Mounting templates furnished.

**MULTI-VOLT PLATE TRANSFORMERS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>A.C. Volts</th>
<th>Current</th>
<th>Wt. lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12676</td>
<td>T15000</td>
<td>1000 C.T.</td>
<td>6.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12677</td>
<td>T15R01</td>
<td>1000 C.T.</td>
<td>5.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12678</td>
<td>T15R02</td>
<td>1000 C.T.</td>
<td>4.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12679</td>
<td>T15R03</td>
<td>1000 C.T.</td>
<td>3.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12680</td>
<td>T15R04</td>
<td>1000 C.T.</td>
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<td>1500</td>
</tr>
<tr>
<td>E12681</td>
<td>T15R05</td>
<td>1000 C.T.</td>
<td>1.5</td>
<td>1500</td>
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<td>E12682</td>
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<td>1500</td>
</tr>
<tr>
<td>E12684</td>
<td>T15R08</td>
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<td>4.5</td>
<td>1500</td>
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**MULTI-VOLT FILAMENT TRANSFORMERS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>A.C. Volts</th>
<th>Current</th>
<th>Wt. lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12685</td>
<td>T11F50</td>
<td>7.5 tap at 6.3</td>
<td>6.5</td>
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<tr>
<td>E12686</td>
<td>T11F51</td>
<td>7.5 tap at 6.3</td>
<td>6.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12687</td>
<td>T11F52</td>
<td>7.5 tap at 6.3</td>
<td>6.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12688</td>
<td>T11F53</td>
<td>7.5 tap at 6.3</td>
<td>6.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12689</td>
<td>T11F54</td>
<td>7.5 tap at 6.3</td>
<td>6.5</td>
<td>1500</td>
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<tr>
<td>E12690</td>
<td>T11F55</td>
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<tr>
<td>E12691</td>
<td>T11F56</td>
<td>7.5 tap at 6.3</td>
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<td>1500</td>
</tr>
<tr>
<td>E12692</td>
<td>T11F57</td>
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<td>6.5</td>
<td>1500</td>
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**C. H. T. SMOOTHING CHOKES**

<table>
<thead>
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<tbody>
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</tr>
<tr>
<td>E12697</td>
<td>T15C49</td>
<td>15000</td>
<td>4000</td>
<td>1000</td>
</tr>
<tr>
<td>E12698</td>
<td>T15C50</td>
<td>15000</td>
<td>4000</td>
<td>1000</td>
</tr>
<tr>
<td>E12699</td>
<td>T15C51</td>
<td>15000</td>
<td>4000</td>
<td>1000</td>
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<tr>
<td>E12700</td>
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<td>15000</td>
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</tr>
<tr>
<td>E12701</td>
<td>T15C53</td>
<td>15000</td>
<td>4000</td>
<td>1000</td>
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**MULTI-VOLT FILAMENT TRANSFORMERS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>A.C. Volts</th>
<th>Current</th>
<th>Wt. lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12693</td>
<td>T15C45</td>
<td>15000</td>
<td>4000</td>
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<tr>
<td>E12694</td>
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</tr>
<tr>
<td>E12696</td>
<td>T15C48</td>
<td>15000</td>
<td>4000</td>
<td>1000</td>
</tr>
<tr>
<td>E12697</td>
<td>T15C49</td>
<td>15000</td>
<td>4000</td>
<td>1000</td>
</tr>
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<tr>
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</tr>
<tr>
<td>E12701</td>
<td>T15C53</td>
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<td>1000</td>
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**MULTI-VOLT BIAS TRANSFORMERS**

<table>
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<tr>
<th>No.</th>
<th>Type</th>
<th>A.C. Volts</th>
<th>Current</th>
<th>Wt. lbs.</th>
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</thead>
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</tr>
<tr>
<td>E12696</td>
<td>T15B53</td>
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<td>400</td>
<td>1000</td>
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**MULTI-VOLT POWER TRANSFORMERS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>A.C. Volts</th>
<th>Current</th>
<th>Wt. lbs.</th>
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<tbody>
<tr>
<td>E12676</td>
<td>T15000</td>
<td>1000 C.T.</td>
<td>6.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12677</td>
<td>T15R01</td>
<td>1000 C.T.</td>
<td>5.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12678</td>
<td>T15R02</td>
<td>1000 C.T.</td>
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</tr>
<tr>
<td>E12679</td>
<td>T15R03</td>
<td>1000 C.T.</td>
<td>3.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12680</td>
<td>T15R04</td>
<td>1000 C.T.</td>
<td>2.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12681</td>
<td>T15R05</td>
<td>1000 C.T.</td>
<td>1.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12682</td>
<td>T15R06</td>
<td>1000 C.T.</td>
<td>0.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12683</td>
<td>T15R07</td>
<td>1000 C.T.</td>
<td>2.5</td>
<td>1500</td>
</tr>
<tr>
<td>E12684</td>
<td>T15R08</td>
<td>1000 C.T.</td>
<td>4.5</td>
<td>1500</td>
</tr>
</tbody>
</table>
TRANSFORMERS

THORDARSON X-MITTING TRANSFORMERS

MULTI-MATCH DRIVER TRANSFORMERS

Designed to offer maximum modulation and efficiency in all-alkali sub-base tubes, and also for use in "all-alkali" modulation in sub-base type tubes. The coils, tapped in 12 steps, give excellent modulation and efficiency in all-alkali tubes. The coils are wound with fine stranded wire, and the iron is made of special non-ferrous alloy. The transformers are supplied in complete sets, and are available in all standard sizes.

**FREE CHART** showing proper Multi-Match Driver and Modulation transformers for various tube combinations sent on request.

MULTI-MATCH MODULATION TRANSFORMERS

These transformers are designed for use in all types of modulation and are supplied with terminal boards permitting flexibility in any position, or for use with any type of Multi-Match Driver transformer. They are supplied in all standard sizes, and are available in all standard ratings.

**FREE CHART** showing proper Multi-Match Driver and Modulation transformers for various tube combinations sent on request.

KNIGHT PLATE TRANSFORMERS

Here is a husky, high quality plate transformer that is ideal for use in the medium power transmitter. Rated at 1000-2500 Volts A.C. each side of center tap, and conservatively rated at 3000 Volts. Fully enclosed in heavy cast aluminum housing with porcelain standoff type terminals. Sturdy construction throughout; built for a lifetime of service.

**FREE CHART** showing proper Multi-Match Driver and Modulation transformers for various tube combinations sent on request.

KNIGHT HIGH-POWER TRANSFORMER

Every Amateur or Experimental enthusiast will find these high-quality transformers ideal for their use. Primary and Secondary ratings given. Transformers are supplied with tapping for all types of experimental work. Transformers are supplied in all standard sizes, and are available in all standard ratings.

**FREE CHART** showing proper Multi-Match Driver and Modulation transformers for various tube combinations sent on request.

KNIGHT FILTER CHOKES

E 11009. Swinging Choke. Especially well designed for use in chokes for transformer or modulator power supplies. One piece, primary and secondary windings for 200 to 500 volts A.C. or D.C. built. Rated at 1000-2500 Volts A.C. and 1000-5000 Volts D.C. Conservatively rated at 5000 Volts. Fully enclosed in a heavy cast aluminum housing with porcelain standoff type terminals. A good choice for all types of experimental work.

**FREE CHART** showing proper Multi-Match Driver and Modulation transformers for various tube combinations sent on request.

FILAMENT TRANSFORMERS


**FREE CHART** showing proper Multi-Match Driver and Modulation transformers for various tube combinations sent on request.

NEW KNIGHT OIL-IMPREGNATED TRANSFORMERS

These hermetically sealed, oil-impregnated filament condensers are a real bargain for the amateur. No effort has been spared to include every detail of advanced design, quality materials, and careful assembly. Condensers are rated to take continuous service to 50 lbs. of operating weight, and are guaranteed to last a lifetime.

**FREE CHART** showing proper Multi-Match Driver and Modulation transformers for various tube combinations sent on request.

THORDARSON TRANSFORMER MANUAL

E 11206. A 52 page book, completely revised, with information on all Knight transformers, parts lists, diagrams, parts lists. Publish your own plans, parts lists, diagrams, parts lists. Publish your own plans, parts lists, diagrams, parts lists.

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
AEROVOX TRANSMITTING CONDENSERS

"11" SERIES

An extremely popular line of condensers for use where economy is important. All are impregnated and sealed in high melting point wax. Case is of molded steel with high tension type pillar terminals equipped with lock nuts and solder Inlets. All are supplied with universal bracket for either upright or inverted mounting. Unsurpassed x-mitting un-

HYVOL "05" SERIES

Increasingly popular for all transmitter requirements. These units have pure linen paper dielectrics, impregnated and filled with "Hyvol" all voltage ratings are conservative for continuous operation. Hermetically sealed with lock nuts and solder Inlets, dielectrics are impregnated by means of high tension type pillars and sealed upright or inverted by means of rimming ring supplied.

HYVOL "09" SERIES

Hermetically sealed in welded steel can. Dielectric is selected paper dielectric or wax. Recommended for heavy-duty continuous service and for use with universal upright or inverted mounting brackets. Will give dependable lasting service under the most rigorous operating conditions.

MOLDED MICA CONDENSERS

Suitable for all voltage or bypass requirements. Hyvon mica is selected mica dielectric in molded housing case with screw terminals.

TYPE 1650-1000 VOLTS

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>Mfd.</th>
<th>Wkg.</th>
<th>NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>E13520</td>
<td>00005</td>
<td>1000</td>
<td>1.00</td>
<td>$0.13</td>
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<td>E13525</td>
<td>00001</td>
<td>7000</td>
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<td>E13530</td>
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<tr>
<td>E13540</td>
<td>00100</td>
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<td>$0.28</td>
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</table>

SANGAMO MICA TRANSMITTING CONDENSERS

Accorded by Amateurs everywhere for all types of transmitter and receiver circuits. Ideal for use as bypass condensers, in R.F. circuits, as coupling condensers, for power mica dielectric. Accurate to within 10%, with machine screw terminals.

1000 V. DC TEST 2500 V. DC TEST

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>NET</th>
<th>No.</th>
<th>Mfd.</th>
<th>NET</th>
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<td>E7670</td>
<td>00050</td>
<td>145</td>
</tr>
</tbody>
</table>

GENERAL ELECTRIC PYRANOL TRANSMITTING CAPACITORS

Attractive, durable transmitting condensers of the best quality. These condensers will give exceptional service and long life. Filled and treated with Pyranol, a non-inflammable, non-explosive substance of unusual dielectric qualities. Hermetically sealed, with porcelain lead-in bushings. Complied with mounting clamps for easy upright mounting.

<table>
<thead>
<tr>
<th>No.</th>
<th>Model</th>
<th>Mfd.</th>
<th>Volts</th>
<th>NET</th>
</tr>
</thead>
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<td>E5404</td>
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<td>E5408</td>
<td>23F3</td>
<td>3000</td>
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<td>0.06</td>
<td></td>
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<td>E5416</td>
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<td>0.06</td>
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<td>E5428</td>
<td>23F8</td>
<td>8000</td>
<td>0.06</td>
<td></td>
</tr>
</tbody>
</table>

We can also supply 2500 and 5000 Volt Sangamo condensers with lead-in bushings on one side, suitable for panel mounting at no additional cost. Specify when ordering.
TRANSMITTING EQUIPMENT

INSTRUMENT DIALS
Chrome silver dials with raised satin finish and engraved black numerals and scales. ALUMINUM. Ideal for dressing up transmitters, complete with vernier and inches. Heavy black lining offers a real contrast. Size: 1-1/2 in. diameter. Each 70c.

CHROME-SILVER PLATES WITH POINTER KNOPS
Handsome, professional dials finished in silver satur finish and clothed in chrome plated backgrounds. Engraved knob has the incised inch graduations and pointers. Each 70c.

METAL NAME PLATES

STANDARD SIZE
High quality name plates designed to give your equipment a professional appearance. Made of black, gold and silver plated plate; backgrounds are engraved black, gold and silver plaques. Each 70c.

DE LUXE SIZE
Similar to above but larger and 1-1/2 x 1-1/2 sizes. Each 1.25.

MICROPHONE

E5733. 325 Degrees. EACH... 73c
E5734. 325 Degrees. EACH... 75c
E5735. 325 Degrees. EACH... 77c
E5736. 325 Degrees. EACH... 79c

RELAY RACKS & PANELS

CAT. No. Description Price
E12510. Shipped knocked-down. Complete with hardware. Weight: 10 lbs. $8.70
E12511. Shipped knocked-down. Complete with hardware. Weight: 10 lbs. $10.70

PAR-METAL CABINETS
Complete enclosed cabinets that give a professional appearance to transmitters. Heavy gauged black crystal with black as a standard finish. Hidden door at rear. Drilled at 1/2" multiples for standard relay panel. Will serve many purposes, such as for P.A. amplifiers and similar equipment. Will take chassis up to 12" x 12" x 12".

E12588. SINGLE UNIT. Size: 8" x 8" x 12". Will take one 12" x 12" x 12" panel. Has door on top only. $5.14
E12589. DOUBLE UNIT. Size: 17" x 17" x 12". Will take two 12" x 12" x 12" panels. Doors on top and back. $9.11
E12590. TRIPLE UNIT. Size: 20" x 20" x 12". Will take three 12" x 12" x 12" panels. Doors on top and back. $9.70
E12591. QUADRUPLE UNIT. Size: 25" x 25" x 12". Will take four 12" x 12" x 12" panels. Doors on top and back. $11.61

METER PANELS
Heavy steel, black crystal reinforce, black on black. Will serve many purposes, such as for P.A. amplifiers and similar equipment. Will take chassis up to 12" x 12" x 12".

CABINETS
Universal metal cabinets
Standard multi-purpose black crystal reinforced cabinets. Will serve many purposes, such as for P.A. amplifiers and similar equipment. Will take chassis up to 12" x 12" x 12".

E12588. SINGLE UNIT. Size: 8" x 8" x 12". Will take one 12" x 12" x 12" panel. Has door on top only. $5.14
E12589. DOUBLE UNIT. Size: 17" x 17" x 12". Will take two 12" x 12" x 12" panels. Doors on top and back. $9.11
E12590. TRIPLE UNIT. Size: 20" x 20" x 12". Will take three 12" x 12" x 12" panels. Doors on top and back. $9.70
E12591. QUADRUPLE UNIT. Size: 25" x 25" x 12". Will take four 12" x 12" x 12" panels. Doors on top and back. $11.61

CHASSIS BASES
Refer to complete chassis base listings on page 134 for chassis bases for all purposes and for complete listings of chassis bases. We can also supply special chassis bases, formed, punched or drilled to order for all special requirements. Prices and information on page 134.
THE 1939 SERIES OF FAMOUS KNIGHT "BUILD-YOUR-OWN" KITS

A wide range of new easy-in-build kits for the beginner as well as for the advanced experimenter. New receiver, transmitter, amplifier, electrical circuits, and oil lured circuit diagrams of modern, easy-to-wire kits.

ALL KNIGHT KITS can be assembled in a minimum amount of time. Component parts are also available for your own experiments.

Even the beginner can build these successively.

1939 SUPER-GAINER SHORT-WAVE KIT

"BUILD-YOUR-OWN" WIRING DIAGRAMS

Clear, easy-to-read diagrams with complete matched parts lists. Enables you to build your own receiving transmitting, amplifiers, watt meters, supplies, and analyzers. Uses type tubes and modern efficient components. Fully designed and capable of "tuner-less" performance.

E758. 2 Tube DX'er S.W. Battery Set. $14.50
E759. Tube "Ocean Hopper." $9.00
E760. Tube A.C. Broadcast TRF. $19.00
E761. Tube A.C.-D.C. Broadcast TRF. $25.00
E762. Tube Metal "Super-Gainer." $14.95
E763. Tube Super-Flanged A.C. Band. $24.95
E764. Tube Super-Flanged A.D.C. Band. $24.95
E765. Tube A.C. Broadcast TRF. $25.00
E766. Tube A.C.-D.C. Broadcast TRF. $31.00
E767. Tube All-Wave Super. $34.95
E768. Tube Super-Flanged A.D.C. Band Super. $29.95
E769. Tube Battery Transceiver. $29.95
E770. Tube Volume Exchanger for Radio or P.A. $12.95
E771. Tube 3 Watt Amplifier and Power Supply. $13.95
E771A. Watt A.C.-D.C. Amplifier. $24.95
E772. Tube S.W. Band. $24.95
E773. Tube A.C.-D.C. TRF. $35.00
E774. Tube 2 Band (S.W. and B.C.) A.C. Super. $34.95
E775. Tube Main Super. $17.95
E776. Photo-Electric Cell Unit. $2.95
E777. Cell Winding Data. $1.00
E778. Crystal Fence Control, EACH. $1.00

CHOICE OF 6 OF ABOVE DIAGRAMS. 20c

Schools-colleges-radio clubs. Write for our attractive quantity prices for wiring diagrams.

A new and different handbook prepared by ALLIED's engineers to aid the experimenter and builder. Tells how to select and arrange circuit, read diagrams, layout and locate circuits, select components, collector, transformers, condensers, coils, and other materials. Tells how to build and operate amateur transmitters, fence controls, photo electric relays, etc. Size, 5x7. Price. $1.75.

BUILDERS' HANDBOOK

This newly developed, economical, battery-operated type uses the latest low-drain tubes. The B.C. band (200 to 550 meters) or the S.W. band (16.5 to 55 meters) is selected by means of a rotary switch. Tuning is simplified with built-in ratio 4" airplane dial. Supertuner circuit, 1F regeneration and 1F-0 sensitive output give real loudness. Reception on 1R. An ideal set where electrical power is not available, at the beach, in camping-land or on a bicycle or auto. Any single wire or doubled aerial will serve. Kit contains: 2 tubes, 13QF (1F amplifier, 11I-0 grid-leak detector, and 1F-0 output. Required three 45-volt "B" batteries will last 6 months in average service, and two low-priced dry cells. "A" batteries will operate set 6 hours. Suitable for family or club and for driftless class, class, student, construction; ultra-smooth tolerant circuit, maximum output, true vertical antenna input and real signal "nock." May be operated from main current or from special A.C. power supply listed below. Requires 6-5 volt at 5 to 25 volts for plate supply. Will tune from 50 to more than 12000 WATCH. Kit contains all necessary parts for building this self-contained and signal-producing crystal set. Crystal and panel, sockets, condensers, radio, wiring diagrams, etc. Complete-"Tiny-Transmitter for 12 volt supply, tubes and heading cases are extra. Shipment NET.

$3.40

E9833. Complete Kit of Parts. $6.40 YOUR PRICE

E9845. Coil Kit. Set of four coils for two Metal Tube "Ocean Hopper," Tune 16 to 150 meters. NET. $1.25

E9837. A.C. Power Supply Kit. Contains printed and drilled chassis base, transformer, condensers, etc. Requires plug-in transformer. NET. $4.90

E9847. 3 Watt Utility Amplifier and Power Supply Kit. Uses 1-455, 1-587, and 1-5211. Supplies and extender for 2500 ohm field dyna
cspeaker. Supplies 6.3 volts A.C. and 250 volts D.C. for tube unit. Kit contains all parts, including drilled chassis panel and components. Kit and accessories are extra. NET. $4.95

KNIGHT "BUILD-YOUR-OWN" KITS

NEW KNIGHT METAL TUBE "OCEAN HOPPER"

A.C. OR BATTERY OPERATED

An extremely efficient, easy-to-build receiver of modern design. Uses two metal tubes, 251-0 and 1S0-24. Serves full band reception; tuning; covered detector; covered detector; covered detector; covered detector; covered detector; covered detector. SHIPS NET.-PRICES.

A.C. or Battery Operated

E8939. Tube and Battery Kit. 2-30 tubes. Tube and battery kit. Tubes and battery. $3.15

E8938. Battery and Tube Kit. Set of four tubes and two 1S0-24 tubes. Battery and tube. $3.15

E9208. Brandes 2400 ohm head

E6505. 2 tube battery kit, complete with two tubes and two 1S0-24 tubes. Battery and tube. $3.15

E8940. For use with Two Tube DX-e. 

E9208. Brandes 2400 ohm head.

E6505. 2 tube battery kit, complete with two tubes and two 1S0-24 tubes. Battery and tube. $3.15

AUDIO AMPLIFIER KIT

E8941. Tube battery kit for audio amplifier. 

E6505. 2 tube battery kit, complete with two tubes and two 1S0-24 tubes. Battery and tube. $3.15

124 QUALITY KITS AT ATTRACTIVE PRICES
THE NEW BROWNING "63" ALL-WAVE RADIO

MEISSNER TRF TUNER KIT

A self-powered, compact phonograph oscillator designed to provide excellent phonograph reproduction when used with any radio and phonograph combination. Suitable for marmalade or crystal picking. Easily assembled and wired. Connects to radio set antenna. Radio or phonograph may then be selected at the turn of a switch. Includes oscillator and 2005 receiver. Supplied complete with all instructions, tubes, and accessories. For 110 V.A.C. or D.C. operation. Shipped wt. 8 lbs.

NEW MEISSNER PHONOGRAPHER

MEISSNER "HOW TO BUILD" INSTRUCTION BOOK

A highly efficient, low-priced 4 band kit designed to tune continuously from 7 to 55 meters. Ideal as a high-fidelity tone receiver or for ham communication work. Features: Calibrated 5" slide-rule dial, air-tuned solid-state assembly, B.F.O., iron-core L.F.'s, A.C., variable R.F., and A.F. controls. Supplied with assembled, wired, and aligned R.F. assembly. Complete instructions. For 110 volts only. Two 6J7 tubes, panel, cabinet, and speaker. Shipped wt. 22 lbs.

6 TUBE BATTERY SUPERHET

New easy-to-build, commercial 6 volt battery operated set. Broadcast model covers 530 to 1500 K. Features B.F.O. stage, single battery operation, calibrated full-sized 7¼" slide-rule dial, iron-core L.F.'s, A.C., tone control and 11 watts audio output. Makes R.F. 6J7, 1-647, 1-607, 1-6Q6, and 1-6YQ5 Raylins. NET $2.06 tubes. NET $5.80.

MEISSNER TRANSPARENT KIT

A self-powered, compact phonograph oscillator designed to provide excellent phonograph reproduction when used with any radio and phonograph combination. Suitable for marmalade or crystal picking. Easily assembled and wired. Connects to radio set antenna. Radio or phonograph may then be selected at the turn of a switch. Includes oscillator and 2005 receiver. Supplied complete with all instructions, tubes, and accessories. For 110 V.A.C. or D.C. operation. Shipped wt. 8 lbs.

NEW MEISSNER COMPLETE RECEIVER KITS

E10630. Complete kit. Complete complete kit with instructions and schematic and pictorial diagrams included. $676

E10636. Complete Kit. Parts kit. $802.6

E10639. Tube Kit. 2-6N7, 1-6J7, 2-605, 1-6J8, 1-6G6, 1-6Q6, and 1-6YQ5 Raylins. NET $1.20

E10633. Complete Kit. Parts kit. $1.20

E10631. Complete Kit. Parts kit. $1.20

E10632. Tube Kit. 2-6K7, 1-6J7, 1-6L7, 1-6E7, 1-6Q7, 1-6Q6, and 1-6YQ5 Raylins. NET $1.20

E10637. Complete Kit. Parts kit. $1.20

E10638. Complete Kit. Parts kit. $1.20

E10635. Broadcast Kit. NET....$2.20


E9523. 8" P.M. Speaker. NET $3.29

E10644. Broadcast Band Model (530-1600 K.C.) NET $2043.

E10645. Broadcast Band Model NET $2043.

E10646. Broadcast and S.W. Model. Covers 530-1600 K.C. and 3.5-18.5 M.C. NET $2043.

E10647. Front Panel for E10643. Full S.W. Kit. NET $1.09

E10648. Front Panel for all other above sets. Black, black-antenna, black. NET $1.09

E10649. Cabinet for any of above sets. Black, black-antenna, black. NET $1.09

E10650. Tube Kit for any of above sets. Black, black-antenna, black. NET $1.09

E10651. Tube Kit for any of above sets. Black, black-antenna, black. NET $1.09

E10652. 8¼" Speaker. NET...$1.25

E10653. 5" P.M. Speaker. NET...$1.25

E10654. 3" P.M. Speaker. NET...$1.25

E10655. 2" P.M. Speaker. NET...$1.25

E10656. 1½" P.M. Speaker. NET...$1.25

E10657. 1¼" P.M. Speaker. NET...$1.25

E10658. ¾" P.M. Speaker. NET...$1.25

E10659. ½" P.M. Speaker. NET...$1.25

E10660. Cabinet kit. NET...$1.25

E10661. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10662. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10663. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10664. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10665. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10666. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10667. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10668. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10669. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10670. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10671. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10672. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10673. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10674. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10675. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10676. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10677. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10678. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10679. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10680. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10681. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10682. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10683. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10684. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10685. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10686. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10687. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10688. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10689. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10690. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20

E10691. Complete Kit, low milliamperes, chassis, tubes, and speaker. NET $7.20
"POPULAR MECHANICS" BUILD-YOUR-OWN KITS

Here is an extensive selection of complete kits or matched parts for building the most popular circuits described in recent issues of Popular Mechanics Magazine. Matched parts lists which included with the "KIT" name only. Blueprints are also available separately. For best results build these splendid Popular Mechanics circuits with ALLIED approved parts.

"PUSH-BUTTON" TWO TUBE AC-DC SET

"Popular Mechanics" K-257. An economically easy-to-build 100-watt speaker radio for use in bedrooms, hotel rooms, office or den. Any one of these sets is tailored in less time than it takes to build one sixth tube assembly. Includes all parts, instructions and 4-pattern volume control. Uses 150-150 volts A.C. or D.C. operation. Attractive walnut cabinet, 71/2" x 71/2". Kit includes speaker, cabinet, drilled chassis, blueprint, but less tubes. Shpg. wt. 10 lbs. $95.16.

ONE TUBE FLASHLIGHT SET

"Popular Mechanics" K-257. A complete matched kit or parts for this set. The new high-gain, direct-coupled tube will outshine single-tube type flashlight too. Kit includes all parts, drilled metal tube, instructions and blueprint. Weight only tubes and cabinet. Shpg. wt. 9 ozs. $4.55.

NEW "LITTLE GIANT" 4 TUBE AC-DC KIT

"Popular Mechanics" K-257. A complete matched set for this compact broadcast set. A fine portable set for tourists and students, and is also the ideal kit or portable set for the house. Uses 110 volt A.C. or D.C. Simply, Kit contains all necessary parts and complete instructions. Less only tubes and cabinet. Since wt. 9 lbs. $95.18.

NOISE SILENCER KIT

No longer need your reception be disturbed by static, motor noise or other forms of interference. This new kit is P.K.1 Speaker. Will eliminate noises of all kinds which interfere with your listening pleasure. Connects in series to your existing speaker. With a 2-watt amplifier or having one or two 605 or 456 ECCOs. Works over range. Noise silencer incorporates a steel filter which eliminates all the noise from the speaker. Complete with all necessary parts, instructions and 1-616, 1-621, 1-622, 1-631, 1-632, RCA metal tubes, and 1-617, 1-627, Black crimp tube. Finished base measures 51/2" x 51/2". Weight 6 lbs. Drill all holes drilled. Weight 6 lbs. $7.15.

LUXE MODEL NOISE LUXE MODEL KIT. NET. $7.65

CONSTRUCTION BLUEPRINTS

The leading new Popular Mechanics sets are clearly described in 17th "KIT" Set. Includes all diagrams, and matched lists of parts, and a step-by-step description of how to build your own set by following the instructions. Complete with tubes. Shpg. wt. 22 lbs. $20.95.

HURRICANE RECEIVER

"Popular Mechanics" K-254. A simple, portable receiver that will bring in broadcast stations in many miles away. Complete with high-gain 6A-6 tubes. Simplest to build of all. Kit includes all parts, and complete instructions. Can be easily connected by anyone. Does not require special antenna. Ideal for use in trailers, isolated homes, and for emergency needs. Less tube, headset, headphones and batteries. Shpg. wt. 5 lbs. $3.85.

VOLUME EXPANDER KIT

For use with all receivers or amplifiers to provide a true reproduction of Broadcast programs or phonograph record. Provides greater fidelity of reproduction by extending bass and treble ranges which are usually suppressed during the broadcasting or phonograph record. Thus greatly improves quality. Complete kit includes all parts except tubes. Requires 1-617, 1-621, and 1-631 tubes. $7.10.

WIRED VOLUME EXPANDER

E9932. Complete wired assembly and tested Knight Volume Expander. For 110 V. 60 cycle. Less tubes. WT. 10 lbs. $9.40.

K N I G H T C R Y S T A L S E T KIT

Here is a new and modern crystal set that everyone has heard. Supplied in easy-to-assemble kit form using the best quality parts obtained. Includes 50-cycle crystal, completely wound coil assembly, high-grade vacuum-tube, and top type adjustable crystal detector with sensitive crystal, collodion mounted, wire leads, and complete instructions. SEE E9867. $13.35.

E2806. Headset. NET. $97c.

E3405. Aerial Kit. You will obtain the best results with this aerial. NET. $3.37.

K N I G H T E X P E R I M E N T E R S' KIT AND ONE TUBE RADIO

Learn radio fundamentals with this "KIT" and the full-line of new and modern crystal sets. Kit contains all parts, instructions and complete construction directions. Complete kit, or use as a preamplifier and construction kit for any receiver. For reception of crystals and for building your own radio. SEE E9596. Complete with tube and 6 cells. NET. $6.45.

STANCOR 4 WATT AC-DC AMPLIFIER

An all-purpose A.C.-D.C. amplifier in kit form with an output of 4 watts. Quickly and easily assembled, this little amplifier unit has a multi-ple application. For use in radio sets, dance clubs, lodge rooms, etc. Uses 1-637, 1-635, 2-601A, and 2-623 tubes. Has a gain of 89 db, and input for both crystal and phonograph pickup. Output impedance of 3, 8, 50, and 500 ohms, with use of one or more speakers, or use as a preamplifier unit. Two 353A beam tetrode tubes in the grid circuit will permit you to provide full 4 watts of audio without distortion. 2500a furnishes ample power for all tubes. Clicker tube combination adds resistor line cord. Complete with punched and finished chassis base, all necessary parts, wiring diagrams, and instructions. Less microphone, speaker, and tubes $10.55.

K N I G H T R O L L E R KIT

Build your own antenna set for better tone quality, selectivity, and tuning ease, and real economy in cost. Converts favorably with most modern commercial sets. Supplied with control panel to mount any car. For city and country use. Kit includes all parts, instructions, and complete assembly, mounting and wiring, and complete instructions. Complete kit includes: 60-1K, C-22R, 6AL5 pentagrid oscillator, 664 P.A. amplifier, 697 ferrite detector, 6BY7 audio amplifier, 6L4A rectifier. Complete kit installs complete with tubes. Shpg. wt. 10 lbs. $20.95.

BEAT OSCILLATOR KIT

Exact reproduction of RFO unit which can be attached to any R.C. or R.W. 459, 557, or 630 K.c. P.K.1 whistle. Will enable you to listen to radio in single tuned in ward. Complete kit, with 2 tubes and wired together with ease. Supplied with 6E5, 6L6, or 6N2A. Use with 6.3 volts or 2.5 volt tubes, or with 6A5 for sets with 6.3 volts, which are needed. SEE E9596. Kit of RCA tubes. NET. $5.29.
Knight One Tube
All-Wave Battery Kit

Knight Transmitter & Transceiver Kits

Two-Way 56-60 Mc
Amateur Phone Kit

Battery Model

Popular 5 meter phone transmitter and receiver. Designed to build and operate Ideal for variable distance work. Uses a single 10 tube as transmitter and a dual pentode as receiver. It is also available in 6 tube form.

TUBE AND BATTERY KIT

Contains one Rayatron 10 tube, two Burgess No. 503 portable "4V" and two Knight straights. Shpg. wt. 16 lbs.

E9896. NET. $3.50

A. C. MODEL

Similar to above model, but uses a 6A6 double triode tube. Requires 6 cells A.C. or D.C. for filament and 20 to 40 volt plate potential. For use with power supply below or with power pack. Designed for amateurs using Fixed-Band or Olivia circuits. MOD. 1911, 10000 ohm adjustable. For variable distance reception. For 20 meter transmitters. Complete with instructions, less only tube and power supply.

E9701. NET. $5.71

PORTABLE CASE

Durable, all-purpose carrying case for the Knight transceiver. Bottom holds batteries or power supply, etc. Shpg. wt. 5 lbs.

E9897. NET. $3.75

Universal 5 meter Handset


E2513. NET. $5.88

Cathode Ray Tuning Unit

An inexpensive visual tuning indicator using the new Electron Ray Tube. Quicker and simpler; can be installed in any broadcast. All-Wave, depending on oscillator having A.C., but which is not equipped with visual tuning device. Requires 2.5 or 2.8 volt filament. Complete assembly with mounting brackets, cathode-ray tube and instructions, less tube. Wt., 2 lbs.

E1957. NET. 73c

Knight Transmitter & Transceiver Kits

Beginners' Transmitters

10 Watt Transmitter

Patterned after the beginners' transmitters described in the ARRL "How to Become an Amateur" book. Designed in breadboard style and built circuit by circuit. Includes all leads, terminal labels, and all printed circuit diagrams and instructions. All parts are of excellent quality. Complete transmitter may be used with any type of antenna. Kit contains AM and C.W. valves, E9543, E9544 and E9541.

E9541. NET. $2.50

Accessory Kit, Contains 2 Rayatron type 12 tubes, key and 50 meter crystal and crystal holder.

E9542. NET. $4.80

Power Supply Kit. Will supply power for transmitters and correct voltage for the receiver. Transmitter and receiver, less only 523 tube. For 110 volt 50-60 cycle.

E9543. NET. $5.35

20 Watt Transmitter

Advanced Type 6J6 Beam-Plate Transmitter for beginners. Complete, assembled, wired and cubed in breadboard style. It is hardened and wired in breadboard style. It is hardened and wired.
NEW MILLER
IRON CORE R.F. COILS
Small size R.F. coils, especially designed for use in superheterodyne circuits where a high-gain coil of small physical size is required. In aluminum shielded cases, diameter and 3" high. For use with 220 volt transformer. 7 tubes. $2.94 each. E5868. Antenna Coil...
E5868. Oscillator Coil (645 KC). (Use 100 mmf. pad.) YOUR PRICE $88c.

10 K.C. FILTER COIL
For use in the lead circuit of a triode or other low frequency circuit. To eliminate 10 KC whistle in wideband receivers. No. 69B. $1.32 each. E5857.

HIGH GAIN T.R.F. COILS
Bank wound with fine wire, permitting maximum sensitivity and uniform gain over entire band. Round shielding can 2% in. high. 1% in. in diameter. 1 1/2" in. diameter. Covers 1160 to 510 KC. Low impedance primaries.

FULLY SHIELDED
E5844. ANTENNA COIL...E5844. Tube kit. Contains 1 Ant. Coil and 1 R.F. Coil. NET...E5847. TUBE KIT. Contains 1 Antenna Coil and 2 R.F. Coils...E5848. TUBE KIT. Contains 1 Antenna Coil and 2 R.F. Coils...E5849. R.F. Coil. EACH. YOUR PRICE...

UNSHIELDED TYPE
Similar to coils listed above but not equipped with transformer. Supplied with mounting bracket and screw and bolt. Permits assembly in any desired location. 3/8" diameter for 2 1/2" long. E5842. Antenna Coil...E5843. R.F. Coil...E5845. Tube Kit. Contains 1 Antenna Coil and 1 R.F. Coil...E5846. Tube Kit. Contains 1 Antenna Coil and 2 R.F. Coils...E5847. Tube Kit. Contains 1 Antenna Coil and 2 R.F. Coils...E5848. Tube Kit. Contains 1 Antenna Coil and 2 R.F. Coils...E5849. R.F. Coil. EACH.

ANT. & R.F. COILS
High-gain fully shielded coils for use with superheterodyne receivers. Designed for use with high-impedance primaries. H.F. coil has primary of 80". R.F. coil has 270 mmf. condenser. With coupling rings 13/16" diameter. Tune 540 to 1500 KC. E5848. Antenna Coil. EACH...
E5849. R.F. Coil. EACH.

NOISE SILENCER I.F. TRANSFORMER

128 OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD
COILS • COIL FORMS • COIL KITS

SKIP-BAND "COIL ASSEMBLY"

Ensure you try to make a sensitive receiver tuned to 15 M.C. E7501. Complete assembly is completely wired and ready to install. Kit contains 2-1550, 4-1560 K.C. transformers and diagram.

E7209. Complete Kit $11.20
E7210. Less I.F. transformers.

NOTE: Coil assembly above will perfectly match the Deans unit E7205 listed on page 126.

TWO BAND COILS

Efficient Short-Wave and Broadcast coil types for the serviceman and experimenter. Shielded coils are completely wired and ready to install. Use with 45H-45T K.C. IF systems. For 365 muf., TRF type of conversion.

BROADCAST AND POLICE

Cover 67-200 meters and 155-555 meters.

E7500. UNSHIELDED
E7501. oscillator
E7502. Antenna
E7503. NET EACH 97c NET EACH 67c

BROADCAST AND SHORT-WAVE

Cover 155-517 meters and 195-555 meters.

E7507. UNSHIELDED
E7508. Antenna
E7509. Oscillator
E7510. NET EACH 97c NET EACH 67c

E7514. DUAL ADJUSTABLE PADDING CONDENSER. Each section 100-200 meter. The correct series padding for the oscillator coil listed above. NET EACH 32c

E5775. 2 GANG 2 POSITION SWITCH. For use with coils listed above. For making front-of-panel band changes. NET EACH 88c

THREE BAND COILS

Similar to two band above, but have 3 band coverage. Trimmer condenser is mounted on one axis for ease of adjustment. Supplied in two popular wave groups. Fully shielded. Well-built for dependable reception.

BROADCAST, POLICE & S.W.

For use with 459 muf., Condenser, Range: 175-555 - 56-711, 12.5-67.5 meters.

E5901. R.F.
E5911. Oscillator
E5761. Paddling Condenser Kit $.0.73
E5776. 3 Gang 3 Position Switch

LONG-WAVE, BROADCAST & U.S.W.

Available for use with a 985 muf. variable condenser. Three-band coverage as shown: 130-2260, 106-565, 161-517 meters.

E5901. R.F.
E5911. Oscillator
E5762. Paddling Condenser Kit $.0.88
E5776. 3 Gang 3 Position Switch 1.75

PLUG-IN COILS

Space-wound coils for 3 and 5-10 condenser. Forms are smooth bakelite 1/4" high, rim-top for easier mounting. Complete with wire knobby, dual plate and diaphragm. For 100 muf. condenser.

E5661. List: $1.64
E5667. LIST EACH .95
E5668. LIST EACH .95

4 PRONGS-2 WINDINGS

E5656. Short-Wave Coil Kit, 4 coils cover range from 16 to 217 meters. 85c
E5657. Broadcast Coil Kit, 2 coils cover range from 100 to 259 meters. 65c
E5658. Ultra-Short Wave Coil. Covers range from 5.5 to 217 meters. 35c

6 PRONGS-3 WINDINGS

E5669. Broadcast Coil Kit, 3 coils cover range from 100 to 259 meters. 1.75c
E5667. Ultra-Short Wave Coil. Covers range from 5.5 to 217 meters. 85c

BAND-SPEAD CCKS

5 Turned coils of high and low band setting, mounted on one axis. Suitable for broadcast reception.

E5674. coil assembly for use with magnetic transformer. Complete includes 2-456 K.C. IF transformers and diagram.

E2709. Coil assembly KIT $12.20
E2710. Less I.F. transformers.

NOTE: Coil assembly above will perfectly match the Deans unit E7205 listed on page 126.

Bakelite Ribbed Type

150-1250 meters.

E5674. coil assembly for use with magnetic transformer. Complete includes 2-456 K.C. IF transformers and diagram.

E2709. Coil assembly KIT $12.20
E2710. Less I.F. transformers.

NOTE: Coil assembly above will perfectly match the Deans unit E7205 listed on page 126.

SMALL RIBBED TYPE

Genuine molded bakelite: 1/4" diameter, 2½" high. Have molded rim for ease of installation.

E5657. Broadcast Coil Kit, 2 coils cover range from 100 to 259 meters. NET EACH 94c
E5658. Ultra-Short Waves Coil. Covers range from 5.5 to 217 meters. NET EACH 45c

LARGE RIBBED TYPE

Large ribbed coils of molded bakelite for use with low-loss condensers. 1/4" diameter with 3½" winding space. Have molded rim at top for easy handling.

E5675. Broadcast Coil Kit, 2 coils cover range from 100 to 259 meters. NET EACH 94c
E5677. Ultra-Short Waves Coil. Covers range from 5.5 to 217 meters. NET EACH 45c

Band-Switching Coils

Covers 16 to 550 meters. Two or more units are easier to change. Has 4 prong base for easy mounting. Complete with pricker knobs, dual plate and diaphragm. For 100 muf. condenser.

E5661. List: $1.42
E5667. LIST EACH .95
E5668. LIST EACH .95

SPECIAL VALUE GANIT RIBBED COIL FORMS

High-grade ribbed coils. "High" and "Low" dials for amateurs and experiementers who wish their own coils easy to change. Can be wound for all bands to match any receiver.

E5629. 4 PRONG COIL KIT. Alum coil forms for general coverage. Covers 6 to 180. 22 to 65. 75 to 115, and 167 to 217 meters.

YOUR PRICE (4 COILS) $3.90

REPLACEMENT MAJESTIC I.F. TRANSFORMER COILS

With its original Majestic shield ears without change. Well-constructed. Thoroughly insulated. Supplied on double-stranded enameled wire. Coils are supplied with tuning condenser and case.

E5793. Majestic. 45C. $1.35
E5794. Majestic. 50C. $1.60
E5795. Majestic. 60C. $2.05
E5796. Majestic. 75C. $2.50
E5797. Majestic. 100C. $3.00

COIL ASSEMBLIES IN CANS

E5793. 15C. $1.35
E5794. 20C. $1.60
E5795. 25C. $2.05
E5796. 30C. $2.50
E5797. 40C. $3.00

BELMONT COMPOSITE IF AND OSCILLATOR COIL

For Models C-15, 50C, Viking 5C, etc. Suits dual band receivers. Fits same holes as original coil.

E5759. $2.35

CRISLEY UNTUNED I.F. COIL

E5794. Exact duplicate for Models 125, 126, 127, 128. No redrilling necessary.

YOUR PRICE .73c

We can supply exact duplicates, or adequate replacement coils for any tube or condenser. State name, model and type of set, where coil is used, hands covered, condenser type, length, etc. Cost depends on coil spec. Send old coil for quotation or remit with deposit for replacement.

THREE CIRCUIT TUNER

Tuner has primary, secondary and variable tuning condenser. Designed for use with Model 360 or 450 net. All controls are easily accessible.

E1704. Tuner. YOUR PRICE .78c

TAPPED FOR SHORT WAVE

Both the three circuit tuner and the R.F. coil hit hard for short wave. Send for free catalog. Write today. We can ship to all countries.

E1705. R. F. Coil to match Tuner .46c

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL. 129
UNIVERSAL GANG CONDENSERS

A tuning condenser of truly universal application. Has 3/8" shaft extending from both ends. Clockwise or counter-clockwise rotation in either direction. Solid, Bar type construction; and rear half-round bearings; high grade insulation; color grounding springs for each section. May be used with virtually everything.

Maximum instead

E2947. E6433 350
E6430

A diameter

3600

1" dia meter

E4149. NET EACH

$1.29

370 MMF. GANG CONDENSERS

New, easy-to-mount compact condenser assembly. Modern design and precise construction. Trimmers are mounted on both sides. Plates are spacers for accurate alignment. Maximum capacity, 30 micro- farads. Clockwise rotation extends 1½", counterclockwise reduces 1½". Can be used as tuning condensers in popular radio magazine complete sets. Each.

$1.45

CONDENSER COUPLING

Insulated, bakelite flexible shaft coupling. Ideal for use in connection of condensers, etc. For 3/8" shaft. E4149. NET EACH

$2.10

DE-JONG BAND-SPREAD TUNING UNIT

3 gang electrical band-spread tuning unit assembly. For use in the custom-built receiver. Equipped with universal type dial, solid, Bakelite base. Screwdriver adjustment. May be placed on either side of the dial face. Roll bearings on the shaft and band-spread section. For use with 10, 15, and 20 meter sections. Insulated with made-up, non-ferrous contacts that are perfectly insulated from the frame of the receiver. Each...

$7.65

E4114. .89c E4143. .55c

.150 MMF. GANG CONDENSERS

Compact short-wave gang condenser. Roll bearings. Trimmers may be mounted above or below, or on either end. 35 x 2½" end mount instead of the 30 x 1½" model used in Short-Wave receivers. Each.

$1.29

SHAFITTINGS

For Every Purpose

Split Bushing Coupling Extender

Unmounted

MH Shielded

E6606 20c E6607 50c

E6608 24c E6609 60c

E6610 30c E6611 60c

E6612 38c

E6613

RADIO FREQUENCY CHOKES

AIR-CORE

Compact, high-grade, air-cored band pass type, R.F. choke. High impedence, high Q, wound in non-ferrous metal, perfectly insulated from the frame of the receiver. Each...

$0.10

E6615 30c E6616 60c

E6617 90c

E6618 125c

E6619

FERROCART [Iron Core]... New High-Q R.F. chokes: may be used in place of air-core chokes for higher efficiency. Provide greater selectivity in either tuned or untuned plate circuits. Insulated against moisture. Each...

$0.10

E6795 5c E6796 10c E6797 15c

E6798 20c

POLARIZED

A new, efficient, popular R.F. choke. Ideal for use in connection of condensers, etc. For 3/8" shaft. E4149. NET EACH

$2.10

E6620 20c E6621 30c
PHOTO CELL - AUTO RADIO DIALS

PHOTO- ELECTRIC CELL BURGLAR ALARM

A newly designed, easily installed Burglar Alarm System. A new application of photo-electric cells. When in use, a beam of light is thrown across the room, moving across a door. Breaking this beam causes a bell to ring. Can be used in houses, shops, stores, etc., wherever a low cost burglar alarm system is required. Alarm will sound even if power lines are cut. For 110 volt, 1/2 amp. Complete exercises for both systems. E1232. $25.70

INVISIBLE LIGHT SOURCE

This instrument of this "light-said" invisible light source makes burglar alarm above depth effective, the intruder is not aware of its presence until it actually trips the alarm. Operates over a distance of 50 ft. E1233. Light Source Only. $6.60

EBY P.E. EQUIPMENT PHOTO CELL

A new type of photo cell designed to fulfill the requirements of the maximum sensitivity. Ideal for use in home-securing circuits, and for general experimental work. E4032. $3 8.

ELECTRIC EYE HANDBOOK

E4033. 32 pages of new material pertinent to photoelectric cells; gives hints and diagrams on adaptations of electric eye circuit. NET. $1 1.

SENSITIVE RELAYS

Designed for direct, or for building into half wave or full wave circuits, where the operating power is small. E4045. 1000 ohm coil. E4046. 2500 ohm coil. E4047. 5000 ohm coil. E4048. 10,000 ohm coil. E4049.

EXPERIMENTAL KIT

Necessary for building various Electric Eye circuits. Includes the Electric Eye; needle; tube and eye sockets, resistors, condensers, circuits and information. Get acquainted with this interesting field. NET. $9 6.

PHOTO CELL AND RELAY


PHOTO CELL LIGHT SOURCE

A newly designed light source for use with the above or similar photo-cell relay units. Operates from a 110 volt, 1/2 amp. auto radio. Light beam is green, and it produces a blue shade. 20" long, with hand. NET. $5 88.

STAR UNIVERSAL AUTO-RADIO CONTROL

FITS ALL CARS - FITS ALL RADIOS

A truly Universal Auto-Radio remote control assembly. Includes in this unit are such functional parts as: electronic or counter-clockwise operation; self-contained relay for any application; 6.3, 8, 10, 12 and 16 volt radio connections; 6 volt radio connections; adjustable momentary or on-off switch; adjustable on-off switch; automatic or manual operation; necessary provisions for tone control assembly; no backlash. Use con relay and switch. It is only necessary to purchase a one-piece installation. Complete with detailed instructions. E1239. $2 60

ACCESSORIES FOR ABOVE CONTROL

E5861. Type S-1. On-Off Switch. Completely wired. Ready to install wherever necessary. $5.60. E5862. Type T-1. Three Stage Tone Control. (With "Off"-"on" switch.) $1.18. E5863. Type T-2. Variable Tone Control. (100,000 ohms.) (Without "Off" switch.) $1.18. E5864. Type ST-1. 3 stage Tone Control. E5865. Type ST-2. Variable Tone Control. (100,000 ohms.) and "On" switch. $1 76.

STAR DASH-MOUNT PANELS

Select dash panel to match your car from picture below. Order panel with E8000 above to match a complete assembly. Knobs to match included price of panel.

E8001. Type S-1. On-Off Switch. NET. $5.60. E8002. Type T-1. Three Stage Tone Control. (With "Off"-"on" switch.) NET. $1.18. E8003. Type T-2. Variable Tone Control. (100,000 ohms.) (Without "Off"-on" switch.) NET. $1.18.

WE CAN SUPPLY PANELS FOR ANY CAR. WRITE FOR COMPLETE LIST.

AUTO RADIO REMOTE CONTROL ACCESSORIES

CABLE FITTINGS

The exact cable and housing used by leading radio makers. Being patterned to prevent rust. NET.

E8401. Type G-1. 16c. $0.18. E8402. Type G-2. 16c. $0.18. E8403. Type G-3. 16c. $0.18. E8404. Type G-4. 16c. $0.18. E8405. Type G-5. 16c. $0.18. E8406. Type G-6. 16c. $0.18.

HOUSING ENDS

E8468. Type C. $0.15 each. E8469. Type D. $0.15 each. E8470. Type E. $0.15 each. E8471. Type F. $0.15 each.

CABLE GEAR FITTINGS

For most popular auto radio cable assemblies. NET.

E8423. Type G-1. 24". $0.15 each. E8424. Type G-2. 24". $0.15 each. E8425. Type G-3. 24". $0.15 each. E8426. Type G-4. 24". $0.15 each. E8427. Type G-5. 24". $0.15 each. E8428. Type G-6. 24". $0.15 each.

ALLIED RADIO CORPORATION, 853 W. JACKSON BLVD., CHICAGO, ILL.
## VALUES IN MODERN DIALS

**11 1/2" LONG SLIDE-RULE**
- Beautiful, new, giant type to operate main dial. 11 1/2" long.
- Requires 3/4 x 3/4" opening in panel. Universal scale only. May be made to operate from main dial at any desired ratio. Mounts in 11 1/2" wide opening to suit your requirements. E4185. NET $3.82

**9 1/4" LONG SLIDE-RULE**
- A fine value in a new Slide-rule dial. 9 1/4" long. Requires 3/4" x 3/4" opening in panel. Universal scale may be made to operate from main dial at any desired ratio. Mounts in 9 1/4" wide opening to suit your requirements. E4184. NET $2.65

## KURZ-KASCH VERNIER DIALS

**3 1/2" INCH MODERNISTIC DIAL**
- An attractive modernistic type dial with large black face. Excellent for use on condensers with 3 1/2" x 3 1/2" opening in panel. Requires 3 1/2" x 3 1/2" opening in panel. Universal scale is provided for use with any pilot lamp or counter-clockwise condenser. Complete with two pilot light brackets. Ships wt., 1 lb. E4180. NET EACH $1.05

**2 3/4" INCH AIRPLANE DIAL**
- A smooth, positive action friction-drive dial, with a rapping sound, gives excellent performance. The dial is 2 3/4" in diameter, and is protected by a convex lens. With escapement and pilot light socket. Ships wt., 1 lb. E4175. NET $0.68

**4 INCH AIRPLANE DIAL**
- A high quality, high precision dial with universal scale. Great for precision work. Positive friction drive. Universal scale 3 1/2" x 3 1/2". With escapement and pilot light socket. Ships wt., 3 lbs. E4181. NET $1.05

**3 1/2" INCH AIRPLANE DIAL**
- A positive-action, smooth, positive friction drive dial. This dial is provided with a universal scale in both inches and millimeters. E4182. NET $0.85

## 6 3/4" LONG SLIDE-RULE

- Attractive new Slide-rule dial. 6 3/4" long. Requires 3 1/8" x 3 1/8" opening in panel. Universal scale only. Mounts in 6 3/4" wide opening to suit your requirements. E4183. YOUR NET PRICE $2.06

## MIDGET DIALS

**6" BAND-SPREAD DIAL**
- A beautiful dial with a 1/2" diameter, one-piece planetary drive providing bandspread equivalent to 1 1/2" at over 1000, and 1 1/2" at over 1000. May be made to operate from any desired ratio. Mounts in 6" wide opening to suit your requirements. E4179. YOUR NET PRICE $1.62

**5 1/2" AIRPLANE DIAL**
- A large handsome dial with design-protected glass face. Universal scale may be made to operate from main dial at any desired ratio. Mounts in 5 1/2" x 5 1/2" opening in panel. E4190. YOUR NET PRICE $3.97

## MOLDED DIALS

**110 VOLT CANDELABRA LIGHT DIAL**
- A complete 2 1/2" lighted dial, complete with light, for use on 110 volt circuits. Ships wt., 3 lbs. E4198. NET $29.60

**DIAL LITE COLORING KIT**
- Easily applied transparent colors. For use on pilot and light bulbs. Kit contains one bottle each: Green, Red and White, and a half bottle of solvent for cleaning bulbs. E2098. NET PER KIT $29.60

**EVEREADY MAZDA PILOT LIGHT BULBS**
- Genuine Eveready Mazda pilot light bulbs. Famous for quality and dependable hour life. These lamps are made to operate from the pilot lights described in this catalog. Excellent for all pilot lamp requirements. Will install on any high tension service in standard sets and fuses.

| STOCK Lamp | No. | Volts | Amps | PRICE PER | PER 
|-----------|-----|-------|------|-----------|------
| E1250     |     |       |      | 10c       | 10
| E1252     | 33  | 2.5   | 0.03 | 10c       | 10
| E1253     | 36  | 6.8   | 0.13 | 35c       | 35
| E1254     | 11  | 6.8   | 0.13 | 35c       | 35
| E1256     | 11  | 5.6   | 0.10 | 7c        | 7
| E1257     | 14  | 1.0   | 0.06 | 60c       | 6
| E1258     | 20  | 1.0   | 0.06 | 20c       | 20
| E1259     | 20  | 1.2   | 0.06 | 22c       | 22
| E1256     | 11  | 5.6   | 0.10 | 7c        | 7
| E1255     | 11  | 5.0   | 0.10 | 7c        | 7

## PILOT LIGHT SOCKETS

- Miniature type socket for use in pilot lights, for all radio requirements. Highest quality construction. E6449. NET EACH $0.20

## JEWELLED PILOT LIGHT BRACKETS

- Visual indicators for use on power amplifiers, relay racks, etc. Socket mounted on bracket takes pilot light bulbs. Single hole mounting. Serves as a definite means of knowing when your equipment is "on." Complete with jewel. E6388. Color EACH $0.15

## JEWELS FOR PILOT LIGHTS

- Attractive colored jewels with mounting nuts for pilot light bulbs. Shown on page 100, in sizes up to 3/4" in thickness. E6388. Color EACH $0.10

## AMEROID MARKED JEWELS

- New 1/4" dia. jewels with letter or number marking for Knobs, meters, and instrument. Mounts in 1/4" holes. E6390. Color EACH $0.25

## JUMBO JEWEL BRACKET


## 1" JEWEL BRACKET

- For transmitters, test equipment, relay racks, etc., 1" roundable jewel. Permits front-of-panel bulb replacement from front panel. E6293. Bulb replaces front panel bulb. E6294. Color EACH $0.24

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**LOWEST PRICES—HIGHEST QUALITY—BEST SERVICE**
FINE BAKELITE KNOBS

Conventional designs in very attractive bakelite. All fit 1/4" shafts. Listed in popular sizes. Type "C" is push on type. All others have set screws. Types E and D are especially adapted to midsize set knob replacements. Types A and B may be remounted for 10-24 lengths. Types A, B, C and D are deep walnut in color. Type C is blackish brown.

MODERNISTIC TYPES

Similar to above except not as deep. All have set screws and will fit 1/4" shafts. For use with ultra-kit and midsize sets. All have walnut colored except C which is black. All four types may be included in your assortment for 10-24 lengths.

POINTER KNOB


STRAIGHTLED BAR KNOBS

Modern knobs for test instruments, amplifiers, transmitters. While engraved pointers (except Fig. D) fit 3/4" shafts. Increased set screws.

INKMEN'S TUNING KNOBS AND DIALS

GENUINE WOOD KNOBS

Genuine wood knobs, beautifully made and finished. For 1/4" inch shafts. All boxed separately. Separate side screw. Buy several assortments and have them on hand when needed.

E6365 A

E6366 B

E6367 C

E6368 D

PRICE EACH PER 10

8c

70c

1.00

1.00

PUSH-BUTTON TUNERS

2 SPEED PLANETARY DRIVE

Used an auxiliary speed reducer on many models. Mounts on endless belt, back of panel, or on dial knob shaft. Speed ratio from 5 to 7 for fast rate 1 to 3 for 2" shaft.

E3756. NET 88c.

PLANETARY DRIVE KNOBS

For drive unit listed above. Large knob fits 1/2" high speed shaft; small knob fits 1/4" shaft.

E6107. NET 88c.

DIAL DRIVE RUBBERS

Set of 2 dial drive friction rubbers in eight different types. Used in such sets as RCA Atlantic, Supreme, Emerson, etc.

E6108. Box of 25 Belts.

List $0.25. NET $0.32.

BRAIDED SILK DIAL CORD

Durable dial cable of pure braided silk, with waterproof finish. Flexible, non-kinking. Easy to install.

E6070. 36". NET 55c.

E6071. 25 ft. NET 85c.

E6072. 100 ft. NET 1.35.

E6073. 500 ft. NET 3.15.

PHOSPHOR BRONZE DIAL CABLE

42 STRANDED NET 4.20

16 BRAIDED NET 1.35

EXACT DUPLICATE DRIVE CABLES AND BELTS

Exactly duplicates in size, material and design of the original. We can supply any type of cable or belt. Send in order on card. We will quote price. Stock No. Model Name

E6094. A. Allens Kent

E6095. B. trays 23 Kent

E6096. C. trays 24 Kent

E6097. D. trays 24 Kent

E6098. E. trax 23 Kent

E6099. F. trax 24 Kent

E6100. G. M. 23 Kent

E6101. H. M. 24 Kent

E6102. I. trays 23 Kent

E6103. J. trays 24 Kent

E6104. K. M. 23 Kent

E6105. L. M. 24 Kent

E6106. M. M. 24 Kent

E6107. N. trays 23 Kent

E6108. O. trays 24 Kent

E6109. P. trax 23 Kent

E6110. Q. trax 24 Kent

E6111. R. M. 23 Kent

E6112. S. M. 24 Kent

E6113. T. M. 24 Kent

E6114. U. M. 24 Kent

E6115. V. trays 23 Kent

E6116. W. trays 24 Kent

E6117. X. trays 24 Kent

E6118. Y. M. 24 Kent

E6119. Z. M. 24 Kent

KLAND SELECT-O-MATIC TUNING UNIT

A new, entirely automatic push-button tuning unit for use with sets having two condenser. Sets not now equipped with push-button tuning can easily be modernized by installing this unit. Tuning is accomplished through a series of switching condensers which are automatically set for desired stations. Five station buttons for automatic tuning will be released in conventional dial tuning. On dial, it is set for conventional dial tuning. Over-all dimensions: 1/2" wide. 1/4" deep. 1/2" high. Bronze on metal covers 5 3/4" wide x 1/2" high. With push knobs, station call letters, hardware, and full instructions.

E4191. NET $3.25.

KLAND MECHANICAL TUNER


E6755. For 200 Volts, A.C. or D.C.

E6756. For 600 Volts, A.C. or D.C.

EACH NET $3.53

MEISSNER REMOTE CONTROL

Convenient Remote Control push-button tuning for any tube or set. Tunes any 7 stations completely assembled and wired. In small cabinet set to suit, and wired, posts of set, and tubes. For 4 to 6 W.C. or 6 W.C. or S.W. sets. Walnut cabinet. 5½"x3¼"x4½" self-contained remote unit. Control unit. 15" cable and tubes. Shpg. wt., 4 lbs.

E6751. For 110 volts, A.C. or D.C.

E6752. For 220 Volts, A.C. or D.C.

EACH NET $15.58

MEISSNER TUNER

Push-button tuning for any TIP or TRF set, A.C. or D.C. set. Seven buttons provide automatic tuning of any station. Each push button is a release for manual tuning. Requires only setting of trimmer condenser for positive operation. Can easily be connected as a small low-microwave trimmer. Overall dimensions: 4½"x3¼"x1½". Supplied complete with escutcheon, station call letters, mounting hardware, and instructions.

E6752. NET $4.41

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
QUALITY METAL CHASSIS BASES

Allied now offers the most complete line of high quality chassis bases available anywhere. Each unit has reinforced or spot-welded corners for long lasting service. All are fitted on four sides with the exception of corner marked *, which are fitted on sides only, with ends open. Template is lead-covered. Aluminum plated and nickel finish wires are also steel. See Chassis Forming Service below for sizes not listed.

PANELS FOR ALL RADIO PURPOSES

Here is a complete selection of panels in a wide range of sizes and materials for every radio need. Sizes not listed will be cut to order (see prices below). Electricality and Aluminum panels are bright and have natural finish; Hard Rubber and Bakelite panels are 3/8" thick and have polished Burhle finish. All panels are 21/4" wide with black wrinkle finish. Only 3/4" thick are supplied in smooth black finish resembling bakelite.

SPECIAL VALUE CHASSIS BASES

Ideal chassis bases for experimenters and laboratories, with ends only (no sides). Sizes not listed will be cut to order. Prices include cut ends only.

COIL SHIELD CANS

Heavy-gauge non-magnetic metal shield cans with beautiful baked flat finish. These cans are available in two sizes and a variety of colors. All cylinders are supplied with spade bolts for mounting. Ideal for repair jobs or original construction.

SQUARE CANS

A popular type of coil shield can. These cans are supplied with spade bolts and ready for mounting.

METAL TUBE GRID CAP SHIELD

A necessity where metal tubes are used in high-gain circuits. This firmly over grid cap and is provided to pass grid lead.

REPAIR CEMENT

For repairing coils and speaker cones. Kit consists of one can of primer and one can of thinner for brush or pad brush.

BAKELITE TUBING

High grade smooth polished bakelite tubing. Natural finish. Excekt for 1/2 inch wall. Listing below gives inside diameter.

CRYSTAL-FINISHED CABINETS

Sturdy steel cabinet with hinged lids. Front and back panels are easily removed. Ideal for small tubes, tubes, motors, frequency meters, etc. Standing cabinet.

CRACKER TUBE SHIELDS

For ST12 Bulbs

Space-savers. Replace old shield with a snug-fitting shield and be assured of a drip-tight seal.

VENTILATED 3 PIECE SHIELD

For ST24 Bulbs, such as 6B9, 6B8, etc. Made of odorless metal, with curved in neck to hold tube. Shell measures 13/16" dia. x 1 1/4" high overall. Top with black grid shield. Under 30 cents. Each.

BAKELITE RUBBER COIL CLOTH

Finest tapistry material, with artistic design in interference black and gold. Sold for use with speaker grills. Neatly rolled. Furnished only in 1, 2, 3, 4, or 5/16" widths. Any length. E2916 Square Foot. 18c.

REPAIR CEMENT

For repairing coils and speaker cones. Kit consists of one can of primer and one can of thinner for brush or pad brush. E2930. NET 34c.

WIRE-FINISH VARNISH

An attractive modern wrinkle-finish for all metal chassis, panels, etc. Air-drying, with or without brush or spray. 1 pint:

$0.59 E9745

$0.59 E9746

$0.59 E9747

$0.59 E9748

$0.59 E9749

SPECIAL SIZES IN PER 1c PER SG. 1/4 PER SO. 3c PER SG. INCH

ROUND CANS

Well-finished attractively finished. E287 1/4" dia. x 3 1/2" E288 3/8" dia. x 3 1/2" 18c. 10c.

METAL TUBE GRID CAP SHIELD

A necessity where metal tubes are used in high-gain circuits. This firmly over grid cap and is provided to pass grid lead.

E2260. Per doz. 40c. NET EACH 5c.

E2264. 1/2" dia. x 3 1/2" 18c.

REPAIR CEMENT

For repairing coils and speaker cones. Kit consists of one can of primer and one can of thinner for brush or pad brush. E2930. NET 34c.

BAKELITE RUBBER COIL CLOTH

Finest tapistry material, with artistic design in interference black and gold. Sold for use with speaker grills. Neatly rolled. Furnished only in 1, 2, 3, 4, or 5/16" widths. Any length. E2916 Square Foot. 18c.

REPAIR CEMENT

For repairing coils and speaker cones. Kit consists of one can of primer and one can of thinner for brush or pad brush. E2930. NET 34c.

FOR ST14 and ST14 Bulbs

E2523. For ST12 straight side tubes such as 2A4, 27, 32, 35, etc. 2A25.

E2524. For ST14 dome-style tubes such as 2A4, 27, 32, 35, 2A5, D1A, 25, 45, 71A, etc. Every 5c.

LOTS OF 10 45c.

VENTILATED 3 PIECE SHIELD

For ST24 Bulbs, such as 6B9, 6B8, etc. Made of odorless metal, with curved in neck to hold tube. Shell measures 13/16" dia. x 1 1/4" high overall. Top with black grid shield. Under 30 cents. Each.

BAKELITE RUBBER COIL CLOTH

Finest tapistry material, with artistic design in interference black and gold. Sold for use with speaker grills. Neatly rolled. Furnished only in 1, 2, 3, 4, or 5/16" widths. Any length. E2916 Square Foot. 18c.

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BAKELITE RUBBER COIL CLOTH

Finest tapistry material, with artistic design in interference black and gold. Sold for use with speaker grills. Neatly rolled. Furnished only in 1, 2, 3, 4, or 5/16" widths. Any length. E2916 Square Foot. 18c.
FAMOUS AMPHENOL TUBE SOCKETS

CLIP-TYPE SOCKETS
Made of molded bakelite. May be mounted in any position. Special universal adapter plate with each socket permits quick replacement of any water socket.

- E4219 $4
- E4220 8 Prong...10 per 50c
- E4221 8 Prong 10 for 80c

"MIP" SOCKETS
Strongest sockets made. Heavy cadmium-plated steel plate is molded into solid, bakelite body. Wide flanges hold standard, low voltage, 1¼" mil. centers.

- E4501 $4
- E4502 $4
- E4503 $4
- E4504 $4
- E4505 $4
- E4506 $4
- E4507 $4
- E4508 $4
- E4509 $4
- E4510 $4

CHASSIS TYPE
For chassis hole mounting. With universal steel sheathing. Molded bakelite with expanded contact. Beautiful high resistance contact.

- E4001 $5
- E4002 $5
- E4003 $6
- E4004 $6
- E4005 $6
- E4006 $6

Genuine EBY SOCKETS

BAKELITE TYPE
One piece molded bakelite construction. For board or sub-panel mounting. Has one mounting contact. Guare. for 1000 uses. Threaded mounting centers.

- E4101 $4
- E4102 $4
- E4103 $5
- E4104 $5
- E4105 $5
- E4106 $5

BASE MOUNT SOCKETS
A molded bakelite socket for panel, baseboard, or sub-panel mounting. With integral binding post.

- E4215 $4
- E4216 $4
- E4217 $4
- E4218 $4
- E4219 $4
- E4220 $4

HOWARD B. JONES PLUGS AND SOCKETS
These heavy-duty, multiple-connector plugs and sockets are molded bakelite with heavy, nickel-plated metal caps, excellent on pub. address use. Equipped with metal cable clamps in top of cap.

- E4588 $2
- E4589 $2
- E4590 $2
- E4591 $2
- E4592 $2
- E4593 $2

SOCKETS

- E4594 $2
- E4595 $2
- E4596 $2
- E4597 $2
- E4598 $2
- E4599 $2

SAFETY TYPE PLUGS

- E4510 $5
- E4511 $5
- E4512 $5
- E4513 $5

SAFETY TYPE SOCKETS

- E4514 $2
- E4515 $2
- E4516 $2
- E4517 $2
- E4518 $2

WAFFER TYPE
SUB-PANEL SOCKETS
High grade wafer type sub-panel tube sockets of laminated bakelite construction. Solid and rugged with four mounted top. Connectors are filled with non-floating type, self-aligning, and of one-piece construction for low contact resistance; makes soldering contact with tube pinouts. Center set securely holds laminations together. Each socket has male locating ring and easy take out service.

- E4020 $5
- E4021 $5
- E4022 $5
- E4023 $5
- E4024 $5

STANDARD SIZE
1¼" Mounting Centers

- E4026 $5
- E4027 $5
- E4028 $5
- E4029 $5
- E4030 $5

MIDGET SIZE
1½" Mounting Centers

- E4026 $5
- E4027 $5
- E4028 $5
- E4029 $5
- E4030 $5

FOR ALL OCTAL BASE TUBES

- E4306 $6

SHIELDED CABLE CONNECTORS

- E4590 $5

TWO PIECE CONNECTORS
Connectors are two piece molded bakelite construction. Used in all panel handles. Easily connects and pulls. For two or more speaker plugs.

M ALE

- E4037 $5
- E4038 $5
- E4039 $5
- E4040 $5
- E4041 $5

FEMALE

- E4042 $5
- E4043 $5
- E4044 $5
- E4045 $5
- E4046 $5

HEAVY-DUTY RUBBER HANDLE PLUGS
Molded bakelite plugs and sockets mounted in unbreakable rubber handles. These plugs and sockets prove wise investment. 1½" panel handle.

- E4000 $5
- E4001 $5
- E4002 $5
- E4003 $6
- E4004 $6
- E4005 $6

BUKELITE MALE CONNECTOR PLUG
A molded two piece molded bakelite connector plug for use in baseboard or sub-panel. Each individual connector and plug, with molded insulation, in prevent shorting. For mated bakelite panel. Male fits fine to connect to other plugs.

- E4500 $5
- E4501 $5
- E4502 $5
- E4503 $5
- E4504 $5
- E4505 $5

SPEAKER PLUGS
Molded speaker plugs with prongs secured by plastic rings. Each individual connector and plug, with molded insulation, to prevent shorting. For mated bakelite panel. Male fits fine to connect to other plugs.

- E4000 $5
- E4001 $5
- E4002 $5
- E4003 $5
- E4004 $5
- E4005 $5

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL. 135
H & H TOGGLE SWITCHES
Underwriters approved; rated at 250 volts. 1 amp. 1000 volts 1/4 to 15 amperes. Screw terminals. Spring loaded bronze finish. Threaded stem. 1/4" dia. Supplied with two lock nuts. Have three insulation and solder lug connections. For sets meters, lamps, etc.

SINGLE POLE SINGLE THROW
E5450. 1/16" 19c $1.80
E5451. 1/8" 19c 2.10
E5452. 5/32" 22c 2.40
E5453. 1/4" 22c 2.90
E5454. 1/2" 24c 3.40

DOUBLE POLE SINGLE THROW (3 LUGS)
E5455. 1/16" 22c $4.20
E5456. 1/8" 22c 4.70
E5457. 5/32" 25c 5.80
E5458. 1/4" 25c 6.70
E5459. 1/2" 28c 9.60

MIDGET METAL POM KNOBE KNIFE SWITCHES
Spring tension. For panel or base mounted switches, 70 blades and contacts; 200 springs. DRilled for mating switch. No. 17379. 50c. No. 173791. 75c.

MIDGET BAKELITE KNOFE KNIFE SWITCHES
Soldered. Many uses in experimental work. Switches have bases of bakelite laminated with brass and other resistive contacts. Nickel plated brass shaft.

PUSH-BUTTON SWITCHES
Cadmium plated contacts. Fully insulated. Bakelite handle. Locking type makes contact with knob pushed in; returns to normal position upon release of knob.

G. E. ROTARY A.C. SWITCH
With 8 insulated contacts. Rated at 3 amperes, 125 volts, single phase. Underwriters' approved. 1-0-1 and 1-0-2 forms.

NEW FEDERAL ANTI-CAPACITANCE SWITCHES

TEST BUZZER BUTTON
Pearl button held in place by spring clip. Has many uses. 12c

MIDGET KNOBE SWITCHES
For panel or base mounted switches, 70 blades and contacts; 200 springs. DRilled for mating switch. No. 17379. 50c. No. 173791. 75c.

YAXLEY GANG SWITCHES
For test equipment and general radio and laboratory work. Switches have 1 position and 1 adjustable stop. Rigidly built. Have laminated bakelite insulated and phenolic bushings. 2-2 and 2-3 switches are spaced %". 3 gang in 1" between contacts. Notched %" shaft may be easily shortened. Requires 1/4" mounting hole. Complete with knob, but less dial plate.

SINGLE GANG SWITCHES
E1950. Non-Shorting Type Pole Pos. Paid Net. Each. 1 1.00 $0.59
E1955. S.P.D.T. $0.80
E1956. S.P.S.T. $0.75
E1958. S.P.D.T. 1-11/4%" 1.50
E1959. S.P.S.T. 1-11/4%" 1.45

TWO GANG SWITCHES
E1960. S.P.D.T. 1-11/4%" 1.50
E1963. S.P.S.T. 1-11/4%" 1.35
E1964. S.P.D.T. 1-11/4%" 1.35

THREE GANG SWITCHES
E1940. S.P.D.T. 1-11/4%" 1.35
E1941. S.P.D.T. 1-11/4%" 1.25
E1942. S.P.S.T. 1-11/4%" 1.25

YAXLEY 17 POINT TAP SWITCH PLATES
For multiple switching. Arm short between contacts. Switches have oxidized bakelite, phosphor-bronze springs. 2" square. 175 to 190. With knob, less dial plate.

E1993. NET. 79c

SHORT WAVE SELECTOR SWITCHES
Designed for new sets having two 2 to the wave bands. Self-limiting contacts to prevent shorting. Switches for panel above, diode, with %" x 5/8" steel shaft. Laminated bakelite insulation. With nut and lock washer.

E4070 1 1 1 40c
E4071 1 2 1 45c
E4072 2 1 1 50c
E4073 2 2 1 55c

INDUCTANCE SWITCHES

E8950 50c
E8951 1 EACH 38c
E8952 5 EACH 45c
E8953 10 EACH 45c

CENTRALAB TONE SWITCHES

E3271. Pole, 1 position. $0.25
E3272. 2 Pole, 2 position. $0.50

DOUBLE PHONE PLUG
Molded bakelite. Hard-ware brass nickel-plated. Takes 3 sets of cord tips. 1.58

E5515. Lid, 50c. NET. 1.9c

FLAT TYPE PHONE PLUG
Molded bakelite. Hard-ware brass nickel-plated. Takes 3 sets of cord tips. 1.58

E3272. 2 Pole, 2 position. $0.50

SWITCH LOCK
For automobile radios, etc. Key with button. Key withdrawn only in locked position. Nickel-plated. 3/4" hole. Bakelite. Switch is not grounded. Has thumb lock. With two keys. Single pole, two terminals. Connects on one circuit.

E2905. NET. 49c
**JACKS - PLUGS - CLIPS - CONNECTORS**

**BINDING POSTS**  
**EBY JUNIOR**  
Insulated posts with non-screw terminal type, Dia. 1/4". Screw is self-tapping.

**COMBINATION**  
Top section will receive any size binding screw, the screw part will take phone tip of your choice.

**EBY TWIN**  
Consists of standard and end post. Inside posts mounted on molded bakelite, insulated, 5/16", white bakelite insulated type.

**GRID CAPS**

**STANDARD**  
Sure connect socket clips. Type A is for standard binding. Type B is for new metal tubes.

**COMBINATION**  
Reversible type cap designed to fit both bakelite and metal tubes. Have 12 leads with standard phone hole.

**INSULATED**  

**BATTERY BINDING**  
Quadruple adaptors are main storage battery type, 12 terminals each. Has knurled design for connecting lead wires.

**FAHENSTOCK CLIPS**

**CORN TIPS**  
**STANDARD**

**IMP PLUGS**

**PLUG BUTTONS**  
Plated brass buttons for covering up punched or deformed holes, etc., of any metal up to 3/16" thickness. Plated for nickel finish.

**PLUGS & JACKS**

**TEST CLIPS**  
Alligator-type clips, easy to get into tight places. Handy for many instruments. Each fits all banana plugs. Strong wire.

**TWIN JACKS**  
Laminated type, Fig. A. 2/4" long. Per Doz. 38c.  
Large jack, Fig. B. 2/4" long. Per Doz. 50c.  
FIG. A. Speaker.  
FIG. B. PHONE.  
PER 10 FOR 55c. EACH.

**TRIPLE TIP JACKS**  
Laminated bakelite. For microphones, etc.  
PER 10 FOR 61c. EACH.

**MOLDEDWIREJACKS**  
Fig. B. Or molded bakelite; insulated, double.  
PER 10 FOR 61c. EACH.

**SHORING TYPE**  
Particularly designed for use in point-to-point analyzers. Circuit automatically when controls are removed. Single mounting screw.  
Resembles Fig. B.  
PER 10 FOR 12c.

**PLUGS & JACKS**

**TIP JACKS**

**ALLIGATOR TYPE**  
Laminated type clips, easy to get into tight places. Handy for many instruments. Each fits all banana plugs. Strong wire.

**BANANA TYPE**  
Per Doz. 38c.  
Fig. A. 2/4" long. Per Doz. 38c.  
Fig. B. 2/4" long. Per Doz. 5c.

**INSULATED TYPE**  
New type sure-grip contacts for smooth, positive action. Insulated head and shoulder washer. Ideal for use on metal chassis or panels for hand-rubbed or soldered connection, or for test equipment.

**INSULATED TIP BANANA PLUGS**

**CONNECTORS**

**IMP PLUGS**

**CORN TIPS**

**BANANA PLUGS AND JACKS**

**BABY BANANA PLUGS AND JACKS**  

**INSULATED TIP JACKS**

**ALLIGATOR TYPE**

**BANANA TYPE**

**IMP PLUGS**

**CORN TIPS**
**MUCUER BATTERY CLIPS**

**LITTLESFUSES FOR TEST INSTRUMENTS**

Littelfuse offers a wide range of test instruments, including milliammeters, microammeters, and voltmeters. These instruments are ideal for testing electronic components and circuits.

**FUSES • BATTERY CLIPS • HARDWARE**

**JAW NET, 1E6501.**

Coated steel, spring.

**SPECIAL HIGH FOR F.**

For fuses, these high-quality brass-coated fuses are particularly made.

**FUSES**

- **Type 3AC**
  - **Buss Quality Fuses**
  - **Fractional Sizes**
  - **Metal Tapping Screws**
  - **Lug Screws**
  - **Hexagonal Nuts**
  - **Escutcheon Screws**
  - **Rack Screws & Washers**

**SOLDIERING LUGS**

For soldering and repair work. May be used with any standard lug. They listed in this catalog are ideal.

**TUBULAR Rivets**

Designed for attaching and repair work. May be used with any standard lug. They listed in this catalog are ideal. Much faster than screws and nuts.

**SWITCH POINTS AND STOPS**

Solid brass; heavy nickel-plated with 4 in. 6-32 nuts. Switch points.

**EYELETS FOR ABOVE**

Solid brass; heavy nickel-plated with 4 in. 6-32 nuts.
ALL-PURPOSE WRENCH

A indispensable item for the handyman, experimenter, or serviceman. A two-edged tool that will prove invaluable to any seaman or serviceman. It is provided with interchangeable jaws, such as Sigismund jaws, of various sizes, and a set of 12 assorted sizes. Heads are hardened and tempered steel, and will stand up to hard usage. The wrench has a built-in pliers and is made to stand up to the test of time. Priced at $7.45.

1000 PIECE HARDWARE ASSORTMENT

A large assortment of metal nails, screws, and bolts, etc., that will prove indispensable to any experimenter or serviceman. This assortment includes a wide variety of sizes and types, and is a valuable addition to any workroom or tool kit. Priced at $1.76.

SCREW ASSORTMENTS

For all radio service and set building needs. Each kit contains a variety of screws in standard lengths. The kits include both machine screws and standard screws. Priced at $23 each.

BRACKET ASSORTMENT

Contains a variety of brackets and braces for radio work. The assortment includes a wide variety of sizes and types, and is a valuable addition to any experimenter's tool kit. Priced at $26 per box.

FIBRE WASHER ASSORTMENT

A large assortment of fibreglass washers, made of high-quality fibre. These washers are useful in a variety of applications, and are available in a wide range of sizes and types. Priced at $2.40 per box.

SET SCREW ASSORTMENT

Contains a variety of set screws, made of high-quality steel. These screws are useful in a variety of applications, and are available in a wide range of sizes and types. Priced at $1.32.

INSULATED GROMMETS

A large assortment of insulated grommets, made of high-quality fibre. These grommets are useful in a variety of applications, and are available in a wide range of sizes and types. Priced at $1.16 per box.

RUBBER^INSULATING PLATES

Ideal for insulating metal parts and electrical connections. These rubber-insulating plates are available in a wide range of sizes and types, and are a valuable addition to any experimenter's tool kit. Priced at $1.90 per box.

NEW AC-DC ELECTRIC SPEED DRILL

Here is a high-quality electric speed drill at a remarkable low price. Very rugged construction, set light in weight and easy to handle. The entire motor is designed for long life. The stud head will not protrude to and including a 1/2", drill. Tool grip handle has a high-speed-controlled switch. High speed built on page 141 are also available to drill 1500 R.P.M. Drills 1/2" from corner. For 110 V. A.C. or D.C. With 7 foot cord. Wt. 4 lbs.

POLISHING HEAD OUTFIT

A complete polishing kit for home or shop use. By using a 1/8" to 1/4" horse- scheen motor, it makes an efficient tool for polishing aliminum, but- ton, sawing, or drilling. Consists of an end head, chuck, table and guide, cotton burl, brush, brush, brush, screw, head, belt, polishing compound, and a steel drill. Ideal for a speed-controlled chuck. Polish has a capacity of 2.5. A spring-controlled case. Each outfit includes a 2 ft. roll of high-grade polishing paper, 2 rolls of polishing paper, 2 rolls of polishing compound, 2 rolls of polishing water, and 2 rolls of polishing oil. Polished in red enamel. Wt. 6 lbs.

TOUCH-UP SPRAYER

Ideal for painting small parts, cabinets, furniture, auto, etc. This sprayer is designed to operate efficiently from a very low pressure and is capable of drilling an automotive tire. It is equipped with a 1/4"-28 thread, high-grade paint valve, an adjustable nozzle, a gauge spray, a rubber hose, and a spare nozzle.

CABLE CLAMPS

The 1/4" size fits 1/4" cable; 1/4" size fits 1/2" cable. Made of high-grade steel, cadmiumplated steel, cadmium plating and hardened steel. Have a No. 61466. 1/4" long. 14677. 1" long. For 6. 14688. 16c.

RADIO REPAIR LITE

A handy tool destined to save time and trouble. It will not rust, and will last a lifetime if properly cared for. The cable clamps are designed to be used on all types of cabling, and are a valuable addition to any experimenter's tool kit. Priced at $1.25.

POCKET TOOLS CASE

A high grade, two part, metal case with a cover that will serve as a carrying case in your hip pocket. Will hold a great variety of tools, and is made of genuine leather, double welted, with snap-on flaps. Fully elastic, and adjustable shoulder strap. Complete with adjustable shoulder strap. Complete with adjustable shoulder strap. Priced at $5.90.
NON-SKID SCREWDRIVER
Shock-proof, with ribbed points. Handy foun- dation tool, and for driving. American-made. E7712, 3/8" blade, 10 for $1.08. E7711, 5/16" blade, 10 for $1.08. E7710, 1/4" blade, 10 for $1.08. E7718, 13/32" blade, 10 for $1.08.

FIRM-GRIP SCREWDRIVERS
Forced chrome-vanadium alloy steel blades, accurately ground to an exact shot; touch; hammer-proof. American-made. E7716, 3" inch blade, YOUR PRICE $30. E7715, 2 1/4" inch blade, YOUR PRICE $30. E7717, 8" inch blade, YOUR PRICE $42.

INSULATED BLADE TYPE

MIDGET SET SCREWDRIVER
Especially shaped to fit into set screws of long head fasteners. Overall length, 1 1/2". Specially hardened blade. 3/8"-long amber handle 2 3/4" long x 5 3/4" dia. Complete with pocket clip. E1604. 10 for 81c. EACH. 9c.

HANDY LOW COST SCREWDRIVER KIT
A popular kit of three screwdriv- ers in the most useful sizes. Comes in convenient tool belt holder for shop wall mounting. Each screwdriver has insulated handles and fin- ger guard. Blades measure 3/8", 5/16", 7/32". American-made. This is one of our most popular tool kits. A very fine value. E7719. NET PER SET. 38c.

FLEXIBLE SHAFT SCREWDRIVER
Here is a screwdriver that will eliminate a lot of fumbled fumbling. Special flexible shaft allows its use in many awkward places where an- other screwdriver wouldn't reach. Has insulated movable screwdriver holder, fluted molded handle. 8" long. E7739. YOUR PRICE 88c.

GRIIP-IT SCREW DRILL HOLDERS
A simple easy attachment that will make any screwdriver a screw-holding type. Simply slip on the handle of your screwdriver, and it is ready for work. Set of 3 sizes to fit all screwdriver sizes. E5470. Set of 3. NET PER SET. 15c.

MEULLER SNAPPER
May be used to snip nuts and screws in out-of-the-way places; serves as test clip in inaccessible spots, or may be used as a good probe. Consists of universal clip mounted in a long in- sulating tube. Push-button on the top opens and closes clip. American-made. E6480. BLACK. EACH. 35c.

VALUES IN PLIERS

KRAEUTER PLIERS
The new, famous Kraeuter pliers. With new non-slip rubberized finish, the scarf laboriously hard-

EDGERS. VALUE ON THESE.

NEW MIDGET UTILITY PLIERS
The handheld, strongest little pliers available. Made of chrome vanadium steel. Have four adjustments up to 8", and will reach those hard-to-get-at places which are practically impossible to reach with any size other. Really indispensable for your tool kit. American-made. E7780. YOUR PRICE 38c.

END WRENCH SET

WIRE STRIPPER
This efficient, time-saving tool streamlines from wire easily and cleanly, and is an all-purpose made of tempered steel. Slips, when used, in American-made. A handy little tool. E7722. YOUR PRICE 9c.

LENN BLOW TORCHES HI-HEAT BLOW TORCH

MODEL 24 BLASTORCH

IMP GASOLINE HAND TORCH
Entirely automatic gasoline hand torch. Flame temperature is over 2000°F. Has priming cup for quick starting. No pumping or blowing nec- essary. Ideal for use when a fusing or brazing heat is required. E6206. YOUR PRICE 69c.

CABINET REPAIR KIT
Here is a practical, inexpen- sive repair kit that will meet any emergency, or do any cabinet repairs. Complete kit consists of: an assortment of variousAthir: 21100° and 2c700° models; for easy filling. One 5"x2" HI-HEAT BLOW TORCH. Arbor 104. Uses gasoline. $1.18. E6206. YOUR PRICE $1.32.

RCA CABINET REFINISHING KIT
For refurbishing any cabinet, desk, or case; for adding life to any painted or varnished surface. Each- one has cleaning unit. Complete kit consists of; a wire brush; a scraper; steel wool; glasses. 5"x2" HI-HEAT BLOW TORCH. Arbor 104. Uses gasoline. $1.18. E6206. YOUR PRICE $1.32.

HANDBY SCRATCH REMOVER
Handy scratch remover for use in touch- ing up scratches on any kind of wood, metal, or plastic for servicing. One end has filters for build- ing up scratches. Use end for marred or scratched in- sulation polish and stain. E7600. NET 22c.

140 MAKE ALLIED YOUR RADIO SUPPLY HEADQUARTERS
CIRCLE CUTTERS
A fine value in an American-made tool.
Immaculately made for clean and accurate circular holes.

- Designed to cut large holes accurately and quietly. May be used in small-diameter drill press or hand held for small holes.
- Type No. 4 is a standard professional cutter, made from hardened steel. Designed for heavy-duty work. Type No. 4 is a professional cutter, made from hardened steel.

E7731. No. 4. Cuts holes 3/16" to 1/4" in diam. NET... $1.25
E7730. Junior. Cuts 0.125 to 0.250": NET... 78c
E7732. No. 5. Square Shank. Cuts holes to 0.250": NET... 1.88
E7733. Diamond Shank. NET... 1.88
E7735. Extra Cutter blades for No. 4 and No. 5 in 3 sizes = 24c

NEW CHASSIS GUARDS
A practical, new, low-cost aid to efficient radio servicing. Projects tubes, diodes, and other sensitive parts through a glass screen, keeping them from accidental damage. Made specifically for your chassis, and will截断 any part that is easily damaged with ribbed easy-to-grip, heavy-duty handles. Off-set type for easy passing into tight spaces.衝断 all normal parts used in radio work; American-made.

Net Size | Each | Set of 6
---------|------|-------
E2055 | $1.15 | $6.98
E2056 | $1.15 | $6.98
E2057 | $1.15 | $6.98
E2058 | $1.15 | $6.98
E2059 | $1.15 | $6.98
E2060 | $1.15 | $6.98

ACRO CHASSIS CRADLE
An absolute necessity for efficient radio servicing. Permits quick access to tubes, diodes, and other sensitive parts through a glass screen, keeping them from accidental damage. Made specifically for your chassis, and will截断 any part that is easily damaged with ribbed easy-to-grip, heavy-duty handles. Off-set type for easy passing into tight spaces.衝断 all normal parts used in radio work; American-made.

Net Size | Each | Set of 6
---------|------|-------
E1602 | $4.75 | $27.00

ROD CHASSIS CRADLE
Made especially for radio work; features a exclusive vacuum formed plastic plate and base that is strong and durable. Can be easily used to locate any desired part on the chassis, and is easily removable for cleaning. Made specifically for your chassis, and will截断 any part that is easily damaged with ribbed easy-to-grip, heavy-duty handles. Off-set type for easy passing into tight spaces.衝断 all normal parts used in radio work; American-made.

Net Size | Each | Set of 6
---------|------|-------
E1616 | $4.75 | $27.00

SADDLE CHASSIS CRADLE
An absolute necessity for radio work; features a vacuum formed plastic plate and base that is strong and durable. Can be easily used to locate any desired part on the chassis, and is easily removable for cleaning. Made specifically for your chassis, and will截断 any part that is easily damaged with ribbed easy-to-grip, heavy-duty handles. Off-set type for easy passing into tight spaces.衝断 all normal parts used in radio work; American-made.

Net Size | Each | Set of 6
---------|------|-------
E1618 | $4.75 | $27.00

HOLLOW HANDLE WRENCH SET
American-made.

- Ideal for slim and tool box. Hollow handle holds all sizes. Sizes 7/16" to 1" and 1/2" and screwdriver socket. 1/2" sq. head. Handle holds handle for good gripping surface. Wide metal sheath.

E7737. YOUR PRICE... 54c

LOCK-SOCKET WRENCH SET AND SCREWDRIVER
A set of 5 sockets in various sizes, and a lock type wrench handle can be used with any set of sizes, square and hexagonal nuts. Sizes: 1/4", 5/16", 3/8", 7/16", 1/2" straight extension, 1/4" hex socket in 1/4", 3/8", 1/2", sizes, 2 square sockets in 1/4" and 3/8", sizes. 1 round nut socket, not lock type wrench handle. Potential locking device holds tools firmly to handle.

E5516. YOUR PRICE... 79c

SOCKET WRENCH SET
A set of 6 sockets in various sizes, and a lock type wrench handle can be used with any set of sizes, square and hexagonal nuts. Sizes: 1/4", 5/16", 3/8", 7/16", 1/2" straight extension, 1/4" hex socket in 1/4", 3/8", 1/2", sizes, 2 square sockets in 1/4" and 3/8", sizes. 1 round nut socket, not lock type wrench handle. Potential locking device holds tools firmly to handle.

E5517. YOUR PRICE... 79c

FLEXIBLE SHAFT SOCKET SET
Flexible insulated steel shaft will bend around corners. For tidying up wires and for use in reaching inaccessible places. For use in reaching inaccessible places. For use in reaching inaccessible places. For use in reaching inaccessible places.

E7800. YOUR PRICE... 36c

RADIO CHASSIS PUNCHES
These new punches make it easier to enlarge holes in any metal used in radio work, without damaging the metal. Consists of two punches driven to 3/4" to 1" diameter and are reusable to ordinary tools. Has comfortable fitted shock absorbing handle. 15" long, equipped with six hexagonal heads, 5/8", 1/2", and 3/4". Nickel plated sockets convex interchangeable.

E7752. YOUR PRICE... 1.76

VOLUME CONTROL WRENCH
A unique design that works. An adjustable handle that can be set to any size without damage to any metal excepting plastic. Made from three half-inch steel rods. Easily adjustable for any size of metal, and is easily adjustable for any size of metal.

E1001. YOUR NET PRICE... 59c
SOLDERING IRONS AND ACCESSORIES

KNIGHT SOLDERING IRON
55 WATT MODEL
A well-designed high quality KNIGHT 55 watt iron suitable for every service. 115 volts A.C. or D.C. Ships free. Heats up quickly; stays hot. Two types of plugs are supplied - 2 wire and 3 wire. The 2 wire type is 2 3/16" long. The well-shaped handle re- places foot heater in the KNIGHT in an outstanding value at our price.

100 WATT KNIGHT SOLDERING IRON
A high quality all-purpose iron. Has 1/4" hex diameter removable (screw-in) copper tip. With black insulating handle and 6 foot heater cord. You get your money's worth in this fine iron.

ERICA SOLDERING IRON
A well-designed, practical soldering iron. Heating element is of the highest quality Nichrome wire. Designed to heat and cool in three minutes. Handle remains cool even after the iron has been on for hours. Plunger type tip is easily removed for cleaning or new or hot hard soldering wire. Iron ideal for dandruff and rubber. Snap-on soldering iron holder supplied free. Iron is 5 1/2" long. List $7.20.

MARVEL ELECTRIC SOLDERING IRON
A high quality soldering iron, ideal for general radio, television and electrical work. Has a Nichrome wire element and 2 1/2" diameter copper tip. Equipped with a short, heavy -duty, stay -cool handle and 3 foot Underwriters' approved cable. Only 19 inches long. Heats quickly and stays hot; runs on 110 volt A.C. or D.C. operation. Easy to use; retains heat efficiently.

NEW INSTANTOT 6 VOLT SOLDERING IRON
Heats instantly from a 6 volt storage battery. Ideal for auto mechanics, farmers, service men. No wires to short or tangle. Complete with extra heating elements, battery post, insulating cover, dry -fire, solder, iron. Only $1.31.

GARDINER RADIO SOLDER RING CORE
A dependable precision radio core solder developed especially for electrical and radio work. Pure copper, assures freedom from tin. Pure copper, solder, wires, etc. 1 lb. $1.05.

SOLDERING IRON TIPS
High quality replacement plunger type copper tip. Four soldering irons as good as new.

100% OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDER SOLD.
NOISE-ELIMINATING FILTERETTES

NOISE MANUAL

A helpful manual published by the Tobe Deutschmann Corp. Containing information on how to prevent electrical noise and how to prevent interference from radio set. Will pay for itself on the first installation. E8449. NET $29c

MODEL 7 AC-DC POWERLINE FILTERETTE

An easy-to-install tube capacity type line filter which will effectively remove noises and buzz from electric light socket or wall receptacle. Excellent for use with any line filter unit. Completely removes disturbing radio frequencies from power line. For 110 volt line. Shpg. wt. 1 lb. E8406. NET $59c

RAZOR FILTERETTE

A practical filter unit to reduce both hum interference and radio static. Excellent for early morning programs, time signal on radio, etc. Reduces the disturbing buzz of your razor. Just plug unit in wall receptacle and plug into razor. E8402. NET $59c

FILTERETTE JUNIOR

A single stage thoroughly efficient filter which eliminates radio interference from vacuum cleaners, radio tuners, fans, mixers, barber clippers, etc. E8404. NET $1.03

MODEL RF-2

Designed to eliminate noises coming from the power line. Effective filter for use with any radio or appliance requiring high capacity units. For installation in any wall receptacle. For use on any line where noise is not severe. E8405. NET $1.03

SPRAGUE INTERFERENCE ELIMINATION CONDENSERS AND CHOKES


AEROVOX FILTERS

IFIL Type for line interference. Completely factory-built. Simple one-minute filter attachment. Ideal for use in conjunction with radio and phonograph. Filters are adaptable to any line where voltage fluctuation may cause interference. Measures: l%"x2%". Shpg. wt. 4 oz. E9553. List. $1.75. NET $279

TYPE IN-24 ELIMINATOR

Eliminates power line interference. Completely factory-built. Simple one-minute attachment. Measures: l%"x2%". Shpg. wt. 1 lb. E9556. NET $44c

TYPE IN-29 FILTER

An efficient filter especially suited for use in reducing interference from sources which are variaable in character but strong in intensity. Ideal for eliminating noise caused by the erratic firing of high tension and other equipment. Fits in between connection cord of device and electrical outlet. Measures: l%"x2%". Shpg. wt. 1 lb. E9557. NET $73c

TYPE IN-30 FILTER

A highly efficient filter for eliminating noise from small and mediumsized appliances, with capacity of more than 100 volts A.C. or D.C. Measures: l%"x2%". Shpg. wt. 1 lb. E9558. NET $88c

TYPE IN-27 FILTER

For use between radio set and electrical outlet. Works to reduce noise interference to relatively small. Also suitable for application directly to wall outlet for appliances which are sources of low intensity interference. Measures: l%"x2%". E8454. NET $29c

INTERFERENCE ANALYZER

A device designed to determine immediately which of the above filters is needed to eliminate specific noises. Filters are small, simple to install and effective. Measures: l%"x2%". For A.C. or D.C. Shpg. wt. l lb. E9695. YOUR NET PRICE $7.35

TACO H-F ALL-WAVE LINE FILTERS

A composite filter containing three complete filter circuits. Covers short-wave, medium-wave, and long-wave frequencies, as well as the stand-ard broadcast band. Also covers interferences caused by the installation of electrical appliances, radio sets, and other equipment. Assures enjoyable noise-free radio reception. E5564. List. $1.44

FILTERETTE INSTALLER

An efficient new filter to eliminate moderate noise caused by various types of electrical appliances, radio sets, fans, mixers, etc. Eliminates noise caused by these sources. E8453. List. $1.75. YOUR NET PRICE $1.03

Allied Radio Corporation, 823 W. Jackson Blvd., Chicago, Ill., 143
NEW RCA-VICTOR MASTER ANTENNA

A new and extremely efficient noise-reducing antenna that matches almost any receptor to reduce noises emanating from electric appliances. Set coupling transformers provide individual setting for elimination of noise from old, new, or used receivers, electronic devices, etc. The complete assembly consists of a balanced doublet and transmission line with parallel counterpart. Will greatly increase overall set performance on AM frequency from 530 to 7,000 Kc. No. 9852 is supplied loose coupling transformer for use with all 1929 RCA sets having built-in coupler. No. 9852 can be used on any set having conventional antennas-ground line. An ideal blade demonstration antenna offering actual noise reduction to fit the individual installation. A really remarkable advance in antenna design—especially ideal for the installations that require minimum installation.E7540, No. 9854, Model MA.

LEADLESS coupling transformer. NET...
E7546, No. 9855. Complete with set coupling. NET ...
E7458, No. 9846. Receiver coupling only, NET ...

RCA POPULAR PRICED NO. 395 ANTENNA SYSTEM


PRICE $7.50, List. $8.95, NET...

RCA "SPIDER-WEB" ALL-WAVE ANTENNA

New communications type antenna designed for peak efficiency. Consists of a series of doublets with high efficiency, low-inductance transformation line. As a type antenna having the best performance in overall signal strength. Made of lightweight ceramic, finished in glaze for maximum noise-reduction efficiency. Simply assembled, includes 5 cm of 22K stranded wire antenna wire; receiver and antenna coupling transformer. List...

HIGH-FREQUENCY KIT

E7581, No. 9905. This kit when added to the Spider-Web increases range to 100 ft. to 150 ft. Shpg. wt. 3 lbs.

PRICE $5.26, List. $5.85, NET...

IMPROVED RCA "MAGIC-WAVE" ANTENNA SYSTEM

A new All-Wave antenna system offering many new features to improve noise reception. Antennas made of No. 9810 or 100 to 150 ft. in length. As many as 16 sets may be used with no serious loss in signal strength. New magnetic covers in antenna and receiving transformers give high efficiency. This unique magnetic covers in antenna and receiving transformers give high efficiency. This unique antenna design is recommended for use with 1200 or 7000 Kc. or with any set of any type. The complete kit is factory wired for use with a 50 foot antenna wire and has two 12000 Kc. or 7000 Kc. All sets are provided with a special transformer. Kit...

ADDITIONAL TRANSMISSION LINE FOR RCA ANTENNAS

E7534, No. 9816. 60 foot roll. For use with No. 395, No. 9615 or No. 9822 antenna...

Price...

RCA-VICTOR ANTENNA SYSTEMS & ACCESSORIES

E7530, No. 12855. Receiver Coupler Unit 100...

RCA ANTENNA ACCESSORIES

Airplane Insulator...Strap-on strain relief insulator mounted inside for use on guy wires or any part of wire for antennas. Made of lightweight ceramic, finished in glaze and durable, 6-1/2 in. long and 3/8 in. wide. List...

Strain Insulator...Sturdy, split knobs of glazed white porcelain. Designed to prevent strain and breaking of wires. Made of lightweight ceramic.

 xây Wall Insulator...White glazed porcelain ring mounted in a sturdy galvanized screw eye. For fastening lead-in wire in almost any wall. Strong and durable; will hold up indefinitely.

Eye Wall Insulator...Plastic, non-absorbing porcelain, glazed at center. Inside dia. 8", Outside dia. 10", Length 6", Shpg. wt. 2 lbs.

CROSSOVER INSULATOR...Designed for use with double-double antenna system. Made of lightweight ceramic.

Porcelain Tubes...Durable, non-absorbing porcelain, glazed at center. Inside dia. 8", Outside dia. 10", Length 10", Shpg. wt. 2 lbs.

Pottery Connectors...Connectors for porcelain insulators and leads in cables to either auto or home aerial connection. Can be individual. List...

Insulated Staples...5/10 inch long. Use for attaching any kind of wire to a foreign or aerial system. Can be individual. List...

RCA-VICTOR ANTENNA SYSTEMS & ACCESSORIES

E7421. EA...

Insulated Staples...5/10 inch long. Use for attaching any kind of wire to a foreign or aerial system. Can be individual. List...

144 MAKE ALLIED YOUR RADIO SUPPLY HEADQUARTERS
ALL-DIRECTIONAL AERIAL

Increases the selectivity and sensitivity of any set. An unusual efficient antenna of new design. Permits absolutely all-directional reception. Will materially improve reception on short wave bands; makes possible improved efficiency on broadcast band. May be quickly installed with a few minutes' work. Eliminates all masts, poles, long guy wires, davits, etc. Requires only a very small space for mounting. E1010. List $1.95, YOUR PRICE $1.95.

PREMAX TELESCOPING STEEL MASTS

Sturdy, nest-appearing, weather-proof aerial supports. Made of substantial steel tubing, combining strength with light weight. Finished in baked green enamel. Each section is 3½ feet long. Base fittings are adjustable to fit any roof. Additional sections may be added, excellent quality; built for lasting service. No. Leth. Ext. Wt. NET.

E1000 3 1/4 ft. 3 lbs. $1.75
E1002 6 ft. 6 lbs. $2.18
E1003 9 ft. 8 lbs. $2.76
E1004 12 ft. 10 lbs. $3.34
E1005 15 ft. 3 sections extension to 45 ft. $5.90

TENSION INSULATOR

A double-purpose insulator which holds antennas or lightning conductors. May be used with any antenna. Wt., 1 lb. E11297, YOUR PRICE 7c.

AERIAL ACESSORIES

WINDOW LEAD-IN

Fits between sash and all. Universal connector on each end. Durable and effective. E3428, 16 inch. 5c, E3427, 12 inch. Per 100, 2.95. NET EACH 4c.

DOUBLE-WINDOW LEAD-IN

Designed for use with any type of wall, window, or transmission line. Completely insulated; with screw terminals; 1 1/2 in. E6198, YOUR PRICE 9c.

MUELLER CLAMP

Durable and rigid because of channelled construction. Class 1 enamelled copper. Catalogued plated. E6508, Lot of 25. 46c, Lot of 100, Lots, 4.25. NET EACH 6c.

GRIPPER GROUND CLAMP

The clamp may be used on any type of pipes up to 3 inches diameter. Polished screw assures positive contact through paint or rust. E3599, EAC. 10 lbs. 25c.

KNOC-OUT GROUND CLAMP

An efficient and easily attached clamp which makes easy and convenient installation. E344, Per 10, .35c. NET EACH 4c.

KNIGHT STANDARD ALL-WAVE ANTENNA

An efficient, All-Wave Antenna at a remarkably low price. Will provide maximum signal strength in any locality with greatly reduced noise-level. May be used with any radio set having input for either single or double wire lead-in. Special type transmission line cancels out wire noise interference and may be extended for several hundred feet without affecting performance of set. E3389. NET $1.21.

KNIGHT DE LUXE ALL-WAVE ANTENNA

IDEAL FOR THESE SETS:

Crosley Knight Zenith S.E. Gruen or for any set with standard or double input.

This is one of the finest factory assembled All-Wave antennas available. It utilizes the famous doublet principle to provide maximum signal strength. The special transmission cable cancels out noise, thus permitting clear, interference-free reception. A proper impedance match is assured through the use of a two-position coupling transformer. The Knight De Luxe Antenna is quickly and easily installed. The 50 foot overall length makes it well-adapted for locations where space is limited. The Knight De Luxe Antenna is designed to give best results in the Broadcast as well as Short wave bands. Coupled to any set having input for either single or double type.

COMpletely ASsembled

This Antenna Kit is completely assembled at the factory. It consists of 2-50 foot rolls of stranded copper wire completely assembled with a porcelain insulator and 50 ft. of special transmission line. Also supplied are: 2-3/8 inch porcelain sash and sill. 3-double lightning arresters; 1-dou- ble lightning arrestor; 1-dou- ble lead-in strip, and instructions.

E3391. NET $1.95.

BABY BAKELITE ARRESTER

Absolutely dependable, safe, weather-proof. Uses new enclosed, high speed operation on low voltage. Absolutely safe, and will carry heavy discharges. E6199, 10 FOR 80c., 100 FOR $7.25. EACH 9c.

E3307. NET $1.50. 'Duplex Type.' For double aerials. Shipping wt., 1 Ib. NET. $28c.

E314. NET $1.10. 'Triplex Type.' For triple aerials. Shipping wt., 2 lbs. NET. $49c.

E3432. NET $3.50. 'Triplex Type.' For triple aerials. Shipping wt., 2 lbs. NET. $49c.

E3432. NET $3.50. 'Triplex Type.' For triple aerials. Shipping wt., 2 lbs. NET. $49c.
AERIALS • AERIAL ELIMINATORS

TACO ALL-WAVE AERIALS

MODEL 210 DE LUXE SELF-SELECTING

A new self-selecting all-wave aerial, electronically and mechanically designed to render highest possible efficiency. The use of dual construction—built-in transformers assure perfect match to any broadcast, short-wave, or All-Wave receiver. Entirely adjustable, and provides maximum signal pickup.št

Transmitter: 1—Receiver Transformer; 2—10 ft. rod antenna; 1—10 ft. wire antenna; 2—lead-in wire. Each antenna is individually tuned to the interfering signal. The attenuation is 10 DB. Easily adjusted.

E5679. LIST $7.00.

MY PRICE $3.97

MODEL 310 STANDARD ALL-WAVE AERIAL

This high quality, farmer-assembled antenna is designed to eliminate interference on the broadcast band. Self-assembly makes it easy to install on any set and includes larger signal-to-noise ratio in any location. Contains 1 Transformer; 2— lead-in wire antennas; 1—10 ft. rod antenna; and complete instructions. The attenuation is 10 DB. Easily adjusted.

E5681. LIST $10.00

MY PRICE $2.65

AERIAL ELIMINATOR and ANTENNA TUNER

This new device operates as a noise reducer when used with an outdoor aerial. May also be used itself as an indoor aerial. Easily installed; works with any receiver; will increase reception; increases volume on weak waves.

E5654. LIST $12.00.

MY PRICE $5.99

MEISSNER WAVE TRAPS

Interference created by powerful local stations, cross modulation, road arrestants, cross talk, etc., can readily be eliminated by using these traps. They are simple in operation with the aerial lead-in wire, near the receiver, and can be tuned to the interfering signal.

DUAL UNIVERSAL MODEL

Will eliminate unwanted, interfering signals in the broadcast, police and commercial bands. Controls turn from 400 to 1000 K.C. and from 650 to 1500 K.C. Iron-core construction makes a peak coupling of 50 db. The attenuation is 25 dB. Easily adjusted.

E5680. LIST $15.00.

MY PRICE $7.50

FOR BROADCAST BAND

FOR AMATEUR BAND

E5652. 400 to 700 K.C. EACH

E5655. 20 Meter Band

E5656. 80 Meter Band

E5657. 160 Meter Band

E5658. 406 K.C. Model

USING SOFT-WAVE TRAP

E5659. 1500 to 6000 K.C. EACH

RCA UNIVERSAL WAVE TRAP

Transmit interference occurring between 400 and 750 K.C. Inexpensive, road arrestant, aerial to be used to eliminate any interference. All universal, may be used with any radio set. Hap universal. Perfect for radio reception.

E5682. LIST $1.50.

MY PRICE $1.56

NOISE-REJECTING TACO COUPLER


E6415. LIST $2.50.

MY PRICE $1.47

RECEIVER MATCHING TRANSFORMER

A new well-made unit designed to give a good match to any double aerial unit of 1000 to 4000 K.C. Will raise or lower the frequency of the receiver, making it easier to tune in stations. Useful in eliminating noise and increasing signal strength on all bands. Can be plugged in receiver. Will give effective results in increased sensitivity and signal pickup.

E5654. LIST $8.50.

MY PRICE $5.99

AERIALS • AERIAL ELIMINATORS

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MODEL 210 DE LUXE SELF-SELECTING

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E5657. 160 Meter Band

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E5654. LIST $8.50.

MY PRICE $5.99
Belden Magnet Wire

GLAZED COTTON MULTIPLE CABLE

LEAD-IN-WIRE

NEW Belden Aerials

A new, high-speed, double-layer, all-wave doublet system. A high-speed, double-layer, all-wave doublet system has been designed to provide maximum coupling and minimum losses in the higher frequency bands. The system consists of two insulated conductors, each surrounded by a separate outer braid. The outer braids are separated by a thin insulating layer, providing maximum isolation and minimum coupling. This arrangement offers improved performance over conventional single-layer systems, especially in the higher frequency bands. The system is suitable for use in a variety of environments, including broadcast, amateur, and industrial applications. The system is characterized by its high-speed capability, low losses, and improved coupling efficiency, making it an ideal solution for high-performance applications.
AERIAL WIRE AND EQUIPMENT

SPECIAL VALUE AERIAL KITS

DE LUXE AERIAL KIT

An exceptionally fine kit. Will improve broadcast reception. Contains 100 feet of stranded copper aerial wire; 20 feet of rubber-covered lead-in wire; 25 feet of ground wire; 2 porcelain insulators; 2 screw-eye insulators; 2 black rubber-covered strips. Can be easily removed in any location or location following the complete easy installation period, module kit. Shipped, 8 lb.

E3486.

STANDARD AERIAL KIT

A real value in a complete aerial kit. Includes all materials for a "Marconi type" antenna for use with any receiver. Contains 90 feet of 17-gauge stranded copper aerial wire; 25 feet of rubber-covered lead-in wire; window lead-in strap; two porcelain insulators; two nail heads; and an adjustable strain-garanty clamp. Conveniently boxed. Complete instructions are included. Shipping weight, 1 lb.

E3485.

YOUR SPECIAL PRICE...

RUBBER COVERED LEAD-IN WIRE

Twisted Pair Sheathed Lead-In Wire

For an All-Wave aerial. Special covering, stranded copper conductors; weatherproof insulation with closely wrapped copper sheathing all over.

No. Ft. Price
E3470 25 $0.95
E3471 50 $1.90
E3472 100 $3.32
E3473 150 $4.35
E3474 200 $5.38
E3475 250 $5.84
E3476 500 $10.65
E3477 1000 $21.14
E3478 1375 $31.49

Solid Wire

High quality 16-gauge rubber-covered lead-in wire.

No. Ft. Price
E3440 25 $0.95
E3441 50 $1.90
E3442 100 $3.32
E3443 150 $4.35
E3444 200 $5.38
E3445 250 $5.84
E3446 300 $6.32
E3447 1000 $21.14

SHIELDED LEAD-IN WIRE

For broadcast use. Non-corrosive, high-grade stranded, rubber-covered or tinned wire.

No. Ft. Price
E3492 25 $0.95
E3493 50 $1.90
E3494 100 $3.32
E3495 150 $4.35
E3496 200 $5.38
E3497 250 $5.84
E3498 500 $10.65
E3499 1000 $21.14

COMBINATION LEAD-IN AND AERIAL WIRE

10 Strands of No. 10 copper wire, insulated with cotton, first class. Digital, Non-corrosive, an all-purpose wire for aerial, lead-in and set-up work.

No. Length Ft. Price NET
E3470 25 0.95
E3471 50 1.90
E3472 100 3.32
E3473 150 4.35
E3474 200 5.38
E3475 250 5.84
E3476 500 10.65
E3477 1000 21.14

FLEXIBLE INDOOR ANTENA WIRE

For A.C. and D.C. and indoor sets. Moisture-proof cotton covering. Beige, beaded, beaded with stranded copper or rubber covering. May be conveniently inserted under rugs or underholdings.

No. Feet Price NET
E3483 100 37.50
E3484 100 12.00

BATTERY CABLES

Well-made. For battery, speaker, and analyzer connections. Copper and rubber-covered. Wire may be conveniently installed under rugs or underholdings.

No. Feet Price NET
E3500 100 10.00
E3501 250 25.00
E3502 500 45.00
E3503 1000 85.00

ANALYZER CABLE

For use in testing or modifying test equipment, for panel, tube, and sets. Well-made, stranded copper and rubber-covered. Wire may be conveniently installed under rugs or underholdings. 2500 Feet Cable

No. Feet Price NET
E3504 100 10.00
E3505 250 25.00
E3506 500 45.00
E3507 1000 85.00

VALUE AERIAL KITS

EXCEPTIONALLY HIGH-QUALITY ALL-DRAWN COPPER WIRE. Has high conductivity and very little "draw." Stranded copper wire will not corrode. Ideal for all types of aerials. Single-lead or "Combination" type. For All-Wave, Select-Wave, or Broadcast aerials. Makes it possible to use one type of aerial for both waves. AERIAL WIRE VALUES

STRAINED ENAMELED

7 STRANDS No. 22
Excellent for All-Wave aerials.

E3444 30 ft. for EACH. 23c
E3445 40 ft. for EACH. 33c
E3446 50 ft. for EACH. 43c
E3447 60 ft. for EACH. 53c
E3448 70 ft. for EACH. 63c
E3449 80 ft. for EACH. 73c
E3450 90 ft. for EACH. 80c

STRAINED BARE

7 STRANDS No. 22

E3435 30 ft. for EACH. 17c
E3436 40 ft. for EACH. 23c
E3437 50 ft. for EACH. 33c
E3438 60 ft. for EACH. 45c
E3439 70 ft. for EACH. 63c
E3440 80 ft. for EACH. 73c
E3441 90 ft. for EACH. 76c

STRAINED No. 26

Excellent for A.M. only.

E3444 10 ft. for EACH. 17c
E3445 20 ft. for EACH. 33c
E3446 30 ft. for EACH. 45c
E3447 40 ft. for EACH. 63c
E3448 50 ft. for EACH. 73c
E3449 60 ft. for EACH. 76c
E3450 70 ft. for EACH. 76c

STRAINED No. 20

E3434 5 ft. for EACH. 15c
E3435 10 ft. for EACH. 30c

STRAINED No. 10

E3433 10 ft. for EACH. 15c
E3434 20 ft. for EACH. 30c

PHOSPHOR BRONZE

Stretched, solid copper wire. Has high conductivity when new. Wire is commercially used on ships. Used for electrical work.

No. Ft. NET EA.
E3451 25 5.01
E3452 50 9.99
E3453 100 19.99
E3454 150 29.98
E3455 200 39.97
E3456 250 49.96

HANDYCORD LAMP CORD

Rigid, stranded copper cord; copper-covered, rubber-covered, in tough rubber sheath. Special line cord for use under all conditions. For a.m. only.

No. Gauge Feet EA.
E3457 20 50 0.90
E3458 10 50 1.90
E3459 7 50 2.90
E3460 5 50 3.90
E3461 3 50 4.90
E3462 2 50 5.90

GIANT SPAGHETTI

Black rubber-covered, stranded wire, as used in oil lamps, 3/4" inside diameter, 30' long.

E3489, 30' NET. $1.25

RUBBER SERVICE CORD

Round flexible rubber-covered cable. 18/30 stranded copper conductor, rubber-covered, with rubber wrapping and outer rubber sheath.

E3435, 2 COND. 100 FT. $2.55, PER FT. $3.00
E3436, 3 COND. 100 FT. $3.30, PER FT. $4.00

TEST-LEAD WIRE

Extra-heavy A.C. test lead wire. Ideal for electrical work. No. 18 stranded copper wire, double braided, covered with braided cord.

E3438, 100 FT. $8.60
E3439, 200 FT. $17.00
E3440, 500 FT. $40.00
E3441, 1000 FT. $80.00

E3488. BLACK
S FOOT COILS, EACH.

148 TAKE ADVANTAGE OF OUR 2% FREIGHT ALLOWANCE
CABLES FOR EVERY PURPOSE

MULTI-COCONDUCTOR CABLES

COTTON BRAID OVERALL

No. 18 stranded conductors, each coated with white cotton. All conductors covered with braid. Cotton braid over all. Any length.

Size No. Cond. Feet 100 Ft.
E3500 00 06 150 $1.39
E3501 00 07 165 1.66
E3502 00 08 180 2.00
E3503 00 09 195 2.38
E3504 00 10 210 2.90
E3505 00 11 225 3.42
E3506 00 12 240 4.00
E3507 00 13 255 4.45
E3496 00 14 270 6.00

WOVEN SHIELDING OVERALL

lightly woven overall shielding of fine tinned copper wire. Each is No. 18 conductor coated with rubber jacket. Any length.

Size No. Cond. Per Ft. 100 Ft.
E3530 00 03 3c $2.45
E3531 00 04 4c 3.00
E3532 00 05 5c 3.75
E3533 00 06 6c 4.50
E3534 00 07 7c 5.25
E3535 00 08 8c 6.00
E3536 00 09 9c 6.65

TELEPHONE WIRE

For telephone and multiple speaker installations. High-grade No. 19 solid tinned copper. Has fine rubber insulation with glazed cotton braid overall.

E2494.2 Conductor. 100 Ft. $1.20
E2495.3 Conductor. 100 Ft. $2.15
E2496.4 Conductor. 100 Ft. $3.10
E2497.5 Conductor. 100 Ft. $4.00
E2498.6 Conductor. 100 Ft. $5.00

HEADPHONE AND SPEAKER CORDS

Copper tinned inner conductor covered with finely woven cotton braid. Tips are finely stranded.

SINGLE CORDS

E2604.3 ft. cord. Tips on one end; spades on other. For speaker cord.

E2633.4 ft. cord. Tips on both ends. For speaker cord.

DOUBLE CORDS

E2635.6 spades on one end. Tips on other. For 5 cord. E2636.8 ft. cord. Tips on both ends. 5 ft. cord.

SPECIAL OFFER

10 for $1.75. 100 for $16.95.

HIGH GRADE MAGNET WIRE ON SPOOLS

Single coated copper wire at highest quality for all radio and electrical purposes. Wound on spools in continuous lengths. Excellent for winding radio and television transformers, rewinding piece transformers and coils. For Model Radio Wire or Magnet Wire, specify color and roll size. For larger quantities than listed below, write for attractive prices which will save you money on quantity purchases of magnet wire.

PLAIN ENAMELED

DOUBLE COTTON

DOUBLE SILK

SINGLE COTTON

CABLES FOR EVERY PURPOSE

MULTI-COCONDUCTOR CABLES

COTTON BRAID OVERALL

No. 18 stranded conductors, each coated with white cotton. All conductors covered with braid. Cotton braid over all. Any length.

Size No. Cond. Per Ft. 100 Ft.
E3500 00 06 150 $1.39
E3501 00 07 165 1.66
E3502 00 08 180 2.00
E3503 00 09 195 2.38
E3504 00 10 210 2.90
E3505 00 11 225 3.42
E3506 00 12 240 4.00
E3507 00 13 255 4.45
E3496 00 14 270 6.00

WOVEN SHIELDING OVERALL

lightly woven overall shielding of fine tinned copper wire. Each is No. 18 conductor coated with rubber jacket. Any length.

Size No. Cond. Per Ft. 100 Ft.
E3530 00 03 3c $2.45
E3531 00 04 4c 3.00
E3532 00 05 5c 3.75
E3533 00 06 6c 4.50
E3534 00 07 7c 5.25
E3535 00 08 8c 6.00
E3536 00 09 9c 6.65

TELEPHONE WIRE

For telephone and multiple speaker installations. High-grade No. 19 solid tinned copper. Has fine rubber insulation with glazed cotton braid overall.

E2494.2 Conductor. 100 Ft. $1.20
E2495.3 Conductor. 100 Ft. $2.15
E2496.4 Conductor. 100 Ft. $3.10
E2497.5 Conductor. 100 Ft. $4.00
E2498.6 Conductor. 100 Ft. $5.00

HEADPHONE AND SPEAKER CORDS

Copper tinned inner conductor covered with finely woven cotton braid. Tips are finely stranded.

SINGLE CORDS

E2604.3 ft. cord. Tips on one end; spades on other. For speaker cord.

E2633.4 ft. cord. Tips on both ends. For speaker cord.

DOUBLE CORDS

E2635.6 spades on one end. Tips on other. For 5 cord. E2636.8 ft. cord. Tips on both ends. 5 ft. cord.

SPECIAL OFFER

10 for $1.75. 100 for $16.95.
BUICK-OLDS RUNNING BOARD INSULATOR KITS

E10451. FOR 1937-38 BUICK
For installation under running boards. Molds antennae out of running boards by inserting this. Includes 8 insulators. Easy to install. Approx. 2 lbs. Ea. $2.94

E10452. FORDSOLSTICATIONS sold as above, but for Oldsmobile 1937 and 1938 models. Ea. $2.94

CARFLO AUTO AERIAL "FITS ANY CAR TOP"

A new development in auto antennas. Absolutely non-directional design gives increased signal pickup and clarity, stronger efficiency, and less noise. Constructed of one-piece seamless drawn copper tubing. Wt., 7 lbs. Ea. $2.95

E10470. Polished Chromium. Net. $2.95

WARD AUTO AERIALS THE "FLEXOR"

Highly efficient. Fits door-hinge of any car from 1946 on. Covered with polished chromium finish. Flexible and easily installed. Will increase signal pickup and improve reception. Complete with 4 ft. lead-in wire and snap-in bracket. Ea. $2.06

E10383. Net. $1.62

THE "QUINLAN"

A two-section cone antenna for use on any automobile. Made of rustproof bronze-steel. Complete mounting requires no drilling. Length collapsed is 20" extended, 45". Easily and quickly installed. Afords optimum signal pickup. Wt. approx. 2 lbs. Ea. $1.73

E10386. Net. $1.73

THE "FISHPOLE"

Contains flexible, telescoping 8 foot rod with insulating bracket and lead-in wire. Easily attached to rear bumper. Complete isolation from motor noise, permitting clear signal pickup with less possibility of interference. Fitted with insulating system. With 12 foot lead-in wire. Ea. $1.76

E10382. Net. $1.76

LONG-TWIN RANGES

A new dual-section undercar antenna with signal pickup equaling that of other type aerials. Sealed in rubber; absolutely weather-proof. No drill necessary. Attaches to 60" shielded lead-in wire. Shgl. wt. per item, 12 lbs. Ea. $1.35

E10381. Net. $1.35
EXPRESS DUPLICATE SPEAKER CONES

Select your field coil from the following listing and from the coil section in the catalog. We
will supply all necessary dimensions and we will ship your order immediately.

For midget 5" and 6" speakers, use 22 gauge wire and

1.82

PARALLEL RESISTANCE RANGE

Ohms Type 1 Type 2 Total
2-400 9.46 8.78 18.24
4-600 8.96 8.46 17.42
6-800 8.53 8.06 16.59
8-1000 8.16 7.72 15.88
10-1200 7.84 7.41 15.25
12-1400 7.56 7.15 14.71
14-1600 7.30 6.89 14.19

ALSO FOR GENERAL REPLACEMENT

With the following cones you can now service practically any type of speaker on the market. Coils have 2-wire leads. We supply them either in series or parallel to obtain the resistor range required. Bases are available at additional charges. Please specify if desired.

For small diameter cone type 1, please specify if desired.

$1.82

CENTERING SHIMS

Safeguard your speaker from the probably inevitable heartbreak of a mispositioned centering shim. Available in various sizes.

For 4" speakers—80 436—4 shim—$1.99

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KIGHT DYNAMIC SPEAKERS

KIGHT 6" DYNAMIC
A compact dynamic speaker capable of startlingly smooth performance. Quality-built, it adequately fulfills all requirements for reproduction in medium-sized sets. Strong voice coil is 3/4" diameter; impedance is 3 ohms at 400 cycles. With universal type transformer, matching any output stage. Shpg. wt. 4 lbs.
E9256. 6 Volt Field. each $1.69
E9257. 12 Volt Field. each $1.69
E9258. 1800 Ohm Field tapped at 300 Ohm. each $1.69
E9259. 2500 Ohm Field. each $1.69

KIGHT 5" DYNAMIC
Developed especially for use in the new compact receivers. 6 volt model is ideal for use as a replacement speaker for auto radios. Correct design and alignment of cone and voice coil assembly eliminates distortion even at full volume. Voice coil is 3/4" in diameter; impedance is 3 ohms at 400 cycles. Only 5 inches in diameter and 3 1/2 inches deep. With universal transformer, matches all tubes. Shpg. wt. 4 lbs.
E9254. 6 Volt Field. each $1.48
E9255. 12 Volt Field. each $1.48
E9256. 1800 Ohm Field tapped at 300 Ohm. each $1.48
E9257. 2500 Ohm Field. each $1.48

KIGHT 8½" DYNAMIC
Ideal for use with consoles and small Public Address Systems. Will handle full volume without overload or distortion. Correctly aligned voice coil and cone assure maximum efficiency. Voice coil 3 1/2" diameter; impedance is 3 ohms at 400 cycles. Diameter overall is 8 1/2"; only 7 1/2" deep. Universal type transformer matches all tubes. Shpg. wt. 7 lbs.
E9261. 1000 Ohm Field. each $2.25
E9262. 1800 Ohm Field tapped at 300 Ohm. each $2.25
E9263. 2500 Ohm Field. each $2.25

KIGHT 12" DYNAMIC
Well-built speakers with excellent power-handling ability. Superior twin voice coil, will efficiently handle watts. Ideal for consoles type radios. Universal type transformer matches all tubes. Wt. 8 lbs.
E9531. 1000 Ohm Field. each $3.69
E9532. 1200 Ohm Field. each $3.69
E9533. 2500 Ohm Field. each $3.69

KIGHT 3½" DYNAMIC
The smallest efficient dynamic speaker on the market. Particularly adaptable for use in small A.C.-D.C. and where compactness and space economy are important. Has excellent frequency response and will handle a maximum large amount of volume. With flange mount, 3/4" watts maximum input; 450 ohm field; 3 ohm voice coil. Extremely popular with radio builders and experimenters. This amazing little speaker will give excellent reproduction with the ability of larger speakers to handle the highest volume without any distortion. 20 per box. each $1.29
E9460. YOUR PRICE

KIGHT P.M. DYNAMIC
A new line of Knight high-quality permanent magnet-dynami c speakers with exceptional features. Extremely sensitive; with surprising high power-handling ability. Requires no field current, excitation. Extremely suitable for consoles, and as a universal interchangeable for high-power-staged sets. P.A. systems, extension speakers, etc.

WITH UNIVERSAL TRANSFORMERS
Universal transformers are included on all except 3½" size. Speaker magnets of special "Alnico" alloy produce greater magnetic flux. Ones are of seamless non-resonant material. Girdle frame construction throughout.

CAT. NO. SPEAKER SIZE SENSITIVITY INPUT FIELD IMPEDANCE SPEAKER VOLT POWER WATTS WEIGHT SHIP. WT. NET PRICE EACH
E9528 3½" 3-6 Ohms 2 2 lbs. $1.49
E9529 3½" 3-6 Ohms 4 4 lbs. $1.49
E9530 3½" 3-6 Ohms 6 6 lbs. $1.69
E9531 3½" 3-6 Ohms 8 8 lbs. $1.99
E9532 3½" 3-6 Ohms 10 10 lbs. $2.59
E9533 3½" 3-6 Ohms 12 12 lbs. $3.99
E9534 3½" 3-6 Ohms 16 16 lbs. $4.99
E9535 3½" 3-6 Ohms 18 18 lbs. $6.39

UTHA DYNAMIC SPEAKERS

UTHA 3½" "PERMO-MAG" DYNAMIC SPEAKER
A P.M. Dynamic Speaker that is small in size, but big in results. Built to exacting standards to provide the maximum power-handling ability, sensitivity, and performance. Has tone quality which is amazingly good for its small size. Completely dustproofed. Will give excellent service even under continuously blasting use mounted in any position; is especially adaptable for use in rugged wireless where space is a premium, economical, small in size, light in weight, for radios, receivers, etc. Has 3/4-ohm voice coil; maximum input, 12 watts. Shpg. wt. 2 lbs.
E9345. 3½" 3/4-Ohm Field. each $1.78

UTHA DYNAMIC SPEAKERS

UTHA 5" DYNAMIC SPEAKERS
A popular-priced line to fit the budget of the amateur and Public Address man, and make possible the enjoyment of the highest quality: construction is sturdy and vibration-proof. There's a model for every speaker need.

MODEL "Q" DYNAMICS
Each model of these new dynamic speakers incorporates every valuable feature of full-size speaker design, providing for the excellent reproduction so important in any reproduction equipment. Economical and reliable, these speakers give outstanding service at a moderate cost. Their quality construction gives fine frequency response. Each is constructed to give maximum power-handling ability, regardless of speaker load. A model for every price range and every operating ideal for all purposes where high quality units are required. In both old and new installations.

5 INCH DYNAMICS
E9329. Type Q508. 4 ohm field with universal output transformer. List, $4.40. NET, $3.40 each $2.70
E9330. Type Q108. 8 ohm field tapped at 400 ohms, with single 4 ohm output transformer. List, $4.40. NET, $3.40 each $2.70
E9331. Type Q108. 8 ohm field tapped at 300 ohms, with single 3 ohm output transformer. List, $4.40. NET, $3.40 each $2.70

5 INCH DYNAMICS
E9332. Type Q1010. 1000 ohm field with universal output transformer. List, $6.50. NET, $5.50 each $3.82
E9333. Type Q1010. 1000 ohm field with universal output transformer. List, $6.50. NET, $5.50 each $3.82
E9335. Type Q1110. 1000 ohm field with universal output transformer. List, $6.80. NET, $5.80 each $4.14

10 INCH DYNAMICS
E9336. Type Q1210. 1000 ohm field with universal output transformer. List, $7.50. NET, $6.50 each $4.41
E9337. Type Q1210. 1000 ohm field with universal output transformer. List, $7.50. NET, $6.50 each $4.41

UATHA "PERMO-MAG" DYNAMIC SPEAKERS

An entirely new line of P.M. Dynamic Speakers with a quality and finish that must be seen to be appreciated in full. Selection and composition of magnet provides amazing high efficiency; the "Permo-Mag" is fully the equivalent of the same size electrodynamic speaker. Finest grade components are utilized. These speakers are designed for strong power without distortion. Excellent for use in Power Amplifiers and Public Address systems.

6½ WATT MODEL
E9338. Type Q5S0. 2½ ohm voice coil, with universal output transformer. List, $3.50. NET, $2.60 each $2.06
E9339. Type Q5S0. 2½ ohm voice coil, with universal output transformer. List, $3.50. NET, $2.60 each $2.06

6 WATT MODEL
E9340. Type Q5S0. 2½ ohm voice coil, with universal output transformer. List, $4.15. NET, $3.24 each $2.44
E9341. Type Q5S0. 2½ ohm voice coil, with universal output transformer. List, $4.15. NET, $3.24 each $2.44

8½ WATT MODEL
E9342. Type Q5S0. 2½ ohm voice coil, with universal output transformer. List, $5.50. NET, $4.70 each $3.23
E9343. Type Q5S0. 2½ ohm voice coil, with universal output transformer. List, $5.50. NET, $4.70 each $3.23
MAGNETIC & DYNAMIC SPEAKERS

JENSEN SERIES "S" DYNAMICS

A new series of high-grade speakers for general replacement purposes. Outstanding for rimmed-construction and excellent tone response. Completely disassembled for easy repair.If adjustable output transformer is needed, order E1120 at 94c net.

MODEL HS5 5-INCH

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Field Coil</th>
<th>Input Imped.</th>
<th>NET EACH</th>
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<tbody>
<tr>
<td>E0650</td>
<td>3000 ohms</td>
<td>50 ohms V.C.</td>
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<tr>
<td>E0651</td>
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<td>40 ohms V.C.</td>
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<tr>
<td>E0652</td>
<td>4000 ohms</td>
<td>40 ohms V.C.</td>
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<tr>
<td>E0653</td>
<td>6 Volt</td>
<td>40 ohms V.C.</td>
<td>$1.38</td>
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MODEL HS6 6-INCH

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<th>Cat. No.</th>
<th>Field Coil</th>
<th>Input Imped.</th>
<th>NET EACH</th>
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<td>E0654</td>
<td>4500 ohms</td>
<td>40 ohms V.C.</td>
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<td>E0655</td>
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<td>E0657</td>
<td>7000 ohms</td>
<td>40 ohms V.C.</td>
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</tbody>
</table>

QUAM REPLACEMENT SPEAKERS WITH UNIVERSAL TRANSFORMER

Quam speakers are widely known for efficient design, quality construction, and conservative ratings. They are used as standard equipment by leading manufacturers of table model A.C. and D.C. receivers. These new speakers are particularly designed for general replacement purposes. They are equipped with universal transformers for matching and output. Each unit is rigidly welded to form a rigid, one-piece assembly, there is no serve or frame to get out of place. Special Quam armored field coil assures long service. Have universal mounting bracket.

5-INCH DYNAMIC

A quality-built speaker, ideal for replacement in compact, A.C. or D.C. sets. Conservatively rated to handle 3.5 watts output. Detuned. With 10" standard leads.

Bratt. wt., 2 lbs.

E0303 1000 ohm field. $2.20 PER EACH
E0304 2500 ohm coil. $2.20 PER EACH
E0305 3000 ohm coil. List $2.75.

WRIGHT-DECOSTER SPEAKERS

UNIVERSAL NOKIO DYNAMICS

A radically new design in Permanent Magnet type speakers. Provides the fine performance usually expected only from electro-dynamic re- speakers. Uses new high permeability magnetic alloy. No current is required for field excitation. Magnetic stainless steel frame. Excellent tonal characteristics. Ideal for all replacement purposes where a high-quality, moderately-priced speaker is required. Volt coil impedance is 3.3 ohms at 400 cycles. Equipped with universal transformers except on 5" model. All rated at 3.5 watts, except E0306 which is 8 watts.

HYFLUX MAGNETIC SPEAKERS

A new and improved type of magnetic speaker. Designed for use in both new and old construction. Complete assembly includes the speaker ideal for installation where space is at a premium, as in battery and auto sets, or in multiple-cabinet speaker systems. Detuned behind panel is less than 2.5 ohms impedance. Voice coil is not round, but rather constructed from braided materials for years of trouble-free service. 7,000 ohms Impedance.

KINGT MAGNETIC SPEAKERS

5-INCH MAGNETIC

A well-designed A.C. or D.C. type speaker only 6" in diameter. Has rigid, pressed-steel frame and large-sized magnet. 8 oz. size makes speaker ideal for use where space is limited. Provides unusually fine tonal response. D.C. resistance is 1000 ohms. An excellent replacement for all compact-type sets.

Field sets, 2500 ohm coil (std.), $11.50. List $13.25.

3-INCH MAGNETIC

The smallest efficient speaker on the market—only 3" in diameter. For use in pocket-sized midnet sets, intercom systems, and small S.W. receivers. Rigid pressed-steel frame; full-sized magnet and coil. 8 oz. magnet, center.

NEW KNIGHT KINETIC SPEAKER

Expertly designed speakers employing new "Alnico" magnet allow for greater sensitivity and more compact size. Combination armature with adjustable screw permits compensation for date current changes. Solid well-pressed steel frame, ideal for dynamic applications. Ideal for installations in parlors, bathrooms, or other areas where loudness is expected. Rated at 3.5 watts, 7 lbs.

CABINET MODEL 81/2-INCH MAGNETICS

Handsome new walnut wood cabinet speaker is ideal for use as extension speaker or for multiple speaker installations. Has attractive lines on both front and back, and provides full protection from dust, 2 1/4 inches deep. 8 lb. cabinet, large magnet, and improved armature structure. 1000 volt D.C. resistance. Equipped with 6-foot cord. Available with or without self-contained volume control

WALNUT CABINET ONLY

Attractive, rich walnut-finished speaker cabinet is also offered separately. Measures 9 1/2" x 3 1/2". Has grill at both front and back. Will house any 8" or 8 1/4" woofer.

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.
"REAL-PHONES" DUPLEX TELEPHONES

New two-way French style telephones that operate on dry cell batteries. A real economical communication system for homes and business. They are easy to install and provide an efficient method of communication between two points. Those phones are sturdy, compact, attractive and modern. Furnished in sets of 2, they are intended for use only in pairs. Only two standard dry cell need to be added for each set in operation. Especially convenient as room-to-room or house-to-house telephones. Equally useful in offices, schools, factories, public rooms, restaurants, stores and for dozens of other applications. Full instructions for rapid connection are included. Shipping weight, 6 lbs.

COMPLETE SETS

Complete set consists of 2 Realphones with bases and 59 feet of wire. Additional wire may be added. Available in four colors. Desirable style phone in four pairs.

PER SET OF 2

E1106. Black $2.65
E1107. Blue $2.65
E1108. Silver $2.65
E1109. Red $2.65

ACCESSORIES

The only accessories required, for either in- door or outdoor use are furnished below.

E9025. Dry Cells. For use with Realphones, EACH $0.10
E1194. 100 feet of conductor, connector end for outdoor use. NET $1.71
E1195. 100 feet of cable for indoor use. NET $1.37

MULTIPLE PHONE SYSTEMS FOR ALL PURPOSES

WE CAN SUPPLY multiple telephone systems for all purposes. Decorative for descriptive literature on SERV-U-FONE systems. From two to ten stations, including common-full selective and super-selective types. There is a system for every requirement. We are able to quote to suit any special price on switchboard and communication type multiple systems for all types of private institutions, schools or apartments houses. Write giving us full particulars, and we will quote promptly.

QUAM-NICHOLS PHONE SET

An all-purpose battery phone set which operates electrically to furnish efficient, low-cost intercommunication for homes, offices, factories, farms, camps, etc. Two dry cell batteries at each phone will carry voice and signal 750 feet. Those are candle-style phones made of durable pressed steel and finished in telephone black. Instructions are extremely simple and all that is required is to string two wires between the phones, hook up the batteries, and you're ready for use, natural communication. Work like regular commercial phones; unbreakable, electrically efficient, for private or group. $1.30 to 1.60.

Western Electric Headset

Type 1062C. Used in U.S. Government service. Price, $0.75. Heads are made of silicon steel for extremely magnetizable, flat sound. At voice frequencies, impedance is 950 ohms. With one eared, 3,000 ohms. Has nickel-plated brass bases with bakelite neckband and hatband with elastic wiring, and adjustable yokes and slide rod. Weight about 7 oz. E1203. NET $0.30

Brush "Hushaton"

The Pillow Speaker

An entirely new and efficient pillow-type speaker. Exclusive Brush principle provides for maximum efficiency of entire audible range. Permits the user a more comfortable method of enjoying radio programs and eliminates the need for repeated relaxation at the same time. It may be placed under pillow on bed, couch or chair. Permits genuine radio entertainment without disturbing or interfering with others in the room, and volume is regulated by the volume control on the set. Measures only 5% x 7% x 3% in. Supplied with ample length rubber-covered cord. Easily and quickly installed in any receiver, and is particularly useful with portable or A.C.-D.C. sets. The Brush "Hushaton" pillow speaker is not only useful in the home but is an invaluable aid and comfort in hospitals and sanitariums where individual wall plugs are available. Shipping weight, 1 lb.

E1124. INSTITUTIONAL MODEL. Housed in a liquid-tight, impact-resistant case which may be safely dipped into liquid for sterilization.

NET $2.94

TRIMM HEADPHONES

Featherweight Phones

Very compact phones. With adjustable 11-inch telephonic metal headband. Bakelite case is intended for service. Terminals are inside of case. Efficient and adjustable telephone for group hearing aid church systems, also as personal hearing aids for those suffering hearing loss. Complete sets consist of 4000 ohms. E1547. List, $6.75. NET $3.97

Single Unit Phones Lorgnette Handle

Single unit Trimm Featherweight phone with adjustable 11-inch telephonic metal headband. Bakelite case is intended for service. Terminals are inside of case. Efficient and adjustable telephone for group hearing aid church systems, also as personal hearing aids for those suffering hearing loss. Complete sets consist of 4000 ohms. E1547. List, $6.75. NET $3.97

TRIMM PROFESSIONAL PHONES

A high quality standard type of telephone, suitable for battery, switchboard, or for use in other applications, as well as for individual consultation. Has bakelite or metal head-set cap. Perfectly matched with tubes, tubes are long life. With cords. Cord terminals are inside case. E1542. List, $20.00. NET $14.00

Headband Style


TRIMM COMMERCIAL PHONES


Western Electric Headset


European Headsets


CANNONBALL MASTER HEADSETS

An improved high resistance telephonic headband. Excellent quality. Heavily galvanized to assure safety. The flexible head-band is easily adjustable, by means of hand; no headband trailing or disturbing. Has 4-f. foot covered cotton-covered cord. These efficient Cannonball Master phones are particularly desirable for use in hospitals and institutions. Combined and light, they almost eliminate the necessity for radio programs for hours without discomfort or disturbance to patients. Supplied with lightweight stainless steel band. E1005. List, $2.25. E1004. List, $1.85

Hospitals, Schools and Institutions for the Hard-of-Hearing, Sanitoriums, Prisons, etc. are also given for attractive quantity prices on Cannonball Headsets to suit special requirements, and a price quotation will be promptly sent without obligation.

15% TAKE ADVANTAGE OF OUR 2% FREIGHT ALLOWANCE
ACME FEATHERWEIGHT HEADPHONES

VALUE LEADER

Sensitive, durable, and portable headphones are currently available for $95.

A lightweight unit designed for use with any stereo set.

Price: $95

Your Price... $70

E9726. 1,600 Ohms.
Your Price... $59

DIAPHRAGMS FOR ABOVE

E9252. For Acme Featherweight Headphone.
Net Each... 5c

BRANDES SUPERIOR

A high quality, ruggedly-built head set which has been very popular for home use. Available in three types: A, B, and C.

Price: $1.65

E9209. 2000 Ohms.
Your Price... $1.89

E9210. 1,600 Ohms.
Your Price... $2.06

E9211. 1,600 Ohms.
Your Price... $2.49

CAPS AND DIAPHRAGMS

E92801. CAPS.
Your Price, Each... 18c

E92802. DIAPHRAGMS.
Your Price, Each... 5c

FROST PHONES

Many superior features are incorporated in Frost phones which add greatly to their efficiency and quality of reproduction. They are light in weight and comfortable to wear. Cord terminals are located on the side of the case, to prevent accidental damage. Have been sold for many years to discriminating amateurs. Cords Ships Free.

Price: $1.65

E9325. 3000 Ohms.
Your Price... $1.48

HEADPHONE CORD


Price: $0.33

HEADPHONE PLUG


Price: $0.15

BRUSH CRYSTAL HEADPHONES

TYPE A

High sensitivity headsets of new photoelectric design. For Amateurs, Short W. A. S. fans, meters, measurement work, etc. A permanently mounted head set of high quality and with excellent efficiency and wide frequency response between 60 and 16,000 cycles. These headphones are ideal for all applications. When used in circuits carrying direct current, small battery is required. Weight including cords. In one of the finest sets—quality-built units.

Price: $5.29

E1200. NET

SINGLE UNIT TYPE A PHONES

E1201. Single. Single with metal headband. Lift. $5.00. Net...

E1202. Single phone with<!-- First line -->terrene handle. Lift. $3.82

BRUSH TYPE B HEADPHONES

High-fidelity, lightweight, hermetically sealed headphones. Weight is only 3/4 oz. Headphone conductors are of the snap connector type. Cables are insulated with the aluminum case for permanent alignment.

Price: $5.29

E1204. NET

SINGLE UNIT TYPE B PHONES

E1206. Single phone with metal headband. Lift. $2.94

E1207. Single phone with<!-- First line -->terrene handle. NET...

PHILMORE SETS & KITS

ONE TUBE BATTERY KIT

An efficient and sensitive 1 tube Philmore battery set in kit form. Klystron plug-in unit designed for use with<!-- First line -->otype coils. Tunes from 13 to 550 meters covering Amateurs, Police, Call. Short-wave. 80 meters. Includes: 1 tube, Klystron plug-in unit, 80-meter coil, B battery, and all circuits carrying direct current. With plug-in broadcast band coil. All parts are listed in detail in the item number.

Price: $1.89

E7240. Less tubes and Batteries.

E7238. As above, but completely wired. NET...

E7234. Kit of 4 coils (15 to 240 meters). 10c

E7214. Type 30 tube. EACH...

2 TUBE BATTERY KIT

Mounts on attractive panel. Uses 2 type 30 tubes. These Philmore sets when assembled are of great usefulness to all sorts of headsets at the same time. With plug-in broadcast band coil. Quickly assembled. Includes: 2 type 30 tubes, 1 tube, 15-240 meter coil (15 to 240 meters). 10c

Price: $1.49

E7224. As above, but completely wired. NET...

E7228. Batteries. 1.00 lb. 9c

E7230. Kit of 4 coils (13-240 meters). 20c

E915. Type 30 tubes. EACH...

2 TUBE A.C.—D.C. KIT

A reliable Philmore type 2 tube receiver, which operates from 110-volt A.C. or D.C. reception is strong and clear. Uses 2 type 76 tubes. Coil is supplied for the plug-in type ordinary broadcast band. Coil kit permits tuning of various amateur sets, police, radio call, etc., a really efficient and economical electronic set. Can be assembled at home. 5 lbs.

Price: $2.45

E7248. As above, but completely wired. NET...

E7244. Kit of 4 coils (13-240 meters). 20c

E916. Type 76 tubes. EACH...

PHILMORE PORTABLE TWO TUBE "SUPREME"

New you can have loudspeaker performance in a low-watt, portable battery receiver. This remarkable set comes complete with complete Broadcast Band and a fan coil. The fan coil is a full 5" magnetic speaker which delivers clear, distortion-free sound. Battery and 2-1/2 volt cells, small battery, and a complete Broadcast Band with 1 type B and 1 type T. Tube is 1.2, while the filament is 1.2. All parts are listed in detail in the item number.

Price: $5.28

E9320. NET...

E9321. Battery Kit. Consists of 1-221 lbs., battery and 2-1/2 volt cells.

CRYSTAL SETS

NEW ICA TOPNOTCH

A super crystal set which brings in many stations with exceptional clarity and a crisp, clear reading. In a handsome crystalline metal case. The tubes are compact and sturdy. With a beautifully engraved calibrated dial. Soldered and wired for clear, strong reception.

Price: $88

E5571. Set Only.

CARRON MIDGET

Mini-type crystal radio set that economically provides good reception. Built into a sturdy wooden cabinet. It has a spade action type, and station selector knob. Complete with a crystal and earphone and coil of ground wire, 15-240 meter coil (15-240 meters). 10c

Price: $1.31

E9310. Set Only.

CARRON JUNIOR

Larger size of the above crystal set, has the same working characteristics. Attractive in a solid walnut cabinet. With spring action type. Adjustable crystals. Supplied with earphone and metal head band and coil of ground wire. 15-240 meter coil (15-240 meters). 10c

Price: $1.47

CARRON DELUXE

A unique crystal set in a solid walnut cabinet with real inlay strips. Ornamented with a fine engraving on the side and in the back, and has the depressions cut into the wood. The fine tuning is also highly desirable. Easy to operate. Complete with complete adjustable headband and coil of ground wire, 15-240 meter coil (15-240 meters). 10c

Price: $3.29

E9314. Complete with Accessories...

ALLIED RADIO CORPORATION, 833 W. JACOBSON BLVD., CHICAGO, ILL. 155
HEADPHONES CRYSTAL SETS

AMERICAN BELL 'PHONES

These unusually sensitive and efficient headphones, produced by one of America's foremost manufacturers, are built for normal fidelity and clarity. Their aluminum shells and caps make them light in weight and ease of handling. The precision steel light-weight headband fits comfortably in any head and prevents fatigue. Combination of a set gives extra sensitivity. Shpg. wt., 1 lb....

E2807. WITH METAL CAPS...$1.25
E2806. WITHOUT METAL CAPS...$0.97

3000 OHMS WITH BAKELITE CAPS

This same sensitive and efficient headphone as above has equipped with black bakelite caps instead of aluminium. A real value in a high-sensitivity headphone.

3000 OHMS WITH BAKELITE CAPS...

DIAPHRAGMS

E2809. DIAPHRAGMS...5c
E2808. EXTRA ALUMINUM CAPS...12c

AMERICAN BELL SINGLE HEADPHONE

A comfortable dependable single unit headphone which is easy to wear. Single spring steel headband. Unit is of lightweight construction. May be used on any make of receiver. Ideal for multiple headgear installations. Complete with new ear cushions. An outstanding headphone value.

E2813. $0.66
E2814. 1000 ohms...

CRYSTALS & CRYSTAL DETECTORS

OPEN TYPE CRYSTAL DETECTORS

Universal Joint on screw-in arm provides quick, accurate adjustment on any unit of the open type crystal. Standardized polished metal finish. Complete with crystal.

E7062. 1 lb. for $1.60

FIXED CRYSTAL DETECTORS

A very good value. Extremely sensitive. Selected crystals are meter-tested and permanently adjusted. housed in compact bakelite case. Eliminates bother of continual adjustment for sensitive spot. Pre-tested.

E7063. List $1.00 NET EACH...

METER TESTED CRYSTAL

These crystals are tested in laboratory on very sensitive meters. Crystal is of known dielectric composition. Fit all crystal cases.

E4150. YOUR PRICE...

SENSITIVE MOUNTED CRYSTAL

Cerically-tested mounted crystals. Sensitive color. Complete with standard Operating handle.

E4151. 10 for $5.00

CAT-WHISKERS

Set of three, correctly designed and made to fit most c.w. quality wire.

E4152. 10 for 80c...

COMFORT EARPHONE CUSHIONS

Designed to be comfortable for anyone who wears head-phones in a room. Makes them comfortable and easy to wear. Made of soft sponge rubber. Sunbonnet and practical. Will fit all types of headphones.

E2803. YOUR PRICE PER PAIR...

PHILMORE CRYSTAL SETS

THE SELECTIVE

The "Blackbird" is a first quality crystal set, presented at the lowest possible price. It requires no tubes or batteries and any set of head-phones will do. Light weight and comfortable to use. No wasted wind in any situation. AAny set of headphones will do. Shpg. wt., 1 lb....

E7053. List $1.00 NET...

NEW SUPERTONE

A well constructed crystal set which will give unlimited service. Offers the utmost in entertainment on local stations with the minimum of noise and hum from distant stations. A sensa- tion in crystal set. Enclosed in a dust-proof case.

E7051. List $1.60 NET...

PHILMORE DE LUXE

A De Luxe Crystal set in a modernistic bakelite cabinet. Very good tone, freedom from hum, and normal selectivity. Built with a lamped coil to give any set of tunes without distortion. Easily adjustable. Shpg. wt., 2 lb.$1.95

E7233. NET...

PHILMORE "DWARF" 1 TUBE SET

The thinnest, self-contained, portable radio available. Measures only 7 1/2 in. wide, easily packed in容易. The thinnest, self-contained, portable radio available. Measures only 7 1/2 in. wide, easily packed in a suitcase. Economical battery life. Batteries re- placeable. A small 3 1/2 volt dry cell battery. 4 1/2 volt "G" batteries. Uses one type 80 and one type 40 tube. Uses one type 45 and Type 80 tube. Complete with tubes, battery and all necessary parts for perfect aerial installation. Shpg. wt., 2 lb.$1.39

E7054. YOUR PRICE...

PHILMORE PORTABLE BATTERY SET

A fine line portable receiver that is light, easy-to-handle, and a splendid performer. Comes complete broadcast band. Single tuning control makes it easy to tune. Uses a specially designed high-Q coil, ground for maximum sensitivity and selectivity. Has tuned antenna setting for maximum pickup selection. Tubes used are less than one millionaire for economical battery life. Batteries replaceable. A small 3 1/2 volt dry cell battery. 4 1/2 volt "G" batteries. Uses one type 30 and one type 40 tube. Complete with tubes, battery, and all necessary parts for perfect aerial installation. Shpg. wt., 2 lb.$2.98

E7232. NET...

COMPLETE ACCESSORY KIT

Kit includes: 1 type 20 and 1 type 19 tube, complete set of the Various batteries, 1 set of speaker wire and 25 ft. of aerial wire. These items all fit in same case with set. Shpg. wt., 1 lb.$3.75

PHILMORE PORTABLE BATTERY SET

E7069. YOUR PRICE Group 2...

E7066. YOUR PRICE...

156 YOU CAN DEPEND ON ALLIANCE FOR EVERYTHING IN RADIO...
**AMERICAN BELL SILENT RADIO HEADPHONE ATTACHMENT**

- PERMITS USE OF HEADPHONES ON SPEAKER ALONE OR TOGETHER
- FOR LATE, AT NIGHT RADIO LISTENING
- PROVIDES BETTER DX AND FOREIGN RECEPTION
- EXCELLENT FOR PERSONS WHO ARE HARD-OF-HEARING
- DESIGNED FOR QUICK AND SIMPLE INSTALLATION
- SUITABLE FOR USE WITH ANY RADIO SET

The new American Bell Silent Radio Headphone Attachment combines real convenience with fine versatility. Suitable for installation on any radio set, this unit permits you to silence your radio set loudspeaker and listen to any program by headphone alone. Or, you can listen with others in the same room with the headphones silent.

**RADIO SET**

- usably adaptable and
- ndy. Disturbing announce.
- eral, foreign reproduced through thoroughly enjoyed.
- r persons who can
- n. The radio to

**SPECIAL VALUES IN AUTO AERIALS**

The finest hinge-type auto antennas available at these stand-out prices. Will look good on any car, new or old. Easily installed by anyone in 5 minutes. Woman on any automobile door hinge. Merely knock out hinge-pin with nail; slip hinge-pin through beveled supplied with aerial, and drive pin back into hinge. 3½" long. Supplied with lead-in.

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OUR TERMS

Our low prices to you are the result of efficient communication and the most economic merchandising methods. We buy for cash and sell for cash. The savings are reflected in the prices you see in the lowest prices and best values in the radio industry. Our terms of sale are cash or order. Full cash on delivery orders. All orders are subject to approval by the Import Department. Our prices do not include shipping charges.

DON'T SPLIT YOUR ORDERS

We will never be undersold. We meet all competitive prices for identical standard merchandise of current manufacture. We can secure for you special radio merchandise at less than the prices in this catalog, at lowest prices and with minimum delay. Enter your order with deposit and give full description of radio equipment selected. We can serve you better because we are the leading radio specialists. Don't split your orders, buy from ALLIED - Radio Headquarters.

ALL ORDERS FILLED

Whether your order is big or small, you get the benefit of ALLIED'S speed and service always. We set no restriction on the amount of your order. It's wise to buy as you will know you will consistently be better served.

FULL DISCOUNTS

In addition to all trade discounts, a FULL 2% CASH DISCOUNT has ALREADY BEEN DEDUCTED from every price in this catalog. Our net catalog prices are the prices you pay. You receive full discounts even if you order part C. O. D. shipment. You save C.O.D. delivery costs, however, by remitting in full.

TRANSPORTATION ALLOWANCE

Take advantage of our 2% Transportation Allowance on all orders for $25.00 or more. Don’t split your orders! This 2% Transportation Allowance is in addition to the Trade Discounts and the Full 2% Cash Discount already deducted from every price in this catalog. ALLIED's money-saving transportation allowance will apply on your order whether you want to have it shipped express, Parcel Post, Express or Freight. Begin saving and get your nearest ALLIED store or radio dealership to get the transportation allowance either from the amount you saved if you are remitting in full, or in calculating the C.O.D. charge. The 2% transportation allowance on orders of $25.00 or over applies on shipments made in the United States. The rates of all radio merchandise listed in this catalog, except for the 2% transportation allowance, are based on radio equipment listed in the catalog, except Sterling and lead. For your convenience, we have included the rates for which we have indicated are not available, unless shipped by freight. Terms on freight shipments are 5% deposit, balance against invoice or cash or 30 days to shipping documents. All freight shipments are carefully labeled with no charge for crate packing.

FREIGHT SHIPMENTS

You save by ordering merchandise sent by freight. You will have it faster at a smaller cost. Make extensions carefully. Then total your order and make your remittance large enough to cover both the cost of the merchandise and shipping charges. If your order does not total C.O.D. amount is requested. Additional orders, envelopes and packing materials are shipped on each order and will be charged at cost.

PARCEL POST SHIPMENTS

See the table immediately below for parcel post rates. If item is double posted your postmaster for your zone number and charges on items for which weights are shown, or write to us. Save C.O.D. charges by sending enough money to cover postage. Any surplus will be promptly refunded. If you send only 20c to cover postage, shipment will be made C.O.D. for the balance. For your protection all our parcel post shipments are insured. Allow for insurance at the following rates:

| Weight (C.O.D.) | Insurance Charge
|-----------------|------------------|
| $5.00 to $25.00 | 5c
| $25.00 to $50.00 | 15c
| $50.00 to $100.00 | 25c

HOW TO ESTIMATE PARCEL POST RATES

For U.S. only: Postage rate to Canada is 1c per pound.

Packages Under 8 Ounces, Allow 1/4c Each 2 Ounces

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For Each Additional Pound Add:

1c            1c            2c            3c/4c 5c 7c 9c 11c

CHICAGO CUSTOMERS

For handy quick counter service, visit our City Salesroom at 1 Market, Chicago. See experienced Engineers and Radio Specialists. If you can't come in, please notify your nearest ALLIED Store or radio dealership. We will notify our Chicago City Order Department, no extra charge.

OVERSEAS CUSTOMERS

We are Radio Supply Headquarters to the World. Give us your radio equipment needs, and we will ship it to any corner of the world. We have contacts all over the World. Our Export Department is staffed with specialists best qualified to know and study your needs in each country. ALLIED is a member of the Exporters' Association of America.

WE INVITE YOU

On your next visit to Chicago, be sure to write to us in our enlarged Radio Headquarters at 1201 S. Wabash Ave., Chicago 4, Illinois. We will be happy to help you with your radio equipment needs.

ALLIED RADIO SUPPLY HEADQUARTERS

158 MAKE ALLIED YOUR RADIO SUPPLY HEADQUARTERS
TABLE MODEL RADIO CABINETS

MODEL 115
A solidly constructed midget type cabinet. Just the thing for closed circuit telecommunication systems, extension speakers, et cetera. Face woods are beautifully matched and shaped grille that cover a modernistic grille cloth over speaker opening. Inside dimensions: 8 1/2" wide, 6 1/4" high, 7" deep. Shpg. wt. 3 lbs.
E10602. NET $2.04
E10601. Same as above but has speaker openings on both ends instead of on front panel.
$2.07

MODEL 216
A medium-sized table model cabinet of modern design. Speaker opening has vertical cross bars over modernistic wood veneer on a walnut-colored finish. Inside dimensions: 15" wide, 9 1/4" high, 12" deep. Shpg. wt. 8 lbs.
E10603. NET $3.30

MODEL 416
Slightly different from above and larger. Inside measurements: 18 1/2" wide, 9 1/4" high, 15" deep. Shpg. wt. 8 lbs.
E10193. NET $4.20

KNIGHT PORTABLE PHONOGRAPH
A spring-wound portable phonograph. Ideal for picnics, idea-cases, clubs, etc. Exclusively designed and completely self-contained. It is not necessary to connect to radio or amplifier for record reproduction. Covered and fitted inside and out with black water-proof artificial leather. American-made phonograph for 2 or more records on a winding. Plays both 10 and 12" records. Also "Boom-Box" phonograph for portable use. Tubing and stopping are controlled by friction alone conveniently located on the record. All hardware parts are heavily nickel-plated. Curved top arm and automatic tone arm. Speaks the very finest reproduction available from any type of machine. Record compartment in top cover. Size: 11" x 14" x 12" high. Shpg. wt. 14 lbs.
E10483. Rustproof satin finish. Will not "wet" white or "drab" in motion.
$7.15

SPECIAL VALUES IN AUTO AERIALS
The finest hinge-type auto antenna available at these standard prices. Will look good on any car, new or old. Easily installed by anyone in 5 minutes. Mounts on any automobile door hinges. Merely knock out hinges, put in with nut, hinge-pin through bracket supplied, and drive pin back into hinge. 70 ft. long. Supplied with lead wire.
WiFi, $39c.
YOUR SPECIAL PRICE $2.10
F10454. A two section chrome finished Rhodium antenna. 25" in length; extends to 45". White, black, chrome or blue. YOUR SPECIAL PRICE $65c.
CUTS OF $3.50

ALL-STEEL PARTS CABINET
Just what every Service-man needs. A small parts cabinet for the numerous small items every serviceman has around the shop, in the garage or on the road. In house work or in the workshop, where a supply of his tools, hardware, and accessories is needed, this cabinet is ideal. Can be obtained with different sizes. Contact your local Allied dealer. Suggested retail prices:

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<th>Size</th>
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<td>12&quot; deep</td>
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AMERICAN BELL SILENT RADIO HEADPHONE ATTACHMENT

- Permits use of headphones or speaker alone or together.
- Ideal for late, at night radio listening.
- Provides better DX and foreign reception.
- Excellent for persons who are hard of hearing.
- Designed for quick and simple installation.
- Suitable for use with any radio set.

The new American Bell Silent Radio Headphone Attachment combines real convenience with fine versatility. Suitable for installation on any radio set, this unit permits you to assign your desired set for loudspeaker and listener to any program by headphones without disturbing others in the same room. Or, you can operate both the speaker and the headphones simultaneously, thus giving the hard-of-hearing full radio enjoyment.

EASILY ATTACHED TO ANY RADIO SET
The Silent Radio Headphone Attachment is unusually adaptable and can easily be installed by anyone on any radio set. Only a few minutes are required to make the attachment and full, easy-to-understand instruction is furnished. Silent headphones are included to offer unusually fine tone quality. Without disturbing anyone else in the room, you can listen to your favorite radio programs with full enjoyment. You can also pick up and clearly hear DX and foreign stations which are usually not readily audible when reproduced through loudspeaker. Late-night listening can now be thoroughly enjoyed without fear of disturbing the family or neighbors. Persons who are hard-of-hearing can also enjoy modern radio at its best through the headphones, while others may listen to the same program through the radio set's loudspeaker. Anyone wanting to switch from the speaker to headphones, or from headphones to loudspeaker, can do so immediately. This new unit will easily pay for itself through increased radio utility and enjoyment. It is available with special low-impedance headphones and lightweight headband, 6-foot cord, and adapter unit. Price: $1.95.

E2912. Complete with headphones. NET
E2913. ADAPTER ATTACHMENT ONLY. For use with any good set of headphones, but offers best results with low-impedance headphones. 11" (chinas) as supplied above. NET $5.85c.

NEW "TINY KNIGHT" 4 TUBE AC-DC KIT

How is a smash scoop? You can now build your own "tiny set"—small enough to fit in the palm of your hand and yet strong enough to give you "big set" results. Uses four new "Bantam" tubes. In a circuit where every tube has its full dynamic, this tubeset permits all standard Broadcast programs from 550 to 1500 K.C. Kit includes all necessary parts (less tubes) in a few short hours and with only a screwdriver, pliers, and soldering-iron, anyone can assemble this set. Complete with cabinet and handle. Size: 5x4x14 1/2". Choose of colors. For 110 V. C. or D.C.
E9988. Alligator Brown. NET $7.75
E9982. Dark Green. NET $7.75

SPECIAL VALUES IN BAKELITE SOCKETS

Our economy line of bakelite sockets. These special value bakelite sockets have individual inter-changeable base and grounding plugs. They are standard 110-volt, 15-mag. grounded. Numbered pin holes. No. of sockets:

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KIT OF 100 RESISTORS
A popular value assortment of economy-type carbon resistors. Color-coded, assortment includes 1/2 and 1/4 watt sizes in most popular resistance values. You can pay for these items with your first service call profit. Buy several assortments and have the resistor you need on hand at all times.
E51219. 100 Resistors. NET $50c.

KIT OF 50 RESISTORS
E5121. Smaller assortment of same quality resistors as those listed above. NET $59c.

HEARING-AID CONTROL BOX
Designed for use in multiple broadcasting and education installations in schools, theatres, churches, etc. Permits adjustment of volume to suit individual hard-of-hearing needs. Resistance, 10,000 ohms. Small and compact, only 1 1/2" x 5" x 3 1/4". Completely enclosed to prevent catching or tearing clothing. Available in either gold or silver for suitable for the skin, or brown crystal for churches, schools, etc. (Use Klink 8 and 10 watt High Gain Amplifiers for suitable sound-hearing use.}
E5521. Gold, Very Finest. YOUR PRICE, EACH BOX $1.91

ALLIED RADIO CORPORATION, 633 W. JACKSON BLVD., CHICAGO, ILL. 157
A page from the Allied Radio Supply Headquarters catalog. The page includes information about shipping, discounts, and the Allied Radio range of products. The text is a mix of paragraphs and tables, providing details on order placement, shipping rates, and product categories. The catalog lists various products such as radio merchandise, batteries, generators, and other equipment, along with instructions on how to order and calculate shipping costs.
PUBLIC ADDRESS ON EASY PAYMENT TERMS

See Pages 73 to 100 for complete list of Public Address Equipment, and find below the complete line of Public Address Equipment. See Page 75 for Public Address Equipment on the convenient and attractive Time Payment Plan. Public Address Equipment is shown under each System. See Page 72 for Time Payment Instructions.

PUNCHES, SOCIETIES - Post-Bulletin Tunnels

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Our terms are cash. We ship C. O. D.; new customers should accompany order with 30% deposit. All trade and cash discounts have already been deducted in our catalog quotations. All prices are net, f.o.b. Chicago or factory.

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TRANSPORTATION ALLOWANCE ON ORDERS OF $25.00 OR MORE

Make your order $25.00 or more and you may deduct 2% the total as a transportation allowance. This applies to this made anywhere in the United States on all radio merchandise in this catalog, except National Company merchandise. (Orders for export and from U. S. possessions excepted.) If you desire your shipment to go forward by Express or Parcel Post or Freight the same 2% allowance will be made. Take advantage of our liberal Transportation Allowance. It will pay you to your order come to $25.00 or more.
VIDRIOS ELECTRIC MIXER
An efficient little labor-saving assistant for the homemaker. It beats, whips and mixes. For eggs, salad dressings, merinoue, cream and countless other foods. Motor is completely encased by metal housing. Portable motor-driven beater may be used anywhere. Detachable beater is very easy to clean. Greatly increased capacity in 1½ pint. For 110 volt, 50-60 cycles; complete with cord and plug. Find (unanswerable name) in every kitchen. Worth many times our low price.

E0163. YOUR PRICE. $10.00
NET PRICE. $9.00

HOT DONUT WATER HEATER
Supplies hot water in a jiffy when needed. Just connect the Hot Donut Water Heater to any 110 volt outlet, either AC or DC, and immerse it in a pan of water and you will have boiling water almost immediately. This dependable little heater is inexpensive and portable, it is extremely valuable to tourists and travelers. Ruggedly built. Heating unit is thoroughly impregnated against moisture. Metal housing is finished in bright aluminum; will not rust. Has heavy rubber cord 6 feet long, with plug. E0161. YOUR PRICE. EACH $7.00 PER LOTS OF 10 $6.65

NEW THREE-SPEED ELECTRIC MIXER
The latest high-quality electric food mixer, beautifully designed and built for long-lasting service. A powerful all-purpose kitchen servant which will mix, whip, beat, and knead all types of batters, pastry dough, salad dressings, eggs, cream, and many other foods. May also be used with juicer extractor listed below. Has many exclusive new features. Equipped with set of 2 self-locking beaters with stainless steel blades, easily removable for cleaning. Base tray is revolving ball-bearing type. Powerful three-speed universal-type motor operates on 110 volts AC or DC, light and portable for easy removal from base. Three speeds take care of foods requiring slow or fast mixing. Has sturdy die-cast, easy-grip fatigue-proof handle. Motor housing automatically locks self to frames; motor lifts back to drawer for or easy removal of 6-inch mixing bowl. Fan-cooled motor stays cool. The entire mixer is ivory-finished, attractive in appearance and easy to clean. The entire mixer is readily portable, made of unbreakable die-casting with scratch-proof rubber feet. Equipped with rubber-covered cord and unbreakable rubber plug. Complete as illustrated. (See below for juicer attachment.) Shop wt. 9 lbs. E01446. YOUR SPECIAL PRICE $7.45

JUICER ATTACHMENT
Juice extractor attachment, consists of juicer bowl and reamer. Has large effective area for quick attachment of juicer. Easily extracts juice from fruits.

E01447. Juicer Bowl and Reamer. NET. PRICE. $1.10

Automatic Waffle Iron
A high-quality waffle iron with many exclusive features at an unbelievably low price. Durable High-quality aluminum grids equipped with automatic heat indicator that signals when the iron is hot. Underwriters' Approved Electric Clothes Washer; ideal for the home or nursery. Holds soft rubber cover and water almost immediately. This dependable little heater is inexpensive and portable, it is extremely valuable to tourists and travelers. Ruggedly built. Heating unit is thoroughly impregnated against moisture. Metal housing is finished in bright aluminum; will not rust. Has heavy rubber cord 6 feet long, with plug. E01445. WAFFLE IRON, as above, alarm. Automatic indicator. NET. $2.60
NEW 1¼ VOLT SUPERHET CIRCUIT

1000 HOUR BATTERY LIFE

BETTER POWER! FINER TONE!

KNIGHT 4 TUBE 1¼ VOLT BATTERY SUPERHET

ALLIED is first with this amazing new Farm Radio sensation—the most economical farm set ever built! The ultimate answer to the rural demand for low-cost radio operation—the world's most economical battery receiver! Works 1000 hours—a full radio season—without a charge of batteries! And this new Knight 1¼ Volt Farm Radio is not only the last word in economy, but it's the finest, the best-performing radio ever offered to unwired homes. The secret of this wonderful radio lies in the newly perfected 1¼ volt tubes with drain lower than any battery radio tubes yet developed; each of these tubes draws less current; several are multi-purpose types: the result is that you not only save money, but you actually get six-tube performance with only four tubes.

* POWERFUL RECEPTION. The Knight 4 tubes 1½ to 5½ meters (540-1730 K.C.) for powerful coverage of the standard Broadcast American and Canadian band. Also tunes many police signals. Really gets out and brings in programs dependably, powerfully, day and night, in all locations.

* THERMOMETER" DIAL. The novel new "Thermometer" dial simplifies tuning. As the tuning knob is turned, a ribbon of color shows the exact position of the station indicator on the scale—calibrated in miles. The dial measures 2½" x 1½" and has a 7 to 1 vernier tuning ratio.

* NEW 1¼ VOLT CIRCUIT. Licensed by R.C.A. and Hazeltine. Uses the new 1¼ volt super low-drain tubes as follows: 1A7G, as Osc-Modulator (diagonal); 1N5C, as IF. Amo.; 1A5G, as Audio Output. Dual-purpose and triode tubes mean actual six tube power, distance-reach and operating efficiency. Automatic Volume Control assures complete freedom from fading.

* 1000 HOUR BATTERY LIFE. An amazing performance record—unheard-of battery radio economy. "A" drain is only 2 amperes; "B" drain is only 3 milli-amperes. Consumes 60% less current than any previous battery radio. Using the new "AB" power pack especially developed for the Knight 1¼ Volt Superhet, the set has a normal battery life of 1000 hours when used about 10 hours per day. Never before has there been a farm radio with so low a maintenance cost.

* NEW POWER PACK. ALLIED offers the new Knight 1¼ Volt Superhet with a special single unit "AB" battery power pack that will give 1000 hours, or a full season of radio enjoyment, at a cost of less than two cents a day. Set has special plug for power pack. While this convenient pack is recommended, regular 1½ volt "A" batteries and two standard 45 volt "B" batteries may be used.

* NEW P.M. SPEAKER. The latest type 5-inch Perma-tuned Magnet Dynamic Speaker is used in the Knight 4 to reproduce its large power with a brilliance and reality of tone that will be a lasting joy on all programs.

* AN OUTSTANDING CABINET. The new 1939 table model cabinet of the Knight 4 has a beautiful front face of striped walnut with gracefully rolled ends. Contrasting bands of walnut at upper and lower edges enhance the beauty of the design. Size: 12½" x 7¼" x 5¼".

* KNIGHT 4 COMPLETE. The Knight 4 Tube 1¼ Volt Superhet is offered complete with Sylvania tubes, but less "AB" pack. Shpg. wt., 13 lbs. Code: POWER.

$14.35 NET PRICE EACH.

E10912. 1¼ Volt Superhet, $38.95.

E10913. The Knight 4 as above, but complete with special 1000 Hour Ray-O-Vac "AB" pack. Shpg. wt., 34 lbs. Code: PACK.

$18.10 NET PRICE EACH.

E10044. Replacement 1000 Hour Ray-O-Vac A.B. Pack. (15½" x 4½" x 5¼"), Shpg. wt., 21 lbs. Code: PACK.

$4.00 NET PRICE EACH.

Take advantage of our liberal Money-Back Guarantee. Try the Knight 4 out under your own operating conditions. You'll find it everything we claim—the most economical and best-playing Farm Radio at the price!
The Knight 4 Tube 11/2 Volt Superhet—with perfected Push-Button Tuning! The greatest and newest development in Farm Radios, the amazing 1 1/2 volt tubes draw 60% less current than ordinary battery radio tubes! Used as multi-function tubes in the Knight 4, they attain astounding economy with six tube power and efficiency.

**Push-Button Tuning.** Front-adjusted type design makes it easy to select any one of your favorite stations just by pushing a button! Manual tuning is made easy by the new "Thermometer" dial which shows a ribbon of the station you are selecting. Each position of the station indicator on the dial is 3 1/2" wide and the detent portion of the station indicator on the scale. Dial size is 3 1/2" x 2 1/2". Dial is made of metal. Tuning range is 172 to 555 meters (540-1700 K.C.), covering all broadcast stations and many Police calls.

**New 1 1/2 Volt Circuit.** Licensed by R.C.A. and Hazeltine—offers the greatest Farm Radio development of the past ten years. Uses the new 1 1/2 volt super-low-drain type to connect to either "A" or "B" batteries, a regular "A" battery, or a 50% increase in the life of "B" batteries. "A" drain is only 2 ampere; "B" drain is only 8 milliamperes. Never before has there been such economy in the greatest Farm Radio development. As the "B" battery changes to a 1 1/2 volt "A" battery Power Pack with a normal operating life of 1000 hours (used 10 hours a day) before requiring new batteries.

The Knight 4, with the newly developed 1 1/2 volt "A" battery Power Pack, has a normal operating life of 1000 hours, or a full season of radio enjoyment, at a cost of less than two cents a day. While this convenient pack is recommended, a regular 1 1/2 volt "A" battery and two standard 45 volt "B" batteries may be used. Cable has coded leads for easy connection.

**Powerful Tube Circuit.** The R.C.A. and Hazeltine licensed circuit uses the following R.C.A. tubes: 1GC as Det., (unused—dual-purpose); 1GG as A.V.C.; 11AS as Audio Output. Dual-purpose tubes and triple-purpose tubes permit four tubes to do the work of six, attaining greater distance, better volume and finer tone—and all this with unheard of economy in operation. Has Automatic Volume Control to maintain uniform volume and to prevent fading. The full 6"-inch P.M. dynamic speaker reproduces each program with flawless enjoyable tone.

1600 Hour Battery Life. The new 1 1/2 volt tubes feature amazingly low drain to satisfy completely and at last the persistent demand for economical battery radio operation. "A" drain is only 2 ampere; "B" drain is only 8 milliamperes. Never before has there been such economy in the greatest Farm Radio development. As the "B" battery changes to a 1 1/2 volt "A" battery Power Pack with a normal operating life of 1000 hours (used 10 hours a day) before requiring new batteries.

**New "A" Battery Power Pack.** Allied offers the new Knight 1 1/2 Volt Superhet with a special single unit "AB" battery power pack that will give 1000 hours, or a full season of radio enjoyment, at a cost of less than two cents a day. While this convenient pack is recommended, a regular 1 1/2 volt "A" battery and two standard 45 volt "B" batteries may be used. Cable has coded leads for easy connection. Cable has coded leads for easy connection. Cable has coded leads for easy connection.

**Beautiful Cabinet.** The Knight 4 is offered in a magnificent new 1939 table cabinet. Top and front are one-piece burl walnut with attractive overlay side and top trim of diagonally striped walnut. Has attractively shaped grill. The cabinet is of generous size and will hold either the "A" battery power pack or regular batteries. Size: 20 1/2" x 12 1/2" x 20 1/2".

**Knight 4 Complete Farm Radio.** The Knight 4 Tube 1 1/2 Volt Superhet with Push-Button Tuning is offered in the following models: 1GC, with Hazeltine tubes, but less "AB" battery pack. Shop wt.: 20 lbs.; Case: RANGE.

**$19.85**

E10915. Retail Value: $30.00. NET PRICE EACH: $23.60

E1004.4. Replacement 1000 Hour Ray-O-Vac "AB" Battery. Shop wt.: 14 lbs.

**$4.00**

E1008.6. The Knight 4 as above but complete with single 1000 Hour Ray-O-Vac "AB" Battery. Shop wt.: 41 lbs.

**$22.60**

E10915. NET PRICE EACH: $23.60

E1004.4. Replacement 1000 Hour Ray-O-Vac "AB" Battery. Shop wt.: 21 lbs. NET: $4.00

**$31.75**

The Knight 4 is complete with R.C.A. tubes. Less batteries. Shop wt.: 11 lbs. Code: HONEY.

E10835. Retail Value: $35.00. NET PRICE EACH: $30.00

E10836. The Knight 4 complete with 2—45 volt "B" type and Burgess dry "A." Shop wt.: 43 lbs. NET: $17.00
ECONOMIC OPERATION

ALDI\# challenges the industry with this amazingly economical and powerful Farm Radio. A farm value in a 1939 manne-type standard, Farm Radio, real economy in operation, dynamic selectivity, and rich, rich sound. This Knight 5-Tube 2-Volt Battery-operated Superhet incorporates the newest battery radio features胆 (175 to 550 K.C.) for dependable reception. The circuit is designed for economical and easy reception. Five of the present low-drain tubes conserve battery life. A full-sized 6" clearly calibrated dial, yet provides for strong reception. A large volume control for uniform volume.

A Dependable Performer. The Knight 5 may be operated efficiently from either a 3-volt "A" battery, or a 2-volt storage battery, or on the Eveready Air Cell. When operated from a 3-volt "A" battery, drain is only 3 ampere-hours. This from "A" battery and 20 M.A. from "B" battery. This means a greater economy in operation and makes the Knight 5 inexpensive to operate, by using minimum battery life. Our listing offers the Knight 5 for money-saving battery life. Our listing offers the Knight 5 for money-saving battery life.


Low-drain tubes. The use of low-drain tubes as follows:

- 33 as Power Output;
- 51 as Det-A.V.C. and Mod. Osc. (dual-purpose);

Other circuit features include: crystal detector, A.V.C., matched alloy in power tubes, tube economy in radio, and economy in battery life. The Knight 5 circuit represents the last word in powerful and economical battery radio operation, assuring dependable, enjoyable operation.

Powerful Low-Drain Circuit. Licensed by R.C.A. and Hazeltine, the brilliant Superhet circuit of the Knight 5 Battery 6 achieves remarkable volume and splendid tone quality. Newest low-drain tubes are used; 1C7G as Osc.- Mod. (dual-purpose); 1D35 as A.F. Amp.; 1D46 as Det.- Osc. (dual-purpose); 1A55 as 1st Audio; 1G5 as Audio Oscillator. Multi-function tubes attain actual 8 tube efficiency.

Battery Economizer. The Knight 6 features a special Battery Economizer utilizing only the amount of current required to provide power for any given level of volume. "A" drain is only 120 amp.; "B" drain with Economizer in use is only 12 M.A.; without Economizer, only 16 M.A.

Extra Value Features. Special alloy P.M. speaker develops a flawlessness clarity and richness of tone, has full-range Personal Tone Control; A.V.C. keeps volume uniform on all programs; includes heavy-duty tuning condenser and rubber-lined chassis; 6 tuned circuits on each band.

Table Model Complete. The Knight 6-2 Band Superhet is complete with 6" P.M. Dynamic Speaker and Sylvania tubes. Less batteries. Ship wt., 22 lbs. Code: MAIZE.

E10909. The Knight 6 complete as above, with 3" Burgess Dry "A" Batteries. Ship wt., 66 lbs. NET PRICE EACH... $19.70

AMERICA'S LOWEST-PRICED FARM RADIO!

Knight 6 TUBE 2 VOLT SUPERHET

- Push-Button Tuning
- With Tone Control Thermometer Dial
- New P.M. Speaker
- On-Off Indicator
- Low-Drain Tube
- Battery Economizer

A Farm radio setting new standards for battery value for years to come—set incorporating the luxury performance features of the finest A.C. radio matched for economical operation and unexcelled for low price—that's the Knight 6-2 Volt Battery Superhet.

Unusual Economy. Operating with remarkable money-saving economy, the Knight 6 will work from either a 3-volt Dry "A"; 2-volt Storage or an Air Cell Battery—no C Batteries are required, and only 3-15 volt "B" Batteries are used. Plug-in connectors on battery cables assure quick, easy connections. Our listing offers the Knight 6 with 3-volt Dry "A" Battery. (If Knight 6 with Air Cell Battery is desired, add $2.16 to E10911.) If desired with 2-volt Storage Battery, add $2.24. You get maximum economy and powerful reception always with the Knight 6.

Cabinet Heffelfinger. Handcrafter designed and generously proportioned, the laydown cabinet of the Knight 6 has a top and front of one-piece selected bass walnut with attractive overlay side trim of contrasting diagonally-grained walnut. Measures 20 3/4" x 12 3/4" and holds all batteries neatly and conveniently—a handsome table model cabinet in every sense of the word.
The Knight 4 Tube 6 Volt Superhet is presented in a beautiful cabinet, made of choice selected two-toned solid walnut. Top and bottom sides of rich, dark walnut finish, while the raised body band is of a tasteful contrasting lighter shade. Louvre openings in front provide for best acoustical results together with smart styling. Size: 12" long, 7 ¼" deep, and 7 ½" high. Beautiful new Slide-Rule Dial (3½ x 1¼") enhances the cabinet beauty and makes tuning easier and more accurate. Has horizontal-travel pointer; calibrated both in kilocycles and meters.

R.C.A. & HAZELTINE LICENSED

* SLIDE-RULE DIAL
* SYNCHRONOUS VIBRATOR
* P.M. DYNAMIC SPEAKER
* FULL-ACTING A.V.C.
* LOW-DRAIN TUBES
* TUNES POLICE CALLS
* BEAUTIFUL CABINET

Amazing New ONE BATTERY RADIOS

Knight 4 TUBE 6 VOLT SUPERHET

Through the use of such latest developments as the滑动比率 dial, synchronized vibrator and dual and triple-purpose tubes, the Knight 4 Tube 6 Volt Superhet achieves a brilliance in performance and tone quality equal to many 6 and 12 volt sets at yet its price and operating cost are amazingly lower.

Economical Operation. The Knight 4 uses only one 6 Volt storage battery and does not require any "B" or "C" Batteries; battery drain is only 1.9 amps. This efficient receiver costs you practically nothing to run. It combines the latest desirable features found in all-electric sets with remarkable economy of operation so important to every purchaser of a battery-operated set.

For those who want a quality 6 volt receiver which offers all the de luxe features of the finest A.C. sets—powerful 3-band reception, extremely realistic tone quality, smart styling, and extreme economy in operation—ALLIED presents the Knight 7 Tube 6 Volt Superhet. Prove it to yourself—try it out in your own locality under our liberal Free Trial. Money-back terms—and you'll agree that it is a radio that will set the standards for battery radio value for years.

World-Range Wide. The Knight 7 tunes 3 full bands to bring you every worthwhile program: 125 to 40 meters (2500-7000 K.C.) for thrilling foreign and domestic Short Wave programs; 40 to 120 meters (2500-7500 K.C.) for Short Wave amateur, police, and aircraft signals; and 125 to 550 meters (340-1720 K.C.) for your choice of the best American and Canadian Standard Broadcast programs. No other 6 volt radio approaches the Knight for sensitivity and selectivity—it brings the entire living world of radio into your own home.

* Slide-Rule Dial. Both the efficiency and beauty of the Knight 7 are enhanced by the accurate, simple-to-use Slide-Rule Dial with vertical pointer. The top scale is calibrated in kilocycles for standard Broadcast; the lower scales in megacycles for Short Wave.

* R.F. On All Bands. An outstanding feature generally found only in the finest custom-built receivers: Increases sensitivity tremendously.

* Electric Eye. Incorporated in the dial face. Scientifically precise, it shows you when you are tuned in perfectly. You just watch the shadow in the glowing eye; when it is narrowed your station is tuned on the head.

* Push-Button Tuning. Just push a button—and there's your favorite Broadcast station! Here's a feature not usually found on battery radios. Will tune any six of your favorite Broadcast stations. Once you set the buttons they operate without further adjustment.

* Real Economy. The Knight 7 works entirely from a single 6 volt storage battery. No "B" or "C" batteries are required. Operating costs are extremely low, especially when used with Gas Generator (Page 45) or Windcharger (Page 167).

* Powerful 1533 Circuit. The Knight 7 employs a superbhet circuit which is fully licensed by R.C.A. and Hazeltine. Latest low drain tubes are used: 657 as R.F. Amplifier; 6K8 as Osc.-Mod.; 651 as I.F. Amplifier; 677G as 2nd Det.-A.V.C. Int. Audio; 666G as A.F. Driver; 627G as Class "B" Output, and 6N5 as Electric Eye. Battery drain is only 2.6 amps, and full 3 watts output is developed—unusal for a battery receiver.

Knight 7 TUBE 6 VOLT SUPERHET

Superb Tone. Never before has a battery receiver achieved such a remarkable fidelity of tone! The special 8" P.M. speaker of the Knight 7 assures the finest wide range tonal reproduction, rendered with a clarity and full richness that will amaze you. Continuously Variable Tone Control allows for personal emphasis of either treble or bass. Bass Bourne type tweeter and builds up this bass register.

* Harmonal Features, Fully A.V.C. to prevent fading or blaring; wave-band indicator knob; 3-gang rubber-mounted tuning condenser; 7 tuned popular broadcast bands.

* Luxurious Table Model. The finest cabinet ever built for battery receivers. Cabinet is inlaid, matched selected walnut woods, with high reflective finish, and is polished to an everlasting appearance. Will harmonize in any interior. Cabinet is 12½" wide by 9¾" deep by 15¾" high.

* Table Model Complete. The Knight 7 Tube 6 Volt Superhet is offered complete with 8" speaker and R.C.A. tubes, as illustrated above, for only 6 volts battery. Shpg. wt., 32 lbs.

E1090F. Retail Value, $84.50.
E10045. Knight 6 volt 19 plate Heavy Duty Storage Battery. Shpg. wt., 53 lbs. NET. $70.49
At Sensational Low Prices!

**Knights 6 TUBE 6 VOLTS SUPERHET**

If we're exceptionally proud of this 1930 Knights 6 TUBE 6 Volt Superhet, it's because we know that it incorporates the finest in engineering skill, quality-built parts, and artistic cabinetry— at a price that is unbeatably low. It's ALLIED's challenge to the battery radio industry and we're backing it up 100% with our Free Trial, Money-Back Guarantee. Buy this set today and under your own operating conditions— hear it bring in Broadcast and Short Wave stations with an ease and fidelity you never dreamed possible on a battery radio—and if it doesn't out-perform any other 6 tube 6 volt set you ever heard, we'll gladly refund your full cash purchase price!

**Push-Button Tuning.** Automatic, simple, fool-proof, the Push-Button Tuning System of the Knight 6 will tune any 6 of your favorite Broadcast stations. Just push a button—and there's the station you want, accurately calibrated for perfect reception! Station tabs are included for all important American stations. Convenient manual tuning is also provided.

**Powerful Reception.** The Knight 6 covers two complete bands powerfully and dependably—165 to 53 meters (660 to 18,100 K.C.) for Short Wave police, aviation, and amateur "phone, as well as fascinating foreign reception on the popular 19.25, 31, and 49 meter (foreign Short Wave channels. The second band covers 174 to 560 meters (535 to 1720 K.C.) for upper police channels and all American and Canadian standard Broadcast stations. Here virtually three band reception!

**Slide-Rule Dial.** Latest 1939 type—an innovation that makes for simpler, more accurate tuning. Measuring 6" x 2½", Pointer travels horizontally over attractively-colored dial. Has easy-to-read calibrations, marked in kilocycles for the Broadcast band and in megacycles for Short Wave. Popular stations and channels are clearly indicated.

**Latest 1939 Circuit.** The circuit of the Knight 6 is of the newest superhet type, licensed by the famous R.C.A. and Hazeltine laboratories. Every tube works; 638G as Converter; 114G as Oscillator; 657G as I.F. Ampl.; 615 as Unilast Det.-A.V.C. (Am); 615C as Audio Driver; and 119G as Class "B" P.P. Output. The circuit also employs the new synchronous vibration for combined alternator and rectifier. Since the vibrator acts as a tube, the Knight 6 attains a power and performing ability usually associated only with 7 and 8 sets.

**Low-Cost Operation.** The Knight 6 operates solely from a 6 volt storage battery and does not require any "B" or "C" batteries. Battery drain is extremely low—1.5amps.—yet the power output is more than 2 watts, unusual for a 6 tube battery set. That's real economy!

**Splendid Tone.** A full-sized 6 P.M. Dynamic speaker is incorporated in the table model of the Knight 6 (8" in the console and chassis models). All programs are handled smoothly and effortlessly, being reproduced with a rich, bell-like quality of tone not found even in many A.C. receivers. You'll like the vivid tonal realism of the Knight 6.

**Other Value Features.** Full Automatic Volume Control to maintain uniform volume on all programs; Continuously Variable Tone Control so that you may emphasize either bass or treble as you desire; "On-Off" switch; separate coil for each band; 1.5 wave trap to prevent code from reaching through on the Broadcast band; rubber-floating, heavy-duty tuning condenser; 3 foot battery cable with clips attached, etc.

**Beautiful Cabinet.** An attractive, pleasingly-proportioned cabinet houses the sturdy chassis of the Knight 6. Instrument panel is of horizontally-striped walnut. Curved grille bars accentuate the flowing lines, and add to the graceful design. Size: 18" long, 10½" high, and 8½" deep.

**A Supreme Value.** The Knight 6 TUBE 2 Band 6 Volt Superhet is offered in the handsome table model cabinet illustrated above, complete with R.C.A. tubes and 6 speaker. Less 6 Volt battery. Shpg. wt., 23 lbs. Code: WHITE.

**OUTSTANDING NEW FEATURES**
- Push-Button Tuning
- 6" Slide-Rule Dial
- Synchronous Vibrator
- New P.M. Speaker
- With Tone Control
- Low-Drain Circuit
- Full-Acting A.V.C.
- Efficient Wave Trap
- Full 2 Watts Output

**6 TUBE 6 VOLTS CONSOLE MODEL**

The Knights 6 TUBE 6 Volt Superhet is available in the luxurious new low-boy console shown above. Incorporating the same efficient chassis, but with an 8" P.M. Dynamic Speaker, it has a large baffle area for finest tone quality. Instrument panel is of striped walnut, and is sloped for best visibility. Entire cabinet is hand-rubbed to a rich walnut finish and reflects careful craftsmanship. Size: 32" wide, 36" high, 13½" deep. Supplied complete with 8" speaker and R.C.A. tubes. Less 6 volt battery. Shpg. wt., 66 lbs. Code: CREAM.

**$38.50**

**6 TUBE 6 VOLTS CHASSIS MODEL**

The chassis model of the Knight 6 makes a perfect replacement for obsolete battery sets. Incorporates all the features described above, including an 8" speaker. Ruggedly built for long, dependable service. Size: 14"x 7½"x 8½". Complete with R.C.A. tubes and 8 speaker. Less 6 volt battery. Shpg. wt., 19 lbs. Code: FENCE.

**$23.45**

**Your Net Price**

**$104.58** Knight 6-Volt 15 Plate Storage Battery. Shpg. wt., 42 lbs. NET...

**$39.95**

**$104.58** Knight 6-Volt 15 Plate Storage Battery. Shpg. wt., 42 lbs. NET...

**$5.95**

**R.C.A. & HAZELTINE LICENSED**

**6 TUBE 6 VOLT SUPERHET**

If we're exceptionally proud of this 1930 Knights 6 TUBE 6 Volt Superhet, it's because we know that it incorporates the finest in engineering skill, quality-built parts, and artistic cabinetry—at a price that is unbeatably low. It's ALLIED's challenge to the battery radio industry and we're backing it up 100% with our Free Trial, Money-Back Guarantee. Buy this set today and under your own operating conditions— hear it bring in Broadcast and Short Wave stations with an ease and fidelity you never dreamed possible on a battery radio—and if it doesn't out-perform any other 6 tube 6 volt set you ever heard, we'll gladly refund your full cash purchase price!

**Push-Button Tuning.** Automatic, simple, fool-proof, the Push-Button Tuning System of the Knight 6 will tune any 6 of your favorite Broadcast stations. Just push a button—and there's the station you want, accurately calibrated for perfect reception! Station tabs are included for all important American stations. Convenient manual tuning is also provided.

**Powerful Reception.** The Knight 6 covers two complete bands powerfully and dependably—165 to 53 meters (660 to 18,100 K.C.) for Short Wave police, aviation, and amateur "phone, as well as fascinating foreign reception on the popular 19.25, 31, and 49 meter (foreign Short Wave channels. The second band covers 174 to 560 meters (535 to 1720 K.C.) for upper police channels and all American and Canadian standard Broadcast stations. Here virtually three band reception!

**Slide-Rule Dial.** Latest 1939 type—an innovation that makes for simpler, more accurate tuning. Measuring 6" x 2½", Pointer travels horizontally over attractively-colored dial. Has easy-to-read calibrations, marked in kilocycles for the Broadcast band and in megacycles for Short Wave. Popular stations and channels are clearly indicated.

**Latest 1939 Circuit.** The circuit of the Knight 6 is of the newest superhet type, licensed by the famous R.C.A. and Hazeltine laboratories. Every tube works; 638G as Converter; 114G as Oscillator; 657G as I.F. Ampl.; 615 as Unilast Det.-A.V.C. (Am); 615C as Audio Driver; and 119G as Class "B" P.P. Output. The circuit also employs the new synchronous vibration for combined alternator and rectifier. Since the vibrator acts as a tube, the Knight 6 attains a power and performing ability usually associated only with 7 and 8 sets.

**Low-Cost Operation.** The Knight 6 operates solely from a 6 volt storage battery and does not require any "B" or "C" batteries. Battery drain is extremely low—1.5amps.—yet the power output is more than 2 watts, unusual for a 6 tube battery set. That's real economy!

**Splendid Tone.** A full-sized 6 P.M. Dynamic speaker is incorporated in the table model of the Knight 6 (8" in the console and chassis models). All programs are handled smoothly and effortlessly, being reproduced with a rich, bell-like quality of tone not found even in many A.C. receivers. You'll like the vivid tonal realism of the Knight 6.

**Other Value Features.** Full Automatic Volume Control to maintain uniform volume on all programs; Continuously Variable Tone Control so that you may emphasize either bass or treble as you desire; "On-Off" switch, separate coil for each band; 1.5 wave trap to prevent code from reaching through on the Broadcast band; rubber-floating, heavy-duty tuning condenser; 3 foot battery cable with clips attached, etc.

**Beautiful Cabinet.** An attractive, pleasingly-proportioned cabinet houses the sturdy chassis of the Knight 6. Instrument panel is of horizontally-striped walnut. Curved grille bars accentuate the flowing lines, and add to the graceful design. Size: 18" long, 10½" high, and 8½" deep.

**A Supreme Value.** The Knight 6 TUBE 2 Band 6 Volt Superhet is offered in the handsome table model cabinet illustrated above, complete with R.C.A. tubes and 8 speaker. Less 6 Volt battery. Shpg. wt., 23 lbs. Code: WHITE.

**$25.50**

**Your Net Price**

**$104.58** Knight 6-volt 15 Plate Storage Battery. Shpg. wt., 42 lbs. NET...

**$39.95**

**6 TUBE 6 VOLTS CONSOLE MODEL**

The Knights 6 TUBE 6 Volt Superhet is available in the luxurious new low-boy console shown above. Incorporating the same efficient chassis, but with an 8" P.M. Dynamic Speaker, it has a large baffle area for finest tone quality. Instrument panel is of striped walnut, and is sloped for best visibility. Entire cabinet is hand-rubbed to a rich walnut finish and reflects careful craftsmanship. Size: 32" wide, 36" high, 13½" deep. Supplied complete with 8" speaker and R.C.A. tubes. Less 6 volt battery. Shpg. wt., 66 lbs. Code: CREAM.

**$38.50**

**6 TUBE 6 VOLTS CHASSIS MODEL**

The chassis model of the Knight 6 makes a perfect replacement for obsolete battery sets. Incorporates all the features described above, including an 8" speaker. Ruggedly built for long, dependable service. Size: 14"x 7½"x 8½". Complete with R.C.A. tubes and 8 speaker. Less 6 volt battery. Shpg. wt., 19 lbs. Code: FENCE.

**$23.45**

**Your Net Price**

**$104.58** Knight 6-Volt 15 Plate Storage Battery. Shpg. wt., 42 lbs. NET...

**$5.95**
NEW 2-WAY FARM RADIO

6 TUBE 6 VOLT—110 VOLT SUPERHET

At just the flip of a switch the Knight 6 Two-Way Farm Receiver gives you perfect reception from either 6-volt storage battery or from 110 Volts A.C. Either way its performance equals that of any A.C. radio.

If you expect the high-lines soon, you don't have to go without radio now—the 1939 Knight 6 Two-Way Farm Receiver gives you perfect reception from either 6-volt storage battery or from 110 Volts A.C. A product of the highest engineering skill and ingenuity, the Knight 6 is the most advanced, versatile performer yet developed. It's really two high-grade sets in one, and no matter which type of current you use, you'll be getting the finest type of reception!

* Powerful 2-Band Reception. The Knight 6 covers 165 to 54 meters (555-1750 K.C.) for long-range Short Wave reception of aviation, ship and airplane signals, as well as the important 19, 25, and 49 meter foreign channels; and 175 to 560 meters (5650-18,100 K.C.) for police calls and for potential reception of all American and Canadian standard Broadcast stations.

* Glorious Tone Quality. Superb reproduction of all programs is an outstanding feature of the Knight 6. You'll thrill to the new concept of radio performance which is attained by a brilliant new circuit coupled to the finest type of P.M. dynamic speaker (full 6" type in the table model) which reproduces with finest fidelity.

* 1939 Circuit Design. A rugged superhet circuit, fully licensed by R.C.A. and Hazeltine, uses latest low-drain tubes: 6DG as 1st Det. A.V.C., 6SSG as Diode Det., 6TTG as Audio Amp.-Diode Det., 6GYG as I.F. Amp., 62ZYG as Rectifier. Other latest features include: Full A.V.C. to maintain uniform volume on all programs; Continuous Variable Tone Control range; horizontally striped high-gain coils; full-length cabinet with battery clips and A.C. plug, etc.

* Economical Operation. The new two-in-one Knight 6 is a marvel for economy whether you operate it from 6 volts or 110 volts. Modern low-drain tubes and skillful circuit design assure maximum savings without any sacrifice in efficiency. You can save as much as $15 to $18 a year on battery operation; 110 volt operation is on a par with the lowest-drain A.C. radio.

* Push-Button Tuning. The finest available. Has 8 push-buttons—6 for tuning your favorite Broadcast stations automatically, one for clearing to manual tuning, and one as Short Wave band switch, can be set for any 6-dial tuned stations. Manual tuning is also provided for.

* Slide-Rule Dial. Both efficient and attractive; makes for accurate, easy tuning of stations. All popular Broadcast stations and important Short Wave channels are marked. Upper scale is calibrated in kilocycles for Broadcast; lower scale in megacycles for Short Wave. Size: 8½" x 5¾". An easy-to-tune modern dial.

* Handsome Table Cabinet. Body is beautiful horizontally striped walnut, top and bottom of striking "V" matched woods. Attractive grille bars add richness to appearance. Cabinet has finest acoustical qualities. Size: 18" x 11½" x 9¾".

Two-Way Model Complete. The Knight 6 Two-Way Farm Receiver is shown below, complete with speaker and Raytheon tubes. Shpg. wt.: 27 lbs. Code: WHEAT. Less battery...

E10882. Knight 6, 6-volt, 15-plate Storage Battery. Shpg. wt.: 42 lbs. NET...$29.95

OUTSTANDING NEW FEATURES

* PUSH-BUTTON TUNING
* SLIDE-RULE DIAL
* NEW P.M. SPEAKER
* WIDE-RANGE TUNING
* FULL-ACTING A.V.C.
* TONE CONTROL
* NEWLOW-DRAIN TUBES

R.C.A. & HAZELTINE LICENSED

For camps, cottages, trailers, and for those who expect high lines soon, the Knight 6 offers the last word in radio design—one-way reception at the turn of a switch. Works perfectly either 6-volts D.C. or 110 volts A.C. Use it in the city on A.C.—in the country from a 6-volt storage battery—either way you get A.C. performance, convenience and luxury— at a price that makes this set a 1939's outstanding radio value! Take advantage of our Free Trial, Money-Back Guarantee (See Page 10)—try it yourself in your own place—you'll be proud and delighted when you experience the thrilling performance, versatility and economy of the Knight 6 Two-Way Farm Radio.

6 TUBE 6 VOLT-110 VOLT CONSOLE

The Knight 6 Tube Two-Way Superhet is available in a modern console model as illustrated at the left. Front panel is of beautiful burled walnut, slided for the perfect tuning angle. Top and curved sides are of choice walnut, furnishing a harmonious note. Entire cabinet is hand-rubbed to a high finish. Size: 37" x 22" x 11½".

* The Knight 6 Console Model includes all the features described above, incorporates an 8" speaker for finest tone quality; complete 2-band reception—165 to 54 and 175 to 560 meters (555-1750 and 5650-18,100 K.C.) for the finest in Short Wave and Broadcast reception, Push-Button Tuning, Slide-Rule Dial, A.V.C., Tone Control, low-drain tubes, etc. The perfect console model—ideal for the new 6-volt A.C. or battery—one of the finest three radio consoles—for either 6 volts or 110 Volts. Supplied complete with 8 P.M. speaker and Raytheon tubes. Shpg. wt.: 28 lbs. Code: TULIP. Lens 6-volt battery...

E10459. Knight 6, 6-volt, 15-plate Storage Battery. Shpg. wt.: 42 lbs. NET...

E10455. Knight 6-Volt, 15-plate Storage Battery. Shpg. wt.: 42 lbs. NET...

E10459. Knight 6-Volt, 15-plate Storage Battery. Shpg. wt.: 42 lbs. NET...

6 TUBE 6 VOLT-110 VOLT CHASSIS

Here's an ideal chassis for modernizing old suitcase radios. Measures: 14" long, 5½" deep, 9½" high. Includes all features described above. Complete with 8 P.M. speaker, Push-Button Tuning, Slide-Rule Dial, A.V.C., Tone Control, low-drain tubes, etc. The perfect chassis for either 6 volts or 110 Volts. Supplied complete with 8 P.M. speaker and Raytheon tubes. Shpg. wt.: 18 lbs. Code: SPRAY. Lens 6-volt battery...

E10455. Knight 6-Volt, 15-plate Storage Battery. Shpg. wt.: 42 lbs. NET...

E10459. Knight 6-Volt, 15-plate Storage Battery. Shpg. wt.: 42 lbs. NET...
6 TUBE 2 BAND 32 VOLT FARM PLANT RADIO

Power to bring you the finest radio programs from everywhere—tuneful brilliance never before obtainable in a 32 volt set—economy of operation that will amaze you—that's the Knight 6 Tube 32 Volt Superhet for 1939! We believe that the Knight 6 is far superior to any other 32 volt set in spite of its extremely low price that we invite you to try it out under our Free Trial, Money-Back Guarantee. Once you enjoy the beauty and performance of this set, once you hear its outstanding, rich tone quality, you'll know why we are so proud of this 1939 Knight 6.

* Two Full Bands. The Knight 6 covers 16.5 to 556 meters (570-18100 K.C.) for Short Wave police, airplane, amateur and ships-at-sea signals as well as foreign reception on the popular 19, 21, 24, and 29 meter bands. 117 to 556 meters (540-17300 K.C.) for long-distance reception.

* All Electric Operation. No batteries are required for operating the Knight 32 Volt Superhet—just plug it into the nearest 32 Volt D.C. source, and you're ready to enjoy all the luxury, convenience, and economy of the finest modern A.C. radio receivers. Here's 1939's finest 32 Volt radio at a price everyone can afford.

**Push-Botton Tuning. ALLIED** is first with Push Button Tuning in a 32 Volt radio. Automatic, accurate, and dependable, this tuning system enables you to tune any four of your favorite broadcast stations automatically. Tuner may be easily set from front for your favorite local stations but can also be tuned in the regular manual method.

**Powerful 1335 Circuit.** An entirely new superhet circuit has been developed for the Knight 6. Licensed by R.C.A. and Hazeltine, it uses: 6K8 as the Mod. (dual purpose); 6K7 as L.F. Amplifier; 6DQ6 as Det. A.V.C.; 1st Audio (triple-purpose); 6QG as Audio Driver; and 2—2S16G6 as Push pull Beam Power Output. The vacuum tubes contribute greatly to the extra power and tone quality of the Knight 6. The circuit is designed for greatest efficiency and economy. Total drain is only 1.05 volts.

**Magnificent Tone.** The Knight 6 stands head and shoulders above all other 32 volt sets for full-bodied, bell-like tone quality. The heavy-duty 6 dynamic speaker, plus the 2 Beam Power Tubes and efficient Tone Control, result in unmatched tonal excellence. You'll enjoy the way in which this new Knight model reproduces each program with broadcast studio tone quality.

Latest Features. Full A.V.C. for uniform volume and freedom from fading; rubber-mounted tuning condenser and chassis. "Thermometer" dial; individual coils for each band; Beam Power Tubes, etc. These are features seldom found in ordinary 32 volt radios. They are additional proof that the Knight 6 is truly a deluxe receiver yet it is offered at a price easily within anyone's reach.

**Beautiful Cabinet.** The cabinet which houses the Knight 6 is a model of superbe craftsmanship and design. Gracefully proportioned, it has a top and bottom of richly colored dark woods which contrast handsomely with the lighter, horizontally grained walnut instrument panel attractively finished with a gleaming semi-gloss finish. Size: 19" wide, 11" high, 8½" deep.

**Table Model Complete.** The Knight 12-Volt 5-2 Band Superhet is offered complete with 6 dynamic speaker and R.C.A. tubes. For 32 volt operation. Shop wt. 19 lbs. Code: GRAIN E10620. Retail Value: $55.00

**NET PRICE EACH.** $29.45

Get FREE POWER with a WINDCHARGER

The Rurlpower Windcharger quickly and efficiently charges any 6-volt Storage "A" Battery, or used with the resistor below, will charge any 2-volt storage battery. Has automatic cut-out; automatic heavy-duty generator. The generator has oil-sealed ball bearings in unit at 350 R.P.M. Has airplane type propeller with copper-sheathed leading edge. Ball-bearing turntable maintains double tension contact; permits free rotation of power head. Turntable brake automatically corrects position for any wind. Easily started and stopped with simple pull-down wire attached to propeller. To install, mount Windcharger and 10-foot tower on unobstructed roof or to open place, attach 10-foot tower and wind. The wind makes the windcharger work—we're not trying to sell you a windmill. You can use either tower or battery—the wind does the rest. May also be used for limiting lighting service with heavy-duty batteries such as shown on page 43.

**E10610. Rurlpower Windcharger complete.** Includes heavy-duty generator and head mechanism, wired and ready to mount; 10-foot Tower, Propeller, Tail Vane, Aiming point on panel, Cut-out, Battery Clip, etc. Complete instructions supplied. Shop wt. 75 lbs.

**NET PRICE:** $19.75

NEW! Get FREE power from the wind with the finest, most reliable Windcharger ever made. This new, perfected Rurlpower Windcharger offers true economy in storage-battery charging—nothing to operate—saves you the expense of dry batteries of earing heavy batteries to town for recharging. Delivers up to 15-20 amperes of direct 6-volt output. Simple, new and improved Windcharger has been especially developed for the Rurlpower Windcharger. The Windcharger assures better radio performance because it eliminates the nuisance of run-down batteries.

The Rurlpower Windcharger quickly and efficiently charges any 6-volt Storage "A" Battery, or used with the resistor below, will charge any 2-volt storage battery. Has automatic cut-out; automatic heavy-duty generator. The generator has oil-sealed ball bearings in unit at 350 R.P.M. Has airplane type propeller with copper-sheathed leading edge. Ball-bearing turntable maintains double tension contact; permits free rotation of power head. Turntable brake automatically corrects position for any wind. Easily started and stopped with simple pull-down wire attached to propeller. To install, mount Windcharger and 10-foot tower on unobstructed roof or to open place, attach 10-foot tower and wind. The wind makes the windcharger work—we're not trying to sell you a windmill. You can use either tower or battery—the wind does the rest. May also be used for limiting lighting service with heavy-duty batteries such as shown on page 43.

**E10610. Rurlpower Windcharger complete.** Includes heavy-duty generator and head mechanism, wired and ready to mount; 10-foot Tower, Propeller, Tail Vane, Aiming point on panel, Cut-out, Battery Clip, etc. Complete instructions supplied. Shop wt. 75 lbs.

**NET PRICE:** $19.75

**When purchased complete with any Knight 6-Volt Radio, the Windcharger is available at the reduced price of $17.50

GAS ENGINE FARM PLANTS

Get rid of time-wasting drudgery, poor lighting, and weak radio reception—purchase one of the new dependable, low-cost Farm Power Plants described on Page 45 available in 6-volt, 32-volt, and 110-volt A.C. Electric Fences shown on Pages 44-47. Low in cost, reliable, and economical, they will keep live-stock safely enclosed within restricted areas.

NEW: ELECTRIC FENCE CONTROLLERS

New, sensational and revolutionary are the 6-volt, 32-volt and 110-volt A.C. Electric Fences shown on Pages 44-47. Low in cost, reliable, and economical, they will keep live-stock safely enclosed within restricted areas.

1939 FEATURES

- PUSH-BUTTON TUNING
- 6" DYNAMIC SPEAKER
- WITH TONE CONTROL
- TWO BAND RANGE
- FULL ACTING A.V.C.
- BEAM POWER TUBES
- NEW 1335 CIRCUIT
- INDIVIDUAL COILS
- LICENSED

R.C.A. & HAZELTINE LICENSED

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1939's most amazing car radio design! Offers the best word in Auto Radio versatility, convenience, driving enjoyment. Fits any car perfectly. The first low-cost Auto Radio to combine superb entertainment coupled with absolute safety in driving. ALLIED is first with the latest in a Push-Button Tuniing Auto Radio—and at the lowest price on the market.

**AUTOMATIC TUNING.** You can tune any of five favorite stations on the Knight 5 just by pressing a button—and you don't have to take your eyes off the road. Buttons are instantly adjustable for any five stations selected. Each button is geared directly to the tuning condenser for positive, accurate tuning. This tuning system withstands vibration and can't get out of adjustment. Does not interfere with regular manual tuning.

**NEW SLIDE-RULE DIAL.** The latest 1939 rectangular full-vision dial is incorporated in the Knight 5 Auto Radio. Has full-vision easy-to-see scale. Both dial, controls and push-buttons are inclined slightly to face the driver and to provide vision and safety while driving. The entire auto radio assembly mounts neatly to the lower edge of the car instrument panel.

**ALL-ELECTRIC RADIO.** You get luxurious all-electric operation anywhere you drive, with the new Knight 5. Has built-in vibrator power supply of the fixed construction. No suppressors are required. Latest Superhet circuit design, licensed by R.C.A. and Hazeltine, uses five new tubes to achieve 7 tube efficiency and performance. Tubes used are: 6A8G as Conv.-Osc.; 6K7 as I.F.; 607G as Det.-A.V.C.-1st Audio; 6K6G as Power Output; 6X6G as Rectifier.

**OUTSTANDING FEATURES.** Additional features include: Full A.V.C. to maintain uniform volume; 5-Inch Electro-dynamic Speaker of highest quality; full 2 watts power output; 6 tuned circuits; 2 to 8 microwatts sensitivity; 515 to 1510 Kc. range; plug type antenna connection on case; fused "A" lead, etc. All components are in a single sturdy steel case. 12" x 6" x 6" beautifully finished in tan crackle. The Knight 5 has been built with the care and precision required in the automotive field. It will withstand vibration and shock to give stable, enjoyable performance. The Knight 5 is offered at a price that makes available to all the finest in car radio design.


NET PRICE EACH, $15.95.
NET PRICE, LOTS OF 3 EACH, $14.95

(See page 150 for suitable and efficient new Auto Aerials.)

**SPECIALS IN AUTO RADIO ACCESSORIES**

**MOTOR-NOISE FILTER**
A new scientifically designed Auto Radio noise and spark plug suppressor eliminator. Easy to install, does not interfere with the car ignition system. Assures noise-free auto radio reception. Unit consists of a combination high-frequency filter and adjustable balancing circuit which completely eliminates noise and suppresses noises. Interference is always "balanced out" regardless of frequency, by means of manual inductance control. Filter is housed in a finished metal container fitted with mounting bracket. Installed in series with the antenna at receiver. A really efficient and dependable auto filter unit.

**FRONT WHEEL NOISE SUPPRESSORS**
Effectively eliminates all noises caused by static build-up of static wheels of car. Designed for easy installation in hub caps of car wheels.

E5489. PER PAIR 10c

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**RCA-VICTOR M-34 VIBRATOR ASSEMBLY**
A genuine R.C.A. Replacement part. An exact replacement vibrator, part No. 7604, for the R.C.A. M-34 auto set. Sealed, fully adjusted and ready to install. Will operate on from 4 to 8 volts input. Rubber-mounted in double aluminum can. Size 4 1/2 x 2 1/2 square. Built with typical R.C.A. quality to give efficiency and lasting service. An excellent replacement and exact duplicate of the original. Priced attractively low so that you need not make replacement with inferior unit.

E7356. Part No. 7604.

**BASE FOR ABOVE**
R.C.A. Part No. 6577. Capacitor and base assembly for vibrator No. 7604. Contains two 0.06 mil. condensers.

E7356, Part No. 6577.

**SHIELDED AERIAL LEAD-IN**
For efficient installation of auto antenna. Filter wrapped around No. 18 conductor, with close-fitting shielding overall. The highest quality shielded aerial lead-in wire you can buy, yet priced attractively low. Ideal for auto radio installations.

E2444. 3/4" DIAM.

Per Ft. 5c

100 Ft. $4.35

E2443. 1/2" DIAM.

Per Ft. 7c

100 Ft. $5.95

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**ANTENNA CONNECTOR**
For Auto Radio sets, to connect antenna lead to ANT.

E6254. EACH.

PER DOZ. 60c

ALLIED has available the most complete selection of high-grade Auto Aerials ever offered. See our listings on Page 150.
Powerful New 1939 Auto Radios!

**Knight 6 Tube Superhet**

- **All-Electric Radio**
- **Suppressors-less**
- **3-Gang Pre-amplifier**
- **Single Hole Mount**
- **With Tone Control**
- **Full-acting A.V.C.**
- **3 Watts Output**
- **6" DYN. Speaker**
- **Fits All Cars**

Get the ultimate in car radio enjoyment with the new 1939 Knight Super Six Auto Radio! Every advantage in design, engineering and performance! The latest in radio development with new, modern circuits and high fidelity audio system! Ideal for the fast lane and freeways. Unmatched at any price for tone quality, brilliance, power and outstanding new refinements.

- **Fits All Cars.** The Knight 6 is completely contained in a single tan-colored crackle-finished steel case, 8 1/2" x 7" x 7 1/4". Has single hole mounting for easy installation.
- **No Suppressors.** Six advanced filter circuits provide reception absolutely free from ignition noises. No need for spark plug suppressors. Will give splendid noise-free radio performance.
- **Low-Drain Tubes.** The powerful R.C.A. and Hazeltine licensed circuit uses the following tubes: 6K7 as R.F.; 9AG or 1st Diet.; 6K7 as Amp.; 6Q7 as Det.-A.V.C.; 1st Audio; 6DG6 as Power Output; 6X5G as Rectifier.
- **3 Watts Output.** The Knight Super Six develops a full unmodulated output of 3 watts—the result of a powerful 6K6G output stage. Makes possible marvelously full and rich tone which is stiffly handled by the full-size 6H or Electro-dynamic speaker. You will appreciate the fine full tone of this splendidly designed Auto Radio.
- **Tone Control.** Continuously Variable Tone Control is incorporated to add enjoyment to every program. An "extra-value" feature of this De luxe Knight 6 Tube Auto Radio Superhet.
- **Full A.V.C.** Automatic Volume Control has been brought to a new point of perfection in the Knight 6. No fading, no reduction of volume, no matter what programs you are tuning or wherever you drive. You'll notice the difference in this receiver.
- **No-Glare Dial.** The splendid new dial of the Knight 6 is a real safety feature. It is easy to read—no glare or distraction. Dial mounting kits are available to fit any car.
- **New Features.** Additional features are: R.F. pre-amplifier for super-sensitivity at a minimum noise-level—sensitivity is 1.5 to 1 microvolts; 10 K.C. Selectivity; 2 Position Antenna Plug for matching various types of aerials; 3-Tuned Circuits; 3-Gang Condenser; Fused "A" lead, etc. Tuning range is 55 to 1550 K.C. A De luxe Auto Radio in every way.

**Great Car Radio Value.** The Knight Super Six Auto Radio as described is offered complete with built-in speaker, R.C.A. tubes, flexible shafts, tuning mechanism and hardware. Requires either of tuning control heads listed at $18. Shipped weight, 40 lbs. Code: MOTOR

E10024, Retail Value, 39.95. **YOUR NET PRICE, LOTS OF 1, EACH**

(See Price 150 for suitable Auto Aerials.)

**$21.95**

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**Knight 4 Tube Portable**

ALLIED does it again—brings you the first really practical compact portable radio you can actually use anywhere! Made possible by the development of the sensational new 1 1/2 volt tubes which draw 60% less current than ordinary battery set tubes. Gives excellent performance with unusually long battery life. The Knight 4 Portable Receiver is a complete radio in itself, entirely self-contained in a sturdy leatherette-covered cabinet, measuring only 13" x 8 1/2" x 8". Weighs only 13 lbs.

- **NEW 1 1/2 Volt Circuit.** The Knight 4 Portable tunes from 546 meters (540-1130 K.C.) for powerful enjoyable reception over the entire standard Broadcast band. The R.C.A. and Hazeltine licensed circuit uses the new 1 1/2 volt tubes—the most amazing advancement in battery radio tubes in ten years—(as follows: 1A7G or Osc.-Mod. (dual-purpose); 1N5G or I.F.; 1HG5 or Det.-A.V.C.-1st Audio (triple-purpose); 1ASG or Audio Output. Multi-purpose tubes achieve actual six-tube efficiency. Automatic Volume Control assures uniform volume and freedom from fading.
- **Low-Drain for Economy.** Amazing battery economy is achieved by the Knight 4 Portable using the newly developed super-economic 1 1/2 volt tubes. A drain is only .2 amperes; "B" drain is only .8 milliamperes. Never before has there been possible such amazing economy of operation in a portable receiver. Special compact "AB" Power Pack which fits in cabinet will give 200 hours of service.
- **Everything Built-In.** A full 5" P.M. dynamic speaker is built into the receiver reproducing every program with exceptional fidelity. An attached 25 foot flexible antenna gives added convenience for quick operation. The novel "thermometer" dial makes tuning simple. The complete, compact, portable "AB" Power Pack is self-contained in the cabinet for exceptional convenience.
- **Smart Weatherproof Cabinet.** The Knight 4 Tube Battery Portable is supplied in a compact carrying case finished in black, waterproof leatherette. Has a convenient carrying handle. Will carry anywhere and play everywhere. Ideal for motorizing, fishing, hiking and camping trips; on parks, on boats, trailers at picnics on the beach. A versatile receiver that costs practically nothing to operate. Supplied complete with Sylvania tubes as described, but less the "AB" Power Pack.

E10025, Retail Value, $2.50. **NET PRICE EACH, 55.15. PRICE, LOTS OF 3, EACH $14.95**

(See Price 150 for suitable Auto Aerials.)

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**R.C.A. & Hazeltine Licensed**

**SPECIAL CONTROL MOUNTING KITS**

E10040, TYPE A. Universal control which adapts tuning mechanism of Knight 6 Auto Radio to fasten to lower edge of dash instrument panel. Makes an attractive installation in cars which do not have custom-control provision on dash. **YOUR NET PRICE EACH**...

**$9.95**

These controls are for use only with 1938-1939 Knight Auto Radios—will not fit 1937 Radios of other makes.
Stirring Tone - World Reception

AMERICA'S DELUXE RADIO FOR 1939

- PUSH-BUTTON TUNING
- NEW "TILT-TUNER" CONSOLE
- 20 WATTS OUTPUT
- HIGH-FIDELITY

R.C.A. & HAZELTINE LICENSED
Here's America's greatest 1939 Radio Receiver—the de luxe performer that sets the world's standard of excellence. Packed with every new feature, every latest refinement to achieve the very utmost in radio performance. Just check the Knight A.F.C. TUNING SYSTEM. The Knight offers you the most perfect of Electric-Push Button Tuning Systems. Select any one of your eight stations without removing your hand from the button! The push-button circuit is fully balanced and in eight seconds you will have your selection, plus or minus wave, as follows (for the first time in any radio receiver): one for "on-off" switch; one for switching; one for push button to manual tuning; three for Tone Control. This ingenious Push Button system makes your reception crystal clear in history!

**WORLD-WIDE RECEPTION.** America's greatest long-distance radio, the Knight (gives 5650-18100 K.C.) and 34 to 175 meters (1715-5650 K.C.) for powerful, consistent, enjoyable Short and Long Wave reception. Knight Signal Reception covers an extremely wide range of stations (1710 K.C.) for magnificent coverage of all American and Canadian broadcasting. A special wave-band knob and plate indicator are provided so that you always know the band you are tuning.

**LATEST SLIDE-RULE DIAL.** The perfect companion to Push Button Electric Tuning are the new fully automatic tuning of all programs. Ingeniously mounted to the panel, this dial enables you to know, at a glance, the program you are receiving, and to change from one to another, without removing your hand. The dial is graduated in kilocycles and megacycles, easy to read and tune. A horizontal traveling pointer is featured. This new Slide-Rule Dial is a distinct advantage in tuning adjustments.

**SUPER-POWERFUL CIRCUIT.** Newest orbital tubes are used through-oute the R.C.A. and Hazeltine licensed circuit as follows: 6K7G as R.F. Amp., 6L1G as 1st Det., 6J5G as Osc. 6J5G as Frequency Control 6K7G as L.F. Amp., 6K7G as 2nd F. Amp. 6G7G as A.F.C. 6F9G as A.F.C. Rectifier 6G7G as A.M. Amp. 655C as 2nd Bas. 6G7G as Push-pull Amplifier. This amp. has an 8:1 linear-identity and perfectly eliminates all interference from a distance of 6500 miles.

**AUTOMATIC FREQUENCY CONTROL.** Automatic Tuning reaches its greatest peak in accuracy and efficiency in the Knight through the use of the very latest types of components. Knight offers you the very latest in a Frequency Control which automatically adjusts the frequency of your receiver so that it is always in tune. It is this F.C.C. which causes the receiver to respond to the highest level of the waves that are being transmitted. Thus you simply can’t tune "off-tone" with this feature. The A.F.C. circuit automatically adjusts the receiver to the proper frequency and maintains the same frequency as long as you are tuning. Your perfect tonal reception on every program, because you are tuned exactly.

**FLUXFIELD.** An exclusive new de luxe feature found only in select selling at much higher prices. Affords the utmost in sensitivity, selectivity and low noise level. Makes possible consistently dependable reception on all three bands. Two double-tuned I.F.'s are also incorporated. (selectivity is absolute 3 Mc. at 10 milliwatts on all bands! Sensitivity is 8 to 10 K.C. at 10 power.) This is a marked proof of the performance superiority of the 1939 Knight 16.

**FULL-Delayed A.V.C.** Only the finest radios have this wonderful feature. Absolutely overcomes fading even on the weakest signals. Equal intensity and uniform volume strength are given to all incoming signals picked up by the suppressive circuit. A three-gang rubber-finished control knobs with hinged sharpness for unprecedented selectivity.

**GREAT POWER OUTPUT.** The Knight has an amazing power output of 18 watts undistorted. It is ably handled by a special newly developed giant 12-inch super-dynamic speaker with additional three-inch expander. Actually a 15-inch Expander Type Speaker. This valuable feature provides proper acoustical balance for any program in any size room. The Knight 16 develops a quality of tone that will never cease to delight you. It reproduces both speech and music with life-like fidelity, unfolding new worlds of tonal depth and beauty that will thrill even the most critical.

**BASS AMPLIFIER.** Into the Knight 16 there has been built a special, separate bass amplifier channel. This circuit design innovation—previously found only in laboratory and Broadcast studio instruments—handles bass frequencies exclusively and realistically, without affecting or cutting off the high notes. Has separate bass control knob with 10 positions.

**WORLD-WIDE BANDS.** Only found in the 1939 Knight 16. Three buttons are provided for varying tone to give base or treble emphasis as desired. Assures perfect acoustical correction for every program. Provides absolute and completely effective responses at either ends of a musical range extending from 30 to 6000 cycles; does not cut off frequencies. Gives complete mastery of the entire tonal range from highest treble to lowest bass. Imagine it—you get the tonal emphasis you want just by pushing a button! Together with the 10-position bass channel control knob, the Knight 16 offers 42 separate tonal variations for the most complete tonal control ever incorporated in any radio receiver.

**MAGNIFICENT 1350 CONSOLE.** The console of the Knight 16 is magnificently styled in the latest 1939 low-boy trend. The top panel of adjacent and parallel finish is softly-strung plasters of choice walnut with contrastingly grained top and bottom bands. Beautily hand-rubbed to a lustreous piano finish. The cabinet measures 34½" wide, 37½" high, 14" deep.

**CONSOLE MODEL COMPLETE.** The 1939 Knight 16 Tube All-in-One console is as illustrated at the left, complete with 12-inch speaker and R.C.A. Tuner. For four years, 50 cycles, A.C. Shipped wt., 12½ lbs. Code: DREAM.

E1080. $83.50
**YOUR NET PRICE EACH.**

**16 TUBE PHONO-RADIO**

The year's most magnificent complete musical instrument which is the new Knight 16 Tube Phonograph—Combination is more than the sum of all its parts. Equipped with the records of your favorite performers on the latest K.C.A. or Artistic Phonograph records, this new combination is a fine musical attraction for any home. The tone arm is designed to provide the finest musical reproduction available. A dynamic speaker with a 12- inch speaker and R.C.A. Crystal Pickup with automatic phone motor assures perfect articulation on all records. Records are reproduced through the advanced amplifying system: 12 watts output. The 16 TUBE PHONO-RADIO is capable of handling 2.500 records of all types, and 5000 music notes. Special Amplifier provides for varying volume and tone. Has a built-in R.F. on all bands, and a separate Bass Channel for effect. It has an automatic radio receiver in a real masterpiece finish. Complete with straight walnut walnut side panels; has record compartment which is extended with straight walnut walnut side panels; has separate Bass Channel. Price $169.50. **NET PRICE EACH.**

**16 TUBE PHONOGRAPH**

The year's most magnificent complete musical instrument which is the new Knight 16 Tube Phonograph—Combination is more than the sum of all its parts. Equipped with the records of your favorite performers on the latest K.C.A. or Artistic Phonograph records, this new combination is a fine musical attraction for any home. The tone arm is designed to provide the finest musical reproduction available. A dynamic speaker with a 12-inch speaker and R.C.A. Crystal Pickup with automatic phone motor assures perfect articulation on all records. Records are reproduced through the advanced amplifying system: 12 watts output. The 16 TUBE PHONO-RADIO is capable of handling 2.500 records of all types, and 5000 music notes. Special Amplifier provides for varying volume and tone. Has a built-in R.F. on all bands, and a separate Bass Channel for effect. It has an automatic radio receiver in a real masterpiece finish. Complete with straight walnut walnut side panels; has record compartment which is extended with straight walnut walnut side panels; has separate Bass Channel. Price $169.50. **NET PRICE EACH.**

Only the very finest components, fully conforming to the highest standards of your local radio and phonograph dealers. This is a new feature of the deluxe receiver of the de luxe chassis of the Knight 16 as illustrated at left. Two separate chassis, tuned to the two frequencies, have been assembled with utmost precision to assure the very finest stability. All vital circuits are thoroughly shielded; everything is in the right place. The most important points. A fine craftsmanship throughout, and a most complete outfit. Assemble to get your receiver in a real masterpiece finish. R.F. on all bands, and a separate Bass Channel for effect. It has an automatic radio receiver in a real masterpiece finish. Complete with straight walnut walnut side panels; has record compartment which is extended with straight walnut walnut side panels; has separate Bass Channel. Price $169.50. **NET PRICE EACH.**
Glorious Musical Entertainment!

Knight 8 TUBE PHONO-RADIO

The thrill of perfect all-wave radio reception—the satisfaction of high-fidelity reproduction of phonograph records—and the luxury of a magnificent cabinet in the modern trend are combined in this quality-built musical instrument to provide lasting joy and entertainment. This new Knight 8 Tube De Luxe Phonograph-Radio Combination is truly a luxury instrument for those who want only the best.

- **ALL-WAVE SUPERHET CIRCUIT.** The radio portion of the Knight 8 Tube Phone-Radio is built around a new R.C.A. and Hazeltine licensed Superhet circuit. Continuous tuning range from 165 to 565 meters (335 to 18,000 K.C.) covering everything that’s on the air: standard broadcast, foreign Short-Wave programs, Aviation, Amateur, Police and Ships-At-Sea. A full 3/5 watts undistorted output (5 watts maximum) is developed. Tubes used are: 6A7-1st Det.; 636-L.F. Amp.; 76-Osc.; 76-Phase Inverter; 76-2nd Det.; A.Y.C.-1st Audio (triple purpose); 2-41-P. P. Output; 80-Rectifier.

- **RADIO’S GREATEST FEATURES.** Incorporates the finest features: Automatic Push-Button Tuning for any 6 selected stations; 3/4" x 3/4" Slide-Rule Dial with separate scales for each band; continuously variable Tone Control; full Automatic Volume Control; heavy-duty J-gang rubber-mounted condenser; Bass Compensation and Bass Booster; Prestector Stage; Individual Coils on each band; and many others. An oversized 10" concert-dynamic speaker reproduces every delicate nuance, every shade of tone in a magnificently faithful manner.

- **AUTOMATIC RECORD CHANGER.** The phono portion incorporates the finest equipment ever designed for wide-range phonograph reproduction. The genuine R.C.A. record changer automatically plays 8-10" or 7-12" records in sequence without your lifting a finger! A new top-loading R.C.A. crystal pickup with triple-scaled crystal cartridge captures the full significance of every musical note. You have never really heard modern electrically recorded music until you hear it on the Knight 8 Tube Phone-Radio.

- **MODERN MASTERPIECE CABINET.** To house this glorious instrument fittingly, an entirely new deluxe cabinet has been designed. Accustomed radio and phonograph side-by-side under hinged lid. Of expensive matched walnut woods, hand-rubbed to a rich piano finish. Console measures: 26" wide, 35" high, 16" deep.

- **SET COMPLETE.** Knight 8 Tube Phone-Radio in console at left with R.C.A. tubes, Automatic Record Changer, and 10" speaker. For 110 volts, 60 cycles. A.C. Shpg. wt. 95 lbs. Code: ORGAN. E1077. Retail Value: $179.50. NET PRICE EACH.

- **R.C.A. & HAZELTINE LICENSED.**

10 TUBE PHONO-RADIO

The charmingly beautiful period console shown at right provides a luxury setting for one of the finest musical instruments ever built. The grace and distinction of fine cabinetry, the precision of skilled radio construction, and the perfection of modern phonograph reproduction have been molded into a harmonious whole—resulting in a type of instrument that has heretofore been available only in expensive custom-built installations.

- **R.C.A. LICENSED SUPERHET CIRCUIT.** Latest 1938 de luxe features include: All-wave reception range of 12.5 to 40, 40 to 136, 173 to 365 meters; tuning foreign Short-Wave, standard Broadcast, Police, Aviation, Ships-At-Sea, and Amateur transmission; Electric Push-Button Tuning of any 3 selected stations; 9" Slide-Rule Dial; full Amplified Automatic Volume Control; full rubber-mounted J-gang tuning condenser and chassis; 4-position Tone Control; Electric Eye; Bass Compensation; Bass and Treble Boosters; R.F. on all Bands; Individual Coils on each Band; tremoloing Push-Pull Beam Power Output of 14 watts undistorted (20 watts maximum); double antenna connection, etc. Tubes used are: 2-6X7; 1-608; 1-607G; 1-6A6G; 1-6AF8G; 1-6L6; 1-6CG8; 1-6C5T. A 12" speaker gracefully handles the full power output.

- **LUXURY PHONO EQUIPMENT.** No element has been omitted to provide 1939's finest phonograph reproduction. Genuine R.C.A. automatic record changer will play 8-10" or 7-12" records entirely automatically. R.C.A. offset head crystal pickup, properly balanced and adjusted, takes from the record grooves exactly what the recording studio has put there—every overtone, every crescendo or pianissimo passage is perfectly rendered with high-fidelity realism.

- **SET COMPLETE.** The deluxe 10 Tube Knight Phone-Radio is offered complete with R.C.A. tubes, automatic record-changer, and 12" speaker in the lovely period console pictured at right. Rich walnut woods are carefully matched and rubbed by hand to a lustrous finish. Cabinet has space for record albums. Measures: 41" wide, 35" high, 16" deep. Shpg. wt., 155 lbs. For operation from 110 volts, 60 cycles. A.C. Code: E10902. Retail Value, $250.00. NET PRICE EACH. $124.50

179 YOUR NET PRICE, EACH...
Knight RECORD PLAYER

Turn your radio set into a phono-radio combination—at surprisingly low cost—with this new 1939 improved model Knight Record Player. Requires only two simple connections to reproduce all recordings through your radio set amplifying circuit with the tonal fidelity obtainable only through electrical reproduction.

**PLAYS ALL RECORDS.** All standard 78 R.P.M., 8-, 10-, and 12-inch records are accommodated. The high-grade wide-range magnetic pickup assures exceptionally accurate reproduction and brings out each recording exactly as the artist has put it into it. Built of quality materials throughout, the Knight Record Player is the first choice of record-lovers who want only the best. It offers you the opportunity to enjoy endless hours of the world's finest recorded entertainment—reproduced with all the tonal beauty of the original performance.

**SPECIFICATIONS.** Incorporates self-starting synchronous type motor maintaining uniform speed of 78 R.P.M., provided with 8½" felt-covered turntable. Pull-down lightweight magnetic pickup maintains proper balance and drives to motor. Pick-up head is permanently mounted on a special arm and "off" switch is mounted on motor board. Pickup arm rest is provided.

**FUSE-CABINET.** The walnut-finished hand-rubbed case measures 15½" wide, 7½ high, 10½" deep. All visible metal parts are stationary bronze finished. With 3½-foot pickup cord and 6-foot A.C. line cord.

**PAYMENT TERMS.** Satisfactory remittance accompanies order. Net price: $945.00. RCA Victor Model R-92-C Record Player.

Knight 5 TUBE PHONO-RADIO

For little more than the usual price of a radio only, you can now enjoy the double utility of a fine radio receiver plus excellent reproduction of your favorite recordings. No other comparable unit (and we've ransacked the market to find out) offers so much for so little as this Knight Tube Phono-Radio. Includes latest developments for even more enjoyment.

**EFFICIENT RADIO CIRCUIT.** A newly designed five tube circuit incorporates latest developments for most enjoyable reception. Covers all Automatic Volume Control to maintain steady, unvarying volume with 90G7, 6N7G, 6L6G-1, and 23D2G-1. Circuit develops new 1½" dial calibrated in V's and is fully illuminated. Shadowless tuning makes frequency setting simple. The latest phonograph equipment assures superb rendition of all records. A self-starting, high-quality, synchronous motor maintains constant speed 78 R.P.M. speed. Pull ½" turntable accommodates all records including 12" size. A new offset arm magnetic pickup provides even on 12" records, thus eliminating all traces of surface noise. Has special switch, mounted on motor-board, that permits shift from radio to phonograph and also starts phono-motor. **SET COMPLETE.**

**HAND-SIGNED WALNUT CABINET.** With hinged lid, size: 14" x 12½" x 3½". R.C.A. or D.C. (Phono operation only from 110 volts, 60 cycles A.C.)

E-10820. Retail Value, $45.00. NET EACH, $24.95. YOUR PRICE, LOTS OF 3 EACH.

$23.75

RCA RECORD PLAYER

This low-cost compact Model R-92-C Record Player by RCA-Victor has proved to be a real sensation. Since its release a short time ago thousands have been bought by price-wise music lovers everywhere, and still the demand grows! It’s a real achievement—priced pleasingly low—yet maintaining a compact worthwhile. A.A.C. phonograph motor and pickup. Cabinet has neat rectangular lines, provided with 8½" felt-covered turntable. Pull-down lightweight magnetic pickup maintains proper balance and drives to motor. Pick-up head is permanently mounted on a special arm and "off" switch is mounted on motor board. Pickup arm rest is provided.

**FUSE-CABINET.** The walnut-finished hand-rubbed case measures 15½" wide, 7½ high, 10½" deep. All visible metal parts are stationary bronze finished. With 3½-foot pickup cord and 6-foot A.C. line cord.

**PAYMENT TERMS.** Satisfactory remittance accompanies order. Net price: $945.00. RCA Victor Model R-92-C Record Player.

$945

Knight PLAYER-AMPLIFIER

Entirely complete and self-contained, this new Knight Record Player-Amplifier offers a host of features seldom available in instruments priced so low. In addition to the finest record-playing equipment, the unit includes a complete built-in 8½ watt amplifier providing glorious reproduction of all 78 R.P.M. phonograph records. There is nothing else to buy...no extra tubes...no additional amplifiers...no extra switches...no extra connections. Operation (Requires no radio connection.) **FINEST PICKUP.** A new, flexible, floating arm and the finest metal—assures perfect tracking. Equipped with offset tangent arm and locking device. Maintains proper needle pressure to reduce record wear. The finest type pickup head is included. **DE LUXE AMPLIFYING EQUIPMENT.** An expertly-designed four tube amplifier combines a powerful 8½ watt output with all the features of a fine home radio. The new 6G6G-1 amplifier tube provides a Push-Pull output with degenerative coupling. Essentially the amplifier is two units in one, a separate headphone amplifier for those who want to enjoy listening to music individually. It is the only unit in this price range which incorporates a 3-position control with volume control, which assures perfect sound volume in all turntable connections. Bass excitation is included. This player offers ideal low-cost record-playing facilities so that you can always hear "the music you want... whenever you want it." For operation from 110 volts, 60 cycles A.C. Ships wt., 11 lbs.


$897

Net price each.

E-10661. Knight Player-Amplifier.

$35.85

Net price each.
ALLIED offers a 1939 radio masterpiece in this entirely new Tube Console model. It has been created for those who appreciate perfect musical reproduction and powerful long-distance reception — and for those who want the most for their radio dollar. This new-styled model incorporates all of the newest and most advantageous radio features, including automatic type A.C. Superhet reception for maximum radio enjoyment — at an amazingly low price.

- **Push-Button Tuning.** The latest automatic electric type. Has provision for the selection of any of seven favorite stations. Initial adjustment is made from the front at the buttons, and is amazingly simple, one setting required for each station. It will operate thereafter without further adjustment.

- **Tunes 3 Full Bands.** The Knight 12 covers three wave bands: 16 to 53 meters (560-1100 K.C.) and 53 to 175 meters (1175-3550 K.C.) for consistently reliable Short Wave foreign, amateur, police and aviation signals; and 174 to 560 meters (535-1720 K.C.) for powerful American and Canadian standard Broadcasts. Tunes everything on the air. In addition to Push-Button Tuning, an easy-to-read giant 8-inch Slide Rule Dial is featured with illuminated translucent colored scales and horizontal-traveling pointer. Shows kilocycles for Broadcast and megacycles for Short Wave.

- **Brilliant 2513 Circuit.** The following R.C.A. tubes are used in the splendid new R.C.A. and Hazeltine licensed circuit: 6K7 as R.F. Amp.; 6K8 as Conv.-Osc. (dual-purpose); 6K7 as 1st I.F. Amp. (dual-tuned); 6K7 as 2nd I.F. Amp. (dual-purpose); 6CG6 as special A.V.C. tube; 660G as Signal-diode and A.V.C. (dual-purpose); 6C5G as special A.V.C. tube; 6G56 as Audio Amplifier; 6J5G as Base Amplifier; 12AV6 as Phase Inverter Audio Amp.; 2V6G as Push-Pull Beam Power Output; 5V4G as Rectifier.

- **Latest Features.** R.F. on all bands—a wonderful asset that results in greater sensitivity and more dependable distance tuning. Amplified A.V.C.—the latest development in A.V.C. circuits—keeps the signal intensity equal on all stations, development in A.V.C. Circuits—keeps the signal intensity equal on all stations, development in A.V.C. Circuits—keeps the signal intensity equal on all stations, development in A.V.C. Circuits—keeps the signal intensity equal on all stations, development in A.V.C. Circuits—keeps the signal intensity equal on all stations, development in A.V.C. Circuits—keeps the signal intensity equal on all stations.

- **Magnificent Console.** A superb new console that will rank as 1939's most luxurious. Designed in the popular new low-boy trend, features a choice of splendid woods. The instrument panel is sloped for convenient visibility and tuning ease, and is of beautifully marked walnut. Side panels and top are of choice walnut with contrasting-grained top and bottom band trim. 34½" wide, 37½" high, 14½" deep.

- **Console Model Complete.** The Knight 12 is offered complete in console as illustrated with R.C.A. tubes and 12" speaker. For 110 volts, 60 cycles A.C. operation. Shpg. wt. 80 lbs. Code: ULTRA.

**E1024. Retail Value, $139.95.**

**E10522. Retail Value, $111.95.**

**Knight 12 TUBE 3 BAND A.C. SUPERHET**

Cover the whole world of radio entertainment with three full-throttle bands. Tuning every-thing.

Separate Bass Channel and bring out rich, vital bass, high frequency tonal response.

Latest Slide-Rule Dial — with each band spread on legible easy-to-read, double-scale, full-length scale.

Conceived Speaker of the latest type. Magnificent 12 watt power output.

Latest 6G56 tubes—several dual-purposes actually attain 12 tube efficiency and power for extra value.
LOW-COST RADIO AND RECORD ENTERTAINMENT!

R.C.A. AND HAZELTINE LICENSED

Knight 5 TUBE AC-DC T.R.F. PHONO-RADIO

To meet the demand for a satisfactory low-cost radio-phonograph combination, ALFRED T. R. KNIGHT has designed his new Knight 5 tubed set. This set is his first five-tube phonograph set and is available in the R.C.A. and Hazeltine license circuit with the R.C.A. and Hazeltine circuits. It can be employed in various types of radio-phonograph combinations. The Knight 5 tubed set is a combination of the Knight 500 and Knight 510.

**OUTSTANDING POWER.** The Knight 5 offers you superior phonograph reproduction achieved in excellent sound. The output of this tube can be varied from 0 to 100 watts. Peak output is 110 watts. The outstanding quality of the sound is produced by the 1-inch dia. super-dynamic speaker, the successful 3-inch dia. super-dynamic speaker, and the successful 3-inch dia. super-dynamic speaker.

**ADDED FEATURES.** R.F. Amplifier assures maximum sensitivity and distance reach, an iron core antenna coil in the broadcast program band, and an iron core antenna coil in the broadcast program band. The phase transformer operates on 100 volts, 60 cycles, A.C. or D.C. (amplifier and speaker combination, 65 volts, 60 cycles, A.C. or D.C.)

**FINISH PHONO EQUIPMENT.** Use a genuine R.C.A. Crystal pickup and latest R.C.A. Crystal pickup. Plays all records up to 12 inches and includes 12-inch size. Phonograph has separate volume control.


**NET EACH, $16.95.**

**LOT'S OF 1, EACH, $11.95.**

**MODEL WITH LID.** Illustrated at left. Same as above, but cabinet is larger and has lid (one size on all sets). Suggested price: $12.95.

**NET EACH, $18.95.**

**LOT'S OF 1, EACH, $14.95.**

**Knight 5 TUBE AC SUPERHEAT PHONO-RADIO**

The Knight 5 Phonograph is also available in a Superheat model at an attractive price. It offers exceptionally fine entertainment both from radio programs and phonograph records. Deliver excellent power and tone quality, and the Knight 5 Superheat holds its own with the finest phonographs.

**NEWEST AC SUPERHEAT.** The radio portion of the Knight 5 Superheat has the regular broadcast range of 175 to 560 meters, and the regular broadcast range of 175 to 560 meters, and the regular broadcast range of 175 to 560 meters, and the regular broadcast range of 175 to 560 meters, and the regular broadcast range of 175 to 560 meters, and the regular broadcast range of 175 to 560 meters.

**EXCEPTIONAL TONE.** The latest type of 5-inch super-dynamic speaker is utilized for unsurpassed reproduction of the radio programs developed. The latest type of 5-inch super-dynamic speaker is utilized for unsurpassed reproduction of the radio programs developed. The latest type of 5-inch super-dynamic speaker is utilized for unsurpassed reproduction of the radio programs developed. The latest type of 5-inch super-dynamic speaker is utilized for unsurpassed reproduction of the radio programs developed. The latest type of 5-inch super-dynamic speaker is utilized for unsurpassed reproduction of the radio programs developed.


**NET EACH, $16.95.**

**LOT'S OF 1, EACH, $11.95.**

**MODEL WITH LID.** Illustrated at left. Same as above, but cabinet is larger and has lid (one size on all sets). Suggested price: $12.95.

**NET EACH, $18.95.**

**LOT'S OF 1, EACH, $14.95.**

**Knight 6 TUBE AC-DC PHONO-RADIO**

A fine piece of 1939 Phonograph Radio instrument of high quality. Brings you splendid reproduction of radio programs and phonograph records. The 6 tube (with hummer) superhet receiver used in this instrument takes two full bands, from 180 meters to 1900 meters, and offers an excellent aerial and antenna. It can also be employed in various types of radio-phonograph combinations. Features include latest type side-dial for easy tuning; fully A.C. for freedom from fading; and for tubes and volume, individual caps on each band and rubber-floated condenser for exceptional sensitivity and stability; 25 foot aerial connected to the same. The Knight 6 Phonograph is offered with R.C.A. tubes.

**HIGH GRADE PHONO.** The Knight 6 Phonograph incorporates a high-grade Phonograph which is the only one of its kind to offer such exceptional quality. It contains the latest type R.C.A. Phonograph, complete with R.C.A. tubes. The Knight 6 Phonograph is offered with R.C.A. tubes.

**NET EACH, $27.95.**

**NET PRICE, LOT'S OF 3 EACH, $26.45.**
What a Value! Brilliant Tone! New Beauty, and — AUTOMATIC TUNING!

R.C.A. AND HAZELTINE LICENSED

KNIGHT 6 TUBE AC-DC 2 BAND SUPERHET

We've picked this sensational model as 1939's greatest Radio Value! It's an amazing advancement—an entirely new 2-band 6-Tube AC-DC Superhet (with dial) at a price that amply defies all competition. It's the most versatile, the most powerful, the most tuned-to and best-looking receiver you will find anywhere this year at this startlingly low price.

**PUSH-BUTTON TUNING.** The best-working system yet developed. Offers you a choice of any one of your favorite stations. Just push a button—and there's your program, tuned in perfectly, precisely, easily. Each button is directly geared to the tuning condenser, adjustment is made in a few seconds, operation is instantaneous, and you always tune right on the head. Regular tuning is easy too, by means of the genuine .157 inch scale that is clearly and highly calibrated with colored scales on an attractive gold race.

**FULL 2 BAND RANGE.** The new Knight 6 tunes from 45 to 159 meters (1290 to 7000 K.C.) to bring in Short Wave Amatuer, aviation and police signals, as well as programs from the fascinating 40 meter foreign band. The second band covers 174 to 650 meters (355 to 1720 K.C.) and tunes the upper police channels and all American and Canadian broadcast stations. These two bands cover practically everything of importance.

**UNUSUAL VERSATILITY AND POWER.** Operating equally well from either 110 Volt 60-60 cycle current A.C. or D.C., the Knight Dual-Wave 6 will play practically anywhere. (May also be used on 220 volts A.C. or D.C. with adapter listed below.) Has built-in antenna for added convenience. This new 1939 performer has astounding reserve power for every requirement. Output is full 2 watts undistorted, achieved by the use of a highly efficient Superhet circuit. Volume is beautifully and automatically handled by the new 6-Tube dynamic speaker, and tone is rendered with amazing fullness and reality.

**BRILLIANT 1939 CIRCUIT.** The R.C.A. and Hazeltine licensed Superhet circuit of the new Knight 6 assures the finest and latest developments from these great laboratories. Latest R.C.A. tubes are used as follows: 6AG5 as 1st Det. Oct.; dual-purpose; 6K7 as I.F.; 607G as 2nd Det.; A.V.C. 1st Audio (triple-purpose); 251.6G as Beam Power output stage. Volume is beautifully and automatically handled by the new 6-Tube dynamic speaker, and tone is rendered with amazing fullness and reality.

**EXTRA-VALUE FEATURES.** The new Knight AC-DC 6 has full A.V.C. action to assure uniform volume and freedom from fading. Multi-purpose tubes give added tube power and efficiency. Individual coils for each band and rubber-plated tuning condenser assure better stability of operation. The 25 foot attached antenna permits instant convenient operation for the Knight AC-DC 6. It is triumphantly executed in solid walnut of the choicest graining. Soft lines are featured throughout with harmoniously curved center band. A unique and exclusive new feature is the shown push-button panel switch, designed for easy vision tuning.

The entire cabinet is hand-rubbed to a splendid two-tone finish. Measures 12" x 7" x 7½".

**KNIGHT AC-DC 6 COMPLETE.** The Knight Dual-Wave 6 Tube AC-DC Superhet is offered in the beautiful cabinet illustrated above, complete with R.C.A. and Hazeltine tubes. For operation from 110 volts, 60 cycles A.C. or D.C. Code: ROYAL. Shipping weight, 16 lbs.

**NET PRICE EACH, $13.85. YOUR PRICE, LOTS OF 3 EACH, E9145. 220 Volt Adapter for above set.**

**$12.95**

E10800. Retail Value, $25.00