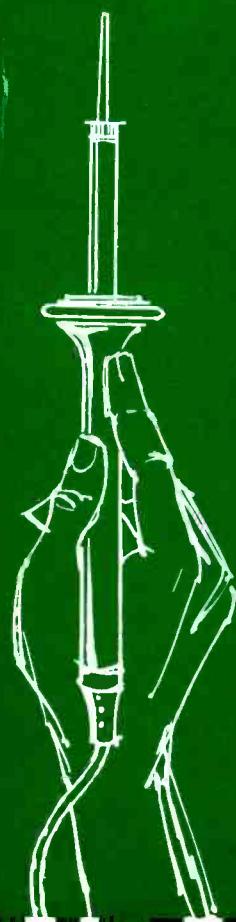


CONAR ELECTRONIC KITS

and assembled products



1966 EDITION

CONAR's New **SELECT-A-PLAN**

boosts your buying power

- Just \$5 a month on orders up to \$100
- Two full years to pay
- Add-on purchases any time with no down payment

"Select-A-Plan" That's Best For You

REGULAR PLAN—Convenience of low monthly payments. Economy of one low service charge. Up to 18 months to pay.

E-X-T-E-N-D-E-D PLAN—Lower monthly payments. Up to two full years to pay.

ALTERNATE PLAN—No Service Charge. Select the Regular or Extended Plan. Make your first payment within 30 days. If you pay the balance within 60 days, you save the entire service charge.

In this catalog, you'll discover a variety of new, exciting products, both from CONAR and from other quality brand names. If you'd like a translation of the name CONAR, it stems from **C**o**m**pany, **N**ati**o**n**a**l **R**adio. CONAR is a division of NRI; a pioneer of 50 years in Electronics.

This experience—plus CONAR's Guarantee (back cover)—stands solidly in back of every product in this catalog. You can order with confidence. CONAR guarantees you'll be satisfied.

GENERAL PRODUCTS

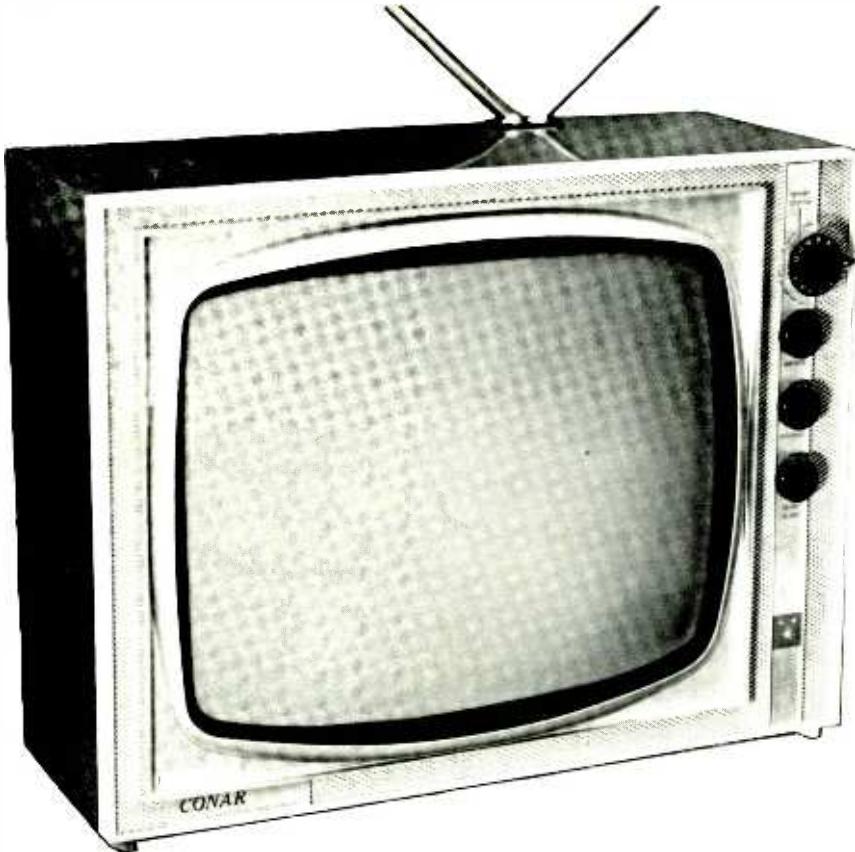
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S P E C I F I C A T I O N S

POWER SUPPLY: Transformer operated, 110-120 volts, 60 cycle AC

VIDEO I.F.: 3-stage pre-aligned, 2-stage video amplifier

SOUND I.F.: separate pre-aligned 2-stage 4.5 mc

TUBES: 1-6BQ5, 2-6BZ6, 1-6AS8, 1-6U8A, 1-6BN6, 1-6AQ5A, 1-6DQ6B, 1-6DE4, 1-6BU8, 1-6FD7, 1-6B10, 1-1K3, 1-6GK5, 1-6CG8, 1-19AUP4 picture tube, 114° deflection

BANDWIDTH: 3.75 mc

TUNER: Transistorized VHF channels 2-13 with Loc-Set fine tuning, plus UHF channels 14-83,

SPEAKER: Oval wide range type mounted in front of cabinet below controls; ample power to drive extra speakers if desired

ANTENNA: Built-in rabbit ears w/connector for outdoor type

FRONT CONTROLS: Push-Pull on-off/volume, Contrast, Brightness, Channel Selector, Fine Tuning, UHF Tuning

REAR CONTROLS: Vertical Hold, Height, Vertical Linearity, AGC Control, Buzz Control, Horizontal Frequency, Sync Stability

CABINET: Steel, baked-on finish, 7½" deep, 22" wide, 16½" high

OVERALL DIMENSIONS: 22" wide, 17" high, 13" deep including tube curvature

ACTUAL WEIGHT: 55 lbs.

SHIPPING WEIGHT: 60 lbs., shipped express collect for safe handling direct from our stock

\$15.00 down,

\$11.00 monthly

\$149.95

COMPLETE
Stock #8YUK

Here are some comments from Custom 70 owners:

"Being in part-time servicing for 10 years, I have seen a lot of TV screens. This Custom 70 has by far one of the best pictures I've seen on any screen."

J. A. W., Falls Church, Va.

"This is the fourth Custom 70 I have built, and I am glad to say there is no finer set for the money any place, including factory-wired sets."

F. R., Brooklyn, N.Y.

"I received the Custom 70 TV Kit and assembled it with ease. It took me about 14 hours and it performs wonderfully."

H. B., Lochgelly, W. Va.

CONAR-CUSTOM 70

complete television kit

All Channel VHF - UHF

One of the most rewarding, fascinating projects ever offered kit enthusiasts and *you* can build it! The Custom 70 is a precision-engineered, professional, table-model television set designed to give (and keep giving) a picture with superb detail, snapshot clarity and full-fidelity sound. High sensitivity, difficult to find in *any* set priced under \$200, pulls in distant and local channels with ease.

Kit includes every part — absolutely nothing else to buy. You get fresh, top-quality, heavy duty, U. S. made components. 15-tube circuit has multi-purpose types and Compactron to give equivalent of 21 tubes. Safe, transformer power supply completely isolates cabinet and chassis from power line.

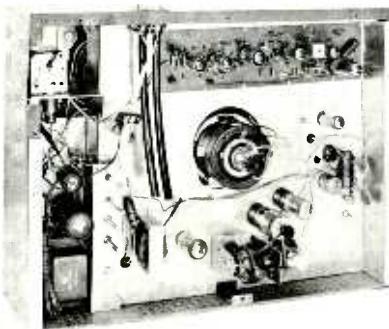
Picture tube is Sylvania's latest design. It's self-focusing, aluminized, with bonded face plate on front. No glass to collect dust and dirt on inside where you can't reach it. Viewing area 206 sq. in.; 18% larger than numerous other 19" picture tubes.

You don't need special tools or test instruments to build the Custom 70 with perfect results. Front-end tuner comes to you fully assembled, carefully pre-aligned. All coils pre-aligned at the factory and double-checked before shipment. Final adjustment of the completed set takes 15 minutes using local station program or test pattern. completed set takes 15 minutes using local station program or test pattern.

Vertical chassis design means better air circulation. Parts stay cool for long, trouble-free life. And — the Custom 70 is SAFE, test-proven in over 10,000 TV kit sales. Once the high voltage section is assembled, you seal it, forget it, before set is ever plugged in.

Special skills or technical ability are *not* needed to build this top-performing set. Instructions are written so *you* will understand them. Huge (17" x 22") picture diagrams guide you every step of the way. For those interested in studying good circuit design, the manual also includes comprehensive analysis of the Custom 70 plus schematic diagram. Another point — although your set will seldom need service in normal use, you'll know general design well enough to save those repair bills.

Women too, will appreciate the slim-line styling, finished to harmonize with any decor. Steel cabinet measures just 7½" deep with rich dark brown finish. Front trim is soft, non-glare gold to compliment the most discriminating tastes. (One problem — friends will probably doubt *you* actually built the Custom 70! If so, please let us know. We'd be proud to write and tell them.)



*CONAR Custom 70 without rear cover,
shield can and power cord*

PARTS YOU GET

- steel pre-finished cabinet
- all resistors and capacitors
- all receiving tubes
- Sylvania 19AUP4 picture tube
- solder and hook-up wire
- front mask and bezel
- pre-assembled, aligned tuner
- switches, controls, knobs
- speaker, built-in antenna
- transformers and coils
- all hardware, lugs, brackets, sockets, etc.
- manual with diagrams



S P E C I F I C A T I O N S

INDIVIDUAL PRICES FOR CONAR 300 COMPONENTS

2 full range cabinet speakers.	
Stock #300SK . . .	\$39.90
1 Conar 300 Amplifier Kit, Stock #300AM . .	31.50
1 Garrard Model 50 Turntable	44.50
1 Mahogany Base	3.95
1 Electro-Voice Model 126A Diamond-Sapphire Cartridge . .	10.00
If bought separately, here's what you would pay for the Stereo 300 System . .	<u>\$129.85</u>
Conar Price for Complete System . .	109.00
YOU SAVE	\$ 20.85

\$109.00

MODEL 300 STEREO AMPLIFIER

CONTROLS: Phone-Tuner switch, Balance, Loudness, Bass, Treble, on-off switch

TUBES: 2-7025, 2-6BQ5

CABINET: Steel, baked-on rich blue finish

PANEL: Steel, off-white finish
DIMENSIONS: 4½" x 13" x 9"

POWER SOURCE: 110-120 volts, 60 cycle AC

SHIPPING WEIGHT: 8 lbs.
(other specifications—see opposite page)

MODEL 300 SPEAKER ENCLOSURES

DIMENSIONS: 24" x 12" x 10"
SPEAKERS: 8" extended range (19-21,000 cps.)

GRILLE CLOTH: Gold texture

CONSTRUCTION: 3/4" wood (ready for finishing)

SHIPPING WEIGHT: 24 lbs. each

GARRARD MODEL 50 AUTOMATIC TURNTABLE

MOTOR: Heavy duty 4-pole shaded motor

SPEEDS: 16⅔, 33⅓, 45 and 78 rpm. Automatic intermix operation; records of different sizes may be stacked in any sequence

TONE ARM: Counter-weighted with finger-touch stylus pressure adjustment

DIMENSIONS: 14¼" x 12½" x 7½"

SHIPPING WEIGHT: 16 lbs.

STEREO CARTRIDGE

ELECTRO-VOICE MODEL 0126A:
0.7 mil diamond (Ip), 3 mil sapphire (78); tracking force 3-6 grams; response 20-20,000 cps; matched channel output for monaural records

TOTAL SHIPPING WEIGHT: 72 lbs., shipped via express for safest handling

COMPLETE — Nothing Else To Buy —
Stock #300UK. Assembled Stock #1300WT—\$119.50

Low as \$11.00 down, \$5.00 monthly.

CONAR

"300" stereo system

The shock of common sense in STEREO — you *must* hear it to believe it!

Conar proudly presents an outstanding, quality, yet amazingly economical stereo system — guaranteed to satisfy. And — the Conar Guarantee (see catalog rear cover) actually gives you the opportunity to make your own 30 day "listener's" test — an offer unmatched by any other kit manufacturer.

The "300" Stereo System is designed for those who consider their *ears* as the best judge of true stereo reproduction. It is not for people who insist on spending \$400 or more for stereo — or people who thrive on long lists of specifications, technically accurate or not.

Here is quality stereo to compliment your tastes for good listening and fit any budget. A precision engineered system with carefully matched components; yet ruggedly built as a home entertainment center for the entire family. With the "300" in your home, you can *afford* to let the wife, children or friends use it (at least on rare occasions).

Whether it's violin, piano solo or bass drum — Beethoven, Belafonte or Brubeck — the "300" urges and invites your comparison with stereo systems costing considerably more. We repeat, let your EARS judge the living sound, superb channel separation, the startling realism that only good component stereo can bring.

The "300" Stereo System includes:

- Conar power amplifier kit, beautifully styled inside and out. Build in one evening with time left for a trial run. Reserve output for "concert hall" volume in 30 x 30 area. Frequency response 50 cps to beyond audible limits. 50 db or better channel separation. Hum, noise and distortion *not distinguishable* at full output. (**Available separately — see page 15**)
- Two fully assembled bookshelf enclosures with pre-mounted 8" extended range speakers. Each is a full 24" x 12" x 10" and sturdily constructed of $\frac{3}{4}$ " wood ready for finishing to match any decor. (**Available separately — see page 15**)
- Electro-Voice Model 0126A diamond-sapphire cartridge.
- Famous Garrard quality in the Model 50 Turntable. Has new DuPont Delrin® "frictionless" trip mechanism head. Separate automatic and manual controls. Complete with line cord, 2 plug-in cables, plug-in shell and oiled walnut base.
- All hook-up wire, coaxial cable, plugs, jacks, etc.

The "300" Stereo System was recently demonstrated at meetings of hi-fi enthusiasts, dealers and service technicians (dates and places upon request). Audience response was *overwhelming*.

Your own 30-day "listener's" test will show you WHY — you *must* hear the "300" to believe it!

Conar customers tell you why the "300" is an outstanding value:

"For years, I heard friends and neighbors talk of \$250-400 for a *good* stereo system. Naturally I was skeptical about your low-cost "300"—but also curious. The same evening I got the "300," it was playing—and playing beautifully. It still is, for that matter, and the dollars I saved bought a lot of record albums."

Mr. G. H., Chevy Chase, Maryland

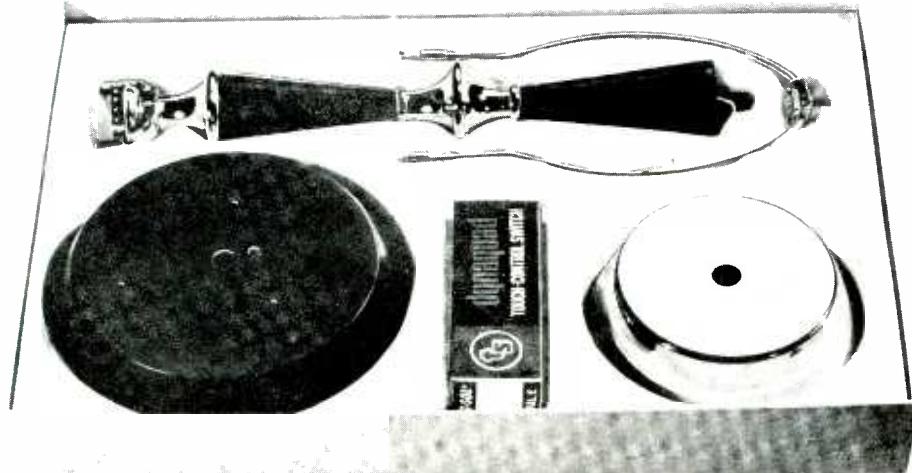
"My son (a music major at college) was home on the 300's trial run. His first remark was 'Fabulous, Dad!' My daughter's response was 'Wonderful!' My wife's remark was 'Out of this world.' My family and I thank you for making such an outstanding stereo system."

Mr. E. S., Lemoyne, Pa.

NEW!

Touch Control Lamp Kit

WITH THE AMAZING DYNQUAD® ELECTRONIC SWITCH



TOUCH — IT'S ON!



TOUCH — IT'S OFF!

LAMP RESPONDS TO A TOUCH OF THE FINGER. Fascinating, easy-to-assemble kit creates a beautifully styled lamp of polished walnut and brass finish.

This unique lamp has no visible switch. It operates on principles that may be used for switches in homes of the future.

Dynaquad electronic touch control switch is completely concealed within the lamp base. Touch the base—it lights! Touch the center flange—it goes out! No click—no snap—just silent, faultless response to a finger touch. Operates from any standard 110V AC outlet. It mystifies people until they discover how the Dynaquad switch works.

Kit contains all parts (except shade and bulb) and complete instructions for assembly.

Lamp Uses Dynaquad Touch Control Switch

This is a semiconductor module employing a Tung-Sol Dynaquad—a four-layer germanium device of the transistor family. Use of this component in an electronic circuit of advance design has created a highly reliable, low cost capacitance switch having wide application possibilities of a nature demonstrated by this lamp kit.

\$16.99

Stock #6UK, 4 lbs. parcel post
Insured

CONAR

AC-DC RADIO KIT



A top-performing AC-DC table model radio with excellent sensitivity and selectivity. Uses modern superheterodyne circuit. Clear-cut assembly instructions include more than 30 pages of practical experiments. Teaches you principles of basic radio circuits and fast troubleshooting techniques

on all types of AC-DC sets.

Has pre-tuned i-f transformers, high gain selective ferrite loop-stick antenna, quality 4" PM speaker, five-tube circuit and chassis safely isolated from power supply. All parts supplied—nothing else to buy.

SPECIFICATIONS

FREQUENCY COVERAGE: 550 kc
to 1650 kc

CONTROL FUNCTION: Volume/
On-off and tuning

I.F. FREQUENCY: 455 kc

TUBES: 50C5, 35W4, 12BE6,
12BD6, 12AT6

CABINET: Impact resistant beige
and white plastic

DIMENSIONS: 11½" x 5¾" x
5¾"

POWER SUPPLY: 110-120 volts,
60 cycle AC

SHIPPING WEIGHT: 5 lbs. 4 oz.

\$21.50

Stock #7YUK, shipped parcel post insured

CONAR

"BREADBOARD" TRANSISTOR KIT



No soldering required—ideal beginner's project. All connections are made using screws on a clearly marked template. Assembly instructions give a complete description of the circuit. Learn transistor fundamentals and have fun while doing it. Can be assembled in one hour using only pliers and screwdriver. The Model 293 has special reflex circuit to pull in many distant as well as local stations. Uses just two RCA transistors plus

crystal diode. Sound is amplified through professional type headphone (not earplug) included with kit at no extra cost. Ferrite bar antenna eliminates need for outside antenna generally required for reception in other low priced radio kits. Not a toy—a practical, educational project designed to give years of good listening. Kit includes all parts, headphone and 9-volt battery. Nothing else to buy.

SPECIFICATIONS

TRANSISTORS: 2N411, 2N412
and crystal diode

current drain; replacements
easily obtainable)

ANTENNA: Ferrite bar type

DIMENSIONS: 5¾" x 5" x 5¾"

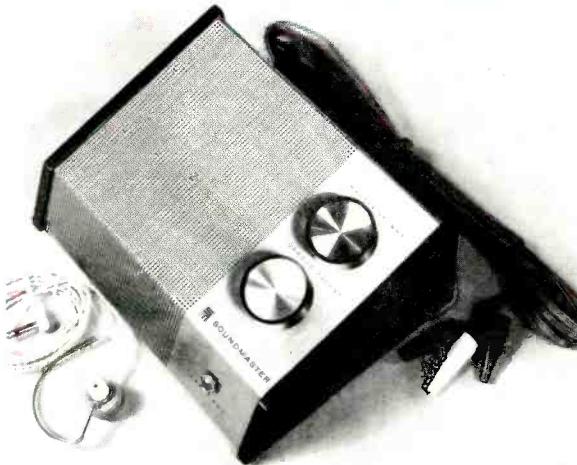
BATTERY: 9V Burgess 2U6 or
equiv. (less than 2½ ma)

SHIPPING WEIGHT: 2 lbs. 14 oz.

\$12.95 Stock #293UK,
shipped parcel post insured.

SOUNDMASTER

**May Be The Answer To
Your T.V. Listening Problems!**



Soundmaster is easy to install — No complicated wiring required — Complete instructions are furnished. Can be connected to any T.V. set, console or portable, in minutes.

Soundmaster is safe — No voltage connections — Installs in your television sound circuit only.

SOUNDMASTER SETS YOU FREE!

No more jumping up to turn down your T.V. set volume with SOUNDMASTER at your side. Just a flick of the dial lets you answer the telephone or doorbell or listen for the children at night.

**LETS YOU ENJOY T.V.
WITHOUT
DISTURBING OTHERS!**

Dad can sleep while you watch the late show. Your children can study without being tempted by T.V. sounds. Hard of hearing folks can have the volume they need without making it too loud for others. People confined to bed will enjoy their new found independence — no need to call for help to adjust T.V. sound with SOUNDMASTER. THESE and virtually hundreds more special listening problems can be solved with SOUNDMASTER . . . a "Must" in many homes and a delightful convenience for all.

SOUNDMASTER GIVES YOU:

1. **REMOTE CONTROL** No more jumping up to adjust television volume
2. **REMOTE SPEAKER** Responds to a wide range of bass and treble. Undistorted volume. Larger than 50% of the speakers used in today's T.V. sets!
3. **PRIVATE EARPHONE** Lets you listen without disturbing others!
4. **TWIN SPEAKER EFFECT** Popular new sound with both remote and T.V. speaker operating!

Stock #1012SK 3 lbs., Parcel Post Insured

CONAR PRICE — \$14.95



roll-around tv table

Designed by well-known U.S. firm for Conar's Custom 70 TV receivers and other "slimline" table model or portable sets. Reinforced tubular steel frame with gleaming brass finish. Has instant swivel deluxe casters with steel bearings. Large, clear lucite wheels roll easily over rugs, carpets or bare floor. Handy utility shelf for books or magazines. Overall height 24".

\$7.97 Stock #126TO, 8 lbs. parcel post



COLORAMA tv lamp- clock

a new concept in time-telling

Correct time at a glance with this modern tv-lamp-clock. Hours, minutes, and seconds on rotating dials keeps correct time constantly in view. Attractive walnut case with contrasting persimmon face. Independent soft light can be used as night or nursery light. Self-starting electric motor uses 110V. 4" high, 7" wide, 3 $\frac{1}{8}$ " deep. One year guarantee.

\$11.95 Stock #765TO, 3 lbs., Parcel Post Insured

CONAR

audio color

**Exciting NEW concept in music enjoyment
Translates any melody into
brilliant colors**

For music lovers and electronics enthusiasts alike, this transistorized marvel attaches quickly to hi-fi sets, stereos, tape recorders and even most radios. Simply connect two rubber insulated, alligator-clip leads to your speaker terminals, and you're ready to enjoy a color spectacular.

While you listen to your favorite melody, beautiful hues of red, orange, yellow, blue, green and violet move across the Audio Color screen in a breathtaking variety of patterns. A frosted screen eliminates glare without filtering the colors.

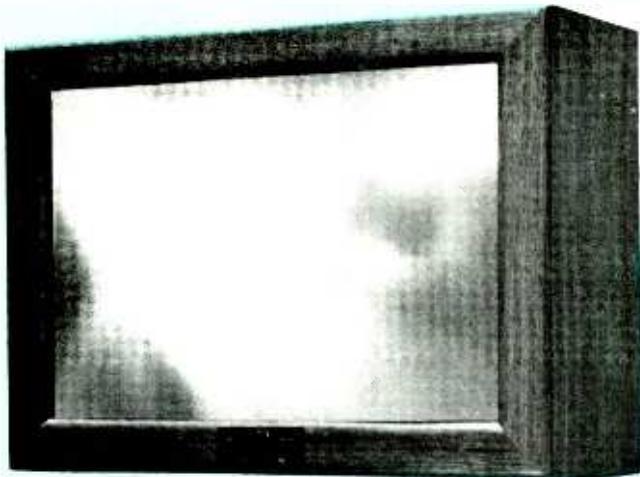
But Audio Color does more than paint the music. It also reproduces the tempo. With each *torrid* beat of the bongos . . . with each *clash* of the cymbals, the colors grow brighter. If the tempo mounts slowly, the colors brighten gradually. A *sharp rise* in volume is matched by a *sudden flash* of colors. bass on the right—treble on the left.

Audio Color is based on the idea that two senses are better than one. Now you not only hear the melody, but you also see it. And *you see it in brilliant, living color*. In much the same way the aroma makes a charcoal-broiled steak more savory, Audio Color makes music more enjoyable.

At "coat-and-tie" parties, or "come-as-you-are" get-togethers, your friends will be almost hypnotized by the dazzling, pulsating colors.

As a conversation piece, Audio Color, we admit, isn't always successful. Why? Because it usually leaves people speechless. In fact, if you want anyone to notice the striking prefinished walnut cabinet, be sure to turn off the colors.

Order the Audio Color in kit form and build it yourself in a few short hours. For those who can't wait to see it, we have a few already assembled.



S P E C I F I C A T I O N S

INPUT IMPEDANCE: 30 ohms (can be used on 16 ohm or lower amplifier output)

FREQUENCY RESPONSE: 30 to 20,000 cps.

OPTICAL CROSSOVER: 500 cps.

TRANSISTORS: 2 type T13027, 1 type 2N555

LAMPS: 2 type #89

INTERNAL HUM: Undiscernible

POWER REQUIREMENTS: 35W at 115V, 60 cps.

DIMENSIONS: 11 $\frac{1}{4}$ " x 15 $\frac{1}{4}$ " x 6"

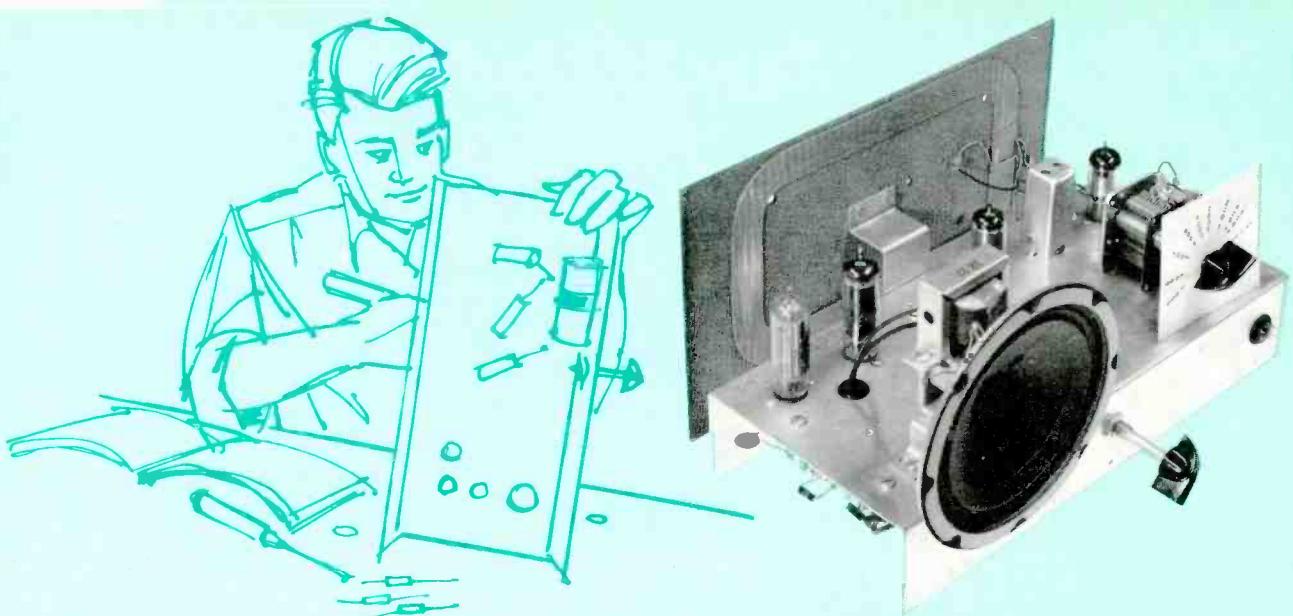
SHIPPING WEIGHT: 9 lbs.

\$44.95

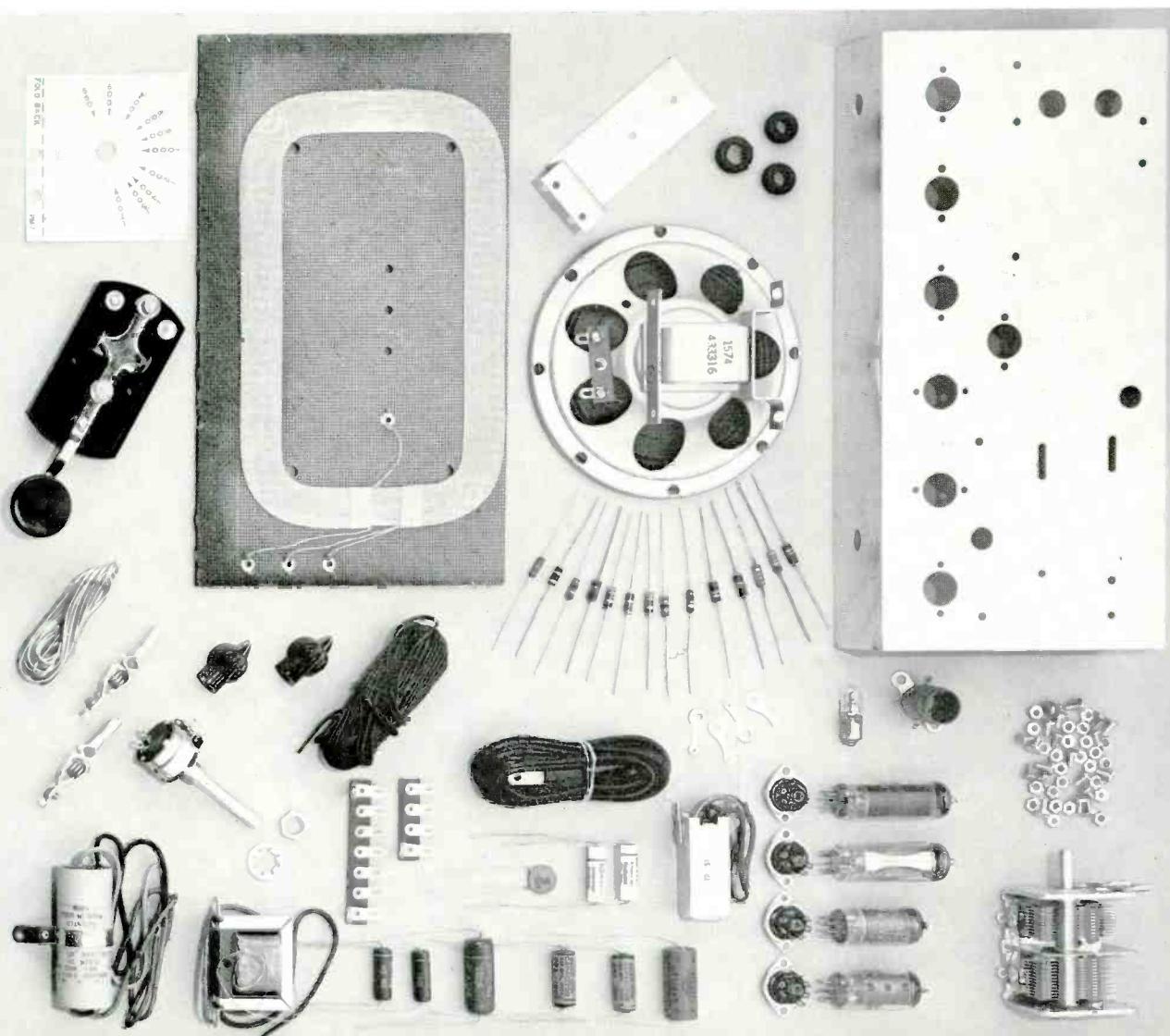
Kit Stock #103UK shipped express
\$4.50 down, \$5.00 monthly

\$54.95

Assembled Stock #103WT shipped express
\$5.50 down, \$5.00 monthly



CONAR adventures in electronics



Ten *fascinating* and *safe* educational projects. This Kit is used by teachers in many school classrooms to introduce students to Electronics — help them toward satisfying and profitable careers. Here's proof positive of its sound educational value and thorough training.

Kit contains over 100 top-quality parts — name brands you'll recognize. This is not the "plastic-cardboard-battery" type experimenter's kit usually found on store shelves. If purchased separately, the parts used in the Adventures In Electronics kit would run well over \$30.00.

You learn about Electronics and *have fun* doing it. Each project graphically demonstrates a number of electronics principles. You're shown "why" and "how" these principles work. You need *no* previous electronic training or experience. Just follow the simple, concise instructions and large diagrams in the 48-page project manual. The manual includes a glossary of common electronics terms for quick and easy reference.

The projects cover a seemingly endless variety of activities. You build a Radio Receiver which performs exactly like a manufactured set — picks up local broadcasts and distant stations.

You learn about Testing Radio Sets. In this project, you build a signal tracer and use it to find the exact point in a circuit where the signal stops. The signal tracer is a test instrument used by professional electronics technicians.

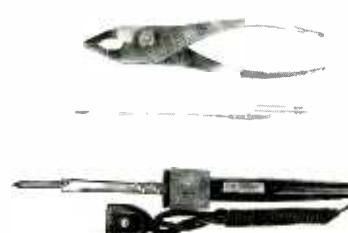
Then you become a Radio Announcer. You set up a broadcast station, and with the speaker as your "mike," transmit your voice through your radio or a neighbor's set.

Now you're ready to move on to another project. Here you assemble a "Secret Listener." The speaker becomes a concealed microphone. Put it in one room and hear any conversations through a receiver without being present. Use it as an electronic "baby sitter." Mother can place the "Listener" near baby's crib and hear cries while she's in another room.

You'll experiment with sound. In one project you build an Audio Oscillator and produce a wide range of sounds. Another experiment teaches how sound is magnified. After putting together an Audio Amplifier, you amplify sounds from a phonograph pick-up.

Finally, you're ready to create music electronically. You build a Theremin, an electronic musical instrument often used to provide "spooky" background music for movies. Create weird musical sounds merely by waving your hand near the Theremin. It serves as a warning system too. When anyone comes near the Theremin, it "sounds the alarm" by emitting an audible squeal.

Truly a practical investment, the Adventures in Electronics Kit both *educates* and *entertains* for countless hours. It's the perfect gift for scientists and engineers of tomorrow — and for their Dads, too.



Soldering Iron, Pliers and Screwdriver
Included FREE!

\$18.95

Stock # 26UKSIP. Weight: 4 lbs. 8 oz., parcel post.

CONAR model 291



transistor receiver kit (or assembled)

Outstanding performance, distinctive styling — priced below other portables similar in quality. Compact, sturdy, and with no delicate printed circuits, the Model 291 is built to take it.

Completely free of the "tinny" and "brassy" noise you find in many other portables. A 4-inch speaker delivers smooth tone quality you normally expect only from larger, more expensive portable radios. You get "big portable" volume control and sensitivity, too. Tune in local stations crisp and clear. Pull in distant stations sharply and with plenty of volume. (From Washington, D.C., we've picked up broadcasts from stations in New York and New Orleans.)

The Model 291 uses matched, pre-aligned i-f transformers; high Q loop matched oscillator coil, 6 high quality RCA transistors with plug-in sockets. Circuitry includes a mixer oscillator, two i-f stages, a germanium diode as the second detector, a driver stage plus two transistors in push-pull class B operation for output

stage. Low current consumption (only 8 millionths of 1 amp at low volume levels) insures longer life of the 4 ordinary penlight cells (6 volts).

You'll marvel at how easy you assemble the Model 291. Clear, straightforward instructions show you (step-by-step), exactly what to do. Build it in one evening, with just a soldering iron, long-nose pliers and side-cutting pliers.

Housed in a good-looking, brown, polished-leather type case that doesn't bend, crack or melt as plastic cases often do. Over-all dimensions are 5 $\frac{5}{8}$ " high, 8 $\frac{1}{2}$ " wide and 2 $\frac{1}{4}$ " deep. The weight, case included, is just 2 lbs. Sturdy carrying handle fits your hand comfortably.

You and the Model 291 will become constant companions—whatever the occasion. At the beach, on a picnic or fishing trip, by your easy chair or under your hammock, it will give you top-notch performance. Indoors or out, this portable radio and pleasant times go together.

SPECIFICATIONS

BATTERIES: Four standard penlight cells

CASE: Brown, leather finish texture

CONTROLS: On-off/volume; tuning

CHASSIS: Pre-punched aluminum

TRANSISTORS: Six quality RCA transistors:

Three 2N407 transistors

Two 2N409 transistors

One 2N411 transistor

DIODE: 1N60 germanium type

TUNING RANGE: 550 kc-1500 kc

ANTENNA: Ferrite rod, loopstick antenna

SHIPPING WEIGHT: 4 lbs. 13 oz.; parcel post

\$18.75 Kit

Stock #291UK

\$24.95 Assembled — Stock #291WT

the finest in Hi-Fi FM reception



TITAN

all transistor

FM AUTO RADIO TUNER

\$41.97

Stock #104EN
Shipping Weight 4½ lbs.

Hi-Fi FM reception is now available for most makes of cars . . . smart and compact in design, this FM converter operates with present auto radio and antenna. Mounts easily under dash . . . and just plug into present radio antenna jack for the finest in FM listening.

- 8 Transistors and 5 Diodes for extreme sensitivity to operate in most signal areas.
- 3 Gang Tuner for unchallenged selectivity.
- Full automatic gain control to eliminate overload in exceptionally strong signal areas.
- Advanced designed automatic frequency control that prevents frequency drift with full range of automobile battery voltage variations.
- 10 minute, easy installation in all autos, trucks,

or boats with 12 volt negative ground polarity systems.

- Requires no special antenna under average reception conditions.
- Output jack for multiplex reception.
- 13 tuned circuits for unsurpassed performance.
- Covers stand 88 to 108 Megacycle FM Band.
- Overall size 6½" x 4¾".
- Shipping weight 5 lbs. parcel post ins.



\$29.95

Stock #707EN

All Transistor Karadio



- All Hand Wired . . . No Printed Circuits
 - Variable Tone Control . . . Higher Priced Set Feature
 - 7 Tuned Circuits . . . Including High Gain R.F. Stage
 - 7 Solid-State Semi Conductors . . . 5 Transistors 2 Diodes
 - 3 Section "Magna-Wave" Tuner . . . Not 2 Section Tuner
 - Instant Play . . . No Warmup Needed
 - Built-in Powerful Speaker . . . 5" x 3" Elliptical Speaker
- Additional Specifications
- Neutral Gray-Tan baked enamel finish
 - Fits-all design for practically all American-import cars and trucks
 - External speaker jack
 - 12 Volt negative ground only
 - Low battery drain
 - Fits under dash or in dash

Shipping Weight: 4½ lbs.
Parcel Post Insured

Stereo-Sonic REVERBERATION

puts your car in the concert hall



- Fits all auto radios, am and fm, 12 volts
- Attractive case blends with all auto interiors
- Quickly and easily installed

Now you can thrill to "concert-hall" brillance and realism, the richness of voices, highs and lows never before heard on an auto radio. Stereo-Sonic REVERBERATION gives full-dimensioned sound, surrounds you with music, gives you a "front row center" seat all the time.

Complete Reverberation system includes:

- 6x9 Alnico V Speaker
- 6x9 Speaker Grille
- Dash Mount Fader Control and Switch Assembly, Shipping Weight: 6 lbs.

Stock # 6EN

Shipped Parcel Post Insured

List Price \$44.95, Conar Price

\$29.50

Garrard Model 50 Turntable



Model 50
only \$44.50
Stock # RP49

Model 50
with cartridge
\$44.51—Stock # RP50

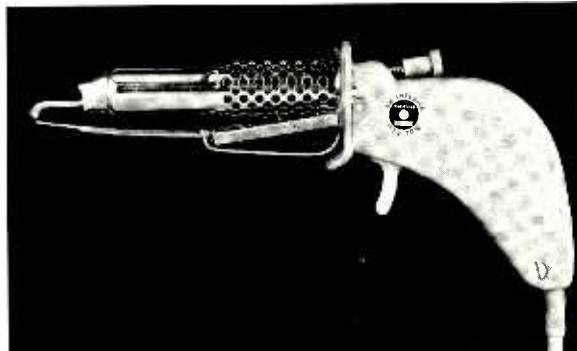
with Electro-Voice
Model 0126A Diamond-
Sapphire cartridge for
1¢ more.

Famous Garrard quality made even better. Oversized turntable, new counter-weighted cast aluminum tone arm, finger-touch stylus pressure adjustment. New Dupont Delrin® "Frictionless" trip mechanism. Automatic intermix operation, i.e. records of different sizes may be stacked in any sequence. Four accurate speeds of 16½, 33½, 45 an 78 rpm. Safety catch locks arm in rest position. Separate automatic and manual controls, attractive styling. Size: 14½L x 12½D. Requires 4¾" above and 2¾" below motor board. Stereo wired Amplock plug for fast easy installation. Spring shock mounts protect unit from external vibrations. Complete with line cord, 2 plug-in cables and plug-in shell. Less base and 45 rpm spindle. Shipping wt. 11 lbs. Shipped express collect.

Oiled Walnut Base
for Model 50—\$3.95
Stock # RP51—4 lbs. P.P. INS.

BLIXT

—
**the one-hand operated
automatic soldering gun**



Shipping Weight 2½ lbs—Stock # 1141AC Parcel Post Insured

CONAR Price— \$11.95

A technical hit! For both hobby and professional use. With the one-hand operated BLIXT—soldering can be done quickly and accurately in long series without breaks and risk of cold solder joints.

Solder is fed automatically and simply by squeezing the trigger of the comfort shaped handle. Tips can be changed easily according to the character of the work.

Made of impact-resistant nylon-plastic and mirror-finished metal, the BLIXT will give long service.

WELLER



**A Precision Tool
For Precision Soldering**

**Temperature Controlled
“Low Voltage”
Soldering Pencil**

Weighs only 2½ ounces, cord included, yet does the work of irons weighing a pound or more. Has tremendous capacity, rapid recovery, and long life. Gives more reliable soldered connections and less fatigue.

Improves quality of soldered connection—prevents damage to heat-sensitive components. Working end of tip is plated with low porosity iron, tip body is aluminum alloy plated. 24 volt operation has high efficiency of heat transfer. Silicon rubber covered cord doesn't break or burn.

Temperature and power input controlled by thermistor and SCR switching circuit. Dial any temperature between 200 F and 450 F. Complete with soldering pencil and power unit.

**Shipping weight: 1 lb. Stock # 5AC
Parcel Post Insured**

CONAR price— \$19.50

Reduced Prices On Two Speaker Values

Sonocaster Portable Outdoor Hi Fidelity Speaker



NEW from Electro-Voice . . . the perfect outdoor speaker. It's rugged, compact and weighs just 8 lbs. Best of all, Sonocaster's crack-proof, molded housing weatherproofs all the components, including the cone. You can mount it outside permanently—without damage!

Large ceramic magnet assembly and double-wound coil provide wide-range frequency response and high efficiency. Can be driven by low-power amplifiers, phonos—even tiny transistor radios. It delivers big volume, excellent tone quality and covers a wide area with full 120° horizontal dispersion. Speaker cone is actually two cones in one: An 8" cone for superior bass; a 2½" cone for critical high frequencies.

SPECIFICATIONS

Response: 70-13,000 cps.

Capacity: 30-watt peak.

Crossover: 6,000 cps.

Impedance: 8 ohms.

Color: Dune beige.

Size: 16¾" H x 17" W x 5⅞" D.

Shipping Weight: 9 lbs., parcel post ins.

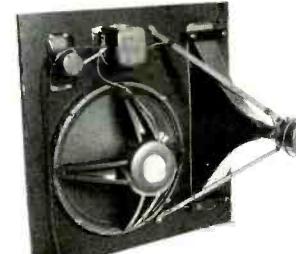
WAS \$28.80

Stock #53SK

NOW \$24.50

Electro-Voice

Three-Way Speaker System



originally
priced
at \$85.00

\$58.80

Stock #857SP

Three separate speakers for bass, mid-range and high frequencies. Mounted on sturdy ¾" baffle board. Easy to install in wall, closet door or cabinet. 15" bass speaker gives high

efficiency — low distortion. Compression driver plus wide angle horn distributes mid-ranges to every corner of room. Diffraction horn gives brilliant highs. Mid and high range volume controls for balancing. Measures 24" x 24" x 12¼" deep.

SPECIFICATIONS: Flux Density: (woofer: 10,500 gauss; mid range: 8,300 gauss; tweeter: 9,000 gauss). Response: 35 to 18,000 cps. Electrical Crossovers: 600 and 3500 cps. Impedance: 8 ohms. Shipping Weight: 27 lbs., express only.

CONAR "300" speaker enclosure



Low resonance, high-efficiency speaker system. Includes pre-mounted 8" extended range speaker with flex-edge cone for superb bass response and whizzer cone for brilliant treble. Measures 24" x 12" x 10". Sturdily built of non-resonant ¾" acoustic wood.

SPECIFICATIONS

\$19.95 each

Stock #300SK

Shipped express

SPEAKERS: 8" extended range (19-21,000 cps)

GRILLE CLOTH: Acoustical, gold-textured

WEIGHT: 22 lbs. 5 oz.

CONAR "300" stereo amplifier kit



Can be assembled in a few short hours—thanks to beautifully simple circuit design. Handsome steel cabinet has baked-on blue enamel finish, with soft neutral finish for the control panel. Plenty of reserve output to give you concert hall volume in an area 30 x 30.

\$31.50 Kit

Stock #300AM

\$41.50 Wired

Stock #300WT

WEIGHT: 11 lbs

Parcel Post Insured.

SPECIFICATIONS

CONTROLS: Phono-Turner switch, Balance, Volume, Bass, Treble, On-Off switch

TUBES: 2-7025, 2-6BQ5

DIMENSIONS: 4½" x 13" x 9"

FREQUENCY RESPONSE: 50 cps to beyond audible limits

CHANNEL SEPARATION: 50 db or better

no license required to operate this equipment—and at a 2-for-1 price too!

Manufactured by Hallicrafters, the CB-11 is a compact unit, of sturdy construction, designed to meet the need of modern business and personal communications in the 27 MC Class D Service, where small size and low weight are important. This precision engineered, hand-held walkie-talkie instrument can be used for communications between field, mobile or base stations. Crystals are plug-in—no soldering for changing channels.

S P E C I F I C A T I O N S

9 transistors, 1 diode,
thermistor

POWER INPUT: 100 MW

TYPE OF CRYSTALS: HC-25U
holders

RECEIVER SENSITIVITY: 1
microvolt

SPEAKER OUTPUT: 125MW

ANTENNA LENGTH: 39"
extended

BATTERY: Regular 9v

DIMENSIONS: 2 $\frac{3}{4}$ " x 1 $\frac{1}{2}$ " x
6 $\frac{3}{4}$ "

WEIGHT: 10 oz., without
battery
Shipping Wt.: 2 lbs. 8 oz.

Parcel Post Insured

\$79.95 Stock #11EN

per pair



Keep your car clean the Modern Way with **AUTO-VAC**

HANDY
POWERFUL
VERSATILE

Now, keep your car clean the easy, modern way with the all-new Auto-Vac. Cleans automobile upholstery, carpeting, ash tray, mouldings, etc.

Plugs into 12 volt cigarette lighter. Includes upholstery nozzle, flexible hose, extension tube, crevice tool, air filter and throw-away bag. Completely portable. **One year replacement guarantee.**



Was \$16.95

Stock #5TO

Now \$15.00

Shipping Weight: 6 lbs. Parcel Post Insured

FINE PRECISION BINOCULARS

at unbelievable low prices!

It took quantity buying to bring the price down on these amazing name brand binoculars. Here are three outstanding buys for sportsmen, sightseers, birdwatchers, boat enthusiasts — anyone. You'd expect to pay much, much more for the many features found in these binoculars like center focus, individual right eye focus, quality coated optics — and as a bonus — pigskin covered, plushlined carrying case with straps. All binoculars carry Conar's unconditional 30 day money-back agreement. You'll be more than pleased with these three great buys!



7X50 HEAVY DUTY MARINE & NIGHT VIEWING

Huge 50mm coated lenses! Bright images in dusk, dawn or moonlight!

This big, rugged instrument is built to take it. 7X50 is known as the basic naval binocular ideally suited for poor light and weather conditions as well as sunshine. Has wide 375 ft. field of view at 1,000 yards. And there's a heft to these heavy-duty binoculars that men of action go for. Has two separate focus adjustments. Shipped complete with lined, pigskin carrying case and straps. Shipping weight 4 lbs. 8 oz.

List price \$39.95

**Conar price
ONLY \$29.90** Stock #750EN
parcel post insured

7X35 LIGHT WEIGHT SPORTS & HUNTING

**Famous Zeiss styling!
Handy center focusing!
Right eye adjustment!**

Most popular size and weight binocular for top performance at all times. Magnifies 7 times with 350 ft. field of view at 1,000 yards. Use these to follow a touchdown run or catch the split second plays at any sporting event. Brings people, places and things into dramatic focus any time, any place. Two separate focus adjustments give quick, razor-sharp views — even for those who wear eyeglasses. Shipping weight 4 lbs. 14 oz.

List price \$34.95

**Conar price
ONLY \$25.90** Stock #735EN
parcel post insured

8X30 HIGH POWER SPORTS & HUNTING

**Real distance-shrinking power!
Perfect for long range viewing!**

Our most powerful binocular. Has same features of those described above, but brings subjects eight times closer. Field of view of 380 ft. at 1,000 yards. A popular binocular among deer hunters, racing enthusiasts and bird watchers. With these Zeiss type glasses, you get carrying case, plush lined to protect these precision glasses. Shipping weight 3 lbs.

List price \$32.95

**Conar price
ONLY \$27.90** Stock #830EN
parcel post insured

CONAR recommended cameras from MINOLTA

MINOLTA SR-7 35mm Single Lens Reflex



Features built-in highly sensitive CdS light meter coupled to shutter speed control to show correct aperture for any pre-set shutter speed. Lens is achromatic coated; diaphragm closes automatically to pre-set aperture when shutter is released, reopens to maximum aperture. Microprism finder makes reflex viewing and focusing remarkably easy and precise — the image actually "snaps" into focus. Oversize instant return mirror; mirror lock-up for use with 21mm lens; single stroke film advance; auto re-set exposure counter; self-timer; depth-of-field preview. Shutter speeds 1 sec. to 1/1000th plus B; FP & X, flash synchronized. Wt. 3 lbs. p.p. ins.

Stock #A7PY with F/1.4 58MM Auto-Rokkor Lens
\$229.50 w/case

Stock #B7PY with F/1.8 55MM Auto-Rokkor Lens
\$189.50 w/case

MINOLTA HI-MATIC 7

World's most versatile 35mm rangefinder camera



Use it automatically, semi-automatically or manually. When set for automatic operation, the Minolta Hi-matic 7 practically thinks for itself—automatically sets the best combination of lens opening and shutter speed for perfect exposures. The sensitive electric eye is actually in the lens for unparalleled accuracy. Manual and semi-automatic operations permit fascinating special effects. Many more features make the Minolta Hi-matic 7 a camera you'll enjoy. Wt. 3 lbs. p.p. ins.

Stock #H7PY \$89.50

MINOLTA SR-1 35mm with 6-element lens



Leading single-lens-reflex with 6-element, f/1.8 Auto Rokkor lens, speeds from 1 to 1/500 sec. and B, automatic reopen diaphragm, instant return mirror, depth-of-field preview, X and FP flash synchronization, rapid lever advance, lens interchangeability. Wt. 3 lbs. p.p. ins.

Stock #1001PY \$142.50

MINOLTINA AL-S

World's smallest 35mm Rangefinder Camera

Has everything you expect in a top-quality 35mm rangefinder camera — except the bulk and weight. Despite its pocket-size compactness and scant 18½ ounces, the Minoltina AL-S takes big, bright, beautiful full-frame 35mm slides (prints too, of course). Features include a built-in electric eye, match-needle exposure control, Rokkor 6-element 40mm f/1.8 lens, coupled bright frame rangefinder, focusing from 2.6 feet, flash synch, speeds to 1/500th sec. plus "B" . . . and lots, lots more.



Stock #2PY **\$74.50**

Wt. 2 lbs. 6 oz. p.p. ins.

MINOLTINA P—This is the camera that started the trend . . . and it's still the world's smallest full-frame "35"

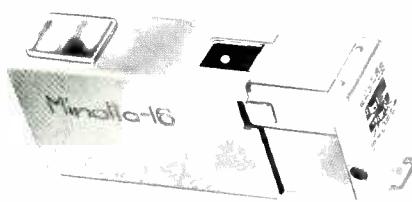
What looks like the latest sports car model but still delivers big car performance? It's the Minoltina-P, now the leader in the get-the-most-out-of-a-small-package race. Consider these features in this 17 ounce camera. LENS: 38mmf/2.8 Rokkor with stops to f/22, focusing to 2½ ft. SHUTTER: Citizen-L between lens with speeds from 1/30 to 1/250 sec. plus B, X sync, self-timer. VIEWING: Frame-line finder with parallax compensation marks. Other features make this the outstanding miniature 35mm on the market.

Stock #3PY **\$52.50**

Wt. 2 lbs. p.p. ins.



pocket-size, precision-made MINOLTA miniature cameras



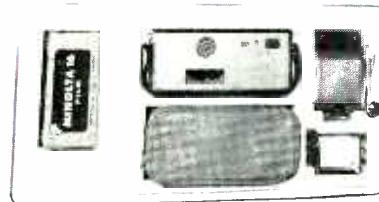
16-11 camera and case

A beautifully-engineered miniature camera that's as easy to use as it is to carry. Fast, push-pull cocking action automatically advances the film, sets the shutter, counts exposure and prevents double exposure. Features Rokkor lens with f/2.8 to f/16 openings. Six shutter speeds from 1/30 to 1/500 second, plus B for flash. Takes black and white or color slides that fit any 35mm projector.

Stock #1611PY **\$29.50**

Parcel post ins.

Wt. 1 lb.



16-P gift package

Camera features "weather mark scale" to guide you to perfect exposures. Scale has four symbols to represent general lighting conditions—bright sun, hazy sun, cloudy bright and cloudy dull. You simply set the weather mark indicator to the correct symbol and you're ready. Focusing is fixed. With the extreme depth of field of the Rokkor 25mm f/3.5 lens, everything from 6 feet to infinity is in sharp focus. Gift package includes carrying case, baby flash and flash adapter, plus roll of film (20 exposures).

\$28.50

Stock #16PY
Parcel post ins.

Wt. 1 lb.

CONAR

vacuum tube voltmeter

KIT OR ASSEMBLED

New, completely restyled version of the famous Model W VTVM that won 25,000 satisfied customers. Uses only two leads for all tests—no switching leads or changing jacks.

Huge, full-view 6" meter gives accurate readings at a glance. Two-color meter has unique flat arc scale giving you far greater readability—no need to "tilt" head to interpret numbers. Features slimline styling—just 3 $\frac{3}{4}$ " deep from front to back. Heart of the Model 211 is its sensitive bridge-type circuit with 12.2 megohm resistance. Shunting capacity is just 52 mmfd. which permits AC measurements over a wide range of frequencies and well into the RF region.

Calibration is simple—stable. Meter needle stays *where you put it*—no need for constant recalibration when switching from one range to another. Measures AC, DC, ohms, and AC volts peak-to-peak on 24 separate ranges. Meter protected against accidental overloads. Damping factor prevents damage due to transportation or overloads. 1% precision resistors for accuracy and dependability.

S P E C I F I C A T I O N S

DC VOLTS RANGES: 0-3, 12, 30, 120, 300, 1200 volts

OHMS RANGES: RX1, 10, 1K, 10K, 100K, 1M

RMS AC RANGES: 0-3, 12, 30, 120, 300, 1200 volts

PEAK-TO-PEAK AC RANGES: 0-3, 12, 30, 120, 300, 3200 volts

METER: 6", 1 ma. jeweled D'Arsonval type

POWER SUPPLY: Transformer-rectifier

INPUT RESISTANCE: 12.2 megohm

TUBES: 6X4, 12BH7

BATTERY: 1.5 volt size "D" flashlight cell (included)

ACCURACY: \pm 3% AC and DC at full scale

FREQUENCY RESPONSE: down $\frac{1}{2}$ db at 50 cps, 1 db at 20 cps, flat to 6 mc

CABINET: Steel with baked-on rich blue finish, chrome handle

PANEL: Aluminum with glare proof satin finish, red lettering

DIMENSIONS: 6 $\frac{1}{2}$ " wide, 7 $\frac{3}{4}$ " high, 3 $\frac{3}{4}$ " deep

POWER REQUIREMENTS: 110-120 volts, 60 cycle AC

ACTUAL WEIGHT: 5 lbs.

SHIPPING WEIGHT: 6 lbs., shipped parcel post insured

\$29.95

Kit Stock #211UK
Assembled Stock #211WT—\$42.95

Low as \$3.00 down, \$5.00 monthly



OPTIONAL HIGH VOLTAGE TV PROBE—extends DC range to 30,000 volts. Safe—easy to use.
Stock #13PB. Weight 1 lb. Price — \$5.50

CONAR model 221

cathode conductance tube tester kit

Completely new, modestly-priced Tube Tester Kit, designed by men with *unequalled* experience in training technicians — understanding their equipment needs and servicing problems. No unnecessary frills added to the Model 221's specs. Only those features most essential to a technician's work are built in.

Every technician — full or part time — needs the Model 221 for his bench. Helps you make better job estimates and pays for itself quickly in extra profits. Perfect for experimenters and hobbyists, too.

Tests all series string and up to date tubes as well as the standard base types — 4, 5, 6, 7-pin large, octal, loctal, 7, 9 and 10-pin miniatures, 5 and 7-pin nuvistor, novar and compactron. Checks 17 individual filament voltages from .75 to 110 volts. Tests multi-section tubes, gas rectifiers and remote control gaseous types. Has open-close "eye" test for cathode ray indicator tubes, and visible filament continuity check to show up open filaments regardless of pin position.

12-Lever element selector-distribution system enables you to select the individual elements of the tube you're checking and simplifies cathode leakage tests and inter-element short tests. Most important, this feature provides you with flexibility AND gives you insurance against obsolescence as new tubes reach the market.

Designed around the approved Electronic Industry Association's Emission Circuit, the Model 221 uses a precise, accurate, double-jeweled meter movement. It's balanced and factory calibrated within 2% accuracy. Large, easy to read — with clear plastic case and two 2-color scales.

Test sequence set-up to reveal quickly open filaments and shorts. This time-saving feature rejects an "open" or "shorted" tube and lets you proceed with more detailed checks right away. For maximum safety to you and the instrument, the test circuit transformer is isolated from the power line. Triple-window, high-speed, gear-operated roll chart is illuminated, easy to read, even in darkened areas. Lists over 2,000 tube types.

Durable, black, leather-fabric case makes the Model 221 attractive as well as functional. Hinged lid is removable. When the lid is on, a snap lock holds it securely. Etched lettering on the satin-finish, aluminum panel won't rub off.

Lever switches and other controls conveniently grouped to eliminate wasted motion. This minor, but thoughtful feature is typical of the care put into the Model 221.

The instruction manual for the Model 221 is written with the same high standard that went into the circuit design — with **HUGE** picture diagrams to guide you every step of the way.

Building the Model 221 is easy. Using it is even easier. The operating simplicity makes it a pleasure to use. Just 12 lbs. — it's a pleasure to tote along on service calls, too.

CONAR KEEPS YOUR MODEL 221 UP TO DATE: New, revised Model 221 roll charts are made available a minimum of once each year to keep owners up-to-date with test data on recently introduced tube types. As a Model 221 owner, you will be notified automatically when a new chart comes off the press. Each chart includes special supplement listing test settings for foreign tubes and special purpose types.

ADAPTERS FOR TESTING TV PICTURE TUBES: 70°-90° Adapter — Lets you test TV picture tube in a receiver or in factory carton. Test includes cathode emission check and check for shorts between various tube elements. Price \$4.98. 110° Adapter — For testing the latest 110° picture tubes. (Note: You must have 70°-90° Adapter in order to use 110° Adapter.) Price \$4.77

(ALSO AVAILABLE WIRED)



S P E C I F I C A T I O N S

CASE: Black, leather-fabric; removable, hinged lid with safety catch

PANEL: Satin-finish, aluminum

PANEL LETTERING: Red, etched —won't rub off

METER: Double-jeweled D'Arsonval type; accurately balanced and factory calibrated to within 2% accuracy

ROLL CHART MECHANISM: Triple-window, high speed, gear-operated; illuminated

SAFETY FEATURE: Test circuits transformer isolated from power line affords utmost safety to operator and instrument

POWER REQUIREMENTS: 50-60 cycle, 110-120 Volt, AC only

WARRANTY: Standard EIA warranty on all parts

DIMENSIONS: Width 15 $\frac{1}{4}$ "; length 10 $\frac{1}{2}$ "; depth 4 $\frac{3}{4}$ "

ACTUAL WEIGHT: 12 lbs.

SHIPPING WEIGHT: 15 lbs. parcel post insured

TEST FEATURES:

ACCOMMODATE ALL SERIES STRING AND OTHER UP-TO-DATE TUBE TYPES: 17 individual filament voltages from .75 to 110 volts. Tests all standard base types: 4, 5, 6 and 7-pin large, octal, octal 7, 9 and 10 pin miniatures, 5 and 7-pin nuvistors, novars, and Compactrons, etc. OPEN ELEMENT TESTS: This special test supplements the primary Emission Test. 12-LEVER ELEMENT SELECTOR/DISTRIBUTING SYSTEM: Important feature provides complete flexibility and anti-obsolete due to changing and new tube basing terminations. INDEPENDENT FILAMENT TERMINAL

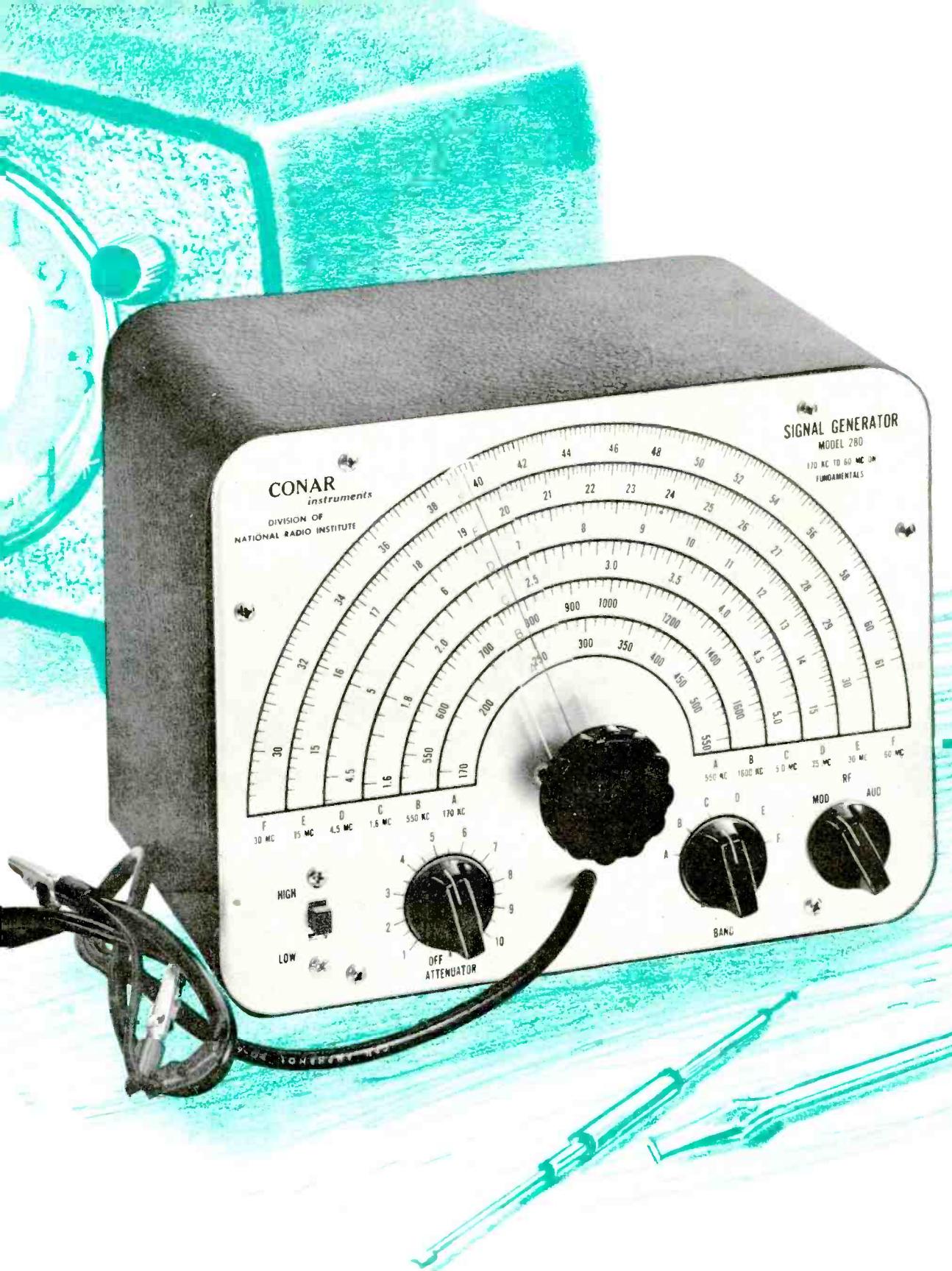
SELECTION: Locates terminals of all filaments regardless of pin positions. VISIBLE FILAMENT CONTINUITY TESTS: Quickly shows up open filaments including open sections of tapped filaments. TESTS SPECIAL TUBES: Tests special purpose tubes and gas rectifiers as 0Y4, 0Z3, 0Z4 and remote control gaseous types, such as 0A4. TESTS MULTI-SECTION TUBES: Individual test for each section of multi-section tubes. OPEN-CLOSE "EYE" TEST FOR CATHODE RAY INDICATOR TUBES. HOT CATHODE LEAKAGE TESTS: Reliable, sensitive neon method quickly shows up cathode leakage. INTER-ELEMENT SHORT TESTS: Made simple by CONAR 12-lever element selector system. METER: Large, easy-to-read with clear plastic case. Accurately balanced and factory calibrated to within 2% accuracy. Double-jeweled D'Arsonval type. LINE ADJUSTMENT: Continuously variable, heavy-duty line voltage control. SEPARATE WINDING ON POWER TRANSFORMER FOR TEST VOLTAGE: Filament voltage taps are NOT used for test voltage supply.

\$43.50

Kit Stock #221UK. Assembled Stock #221WT — \$59.50

70°-90° Adapter \$4.98 — Stock #3AD. 110° Adapter \$4.77 — Stock #5AD

Low as \$4.35 down, \$5 monthly



CONAR

signal generator

(Kit or Assembled)

Widely acclaimed as most accurate signal generator near the price.

Uses Hartley type oscillator circuit with six separate coils and capacitors to give accuracy *within 1%* after easy calibration. All coils are carefully pre-aligned, double-checked before shipment.

High output of the Model 280 simplifies signal injection for rapid alignment and troubleshooting of transistor and tube receivers. Covers 170 kc to 60 mc in six ranges with harmonic frequency coverage over 120 mc. Ideally suited as marker generator for TV alignment.

Tuning dial features planetary drive with 6:1 ratio for greater accuracy and elimination of backlash. Scale is full 9" wide with transparent hairline pointer for readings at a glance. Has a single cable for all outputs, no need to change leads when switching from 400 cycle audio to modulated or unmodulated RF.

The Model 280 is a companion instrument to the Model 230 Signal Tracer and Model 311 Resistor-Capacitor tester with the same built-in quality and ruggedness.

S P E C I F I C A T I O N S

FREQUENCY COVERAGE: 170 kc to 60 mc on 6 bands, 60 mc to over 120 mc on harmonics

CONTROLS: High-Low Output Selector, Main-Tuning Dial, Band Selector—A thru F, Output Selector—Mod, RF, Audio, Attenuator/On-Off switch

TUBES: 6BE6, 12AU7

POWER SUPPLY: solid state

CIRCUIT: Tuned RF coils with mica trimmers on low bands, Ceramic trimmers on high bands, Transformer power supply (isolated from power line)

CABINET: Steel, baked-on rich blue finish

PANEL: Satin finish steel, red lettering

DIMENSIONS: 9 $\frac{7}{8}$ " x 7 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ "

ACTUAL WEIGHT: 8 lbs.

SHIPPING WEIGHT: 9 lbs., shipped parcel post insured

\$24.95

Kit Stock #280UK. Assembled Stock #280WT—\$35.95

\$2.50 down, \$5.00 monthly

CONAR

tuned signal tracer (KIT OR ASSEMBLED)

Makes servicing of transistor, vacuum tube and hybrid receivers easy. Can be used to locate a dead stage, to find hum, noise and distortion as well as intermittents. Will pay for itself over and over again.

The Conar Model 230 tuned signal tracer is not to be confused with low cost untuned signal tracers which contain only a diode detector and an audio amplifier. Untuned signal tracers are of very limited value in service work.

The first stage of the Conar Model 230 Signal Tracer is a high input impedance cathode follower which can be connected to any rf stage, mixer, oscillator or i-f stage of any receiver with a minimum of detuning. The output of the cathode follower is fed through a calibrated attenuator to two high-gain tuned rf stages which select the desired signal and reject extraneous signals. The signal is then fed to a diode detector and from there through two audio stages to a built-in speaker. A visual indication of the signal amplitude is provided by means of a tuning eye, so you can measure the gain per stage in a receiver or use the tracer to accurately align a receiver without a signal generator.

Another use of the Model 230 Signal Tracer is in audio circuits. Simply put the RF-AF switch in the AF position and the first rf stage is changed to an audio stage so the cathode follower output feeds to a high-gain three stage audio amplifier. Use it to locate defects in the audio section of receivers or in servicing hi-fi or stereo amplifiers.

There are more than 12 pages on uses of the Model 230 in the Instruction Manual. Here is an instrument that will be invaluable to beginners and cut servicing time in half for the experienced technician on many sets.

S P E C I F I C A T I O N S

FREQUENCY: 170 kc to 1500 kc
(2 bands)

TUNING: Planetary Drive, 3:1 ratio

SPEAKER: 4" PM left side of cabinet (not shown in illustration)

RF TRANSFORMERS: Permeability tuned

ATTENUATORS: Tuned RF and AF

CATHODE FOLLOWER PROBE:
(6AB4 tube in special circuit shipped assembled)

TUBES: (2) 6GM6, (1) 6AV6, (1) 6AQ5, (1) 6E5, (1) 6X4, (1) 6AB4

CONTROLS: Volume, Band Selector, Main Tuning, Fine Attenuator On-Off, Coarse Attenuator, RF-AF switch

CABINET: Steel, smooth rich blue finish

PANEL: Steel w/satin finish, red lettering

DIMENSIONS: 9 $\frac{7}{8}$ " x 7 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ "

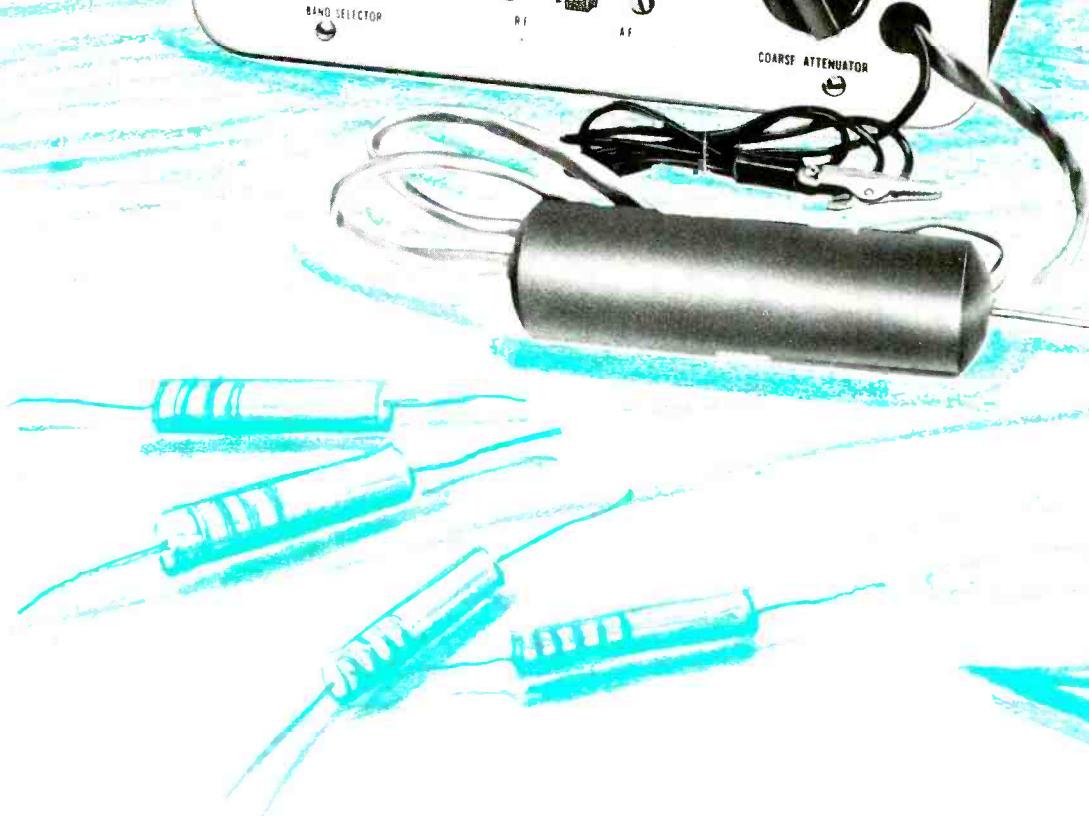
POWER SOURCE: 110-120, 60 cycle AC

SHIPPING WEIGHT: 11 lbs., parcel post insured

\$39.95

Kit Stock #230UK. Assembled Stock #230WT—\$57.50

Low as \$4.00 down, \$5.00 monthly



CONAR portable volt-ohmmeter kit



Compact, precision, yet rugged 3-in-one instrument. Easily fits in coat pocket or tool box.

Completely portable, uses two 1.5V batteries on ohms ranges with hundreds of hours life. A stock battery size available anywhere. Has jeweled D'Arsonval meter, 1% resistors.

Easily assembled in less than one hour. Low price includes 48" test leads and two 1.5V mercury batteries.

SPECIFICATIONS

DC SENSITIVITY: 20,000 ohms per volt

meg (will estimate 1/2 ohm at low end, 20 meg at high end)

AC SENSITIVITY: 5,000 ohms per volt

DIMENSIONS: 3 3/4" x 6 1/4" x 3"

DC RANGES: 0-6-120-600 (30,000 volts with optional TV probe)

CASE: Black bakelite

AC RANGES: 0-6-120-600

PANEL: Satin-finish aluminum, etched lettering

OHMMETER RANGES: 0-1,000 ohms, 0-100,000 ohms, 0-10

ACTUAL WEIGHT: 2 lbs.

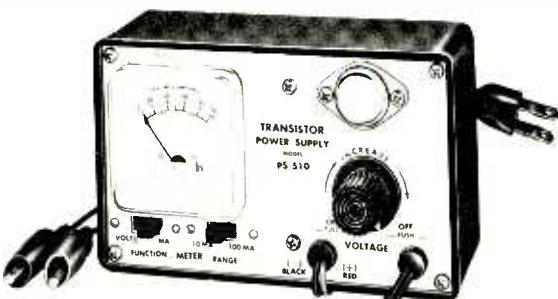
SHIPPING WEIGHT: 3 lbs., shipped parcel post ins.

Assembled Stock #240WT—\$19.95

\$17.95 Kit Stock #240UK

Optional TV probe—extends DC voltage measurements to 30,000V. **\$5.50** Stock #240PB.

CONAR Transistor Power Supply (factory assembled)



The Conar 510 is a high quality power supply designed for use in servicing transistorized electronic equipment. It is ideally suited for work on transistor radios, hearing aids, preamplifiers, and other devices requiring a source of well filtered, low voltage, D.C.

The attractive 2 1/4" clear plastic meter measures output voltage and current in three ranges.

Control and filtering is provided by a unique transistorized shunt capacitive multiplier. This circuit provides 100% burnout protection; the 510 can be shorted with no resulting damage.

A pull-on, push-off, switch is provided on the voltage control to allow the user to turn off the unit without disturbing the output setting.

SPECIFICATIONS

OUTPUT: 0-24 volts; 0-100 milliamperes

METER: 0-24 volts; 0-10 milliamperes; 0-100 milliamperes

INPUT: 110 v, 60 cy. AC only; 5 watts

SIZE: 3 3/4" x 6 3/8" x 3"

WEIGHT: 2 lbs., shipped parcel post

\$17.50 Stock #510WT



6v-12v battery eliminator

Best selling battery eliminator on the market today. Specifically designed for operating auto radios—either 6 or 12 volts—transistor or vibrator type.

The ATR Model 610 delivers 6 volts at 10 amps or 12 volts at 6 amps. Has separate meters for volts-amps, eight position voltage control, 6-12 volt switch with safety lock and toggle on-off switch. Full-wave dry disc rectifier gives noiseless, interference free operation.

Housed in steel cabinet, gray hammertone finish. Rubber feet protect bench. Size: 6 1/2" x 9 1/8" x 8 1/2". 110-120 volts, 50-60 cycle AC.

\$55.00 Stock #610WT, 22 lbs. express collect

FULLY ASSEMBLED—READY TO USE

CONAR SELECT-A-PLAN

CHECK ONE: Standard Plan
 Extended Plan

SELECT-A-PLAN SCHEDULE

If Unpaid Balance is	Standard Plan Credit Service Charge	Monthly Payment	Extended Plan Credit Service Charge	Monthly Payment
UP to 20.00	2.00			
20.01 — 30.00	3.00			
30.01 — 40.00	4.00			
40.01 — 50.00	5.00			
50.01 — 60.00	6.00	6.00	Available only on orders with unpaid balances over \$50.00	7.00
60.01 — 70.00	7.00	7.00		8.00
70.01 — 80.00	8.00	8.00		9.00
80.01 — 90.00	9.00	8.00		11.00
90.01 — 100.00	10.00	9.00		13.00
100.01 — 110.00	11.00	10.00		15.00
110.01 — 120.00	12.00	12.00		17.00
120.01 — 130.00	13.00	13.00		19.00
130.01 — 140.00	14.00	11.00		21.00
140.01 — 150.00	15.00	12.00		23.00
150.01 — 160.00	16.00	13.00		24.00
160.01 — 180.00	18.00	13.00		27.00
180.01 — 200.00	20.00	14.00		30.00
200.01 — 225.00	22.50	15.00		34.00
225.01 — 250.00	25.00	16.00		38.00
250.01 — 275.00	27.50	17.00		42.00
275.01 — 300.00	30.00	19.00		45.00
300.01 — 350.00	35.00	21.00		51.00
350.01 — 400.00	40.00	24.00		58.00
400.01 — 450.00	45.00	27.00		66.00
450.01 — 500.00	50.00	30.00		73.00
				24.00

On orders over \$500.00 credit service charge and payments will be in proportion to amounts shown on schedule.

To speed shipment, please follow these instructions.

1. Complete other side of this sheet.
2. Insert amount of down payment in Payment Agreement below. (At least 10% of total order.)
3. Use payment schedule on the left to find your monthly payment. Insert monthly payment in agreement below.
4. Sign Payment Agreement and fill in Credit Application.
5. Send order with down payment and parcel post charges to Conar, 3939 Wisconsin Ave., Washington, D.C. 20016.

IMPORTANT: When you have made three monthly payments, you can "add-on" purchases with no down payment.

On orders over \$500, credit service charge and payments will be in proportion to amounts shown on schedule.

If you are under 21, please have the payment agreement and credit application filled out by a person over 21. He can make the purchase for you and will be responsible for payment.

If you have a Conar account open or recently paid in full, just sign the Payment Agreement.

PAYMENT AGREEMENT

Enclosed is a down payment of \$_____ on the merchandise I have listed on the reverse side. Beginning 30 days from the date of shipment, I will pay you \$_____ each month until the total Select-A-Plan balance is paid. Title to and right of possession of the merchandise shall remain in you until all payments have been made. If I do not make the payments as agreed, you may declare the entire balance immediately due and payable. In satisfaction of the balance due, you may at your option, take back the merchandise, which I agree to return at your request. I agree that the above conditions shall apply to any add-on purchases to my Select-A-Plan account. The statements below are true and are made for the purpose of receiving credit.

Date _____ Signature _____

PLEASE PRINT

CREDIT APPLICATION

Full Name	Age	
Home Address	Phone	
City & State	How long at this address?	
Previous Address	City & State	How long?
Your Present Employer	How long?	
Employer's Address	Your Position	
Monthly Income	If self-employed, what business?	
If Serviceman, Military Address	Serial No.	Rank
Married <input type="checkbox"/> Single <input type="checkbox"/> No. of Dependents	Wife's name	
Wife's Employer	Her Monthly Income	
Business Address	Her position	How long?
Bank Account with	Savings <input type="checkbox"/> Checking <input type="checkbox"/>	
CREDIT REFERENCES (Two companies or finance companies with whom you have accounts.)		
Account with	Address	Highest Credit
Account with	Address	Highest Credit

CONAR SELECT-A-PLAN

CHECK ONE: Standard Plan
 Extended Plan

SELECT-A-PLAN SCHEDULE

If Unpaid Balance is	Standard Plan Credit Service Charge	Monthly Payment	Extended Plan Credit Service Charge	Monthly Payment
UP to 20.00	2.00			
20.01 — 30.00	3.00			
30.01 — 40.00	4.00	5.00	Available only on orders with unpaid balances over \$50.00	
40.01 — 50.00	5.00			
50.01 — 60.00	6.00	6.00	7.00	
60.01 — 70.00	7.00	7.00	8.00	
70.01 — 80.00	8.00	7.00	9.00	5.00
80.01 — 90.00	9.00	8.00	11.00	
90.01 — 100.00	10.00	9.00	13.00	
100.01 — 110.00	11.00		15.00	
110.01 — 120.00	12.00	10.00	17.00	6.00
120.01 — 130.00	13.00		19.00	
130.01 — 140.00	14.00	11.00	21.00	7.00
140.01 — 150.00	15.00		23.00	
150.01 — 160.00	16.00	12.00	24.00	8.00
160.01 — 180.00	18.00	13.00	27.00	9.00
180.01 — 200.00	20.00	14.00	30.00	10.00
200.01 — 225.00	22.50	15.00	34.00	11.00
225.01 — 250.00	25.00	16.00	38.00	12.00
250.01 — 275.00	27.50	17.00	42.00	14.00
275.01 — 300.00	30.00	19.00	45.00	15.00
300.01 — 350.00	35.00	21.00	51.00	17.00
350.01 — 400.00	40.00	24.00	58.00	19.00
400.01 — 450.00	45.00	27.00	66.00	22.00
450.01 — 500.00	50.00	30.00	73.00	24.00

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If you are under 21, please have the payment agreement and credit application filled out by a person over 21. He can make the purchase for you and will be responsible for payment.

If you have a Conar account open or recently paid in full, just sign the Payment Agreement.

PAYMENT AGREEMENT

Enclosed is a down payment of \$_____ on the merchandise I have listed on the reverse side. Beginning 30 days from the date of shipment, I will pay you \$_____ each month until the total Select-A-Plan balance is paid. Title to and right of possession of the merchandise shall remain in you until all payments have been made. If I do not make the payments as agreed, you may declare the entire balance immediately due and payable. In satisfaction of the balance due, you may at your option, take back the merchandise, which I agree to return at your request. I agree that the above conditions shall apply to any add-on purchases to my Select-A-Plan account. The statements below are true and are made for the purpose of receiving credit.

Date _____

Signature _____

PLEASE PRINT

CREDIT APPLICATION

Full Name _____	Age _____	
Home Address _____	Phone _____	
City & State _____	How long at this address? _____	
Previous Address _____	City & State _____	How long? _____
Your Present Employer _____	How long? _____	
Employer's Address _____	Your Position _____	
Monthly Income _____	If self-employed, what business? _____	
If Serviceman, Military Address _____	Serial No. _____	Rank _____
Married <input type="checkbox"/> Single <input type="checkbox"/> No. of Dependents _____	Wife's name _____	Her Monthly Income _____
Wife's Employer _____	Her position _____	How long? _____
Business Address _____	Savings <input type="checkbox"/> Checking <input type="checkbox"/>	
Bank Account with _____	Highest Credit _____	
CREDIT REFERENCES (Two companies or finance companies with whom you have accounts.)		
Account with _____	Address _____	Highest Credit _____
Account with _____	Address _____	Highest Credit _____

EVERYONE NEEDS —

CONAR electrical appliance tester



for

fans

lamps

toasters

refrigerators

clocks

washers

etc.

**For Professional,
Homeowner, or
Hobbyist.**

\$24.50

Kit Stock #200UK. Assembled Stock #200WT — \$32.50

Complete instructions included —

For troubleshooting all household appliances — refrigerators, toasters, fans, lamps, clocks, washers, etc. A versatile, labor-saving instrument for the repair shop, the Model 200's amazingly easy operation makes it perfect for home use too. Test-proven in over 12,000 shops and homes. Quickly, *accurately* pinpoints what's causing the trouble. Measures the actual current consumption of any operating appliance, tests for proper voltage up to 300V. Locates house wiring defects, checks for open circuits, faulty connections, and "shorts."

Sensitive resistance ranges (0 to 1,000; 0 to 10,000 ohms) let you test all resistance in motors. It'll also check circuit breakers, switches and thermostats. With the Model 200's direct line plug-in panel, test voltage to any outlet simply by plugging the tester into the outlet.

Ideal for testing electrical systems in automobiles, too: checks generators, distributors, starter motors and brake light switches — just a few of the jobs it will do.

Uses two precision double-jeweled meters and 1% precision resistors. Top-quality 30" alligator clip test leads come with it at no additional cost. Rugged yet good-looking fabric covered wood cabinet adds to the professional appearance. The cabinet has a carrying handle and removable lid — plus extra space for storing small tools, fuses, etc.

S P E C I F I C A T I O N S

METERS: Double-jeweled D'Arsonval type, 0-1 ma and 15 amp special scales

VOLTAGES RANGES: 0-150 AC, 0-300 AC

OHMS RANGES: 0-1000, 0-10,000 ohms

AMMETER RANGES: 0-15 amp (direct line plug in panel)

BATTERY: 1.5 volt "D" cell for ohms circuit

CONTROLS: 6-position switch for volts-ohms; ohms adjust potentiometer

OVERLOAD PROTECTOR: 15 amp fuse

DIMENSIONS: 7½" x 7½" x 3½"

POWER SOURCE: 110-120 volts, 60 cycle AC

ACTUAL WEIGHT & SHIPPING

WEIGHT: 5 lbs., shipped parcel post insured.

CONAR

resistor-capacitor tester

(Kit or Assembled)

The Model 311 gives fast, accurate, reliable test on all resistors and capacitors. Measures capacity of mica, ceramic, paper, oil-filled and electrolytics from 10 mmfd. to 1500 mfd, 0-450 volts. Checks for leakage, measures power factor and useful life. Shows exact value of resistors from 1 ohm to 150 megohms. Clearly indicates opens and shorts.

Has "floating chassis" design to greatly reduce shock hazards. The Model 311 will also apply actual DC working voltage to capacitors to reveal break-down under normal circuit conditions, a feature far superior to many R-C testers which give low voltage "continuity" tests.

Can be used for in-circuit tests in many applications and circuits. Has 1% precision resistors in range circuit. A basic test instrument that won't become obsolete!

S P E C I F I C A T I O N S

RESISTANCE RANGES: 0-500 ohms, 100-50K, 10K-5M, 1.8M - 150M (extended range)

CAPACITY RANGES: 0.1-50 mfd, .001-.5 mfd, .00001-.005 mfd, 18-1500 mfd (extended range)

CONTROLS: Range Selector, Leakage Test Voltage (0-450), Power Factor (0-60%)

TUBES: 6E5 "eye" indicator, 6X4

BINDING POSTS: Special 5-way type

CABINET: Steel with rich blue finish

PANEL: Steel w/satin finish and red lettering

DIMENSIONS: 9 $\frac{1}{8}$ " x 7 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ "

POWER SUPPLY: 110-120 V, 60 cycle AC

SHIPPING WEIGHT: 9 lbs., parcel post insured

\$21.95

Kit Stock #311UK. Assembled Stock #311W—\$31.95

Low as \$2.20 down, \$5.00 monthly





S P E C I F I C A T I O N S

VERTICAL SENSITIVITY: .023

VRMS

VERTICAL FREQ. RESPONSE:

Flat 13 cps to 2.5 mc, Down .05 db at 11 cps, Down 1.5 db at 3.58 mc (color burst), Down 3.5 db at 4.5 mc

HORIZONTAL SENSITIVITY: 1.0

VRMS

HORIZONTAL FREQ. RESPONSE:

Flat 20 cps to 90 kc, Down .8 db at 12 cps, Down 3 db at 250 kc

RISE TIME: .05 ms

SWEEP FREQUENCY: 10 cps to 500 kc

TUBES: 11 (equivalent of 19 using dual-types)

PUSH-PULL ON-OFF does not upset other adjustments

CONTROLS: Intensity, Focus, On-Off, Astigmatism, Horiz. Centering, Vert. Centering, Horiz. Gain, Vert. Gain, Sweep Selector, Vert. Attenuator, Fine Frequency, Sync Selector, Sync

CABINET: Heavy gauge steel, baked on rich blue finish, rubber feet, chrome handle

PANEL: Satin finish aluminum (not painted) with red lettering

BINDING POSTS: 5-way type to accommodate all connectors

DIMENSIONS: 9 $\frac{3}{8}$ " x 13 $\frac{3}{4}$ " x 15 $\frac{1}{2}$ "

POWER SUPPLY: 110-120 volts, 60 cycle AC, fused circuit

ACTUAL WEIGHT: 21 lbs.

SHIPPING WEIGHT: 26 lbs., shipped via express for safest handling

\$89.50

Kit Stock #250UK. Assembled Stock #250WT—\$139.50
Low as \$8.95 down, \$5 monthly

CONAR

5" wide band oscilloscope

(KIT OR ASSEMBLED)

Advanced design, newest circuitry, exclusive features — a truly professional oscilloscope for laboratory or service shop. The Model 250 is ideally suited for color and monochrome TV, AM-FM and transistor radios, hi-fi and stereo amplifiers, plus numerous industrial electronic applications.

Note these Conar Model 250 features:

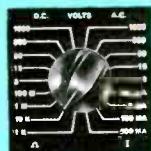
- **Uses 2400 volts on the cathode ray tube — 50% more than most scopes.** Trace remains clear, distinct, bright, with increase in sweep frequency or vertical-horizontal expansion. Forget about darkening room to observe traces on your Model 250 screen!
- **Vertical gain control is calibrated for direct reading of peak-to-peak voltages.** Simply multiply vertical gain control setting by attenuator setting by trace height for quick, accurate peak-to-peak readings. No need to remember special formulas or "feed-in" calibrating signals.
- New improved scope circuitry gives **excellent linearity** at low frequencies without limiting the production of high frequency sweep signals.
- **Two stage retrace blanking amplifier gives 100% retrace blanking** at all frequencies produced by the scope sweep generator. Retrace lines *will not* confuse the display at high sweep frequencies.
- Accurately measures ripple output of power supplies; checks auto radio vibrators dynamically.
- Intensity and focus controls use special insulated high voltage potentiometers to eliminate leakage and shock hazards.
- Has **push-pull outputs** balanced by separate phase splitter tubes in both horizontal and vertical amplifiers.
- **Built-in flyback checker** gives rapid, in-circuit testing of flybacks, transformers, yokes, coils, loop sticks. Eliminates need for a separate flyback tester costing from \$40 to \$70.
- Sweep range — 10 cps to 500 kc — **five times the range of most other scopes**, using special linearity circuit.

The Model 250 can be assembled in less than 15 hours — even by an inexperienced kit builder. Uses only top grade components. Most components are over-rated, giving you an extra margin of dependability plus years of trouble-free service. And — there's no trouble finding replacement parts if ever needed. (Of course, we stock a complete inventory of parts, too.)

Step-by-step assembly instructions include big 17" x 22" picture diagrams plus 12 full pages of comprehensive operating instructions with more than 30 illustrations showing wave forms and connecting points.

OPTIONAL ACCESSORY. Set of four heavy duty probes designed specifically for use with the Model 250. Set includes: high impedance, low capacity probe; crystal demodulator probe; resistive isolating probe; shielded direct probe; roll-up carrying case. Shipped fully assembled, ready for use with detailed instructions. Stock #250PB, 1 lb., parcel post. Price—\$15.95

Quick, Direct, Error-Free Readings WITHOUT MULTIPLYING



just set the range switch
and the correct scale appears
AUTOMATICALLY



B&K VTVM

DYNAMATIC 375 Automatic Vacuum-Tube Voltmeter



Individual full-size scale for each range, and only one scale visible at any one time. Once you set the range switch, you see only the scale and range you want, and read the answer directly. Saves time, eliminates calculations, avoids errors. Simplifies true reading of peak-to-peak voltages of complex wave forms in video, sync and deflection circuits, pulse circuits, radar systems, etc. Includes DC current ranges, too.

Ranges: DC Volts 0-1.5, 5, 15, 50, 150, 500, 1500
AC Volts (rms) 0-1.5, 5, 15, 50, 150, 500, 1500
AC Volts (peak-to-peak) 0-1.5, 5, 15, 50, 150, 500, 1500
DC Current 0-5 ma, 50 ma, 500 ma
Ohms 0-500 ohms, 5k, 50k, 500k,
5 meg, 50 megs, 1000 meg

Input Resistance: 11 megohms on all DC ranges

Accuracy: $\pm 3\%$ full scale AC and DC

Meter Movement: Sensitive 100 microampere

Precision Multiplier Resistors with $\pm 1\%$ accuracy

Anti-Parallax Mirrored Scale for precise readings

Easy-to-See Iridescent Knife-Edge Pointer

Single DC-AC Ohms Probe (supplied)

Includes 1½ volt Battery. Operates on 117 volts 50-60 cycle AC

Model 375. Dynamatic VTVM in sturdy metal case, with convenient combination swivel stand and handle. Size 10½" x 6¾" x 4" deep.
Net wt., 8 lbs. Shipped via express. Stock #375WT

Conar price — \$88.15

\$8.81 down, \$8.00 monthly

Model 38PB. R.F. Probe for Model 375. Increases frequency range up to 250 Mc. Net. \$7.95

Model 39PB. High-Voltage Probe for Model 375. Increases DC voltage range up to 50,000 volts. Net. \$12.95

(Model 375 also available in 115-230 volts, 50-60 cycle AC.)

B&K VOM

V O M ATIC 360 Automatic Volt-Ohm-Milliammeter



WITH BURN-OUT PROOF
METER MOVEMENT

Individual full-size scale for each range. Only one scale is visible at any one time, in the exact range you want. All scales are direct reading—no multiplying, no false readings.

Sensitivity: 20,000 ohms per volt DC; 5,000 ohms per volt AC

Ranges: DC Volts 0-3, 15, 60, 300, 1000, 6000

AC Volts 0-3, 15, 60, 300, 1000, 6000

AF (output) 0-3, 15, 60, 300 volts

DC Current 0-1000 µa, 5 ma, 100 ma, 500 ma, 10 amps

Resistance 0-1000 ohms (10 Ω center)

0-10,000 ohms (50 Ω center)

0-1 megohm (4 k Ω center)

0-100 megohms (150 k Ω center)

Supplemental Ranges in 18 separate external overlay meter scales:

DC Volts 0-250 mv; Capacitance 100 mmfd to 4 mfd in 3 ranges;

Audio Power Output (4 Ω load) 0-56 watts in 2 ranges; (8 Ω load)

0.28 watts in 2 ranges; (16 Ω load) 0.56 watts in 3 ranges; DBM

(decibels) (0 db = 1 mv across 600 ohm load): -20 dbm to +62 dbm in 5 ranges; Peak-to-Peak AC Volts (sine wave only) 0-170, 850.

Polarity Reversing Switch for ease of measurement. **Ohms-Adjust Control** automatically shorts out test leads for Zero set. **Mirrored Scale** with knife-edge pointer for precise readings. **Accuracy:**

$\pm 3\%$ DC; $\pm 5\%$ AC (full scale). **Frequency Response AC:**

5-50,000 cps. **Burn-Out Proof Meter Movement** protected against extreme overload and burn out. Complete with 1½-volt and 9-volt batteries and test leads.

Model 360. Includes adjustable easy-viewing stand. Size 6½" x 8¾" x 4¼". Net wt. 4 lbs. Shipped via express. Stock #360WT

Conar price — \$58.75

\$5.88 down, \$6.00 monthly

Model 36PB. High Voltage Probe for Model 360. Extends DC voltage range up to 60,000 volts. Net. \$12.95

Model 8CY. Eveready Genuine Leather Carry-Case. Net. \$11.95

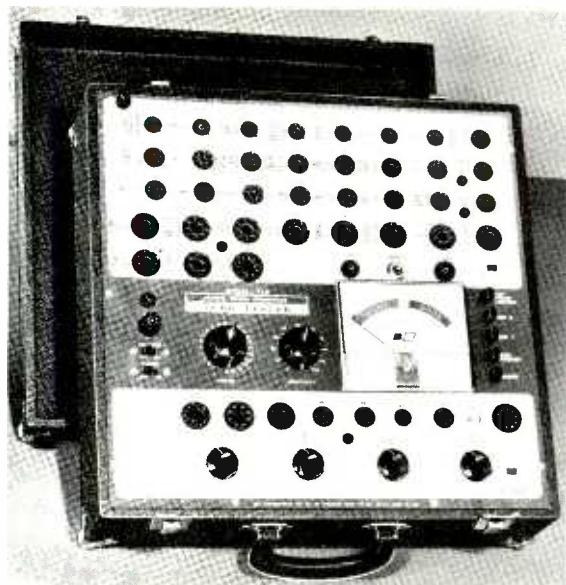
Model 707 DYNA-QUIK



OBSOLESCENCE-PROOF

DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER

Tests: New and old TV and Radio Tubes, Nuvistors, Novars, 10-pin tubes, 12-pin Compactrons, European Hi-Fi Tubes, Voltage Regulators, and Most Industrial types.



Especially designed for efficient accurate testing of tubes for color TV, the B&K Dyna-Jet Model 707 tests more color TV tubes including the latest types, and tests them more rapidly than any equipment previously available. Also tests virtually all TV and radio tubes, new and old, Nuvistors, Novars, 10-pin tubes, 12-pin Compactrons, European Hi-Fi tubes and voltage regulators, and most industrial tube types.

A dynamic mutual conductance tube tester, with full obsolescence tube protection, the 707 makes tests under actual set operating conditions, thus offering complete GM accuracy. A multiple-socket section permits quick checking of most tube types; and a simplified switch section permits checking other types in a Dyna-Jet emission circuit; also includes provisions for future sockets.

Checks each section of multi-section tubes for all shorts, grid emission, leakage and gas. (The adjustable grid emission test provides sensitivity to over 100 megohms.) The unit also makes a quick "life" test.

Shipping Weight: 17 lbs.
Stock #707WT Shipped Express Collect
CONAR PRICE — \$189.95

NEW B & K Model 801 CAPACITOR ANALYST

Saves Time — Saves Work — Saves Call Backs

TESTS CAPACITORS FOR "SHORTS", "OPENS", AND "LEAKAGE"

Quickly detects "shorts", "opens", and leaky capacitors in-circuit as well as out-of-circuit. Tests for shorts and opens reads directly on Good-Bad scale. Leakage test reads directly in megohms on leakage scale. Quickly shows "leakage" which affects operation of circuit and determines need for replacement. Unique 3-wire design eliminates need for disconnecting capacitor from circuit.

TESTS CAPACITOR VALUE

Accurately measures capacity value out-of-circuit which has a working voltage of 3 volts or more, within the range of 25 pfd to 100 mfd. Makes it easy to test low-voltage transistor circuit capacitors as well as those in vacuum-tube circuits. Values are quickly determined from meter scale.

TESTS ELECTROLYTIC CAPACITORS

(Out-of-Circuit Only)

Unique new test circuit (pat. pend.) automatically measures and reveals the effective operating capacity of electrolytics in microfarads on the meter scale. This measurement automatically takes into consideration the effect of capacity, leakage resistance, and equivalent series resistance.



SPECIFICATIONS

AC VOLTAGE Designed for operation on 105-125 volts 60 cycle AC, but pre-tested to operate properly from 90 to 140 VAC after 2-minute warmup.

CABLES All tests are made with the same integrated cable assembly, simply by proper setting of range selector switch. (All necessary cables and leads are included.)

BURN-OUT-PROOF METER MOVEMENT Meter movement is protected against accidental overloads.

CALIBRATION Calibration is easy to maintain for accurate testing and measurement.

SINGLE-KNOB RANGE SELECTION One knob makes it easy to select the desired function and range. Simplifies operation.

HANDSOME . . . RUGGED . . . EASILY PORTABLE Size, 5 1/2" h x 12 3/4" w x 6 3/4" d. Weighs only 8 3/4 lbs. Simplified internal engineering design, in attractive metal case, for rugged, long-life use.

Shipping Weight: 10 lbs.
Stock #801WT Shipped Express Collect
CONAR PRICE — \$109.95

B & K television analyst

FIND IT and FIX IT... in 1/2 the TIME!



- Completely new advanced design
- Pinpoints TV troubles in half the time
- Designed for black-white and color
- Injects signal and produces own test pattern—actually a miniature TV broadcast station

Widely acclaimed as the most useful instrument in TV servicing! Makes it quick and easy to isolate, pinpoint and correct TV trouble in any stage throughout the video, audio, RF, IF, sync and sweep sections of black-white and color TV sets.

Makes external scope or wave-form interpretation unnecessary. Enables any serviceman to cut servicing time in half, service more TV sets in less time, really satisfy more customers and make more money.

ALL THESE SIGNALS ARE INSTANTANEOUSLY AVAILABLE ON THE FRONT PANEL: RF and IF: Supplies complete signals to trouble shoot each stage in these sections. VIDEO: Reproduces complete test pattern for fast, visual troubleshooting. SYNC: Gives composite signal, positive or negative. AUDIO: Provides FM modulated 4.5 mc sound channel and 400 cycle tone generator. COLOR: Generates white dot, crosshatch, color bar and rainbow patterns. GRID DRIVE: Provides signal for vertical and horizontal output stage. PLATE DRIVE: Completely check vertical and horizontal output circuit. YOKE TEST: Reveals condition of yoke windings. B+ BOOST INDICATOR: Qualifies boost operation. HIGH-VOLTAGE INDICATOR: Helps to isolate high voltage troubles. HIGH VOLTAGE TRANSFORMER TEST: Detects shorted turns, leakage, opens, etc. SWITCH-TYPE TUNER: For instant and accurate channel selection. NEGATIVE BIAS SUPPLY: For sync overload and AGC troubles. Eliminates need for extra equipment. AGC KEYING PULSE: For troubleshooting gated AGC systems. HIGH LEVEL TEST SIGNAL: For directly modulating TV picture tubes.

Stock #1076WT, 31 lbs., express collect

\$329.95

\$33.00 down, \$15 monthly

B & K Model 960 Transistor Radio Analyst

With Exclusive New DYNA-TRACE Single-Point Probe
Metered Power Supply and VTVM

Now—profit from transistor radio servicing! B&K "960" makes transistor radio servicing quick and easy. Brings you new customers for service, parts, and batteries.

Gives you a complete signal-generating source for point-to-point signal injection. Enables you to troubleshoot any transistor radio—signal trace all circuits stage-by-stage—isolate and pinpoint the exact trouble in minutes.

Built-in metered power supply makes it easy to operate radio being tested and to inject your own signals. Provides from 1 to 12 volts in 1½ volt steps. Supplies all bias taps. Fully metered with two current ranges: 150 ma. and 15 ma. full scale. Milliammeter can also be used as the indicating meter for receiver alignment.

Unique Dyna-Trace single-point probe needs only the

one contact to transistor under test.

Includes built-in high-input-impedance VTVM which is vital for transistor radio servicing. Two ranges: 1.5 and 15 volts full scale reading. Enables you to test batteries under radio operating conditions. Ohmmeter reads up to 1 megohm full scale. Also tests front-to-back ratio of diodes.

Meter has "Good-Bad" scale for both leakage and beta. Also has direct-reading Beta scale, calibrated 0-150. Assures quick, accurate test. Automatically determines whether transistor is NPN or PNP. Meter is protected against accidental overload and burn-out.

Model 960. Complete with Japanese to American transistor cross-reference chart. Operates on 117 volts 50-60 cycle a.c. Handsome, sturdy metal case. Size: 12½" x 7¾" x 4¾". Shipped express collect. Shipping Wt. 9 lb. 8 oz.



Original price
\$97.95

CONAR close-out sale price
\$89.50

Stock #960WT
\$9.00 down, \$5.00 monthly

B & K picture tube tester-rejuvenator



FULLY ASSEMBLED—READY TO USE

All new B & K CRT 445 quickly checks and corrects black-white and color picture tubes right in the home—without removing tube from set. Tests and rejuvenates all pic. tubes at correct filament voltage from 1 to 12V; all Hi G-2 and Lo G-2 pic. tubes including those requiring voltage as low as 30V; 110° plus new 19" and 23" tubes; color tubes including new 90°, 23" 23BG22. Checks each color tube gun separately. Also checks for leakage, shorts, opens, emission; removes inter-element shorts, leakage; repairs open circuits and low emission; restores emission and brightness. Checks gas content, predicts useful life of tube. Grid cut-off reading indicates picture quality you can expect. Has 4½" plastic meter and neon bulb indicators for quick, easy readings. Operates on 117V, 50-60 cycle AC. Handsome leatherette-covered carrying case with handle.

\$74.95 Stock #445WT, 9 lbs. parcel post insured

Anchor picture tube tester-rejuvenators



NEWEST . . . MOST UP-TO-DATE MODEL

The new Model T-477 will test and repair all types of picture tubes, including the latest color and 110° types. It will test for shorts between various elements, measure the cathode emission, determine the tube's cutoff characteristics, and by means of a gas test will determine the probable useful life of the tube. It will repair shorts between elements, weld open cathodes and reactivate low emission cathodes.

FEATURES:

Isolation transformer	Tests every type pic. tube
Tests for emission,	Fil. volt. exact 2.35 to 12.6
opens, shorts, and	5 position grid ₂ switch
measures cutoff	Meter circuit protection
2 stage re-activation	Circuit switch
Weld operation	Neva-Break socket protects
4½" Eye-ease meter	leads
Separate gas test	Size: 10" x 9¾" x 4½"

\$63.65 Stock #477WT, 8 lbs. parcel post insured



FULLY ASSEMBLED — READY TO USE

Test, analyze and repair all picture tubes in use today—black-white and color. The Model T-471 includes all necessary adapters, 4½" meter, filament switch to cover exact voltage of all tubes, switch for checking individual guns of color tubes, short and open indicator lamp and contact switch to weld open cathodes and eliminate inter-element shorts. Only instrument in price range with so many features. Size 10" x 9¾" x 4½".

Was \$53.85

Now \$48.85

Stock #471WT, 9 lbs. 14 oz. parcel post insured



GERNSBACK LIBRARY

The Complete Electronics Bookshelf



BOOKS ON SERVICING



Horizontal Sweep Servicing Handbook by Jack Darr. Gives you fast, simple methods of locating and repairing troubles in the horizontal sweep system.

G/L 115 4.10

Radio Servicing Made Easy (2 vols.) by Leonard C. Lane. Filled with the newest data on servicing, AM, FM, Citizens Band, marine, transistor, communications and auto receivers.

G/L 107 (2 vols.) 7.20

Practical TV Troubleshooting by Martin Clifford. Experts let you in on their secrets for handling intermittents, eliminating ghosts, troubleshooting the horizontal oscillator and other common troubles.

G/L 102 2.35

TV Trouble Analysis by Harry Mileaf. Fix TV troubles in any set fast, by knowing what symptoms look like and what causes them.

G/L 101 3.20

Printed Circuits by Morris Moses. Build-it-yourself circuits for miniature amplifiers, receivers, and many more transistor devices.

G/L 81 2.90

Servicing Color TV by Robert G. Middleton. Tells how to service color TV sets profitably. Numerous charts help you spot troubles quickly.

G/L 65 2.90

Servicing Record Changers by Harry Mileaf. Makes servicing changers easy. Complete text plus line drawings explain intricate mechanisms clearly.

G/L 59 2.90

BOOKS FOR HOBBIES

How to Build Tiny Electronic Circuits by Morris Moses. Explains "miniaturized" electronics for the hobbyist, experimenter and service technician.

G/L 117 4.15

Fun with Radio-Controlled Models by Edward L. Safford, Jr. Learn by building. Simple projects for the beginner. Covers steering, motor and engine control.

G/L 106 3.20

Radio-Control Handbook (revised edition) by H. G. McEntee. The standard in the field. New ideas for remote control of model boats, planes and cars by radio.

G/L 93 4.95

Fun with Electricity by Thomas Kennedy Jr. A great book to start a youngster on a hobby (or career) in electronics. Helpful to beginners of any age.

G/L 83 2.65

Model Radio-Control by Edward L. Safford, Jr. New and enlarged. Explains R/C theory, gives construction details for remote controlled planes, autos, boats.

G/L 74 2.65

Electronic Puzzles and Games by Matthew Mandl. How to build electronic games with simple tools. Gives step-by-step instructions.

G/L 70 1.95

Electronic Hobbyists' Handbook by Rufus P. Turner. Scores of tested and debugged circuits for building garage door openers, amplifiers, oscillators, power supplies, control and photo devices, etc.

G/L 69 2.50

BOOKS ON HIGH FIDELITY

Designing and Building Hi-Fi Furniture by Jeff Markell. How to have a hi-fi system that looks as good as it sounds. Covers types of woods, tools, furniture finishing and design.

G/L 79 2.90

Elements of Tape Recorder Circuits by Herman Burstein and Henry C. Pollak. Answers questions on frequency response, hum, what to look for when you buy.

G/L 67 2.90

THEORY AND FUNDAMENTALS

Elements of Electron Physics by Norman H. Crowhurst. Explains in simple understandable language the how and why of electronics.

G/L 113 3.95

Learn Electronics by Building by John Schroeder. Learn electronics by building the units yourself. Start with basic theory, finish by constructing amplifiers and receivers.

G/L 112 3.85

Announcing a New Gernsback Book containing the
MOST USED, MOST NEEDED
formulas and data in electronics



electronics data handbook

By MARTIN CLIFFORD

160 PAGES
G/L No. 118 \$2.95

■ For technicians, engineers, students, hobbyists, hams, experimenters ■ Arranged in logical orderly fashion for quick easy reference ■ A basic book for your library

If you had only one book in your professional library, this would have to be it. This single volume answers such everyday questions as these: What formula do I need for this problem? Is there an easier formula? Where can I find the data I need? What substitutions can I make in formulas? What sequence of formulas must I use if I need to work with several of them? This one book gives you all the answers, grouped under appropriate headings. You'll wonder how you ever got along without it. Send for your copy today.

BOOKS ON TEST INSTRUMENTS

The Oscilloscope (revised edition) by George Zwick. Enables technicians to become masters of the scope. Incorporates newest uses and techniques. Fully illustrated.

G/L 108 3.65

How to Get the Most out of Your VOM by Tom Jaski. Get more mileage out of this versatile instrument. A complete analysis including theory and practical usage—and chapters on construction.

G/L 85 2.90

Oscilloscope Techniques by Alfred Haas. How to use the scope in scores of new applications. Explains how to make tests and measurements.

G/L 72 2.90

The VTVM by Rhys Samuel. Get the most out of this electronic workhorse. Explains VTVM circuits and how and why they work.

G/L 57 2.50

BOOKS ON TRANSISTORS

Getting Started with Transistors by Louis E. Garner, Jr. The last word on the subject. Ideal for the beginner and experimenter.

G/L 116 3.95

Transistors by Martin Clifford. How to test transistors and build the equipment you need to do it.

G/L 94 1.95

Fundamentals of Semiconductors by M. G. Scroggie. Explores the entire field of semiconductor devices—transistors, rectifiers, photoelectric devices, thermistors, varistors, etc.

G/L 92 2.95

Transistor Projects by Martin Clifford. Build pocket radios, test equipment, all kinds of electronic gadgets. Each one pre-tested. Solid how-to-do-it, construction details.

G/L 89 2.90

Transistors—Theory and Practice (revised and enlarged edition) by Rufus P. Turner. One of our all-time best sellers, brought up to date. Covers theory, characteristics, use in well known circuits.

G/L 75 2.95

Transistor Circuits by Rufus P. Turner. How to work with hundreds of transistorized circuits. Invaluable for the experimenter, hobbyist and do-it-yourselfer.

G/L 63 2.75

Transistor Techniques by Martin Clifford. Keeps theory and math to a minimum and gives scores of hints on how to use transistors to best advantage. Covers testing, performance, construction and measurements.

G/L 61 1.50

Please allow 3 weeks delivery for Gernsback books.

CONAR recommended Hallicrafters Model CB-7 Transceiver



free "Phantom" Fiberglass 48"
Antenna (includes mount)

A \$109.90 value for . . .

\$99.95 Stock #7EN, shipped express collect
\$10 down, \$5 monthly

HALLICRAFTERS Precision-Built 4-Band Receiver

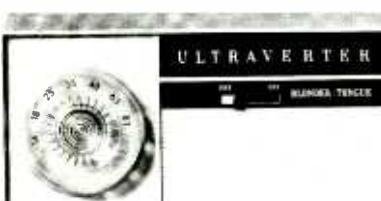


\$69.95

Stock #120EN
\$7.00 down \$5 monthly

Model S-120 from Hallicrafter—pioneers in new communication ideas. This new receiver features electrical bandspread with slide rule dial and separate bandspread tuning capacitor. Front panel headphone jack may be used to drive remote 8 ohm speaker and automatically disconnects built-in 5" PM speaker. Has 3 antennas—ferrite loop, adjustable whip and wire antenna. Covers broadcast band 550-1600 kc plus 3 short wave bands, 1600 kc to 30 mc. Tube complement 12BE6 converter, 12BA6 I-F amplifier, BFO, 12AV6 audio amplifier, AVC detector, 50C5 audio plus rectifier. Five controls—band selector, main tuning, bandspread tuning, standby/receiver, BFO/selectivity, and AC/on/off volume. Gray steel cabinet with silver trim. Size 13½" x 5¾" x 8¾". Weight 12 lbs. Express Collect.

CONAR recommended Blonder-Tongue UHF CONVERTERS



\$13.20
Stock #44AD

For PRIME SIGNAL AREAS—meets critical needs of good Color TV reception. Precise impedance match—low noise all transistor circuit. Top performance all channels, no signal inversion or distortion at high end of spectrum. Nearly 3 million Blonder-Tongue converters sold. Patented tuner which is rugged and reliable. Easy to install.

SPECIFICATIONS

INPUT CHANNELS: 14-83. **OUTPUT CHANNELS:** 5 or 6. **CONNECTORS:** 300 Ohm stripless terminals. **POWER:** 117 VAC, 60 cycles; 0.1 amps. **SIZE:** 3¾" x 6" x 3⅓". **COLOR:** Beige. **SHIPPING WEIGHT:** 2 lbs. p.p. ins.

\$19.85
Stock #199AD

A 6 channel fixed or mobile class "D" CB transceiver with NEW all-electronic push-to-talk circuitry. Uses the same "drop-down" chassis feature as the CB-3 series and accommodates all the CB-3 series accessories; the HA-9 "S" Meter, HA-11 Noise Eliminator, the HA-12 Encoder/Decoder and the HA-13 Receiver Tuning Device. Ready to operate either base AC or mobile 12 VDC, including all necessary power cords and mounting bracket.

SPECIFICATIONS

7 tubes and 4 silicon diodes, 5 watts power input. Full 100% modulation capability. Receiver sensitivity —1 micro-volt for 10 db S & N/N. Dimensions: LWH—12" x 7" x 5". Shipping weight—15 lbs. 7 oz.

TUBES: 6CX8 Transmitter oscillator / amplifier, 12AU6 RF amplifier, 12BE6 converter, 12BA6 1st amplifier, 6BL8 2nd IF amplifier/1st audio, 6BN8 squelch and 6GW8 driver/audio output.

HALLICRAFTERS NEW Low Cost Special Purpose Receivers



\$69.95

Model CRX-4
Stock #204EN
Model CRX-5
Stock #5EN

Model CRX-4 covers 30-50 Mc. Police, fire, government, ships. Low cost, high performance. Easy to operate. Logging scale on tuning dial for quick reseatability. Electronic squelch. Built in 5" speaker. Front panel control and functions: Tuning, Audio Gain, Squelch. Rear chassis controls and functions: Head Phone Jack, Antenna Connector. Model CRX-5 covers 151-174 Mc.

Gray steel cabinet with silver trim. Size: 13" x 7½" x 8¾". Power supply: 105/125V; 50/60 cycle AC; 40 watts. Shipped Express Collect.

Blonder-Tongue's Model BTD-44 has tunnel diode circuit which insures maximum reliability, easy, positive tuning. Highly selective tuned RF stage minimizes multiple tuning problems. Every channel from 14 to 83 comes in sharp and clear. Operates on ordinary flashlight battery. Easy to mount, install. Will convert any UHF channel to channel 5 or channel 6, whichever is unused in your area.

SPECIFICATIONS

INPUT CHANNELS: 14 through 83 continuously. **OUTPUT CHANNELS:** 5 or 6. **INPUT:** for 300 ohm balanced antenna. **OUTPUT:** to TV set (300 ohm balanced). **POWER:** 1.5 Volt "D" battery. **SIZE:** 6¾" w x 3" x 3¾" d. **SHIPPING WEIGHT:** 1¾ lbs. p.p. ins.

For WEAK SIGNAL AREAS. Most powerful and stable UHF converter ever engineered for the home. Drift and distortion-free performance. Pinpoints channels for best reception. Meets critical needs of good Color TV reception. Top flight performance on UHF channels 14-83, no signal inversion or distortion at high end of spectrum. Unparalleled reliability. Patented tuner, both rugged and reliable. Easy to install.

SPECIFICATIONS

INPUT CHANNELS: 14-83. **OUTPUT CHANNELS:** 5 or 6. **CONNECTORS:** 300 ohm stripless terminals. **POWER:** 117 VAC, 60 cycles; 0.1 amps. **SIZE:** HWD 3¾" x 6" x 3⅓". **COLOR:** Beige. **SHIPPING WEIGHT:** 1¾ lbs. p.p. ins.

\$31.20
Stock #11AD

CONAR ANNOUNCES a brand new line of



MODEL 400 3-Band Novice Transmitter

OUTSTANDING FEATURES

- Crystal Controlled
- 3 Bands — 80, 40, 15
- Pi-Network Output
- 3" Panel Meter
- 25 Watts Input
- Transformer Operated
- Crystal Protection
- Co Ax Output
- Compact —
Only 10" x 7½" x 6½"

25-WATT TRANSMITTER

The Conar Model 400, is housed in a compact 10" x 7½" x 6½" cabinet with smooth dark blue finish. Inside this attractive cabinet is a remarkable powerhouse capable of putting your signal around the world. Yet, it's so simple to build—so easy to tune—even an inexperienced builder can have this rig on the air after one evening's work.

The Model 400 operates with a power input of 25 watts on the three most popular novice bands... 80, 40, and 15 meters.

Handsome, functional 3" square panel meter tells at a glance how the transmitter is operating. Makes "tuning up" fast and simple.

Special variable-impedance current-limiting device in crystal oscillator circuit insures you of the cleanest, purest signal on any band, even 15 meters. At the same time, this device protects your valuable crystals from damage by high radio-frequency currents.

New power supply design is transformer operated, using a dual silicon rectifier to provide ripple-free dc for plate power. When the transmitter is turned off, an effective bleeder resistor regulates and discharges the high-voltage capacitors.

The Model 400 comes complete with code key. Crystals not included. Assembly manual tells you how to order crystals.

Transmitter Kit
Stock # 400UK

Only \$32.50

Assembled Stock # 400WT — \$46.50
Weight: 10 lbs. parcel post insured

BOTH KITS PLUS FREE

or both units assembled
plus manual for \$97.00

LOW-PRICED, TOP-QUALITY AMATEUR EQUIPMENT



**MODEL 500
3-Band Novice
Communications Receiver**

THREE BAND RECEIVER

Designed with the novice in mind, the new Conar Model 500 communications receiver is easy to build—easy to use, offering most features of receivers priced much higher. It's identical in size to the Conar Model 400 Transmitter. Both units together take up less than one square foot of desk space!

Circuit is a straightforward superheterodyne with TWO stage i-f amplification for the all-important gain needed to "dig down" for weak signals. An antenna trimmer lets you adjust the front end for peak reception on each of the three bands, 80, 40, and 15 meters. Each band stretches over nearly the full travel of the large tuning dial. They aren't cramped in a tiny space like many other receivers.

A separate, stable bfo provides clear reception of cw and ssb signals. I-F gain is variable for changing the receiver sensitivity for both weak and strong signals. Following the detector are two stages of audio amplification that will drive either the built-in loudspeaker or a set of headphones to full output.

The Model 500 is transformer operated for safety and uses an efficient semiconductor rectifier to supply power to the various circuits.

OUTSTANDING FEATURES

- 3 Bands — 80, 40, 15
- 2 I-F Stages
- Separate BFO
- 2 AUDIO STAGES
- Antenna Trimmer
- Receives AM, CW, SSB
- Transformer Operated
- Built-in Speaker
- Headphone Jack
- Variable I-F Gain
- Vernier Tuning

ARRL MANUAL for \$64.00



includes complete instructions
for getting Novice License.

Receiver Kit
Stock #500UK

Only \$37.50

Assembled Stock #500WT — \$56.50
Weight: 9 lbs. parcel post insured

vari-volt model 806 — speed control without power loss!



Designed for home workshop and light commercial applications. Controls speed of any universal AC/DC motor to $\frac{1}{3}$ HP and brightness of incandescent lights to 1000 watts. Gives you maximum efficiency from power tools. Use with a drill to drive screws at speeds down to 10 rpm. Use inexpensive drill bits without fear of burning on the first job. Set speed of belt sander or lathe to suit the job. Slow down jig or circular saw to prevent ripping fine woods. Use it with soldering iron to control heat for light or heavy work. And you can find countless other applications for Vari-Volt.

SPECIFICATIONS:

Power Source: 110-120V, 60 cycle

Capacity: 7 amp, 1000 watts, fused

Dimensions: $3\frac{1}{4}'' \times 5\frac{1}{2}'' \times 7\frac{1}{2}''$

Shipping Weight: 1 lb. 12 oz., parcel post insured

\$19.95 Stock #806WT

speedway-meteor- $\frac{3}{8}''$ capacity drill

Model 899



Speedway All New, UL Industrially Rated $\frac{3}{8}''$ Drill. Features the motor that won't burn out! Packs the extra speed and torque to power all accessories. Sturdy diecast aluminum alloy housings with gleaming high polish finish, all-steel precision hobbed gears, newly developed special alloy bearings throughout. Hi-torque, 2.5 amp 110v AC motor, UL-approved 3-conductor lead cord and precision geared chuck with key. Complete tool is UL Industrially Rated and CSA Approved.

SPECIFICATIONS:

Capacity in Steel: $\frac{3}{8}''$

Capacity in Wood: 1"

Ampere Rating: 2.5

No Load Speed: 1750 rpm

Full Load Speed: 1150 rpm

Overall Length: $8\frac{1}{4}''$

Net Weight: 4 lbs., parcel post insured.

\$13.40

Stock #899TO

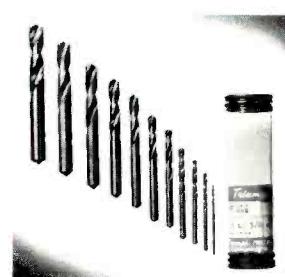
SHOPMATE Zip-Screw



The First and only electric screwdriver of its kind... specifically designed for use around the home. Drives #4 through #12 slotted and Phillips head. Excellent for light assembly work, building, repairing, etc. Instant on-off switch, reverse switch, complete with 6 ft. cord, two slotted head finders and one Phillips head bit.

**Stock #1895TO Shipping Weight: $3\frac{1}{4}$ lbs.
Parcel Post Insured**

List Price—\$34.95 CONAR Price — \$29.95



high speed drill kit

Eleven U.S. made, high speed drills in a wide assortment of sizes ranging from $\frac{1}{16}''$ to $\frac{3}{8}'' \times \frac{1}{32}''$ —most needed in the home or shop. Shipped in a handy plastic container. Manufacturer's list \$7.45. A real Conar value at:

\$5.20 Stock #T37TO, 1 lb. parcel post

technician's tool kit

Assortment of durable, professional tools for technicians, hobbyists. Would run over \$14.00 if bought individually. Includes general, phillips and small screwdrivers, long-nose and slip-joint pliers, diagonal cutters, $\frac{1}{4}$ " and $\frac{5}{16}$ " nut drivers, 8" file, keyhole saw, regular hex and duplex alignment tools. All sent in free roll-up carrying case.

\$10.95 Stock #15TO, 3 lbs. parcel post

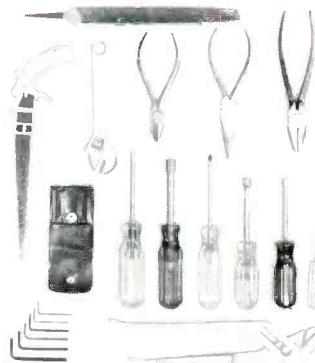


homeowner's tool kit

10 professional grade tools for every homeowner. Perfect for household repairs. You get 10" general purpose pliers, small and phillips screwdrivers, general screwdriver, 6 Allen wrenches, long-nose and side-cutting pliers, 6" adjustable end wrench, keyhole saw and 8" file.

Durable roll-up carrying case is included free — for protecting and storing tools.

\$14.95 Stock #16TO, 4 lbs. parcel post



speed-o-matic wire stripper

New, improved, faster wire stripper made by the GC Electronics Co. Fully automatic, it features new "Delayed Return Action" which prevents crushing of fine stranded wires. Sturdy and simple to use, the Speed-O-Matic has narrow grip handles for effortless operation. A handy tool to save time . . . for technicians, hobbyists, electricians.

\$5.94 Stock #766TO, 1 lb. parcel post



Xcelite nutdriver set

A new design idea by the famous Xcelite Inc. 10 color-coded, pocket size drivers, plus a "torque amplifier handle" that fits over driver handles. Special handle provides larger grip and gives you extra driving power. All packed in sturdy, see-through plastic case. Drivers just $3\frac{1}{2}$ " long. List price \$8.25

\$4.95 Stock #120TO, 1 lb. parcel post

CONAR recommended performance-proved soldering tools



weller expert soldering gun kit

Features the Weller 100/140 watt Dual Heat soldering gun, a high impact plastic utility case, and these accessories: 3 soldering tips, tip changing wrench, flux brush, soldering aid and all-purpose solder. "Triggermatic" control instantly selects high or low heat. Spotlight gives plenty of illumination.

\$6.48

Complete Kit

Stock #8200AC, 4 lbs. parcel post

\$4.48 Gun only. Stock #820TO, 3 lbs. 8 oz. parcel post



weller 240/325 watt soldering gun kit

A heavy-duty soldering gun with exclusive dual heat feature, twin spotlights, "Triggermatic" heat control. Gives you everything you need for hundreds of jobs. Kit includes solder, cutting tip, smoothing tip, tip interchange wrench—all in a handsome plastic case. Model D-550.

\$9.44

Complete Kit

Stock #550AC, 5 lbs. parcel post

\$7.87 Gun only. Stock #550TO, 4 lbs. parcel post



ungar soldering pencil kits

Low heat, light with small tips. Perfect for circuit board and transistor work. Choice of 2 kits. Senior Kit includes handle, cord, 47½, 37½ and 23½ watt elements, ten ¾" tips. Lists for \$9.25. Junior Kit has one 37½ watt element. Otherwise same as Sr. Kit. List price \$5.00. Conar's prices:

\$7.40 Sr. Kit Stock #S776TO, 1 lb. parcel post

\$3.98 Jr. Kit Stock #J776TO, 1 lb. parcel post



weller 145/210 watt soldering gun

High-heat rated heavy-duty Weller D-440 soldering gun features exclusive dual heat. Also has "Triggermatic" control and twin spotlights. Ideal for repairing jewelry, house wiring, etc.

\$7.22

Stock #440TO, 3 lbs. 8 oz. parcel post



weller "pencil" soldering iron

A complete lightweight soldering iron ready to use with ¼" tip and cord set. Perfect for miniature type soldering, kit building and the production line. Features interchangeable tips and readily replaceable parts, including heat element and cord.

\$3.77

Stock #25TO, 1 lb. parcel post



american beauty soldering iron

Dependable, quality iron with stainless steel casing, nickel-chrome element, cool wood handle. Nickel-plated, copper tip resists corrosion, easily replaceable. 30-watt element perfect for kit assembly, radio-TV wiring. Years of reliable service—even with constant use. Shipped with ¼" and ¾" tips, insulated stand. Conar saves you \$2.13 off list price.

\$5.47

Stock #3120TO, 1 lb. parcel post

CONAR replacement parts kits

CAREFULLY SELECTED ASSORTMENTS TO SAVE YOU DOLLARS AND TRIPS TO THE WHOLESALERS

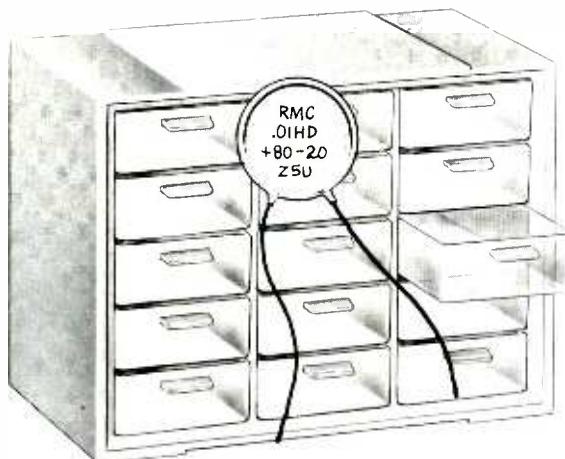


172-resistor assortment

Fresh, first quality, resistors for hobbyist, technician, engineer, experimenters packed in 15-drawer, styrene knick-knack cabinet. All are 10%, $\frac{1}{2}$ watt rated or better. 8 each (100 ohm, 1000 ohm, 4700 ohm, 10K ohm, 27K ohm, 47K ohm, 100K ohm, 220K ohm, 470K ohm, 1.0 meg, 3.3 meg, 2.2 meg, 10 meg); 4 each (47 ohm, 150 ohm, 220 ohm, 270 ohm, 470 ohm, 2200 ohm, 2700 ohm, 3300 ohm, 15K ohm, 18K ohm, 22K ohm, 33K ohm, 39K ohm, 68K ohm, 150K ohm, 220K ohm, 4.7 meg).

\$15.70

Stock #28UK, 4 lb. 2 oz. parcel post
Insured (\$38.35 value)



120-capacitor assortment

Top grade, capacitors — ceramics, disc and paper — all rated at 400V or 600V. Ceramic tubular — (5) 5 mmf, (10) 10 mmf, (5) 25 mmf, (5) 47 mmf, (5) 100 mmf, (5) 270 mmf, (5) 390 mmf, (5) 500 mmf. Disc type — (5) .001 mfd, (5) 3900 mmf, (15) .005 mfd, (15) .01 mfd. Paper type — (5) .01 mfd, (10) .05 mfd, (5) .1 mfd, (10) .25 mfd, (5) .5 mfd. Shipped in sturdy 15-drawer knick-knack cabinet.

\$20.70

Stock #29UK, 5 lb. 10 oz. parcel post
Insured (\$41.15 value)



radio-tv parts assortment

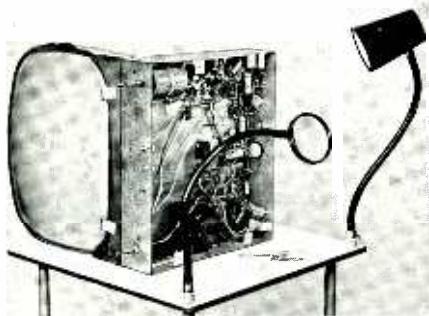
Most needed replacement parts carefully selected by experienced technicians. You get 6 volume controls, 4 switches, 8 control shafts, 2 selenium rectifiers, 100 resistor assortment, 25 capacitor assortment, 8 electrolytics, 10 pilot lamps, 2 univ. oscillator coils, 2 456kc i.f.s., 2 line cords, univ. AC-DC output trans., bakelite cement, speaker cement, service solvent, loopstick antenna, 12BA6 tube, 12BE6, (3) 35W4, (1) 12AT6, (1) 50C5. All parts shipped in heavy-duty steel tool box.

\$29.95

Stock #24UK, 12 lbs. parcel post
Insured (\$60.00 value)

CONAR

✓ lab-tested products



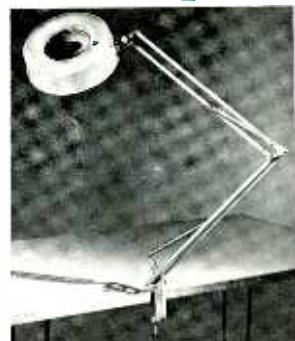
moffatt magnifier and lamp

Troubleshoot printed circuits, transistor sets without eyestrain. Mount them *anywhere!* Lamp has cool, burn-proof shade. Recessed bulb won't shine in eyes. Base rotates 360°. Magnifier has 2-power, ground lens (4" diam.) recessed for protection.

Both have rugged, heavy-duty, flexible 24" arms that won't vibrate out of position. One year warranty on *all* parts. One mounting button with each Lamp and Magnifier (both use same button). Extra buttons 20 cents each. Stock MLBGTO.

\$9.46 each

Magnifier Stock #MV24TO, 2 lb. 14 oz. parcel post
Lamp Stock #0624PTO, 3 lbs. 12 oz. parcel post
(Order Lamp and Magnifier together for \$18.50)



tech-lyte magnifier-lamp

Now—at a sensationaly low price, a two-in-one magnifier-lamp. Precision engineered with contemporary design, it has countless uses for home, industry, study, recreation. Large 5-inch lens and cool 22 watt fluorescent tube give complete magnification and illumination. Cleverly spring counter-balanced, the Tech-Lyte moves up, down, sideways—with a full 360 degree sweep and 45" reach. Shipped complete, including a 22 watt circular fluorescent tube.

\$28.88 Stock #400TO, 6 lbs. 12 oz. express

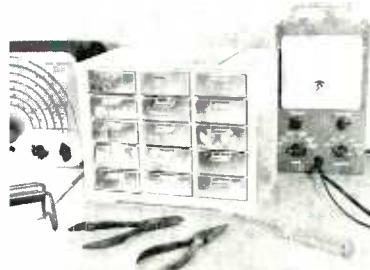


argos tube caddies

Two sizes to choose from. Junior Caddy (15 $\frac{3}{4}$ " x 12 $\frac{1}{2}$ " x 8") holds 143 tubes. Carry-All (21" x 15" x 8") holds 262 tubes. Both have space left for tools, etc. Center opening puts all compartments in easy reach. Sturdy $\frac{5}{8}$ " and $\frac{1}{4}$ " plywood, attractively covered with tough pyroxilin fabric. Durable stay hinges and fasteners support top sections securely open or closed.

\$9.95 Jr. Caddy Stock #2CY, 7 lbs. 4 oz. parcel post

\$13.95 Carry-All Caddy Stock #4CY, 12 lbs. parcel post



knickknack cabinet

Store and find small parts *fast!* Breakproof styrene cabinet has 15 transparent drawers with safety stops, removable dividers, bottom runners, index tabs. Order several for extra storage room. Cabinets can be stacked with interlocking effect. Each drawer 5 $\frac{3}{4}$ " long, 2 $\frac{5}{8}$ " wide, 1 $\frac{1}{8}$ " high.

\$2.99 Stock #15CY, 4 lbs. parcel post

terado

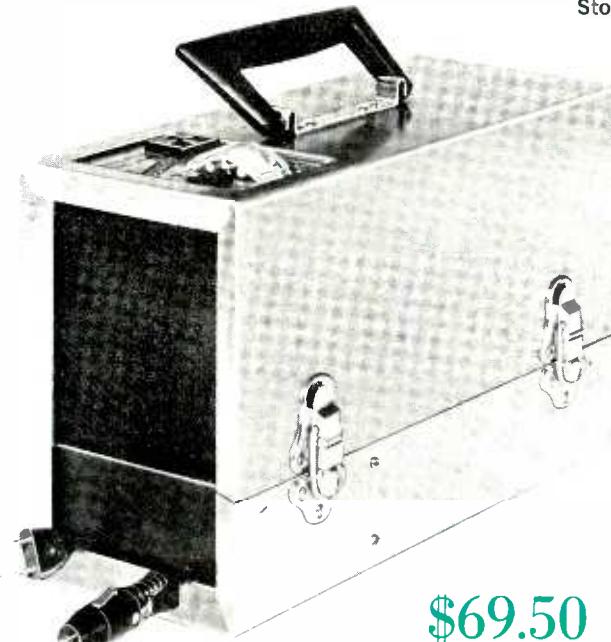
TRAV-ELECTRIC

PACKAGED SILENT ELECTRIC POWER!

self-contained power supply –
with battery and automatic recharger

Stock #160TO

CONAR Price — \$69.50



\$69.50

incandescent), tape recorders, portable television, test equipment, cash registers, electric hand tools, hedgeclippers, soldering irons, office machines and other electrical devices and appliances too numerous to mention. The frequency is maintained by the use of a tuning fork or reed and is kept accurate within $\frac{1}{2}$ cycle regardless of changing load. The device weighs but 29 lbs. complete with storage battery, charger, and inverter housed in a copper clad steel case with handle. It's ideal for campers, trailers, boats.

ELECTRICAL & MECHANICAL SPECIFICATIONS

OUTPUT: 117 Volt, 60 Cycle A.C.

FREQUENCY: Stable within $\frac{1}{2}$ cycle, with load change

CAPACITY: 125 Watts Continuous; 175 Watts, Intermittent

METER: Shows charge rate and hours of anticipated output

BATTERY: Rechargeable wet storage battery, 25 ampere capacity

CHARGER: Operates from A.C. receptacle capacity tapers automatically from 6 to 0 amps; will not overcharge battery

CASE: Heavy Gauge, Copper Clad Steel

DIMENSIONS: 12" x 5 $\frac{1}{2}$ " x 8"

WEIGHT: 30 lbs., including battery

SHIPPING WEIGHT: 36 lbs. Shipped express collect

Changes its low voltage, 12 volt storage battery, to household electricity. 175 watts of power without auxiliary engines or generators. A turn of the switch provides silent 117 volt electric power just like at home. It will operate lights (fluorescent or

Black & Decker® DRILLS



1/4" utility drill

Ideal basic drill. Features new hi-strength "Cycloc" handle with positive grip control. Reinforced cord protector, 3-conductor cable and plug, geared chuck and key, trigger switch with locking button. .14 HP, 115V AC only. Capacity: $\frac{1}{4}$ " in steel, $\frac{1}{2}$ " hardwood. 2250 rpm, 1.9 amps. Ship. Wt.—3 $\frac{1}{4}$ lbs.

New low price

\$9.88 Stock #100TO
parcel post ins.



3/8" utility drill

An extra capacity drill for big jobs. Equipped with double reduction gear system, pistol grip handle, trigger w/locking button, 3-conductor cable and plug for utmost safety. Drills $\frac{3}{8}$ " in steel or $\frac{3}{4}$ " hardwood. .17 hp, 115V ac, 1000 rpm, 2.2 amps. Ship. Wt.—3 $\frac{3}{4}$ lbs.

Regularly \$23.50, now

\$18.88 Stock #121TO
parcel post ins.

SILVER, COPPER, GOLD, ALUMINUM, ZINC, BRASS, BRONZE, IRON



transistorized metal locator kit

Sensitive, rugged and lightweight (just 2 lbs.), it accurately detects buried metal of any kind. The only metal locator kit on the market anywhere near the price. Many uses for jobs and hobbies. Find electrical or plumbing lines, coins, valuable relics. Not affected by salt water, it's perfect for searching along beaches. Locator comes equipped with standard general purpose search head. Optional small object and large object search heads give the locator greater detection strength for special jobs.

Sensitivity depends on depth of object. Small object search head detects 10 sq. inches of aluminum buried 1½ feet. Large object search head detects 20 sq. inches of aluminum at 5 feet. General purpose head finds 10 square inches at 2½ feet or 20 sq. inches of aluminum buried 2¾ feet. Built in under 3 hours. Simple to operate. Adjust tone pitch to low. Tone rises instantly as locator passes over metal. Up to 3000 hours use on 4 ordinary penlite cells. Shipped complete with manual, headphones and batteries—nothing else to buy.

\$49.50

Kit Stock #100TUK, 5 lbs. express. Assembled Stock #100WT—\$54.50 5 lbs. (General purpose search head included with #100TUK and #100WT)

\$9.50

Small Object Search Head (optional) Stock #1AC
7 oz.

\$21.50

Large Object Search Head (optional) Stock #2AC
2 lb. 8 oz.

draftette®

for ★ drafting ★ drawing
★ sketching ★ designing
★ layouts

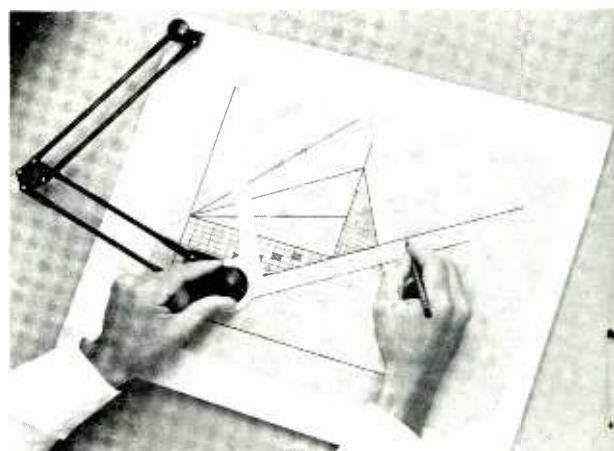
MOUNTED ON 16" BY 21" BOARD

At a price you can afford, DRAFETTE offers QUALITY, ECONOMY, PRECISION, RUGGEDNESS, VERSATILITY, EASE OF OPERATION AND EFFICIENCY in this all new, all-in-one compact Portable Drafting Machine.

Combines the features of a T-square, triangle and protractor into one self-contained unit that allows you to draw lines at any angle. Attaches to any board or pad of paper (less than ¼" thick) by means of an adjustable clamping device that leaves no marks. When not in use, the machine "jack-knifes" for easy storage in briefcase or desk, etc.

Completely assembled, factory tested, mounted on a 16" x 21" lightweight drafting board, ready for use with interchangeable one-piece aluminum 6" x 9" scale, 360° protractor, reading every 5 degrees. Scale calibrated in 16ths with ¼" and ⅛" carton. Drafting machine and board weighs only 2½ lbs. Shipping weight 4 lbs.

PORTABLE DRAFTING MACHINE



Shipped parcel post insured

Stock #9TO

CONAR Price — only **\$16.50**

TRANSISTOR RADIO SUNGLASSES



CONAR PRICE: Only

\$19.95

- Precision-made miniaturized transistor radio receives stations with amazing clarity and tone.
- Equipped with on-off switch, volume control, tuning dial and built-in invisible antenna.
- Easy operation, dependable performance.
- Miniature energy cell (battery) operates 80 to 160 hours. Replacement battery available at most camera stores and hearing aid centers.
- High quality ground lenses in well-made sturdy frame. Can be fitted with prescription lenses by any optometrist or oculist.
- Handsome protective plastic carrying case.

Stock #625EN, Shipping Wt. 1 lb.
Shipped: parcel post insured

NEW! VOICE LEVEL INDICATOR

Completely new, low-priced, compact measuring instrument for the deaf, the hard of hearing, teachers of speech and voice, parents and individuals.

The Model 330 Voice Level Indicator can be easily operated by anyone. No special skills or technical ability required. Instructions are clearly printed on the cabinet for calibrating the Model 330 to show:

- a. Average voice level; or
- b. Range of voice.

One simple control calibrates the Model 330 for either function.

Whether you need to estimate your own voice level—or need an objective evaluation of voice levels of others, the Model 330 can help you.

This highly accurate, scientifically designed instrument represents an important breakthrough in a low cost therapeutic device for the deaf, hard of hearing, schools, clinics, parents—or public speakers.



Specifications:

Overall Size: $3\frac{3}{4}'' \times 6\frac{1}{4}'' \times 2\frac{1}{2}''$
Meter: $3\frac{1}{2}'' \times 9\frac{1}{16}''$, double-jeweled D'Arsonval type
Case: Black bakelite
Panel: Brushed aluminum
Battery: Burgess Type 2U6 or Eveready Type 216 (obtainable anywhere)
Transistors: Sylvania 2N306
Microphone: Subminiature Electro-Voice, Model 718
Controls: Push-Pull On/Off switch, combined with sensitivity control
Weight: 1 lb., 5 oz.

Shipped: parcel post insured
Stock #330WT

CONAR PRICE: \$79.50

INTER-TECH Compact MULTIMETERS

All Models Are Backed by a Full Year Factory Guarantee!



\$32.95

(Complete with Test Leads and Ohmmeter batteries)

Model 4100

100,000 ohms per volt DC to 250V

20,000 ohms per volt DC on 500V and 1000V ranges

The ultimate in low-price, high quality multimeters. Full 100,000 ohms per volt DC to 250V. Mirrored-scale, easy to use. 10 Microampere movement is precision, close tolerance type, multiple-inspected for a lifetime of accuracy.

DC Voltage: 0-0.5-2.5-10-50-250-500-1000 Volts

AC Voltage: 0-2.5-10-50-250-1000 Volts

DC Current: 0-10 microamperes

0-11-25-250 milliamperes

0-10 Amperes

Decibels: -20 to +220B (2 ranges)

Resistance: 0-20,000-200,000 ohms

0-2-20 Megohms

(150 ohms C.S.)

Capacity and Inductance Scales: used in conjunction with the 10V AC range

Dimensions: 6 1/4" x 4 1/4" x 2 1/2"

Shipping Weight: 2 lbs. 3 oz. parcel post, ins.

Stock #4100WT



\$19.95

(complete with test leads and ohmmeter batteries)

**Model
430WT**

30,000 OHMS per VOLT DC
15,000 OHMS per VOLT AC

A mirrored-scale, laboratory-style, wide-range instrument. Features Single-Knob Range-Function Selector for maximum simplicity of operation. $\pm 2\%$ double-jeweled D'Arsonval I.T.I. movement... $\pm 1\%$ stabilized film resistors. Protected against overload by dual Silicon Diodes. Includes separate AC output jack.

DC Voltage: 0-0.6-3-12-60-300-600-1200-3000 Volts

DC Current: 0-30 μ A, 0-6-60-600 MA

AC Voltage: 0-6-30-120-300-1200 Volts

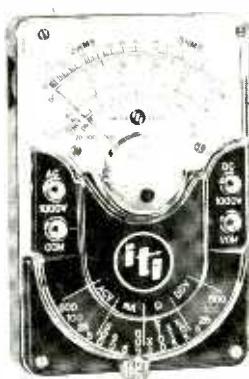
Db: -20 to +63 Db, (5 Ranges)

Resistance: 0-6000-600,000 Ohms, 0-6-60 Megohms (45 Ohms Center Scale)

Dimensions: 5 7/8" x 4" x 1 7/8"

Shipping weight: 2 lbs., parcel post, ins.

Stock #430WT



Model M-220 (complete with test leads and ohmmeter batteries)

20,000 OHMS per VOLT DC
10,000 OHMS per VOLT AC

The Technical man's personal shirt-pocket tester. Semi-circular Range Selector and wide-open scaleplate area has made this Sensitive Unit a long-time favorite. Double-jeweled precision-type D'Arsonval movement. Protected against overload with dual silicon Diodes.

DC Voltage: 0-5-25-100-500-1000 Volts

DC Current: 0-50 μ A, 0-5-50-500 Ma.

AC Voltage: 0-5-25-100-500-1000 Volts

Db: -20 to +62 Db, (5 Ranges)

Resistance: 0-6000-600,000 Ohms,

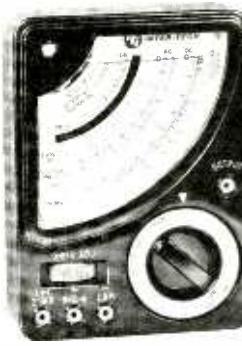
0-6-60 Megohms (30 Ohms Center Scale)

Dimensions: 4 5/8" x 3" x 1 1/4"

Shipping Weight: 1 lb. 8 oz. p.p., ins.

\$19.95 Stock #2220WT

Complete with test leads and ohmmeter batteries.



Model M-230 (complete with test leads and ohmmeter battery)

30,000 OHMS per VOLT DC
15,000 OHMS per VOLT AC

30,000 ohms per volt in a reliable pocket-sized Multimeter! Solid, rugged design. No compromise with quality in every instrument feature. Top-quality double-jeweled D'Arsonval I.T.I. $\pm 2\%$ movement. Mirrored Scale. Molded in gleaming black phenolic. Protected against overload with dual Silicon Diodes.

DC Voltage: 0-5-25-50-250-500-2500 Volts

DC Current: 0-50 μ A, 0-2.5-250 Ma.

AC Voltage: 0-10-50-100-500-1000 Volts

Db: -20 to +62 Db, (5 Ranges)

Resistance: 0-60,000 Ohms, 0-6

Megohms (430 Ohms Center Scale)

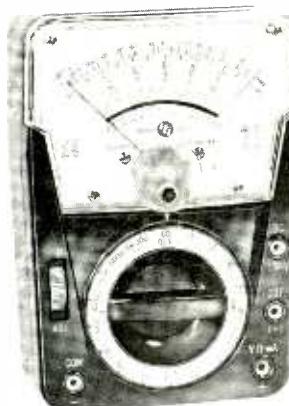
Dimensions: 4 1/2" x 3 1/4" x 1-3/32"

Shipping Weight: 1 lb. 8 oz. p.p., ins.

\$15.95 Stock #2230WT

Low in price, High in Quality

All Models Backed by a Full Year Factory Guarantee!



Complete with test leads and ohmmeter batteries.

Model M-330 (complete with test leads and ohmmeter battery)

30,000 OHMS per VOLT DC

15,000 OHMS per VOLT AC

A medium-compact 30,000 ohms/volt instrument with all the ranges expected of a full-sized professional Volt-Ohm-Milliammeter. *Mirrored Scale*. Double-jeweled D'Arsonval I.T.I. movement— $\pm 2\%$. *Protected* against overload with dual Silicon Diodes.

DC Voltage: 0-3-12-60-300-600-1200 Volts

DC Current: 0-30 μ A, 0-3-30-300 Ma.

AC Voltage: 0-6-30-120-300-1200 Volts

—20 to +63 Db. (5 Ranges)

Resistance: 0-16,000-160,000 Ohms

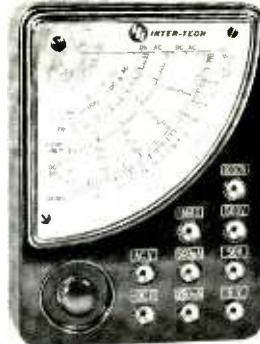
0-1.6-16 Megohms

(92 Ohms Center Scale)

Dimensions: 5 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ " x 1 $\frac{3}{8}$ "

Shipping Weight: 2 lbs., p.p., ins.

\$19.95 Stock #1330WT



Complete with test leads and ohmmeter batteries.

Model M-210 (complete with test leads and ohmmeter battery)

10,000 OHMS per VOLT, AC-DC

Pocket-sized, with wide-visibility Meter Scales. *Mirrored-Scale*. Features positive Jack-Plug range selection and 10,000 ohms per volt AC and DC sensitivity. $\pm 2\%$ double-jeweled movement.

DC Voltage: 0-5-50-500-1000 Volts

DC Current: 0-100 μ A, 0250 Ma.

AC Voltage: 0-5-50-500-1000 Volts

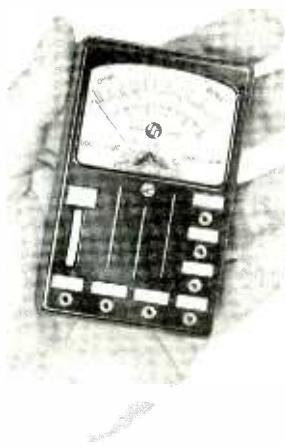
—20 to +62 Db. (4 Ranges)

Resistance: 0-4 Megohm (30,000 Ohms Center Scale)

Dimensions: 4 $\frac{1}{2}$ " x 3 $\frac{1}{4}$ " x 1 $\frac{1}{8}$ "

Shipping Weight: 1 lb. 4 oz., p.p., ins.

\$9.95 Stock #210WT



Complete with test leads and ohmmeter batteries.

Model M-101 (complete with test leads and ohmmeter battery)

1,000 OHMS per VOLT, AC-DC

An ultra-compact instrument featuring full size performance and EIGHT practical ranges. Doubled-jeweled $\pm 2\%$ I.T.I. Movement insures reliability and repeatability. $\pm 1\%$ stabilized resistors used throughout. Custom molded phenolic case.

DC Voltage: 0-15-150-1000 Volts

DC Current: 0-150 Ma.

AC Voltage: 0-15-150-1000 Volts

Resistance: 0-100,000 Ohms (2500 Ohms Center Scale)

Dimensions: 3 $\frac{1}{8}$ " x 2 $\frac{1}{4}$ " x 1"

Shipping Weight: 1 lb. 4 oz., p.p., ins.

\$5.95 Stock #101WT

Check these INTER-TECH quality design features:

- All meter movements are highly precise, close tolerance type, and are multiple tested for utmost accuracy. Twenty-one rigid factory inspections assure top performance.
- All multipliers and shunts are stabilized $\pm 1\%$ film type.
- Units marked "PROTECTED" have full Meter Movement protection against accidental or transient overloads.
- Mirrored scales permit maximum reading accuracy.
- All instruments custom-molded for professional appearance.
- All models Packaged-for-Protection in shock-proof custom-designed, vacuum-formed cases — complete with test leads and batteries.

American-made
top quality

Precision ground
and polished

1 Year Guarantee
against defects



Genuine Diamond Phonograph Needles MONAURAL

TRANSCRIBER NEEDLE NUMBER	FOR CARTRIDGES	TRANSCRIBER NEEDLE NUMBER	FOR CARTRIDGES
P-2	GENERAL ELECTRIC RPX Series (Individual Clip-In)	P-4	SONOTONE 2T; 5T; and 7T
P-2A	GENERAL ELECTRIC VR11; 4G-052-053-061- 063; 040-041 and 050 (Individual Clip-In)	P-5	SONOTONE 3T Series
P-3	RONETTE DT-60; RA-284 and 395; TO-200-222-284 and 400 MT-67-2 Series	P-6	SHURE M1-44 Series; PC-2-3- 4-6-7; W-9; WC-6 and 10 Series ADMIRAL 409A301; 409B20; and 409B21
P-3A	RONETTE TC-500		MAGNAVOX 560177; 560188; 560188-1; 560192; and 560207-1

STEREO

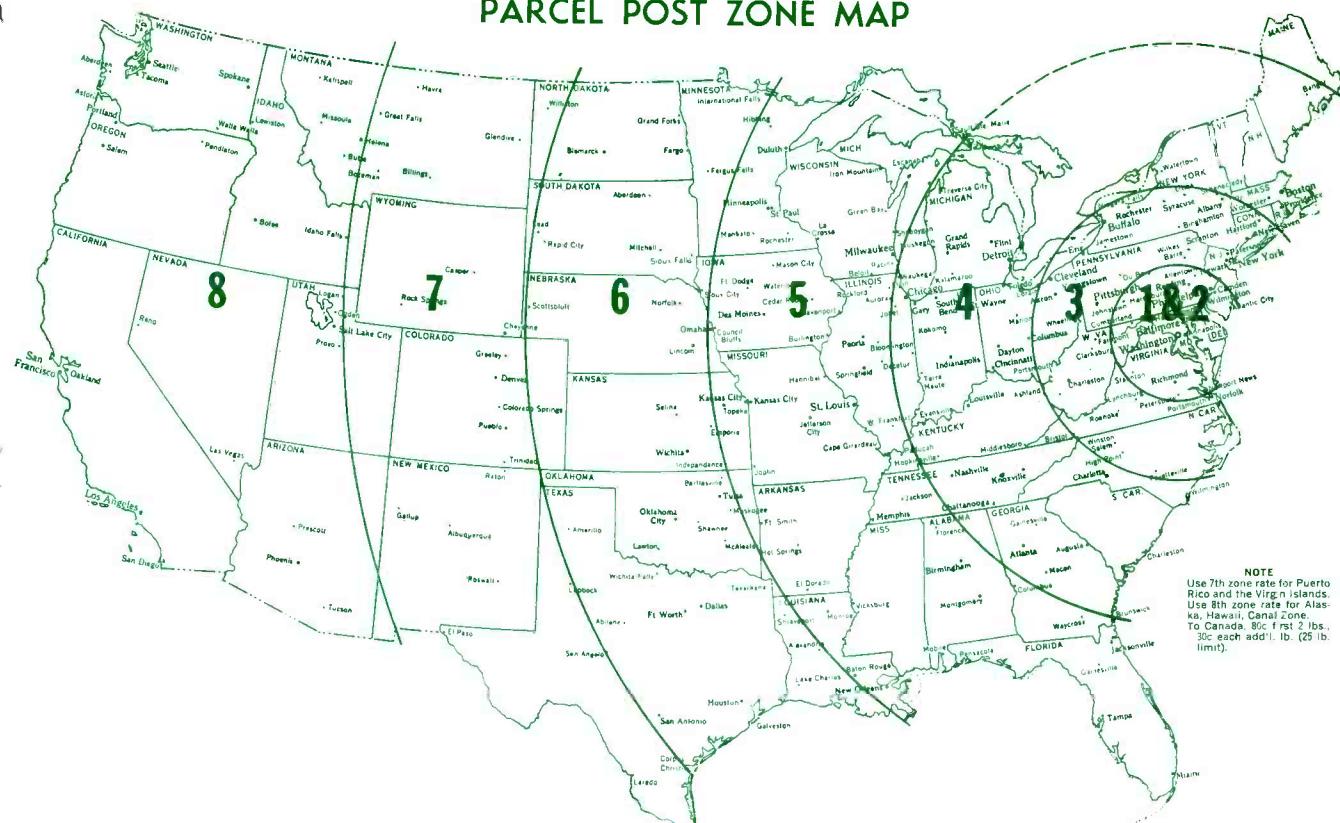
TRANSCRIBER NEEDLE NUMBER	FOR CARTRIDGES	TRANSCRIBER NEEDLE NUMBER	FOR CARTRIDGES
PS-2	RONETTE BF-40-4; DC-500; T-1	PS-29	SONOTONE 16-T
PS-54	SONOTONE 9T; 16T; 18T	PS-38	GENERAL ELECTRIC C-100
PS-5	ELECTRO-VOICE 21 and 26 Series		
PS-8	BSR BSR-TC-85; TC-8R TC-8G		
PS-10	SONOTONE 8TA		
PS-11	VACO ST-20; ST-40; ST-100; ST-200 and TO-45		

Any diamond needle on this page

\$1.65

(Please order by Transcriber number and
add 15c postage)

PARCEL POST ZONE MAP



NOTE
Use 7th zone rate for Puerto Rico and the Virgin Islands.
Use 8th zone rate for Alaska, Hawaii, Canal Zone,
To Canada 80¢ first 2 lbs.,
30¢ each add'l. lb. (25 lb.
limit).

it's easy to order from **CONAR**

HOW TO ORDER

Cash Orders: Use CONAR order form, your own stationery, or purchase order forms. Please show our stock number, quantity and name of item(s). On items marked "parcel post", add postage and insurance charges to total amount of you order.

HOW TO SEND MONEY

The best way to send money is by bank draft, check or money order. Avoid sending cash but if necessary, be safe and register your letter. Please do not send stamps. For rush handling you may telegraph your order and remittance. However, in routine handling, cash orders are filled in less than 24 hours (except over week-ends and holidays).

HOW TO ESTIMATE PARCEL POST CHARGES

Up to 16 ounces, all zones, allow 2c per ounce, 4c minimum.

The post office charges a fraction of a pound as a full pound. For example, if the total weight is 5 pounds and 1 ounce to Zone 4, postage would be for 6 pounds (70c).

WEIGHT, 1 pound and not exceeding	Zones							
	Local	1 and 2	3	4	5	6	7	8
2	\$0.29	\$0.40	\$0.42	\$0.46	\$0.52	\$0.59	\$0.66	\$0.72
3	.31	.46	.49	.55	.64	.73	.83	.93
4	.33	.51	.55	.64	.75	.88	1.01	1.13
5	.35	.57	.62	.72	.87	1.02	1.18	1.34
6	.37	.62	.68	.80	.97	1.15	1.34	1.53
7	.39	.68	.75	.88	1.07	1.28	1.50	1.73
8	.41	.73	.81	.95	1.18	1.41	1.66	1.92
9	.43	.78	.87	1.03	1.28	1.53	1.82	2.12
10	.45	.83	.93	1.10	1.38	1.66	1.98	2.31
11	.47	.88	1.00	1.18	1.48	1.78	2.14	2.48
12	.49	.93	1.06	1.26	1.58	1.90	2.29	2.66
13	.51	.98	1.12	1.33	1.69	2.02	2.44	2.83
14	.53	1.03	1.18	1.41	1.79	2.14	2.60	3.01
15	.55	1.08	1.24	1.48	1.89	2.25	2.75	3.18
16	.57	1.13	1.30	1.56	1.99	2.37	2.90	3.36

Canadian: 80¢ first two pounds, 30¢ each additional pound, 25 pound limit.

METHOD OF SHIPMENT

The method of shipment is shown next to the price of each item described in this catalog. For those marked "parcel post", use map and chart on this page to compute postage charges to your zone. Insurance rates are given below.

Up to \$10.00.....10c
\$10.00 to \$50.00....20c

\$50.01 to \$100.00....30c
\$100.01 to \$200.00...40c

Items marked "Express Charges Collect" require special handling. We recommend shipment via Railway Express and cannot assume responsibility for damage or loss if shipped by any other method. Please do not remit Express charges with your order. These charges will be collected on delivery.

EVERY ITEM YOU BUY FROM CONAR MUST SATISFY IN EVERY WAY -- OR RETURN IT TO US FOR EXCHANGE, REPAIR, OR REFUND. YOUR COMPLETE SATISFACTION IS GUARANTEED.

our guarantee to you

Conar guarantees *you* can build any kit in this catalog. Further, all kits assembled according to instructions will equal or surpass stated performance specifications.

Conar guarantees to refund the full amount paid for any item returned *within 30 days* after receipt. (No quibbling, no questions asked, no explanation required.)

Conar guarantees all Conar products against factory defects for a period of *one full year*. Any part or component that becomes defective, and such defect is not the result of accidental damage or improper use, will be replaced when returned to Conar.

Conar guarantees to render prompt, efficient repair service if ever needed plus *free* consultation service on all Conar products.

CONAR

SEE
FOR
YOUR
SELF

how easy
it is
to build
any Conar
kit . . .
send \$1.00
for complete
assembly
instructions
on the kit
of your choice.
The \$1.00
will be
credited to
your future
order.