

'68 EICO CATALOG

The Newest and Best Values in "Do-it-yourself" Electronic Kits and Factory Assembled Instruments. Test Equipment Cortina® Stereo Hi-Fi Truvohm® Multimeters Citizen's Band 2-Way Radios Amateur Radio Gear Eicocraft® Hobbykits Automotive Electronics Visutronic® Educational Training Aids.

23 Years of Leadership in Creative Electronics **EICO**®



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EICO BUILDING: Houses EICO's offices, research and engineering laboratories, and manufacturing and warehousing facilities.



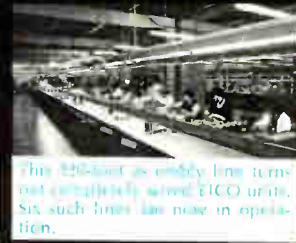
Design Department provides the original design concepts and modern styling which distinguishes all EICO equipment.



Engineering Department is responsible for developing EICO's expanded line of test instruments and other products.



Quality Control Department inspects incoming components to assure the highest quality of all EICO products.



This 22-foot assembly line turns out completely wired EICO units. Six such lines are now in operation.

EICO — LEADER IN KIT DESIGN

For over 23 years, EICO has been designing and manufacturing electronic products and is now the world's largest producer of electronic kits and factory wired equipment marketed exclusively through dealers and distributors throughout the world.

Whatever your electronics interest, there's a wide range of versatile, professional EICO products for you to choose from, and each designed to provide you with the most pleasure and quality performance for your money. New modern solid-state designs and veteran "tube type" favorites . . . in stereo hi-fi, Citizens Band Radio, Amateur Radio, and in test instruments for home, shop, factory, laboratory and school.

The fact that more than 3 million EICO products are in use throughout the world attests to their quality and performance. EICO kits are so popular because they represent the best value and are available for inspection and immediate over-the-counter delivery at more than 2500 EICO dealers and distributors.

To build an EICO kit, you need only follow the simple and clearly presented step-by-step assembly and wiring procedures furnished with every EICO kit.

EICO uses only the best available components. All EICO kits, before being offered for sale, are beginner-tested to insure that construction procedures are clear, and easily performed.

We invite you to look through these pages and then come to your local EICO dealer to look over your selection before you buy.

EICO pioneers the "KITS FOR THE MILLIONS"

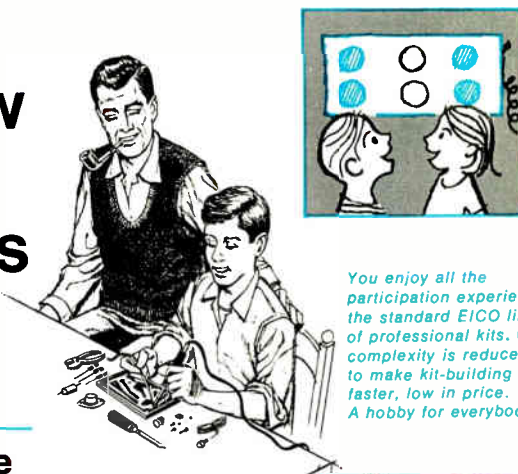
Now everybody can enjoy building electronic kits.



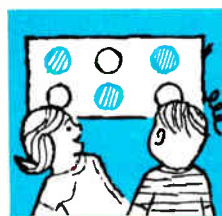
With this wireless Mike (AM or FM) you can broadcast through any AM or FM tuner or home/car radio.

**You can build
18 exciting new
EICOCRAFT
Solid-State Kits
in 1½-2 hours
each.**

**No technical experience
needed. Creative fun
for every member
of the family.**



You enjoy all the participation experiences of the standard EICO line of professional kits. Only the complexity is reduced to make kit-building easier, faster, low in price. A hobby for everybody.



EICOCRAFT is a new exclusive original concept and product line designed and manufactured by EICO expressly for the purpose of introducing people of all ages to the exciting world of electronic kits.

If you — or a relative or friend — ever thought that kit building was expensive, or difficult, or a pleasurable activity reserved only for the experts — now for as little as \$2.50 for an EICOCRAFT MODEL EC-1000 can change your mind.

If you can follow simple step-by-step instructions, you can enter into the fascinating, rewarding world of electronic kit building.

You need no technical knowledge or experience to enjoy all the creative fun of building with your own hands a wide variety of fine professional electronic devices.

EICOCRAFT are true electronic kits

They are every bit as professional in quality, performance and opportunity for participation by the builder as the 20-year famous EICO line of kits for stereo, hi-fi, CB, ham gear and test instruments. Only the complexity has been reduced to make kit-building faster, easier and less expensive. You don't miss out on any ingredient of the self-expressive fun of building electronic kits. You get: Modern all solid-state circuitry ■ Pre-drilled copper-plated etched printed circuit boards ■ The finest quality parts ■ Easy comprehensive step-by-step instructions. No technical knowledge or experience necessary.

For the educator: Easy, fast, educational, useful — and low-cost.
For the sophisticate: Convenient relaxing projects that are both "jiffy" and 100% professional. Many projects are "expandable" by adding kits together — your imagination is the only limitation.

18 EICOCRAFT kits to enjoy — from \$2.50 to \$9.95.

EC-100 Electronic Siren Kit, \$4.95 Powerful 3-transistor battery-operated alarm; emits a penetrating wail.

EC-101 Electronic Burglar Alarm Kit, \$6.95 Powerful 3-transistor 6-volt battery-operated alarm; excellent warning device against intruders.

EC-102 Electronic Fire Alarm Kit, \$6.95 Thermosensor trips at about 135°F — activates powerful 3-transistor 6-volt battery-operated fire alarm.

EC-200 Electronic Intercom Kit, \$5.95 Rugged 2-transistor battery-operated master intercom station for a 2-way communication system.

EC-300 Audio Power Amplifier Kit, \$5.95 High quality battery-operated 3-transistor general purpose 2 watt audio amplifier.

EC-400 Electronic Metronome Kit, \$3.95 Adjustable, 2-transistor precision battery-operated Metronome.

EC-500 Tremolo Kit, \$9.95 Reliable 3-transistor battery-operated Tremolo for guitar and other musical instruments.

EC-600 Electronic Light Flasher Kit, \$3.95 Rugged 2-transistor battery-operated "multivibrator" or "flip-flop" circuit.

EC-700 Electronic "Mystifier" Kit, \$4.95 Amazing relaxation oscillator battery-operated set of 6 blinking lights. Only you can control its random or geometric sequence of blinks.

EC-800 Photo Cell Nite Lite Kit, \$4.95 Sensitive battery-operated photocell with a 2-transistor high-gain amplifier/switch for adjustable sensitivity.

EC-900 Power Supply Kit, \$8.95 Reliable transformer-operated high current, transistor regulated, 6-volt DC output Power Supply with full-wave rectifier silicon diodes.

EC-1000 Electronic Code Oscillator Kit, \$2.50 Rugged 2-transistor battery-operated code practice oscillator producing strong, sharp tones.

EC-1100 FM Wireless Mike \$9.95 Easily concealed pocket-size FM transmitter broadcasts voice, music and any audio thru any standard FM radio without interconnecting wires.

EC-1200 AM Wireless Mike \$9.95 Easily concealed pocket-size AM transmitter broadcasts voice, music and any audio thru any standard AM radio without interconnecting wires.

EC-1300 Electronic VOX (Voice-Operated Switch) \$8.95 Battery-operated, transistorized amplifier & relay provides variable time delay & audio control of remotely operated devices.

EC-1400 Solid-State FM Radio (Broadcast Band) \$9.95 Battery-operated, transistorized, TUNEABLE. Use as personal radio (earphone supplied); FM tuner; wireless intercom.

EC-1500 Solid-State AM Radio (Broadcast Band) \$8.95 Battery-operated, transistorized, TUNEABLE. Use as personal radio (earphone supplied); AM tuner; wireless intercom.

EC-1600 Solid-State Bongos \$7.95 Battery-operated, transistorized 2 "ringing" oscillators plus preamplifier electronically reproduce percussive sounds of bongos, tom-toms, etc. when touch plates are tapped.



**HIGH FIDELITY
AUTHORITIES AGREE:**
Cortina's engineering excellence, 100% capability, and compact dramatic esthetics all add up to **TOTAL STEREO PERFORMANCE** at lowest cost.

**POPULAR SCIENCE
Magazine Says:**
"The EICO Cortina Series are low-cost audio components that look and sound like high cost components"

HIRSCH-HOUCK LABS Says:
"We can't think of a better value in High Fidelity Amplifiers."

**ELECTRONICS WORLD
Magazine Says:**
"Its quality (Cortina 3200) was indistinguishable from that of several far more expensive tuners, and it pulled in a full complement of stations with quiet backgrounds, low distortion, and non-critical tuning.

"cortina" The Industry's lowest



EICO "Cortina" 3070 All Silicon Solid State 70 Watt Stereo Amplifier

Versatile Enough For The Audophile, Simple Enough For The Beginner!

- Powerful new silicon solid state stereo amplifier at an exceptionally low price.
- Extremely compact "low silhouette" design ideally suited for bookshelf or cabinet installations. ■ Price includes vinyl clad danish walnut cabinet.
- Full complement of controls for every source.

Kit \$99.95
Wired \$139.95



Driver PC Board.

Phono Input Amplifier PC Board.

Preamplifier PC Board.

Miniature Rocker Switches - custom molded to enhance the low, modern "Cortina" Design

The amplifier that has changed people's thinking about what quality stereo prices should be. Here is the natural transparency of transistor sound; 70-watts of reserve power for easy, smooth handling of transient bursts of power; the ruggedness and long life of all-silicon solid-state; completeness of control and amplification; a new compactness clothed in a styling of quiet, graceful luxury - in a word, **total performance** - all at a price unheard of until now.

- Cool-running, hum-free, non-microphonic **all-silicon** solid-state design. 18 all-silicon transistors plus 12 all-silicon rectifiers.
- New bookshelf compactness (3 1/8" high, 12" wide, 7 3/4" deep). Esthetically striking design in Danish walnut vinyl cabinet and pale gold front panel in a graceful "low silhouette" configuration.
- Complete control facilities: tape monitor, loudness contour, low and high cut filters, balance control, and speaker systems switch.
- Wide dynamic range undistorted amplification with exceptionally low noise, and maximum freedom from overload.
- 70 watts and 50 watts IHF Music Power with 4 or 8 ohm speakers, respectively.
- Preservation of natural sound: low distortion, variable

inflection feedback tone controls (in Baxandall circuit configuration) permit cut or boost at the extremes of the range without affecting the mid-range or volume level.

- Perfect, natural filter action: low and high cut filters wholly independent of the tone control action provide controlled amounts of attenuation at the low and high ends of the spectrum for most effective rumble and scratch elimination.
- No output or interstage transformers: this permits the wide frequency range power amplifiers and their complementary drivers to deliver unrestricted bass response and perfectly controlled transient response.
- Elimination of transistor failure is assured by the excellence of the rugged silicon transistors and the built-in stability inherent in the very design of the output stages. Protective circuits with their unavoidable attendant compromise of circuit performance, are therefore unnecessary.
- Simplified Kit Assembly: through advanced techniques in modular circuitry each channel uses three etched printed circuit bonded module boards each for phono amplifier; tone control/preamplifier; and driver. Only the output transistors are mounted directly on the chassis. The result is a new high in flexibility and interchangeability.

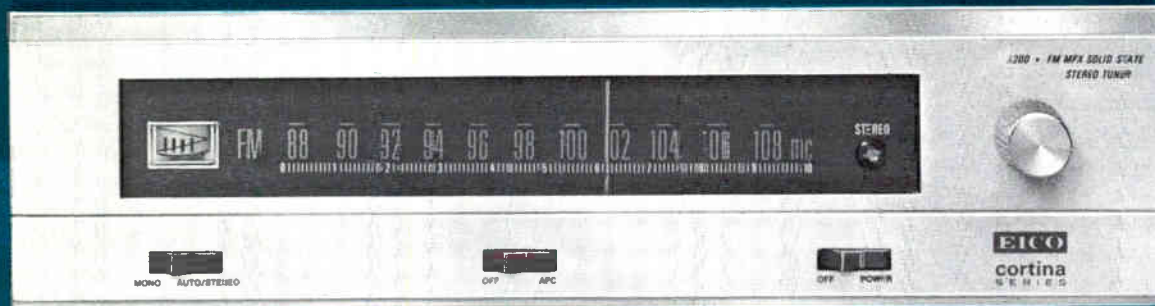
SPECIFICATIONS

TOTAL MUSIC POWER: 70W into 4Ω load; 50W into 8Ω load. FREQUENCY RESPONSE: ±1.5db 5Hz to 100kHz; ±0.5db 8Hz to 60kHz. HARMONIC DISTORTION: less than 0.8%. HUM & NOISE: 72db below rated output. CHANNEL SEPARATION: 50db. INPUT SENSITIVITY: 4.2mV on magnetic phono input; 270mV on other inputs. POWER BANDWIDTH: 10Hz to 40kHz. DAMPING FACTOR WITH 8Ω LOAD: minimum 30. RISE TIME: 4usec. TONE CONTROLS ACTIONS: treble control ±15db at 10kHz; bass control ±15db at 50Hz; low (rumble) filter -6db at 50Hz; high (scratch) filter -7db at 10kHz. RANGE OF BALANCE CONTROL: 23db. RIAA EQUALIZATION: ±0.5db 30Hz to 15kHz. RMS OUTPUT POWER: 40W into 4Ω; 30W into 8Ω; 16W into 16Ω (total continuous). IM DISTORTION WITH 8Ω LOAD: less than 2% at full power, less than 1% at 8W per channel. INPUT IMPEDANCE: 47KΩ on magnetic phono input; 110KΩ minimum on other inputs. INPUTS: magnetic phono, tuner, tape, auxiliary. OUTPUTS: a) Two stereo speaker systems with impedances of 4Ω, 8Ω or 16Ω; b) Tape recorder output (not affected by controls setting); c) Stereo headphones jack on front panel for all low impedance headphones (protective resistance is provided internally in the amplifier). POWER REQUIREMENTS: 20W no signal at 105-130 VAC; 75W at full output (100W with 4Ω loads.) AC RECEPTACLES: one switched, one unswitched. SIZE (HWD): 3 1/8" x 12" x 7 3/4". WEIGHT: 7 1/2 lbs.

★ Export Model available

UL APPROVED

priced TOTAL PERFORMANCE STEREO



EICO "Cortina" 3200 All Solid State FM/MPX Automatic Stereo Tuner

A Low Cost Stereo Tuner With Advanced Features For Superb Performance!

- An outstanding new solid state FM Stereo Tuner value!
- Perfect companion to Cortina 3070 Stereo Amplifier.
- Price includes vinyl clad danish walnut cabinet.
- Preassembled front end, multiplex, IF's.

Kit \$99.95

 Wired \$139.95

Here's the mind-changer in stereo tuners. The quiet, crystal-clear transparency of all-transistor design; latest wideband circuitry for maximum sensitivity, selectivity, separation and stability; filtered outputs for direct beat-free "off-the-air" tape recording; completeness of operating features; Cortina styling that delights the eye; and versatility of installation—everything you want in a quality stereo tuner, at a price considered unbelievable until EICO did it.

Risk-free Simplified Kit Assembly: Since the RF, IF and Multiplex circuitry are all supplied completely assembled and pre-aligned — the kit-builder does not build or adjust any part of these critical circuits. Only the non-critical power supply circuits are to be wired by the kit builder. You need no special skills or knowledge to build this beautiful kit.

- All-Solid-State Circuitry. The semiconductor complement comprises 13 transistors, 8 diodes, 2 rectifiers.
- Comprehensive Multi-Stage Front Ends. As found in tuners costing \$200 and more, the Cortina 3-transistor front end contains 2 RF stages and 5 tuned circuits. All this is coupled to a 4-stage double-tuned IF circuit. The result is excellent tuner performance and reliability; high sensitivity (2.4uV for 30db quieting-IHF Standard); and excellent rejection of all interference, such as image, IF and spurious, with no overloading. A strong local signal will not "blanket" the dial, so you won't

need either 2 sets of antenna terminals for "local, strong" or "distant, weak" stations, or an antenna switch.

- New automatic time-switching transistor multiplex circuitry achieves excellence of channel separation (40db) and completely filters out all types of interference.
- Noiseless, purely electronic automatic switching between FM Stereo and FM Mono is controlled by the pilot frequency in the broadcast signal; with defeat switch.
- Manual mono-stereo switching does not disturb performance of the stereo indicator indicating stereo stations regardless of the position of the switch.
- D'Arsonval tuning meter gives exact tuning indication — because it responds to the strength of the received signal.
- Exactly right AFC pull-in range permits you to tune in stereo stations with ease and then defeat; can be defeated for tuning in the weakest stations.
- Driftless performance; once tuned in to the station you want, the 3200 stays precisely tuned without AFC.
- Transformer-operated power supply with silicon diode rectifiers for heat-free long life.
- Low output impedance output stages prevent cable losses.
- New bookshelf compactness (3 1/8" high, 12" wide, 7 3/4" deep). Esthetically striking design in Danish walnut vinyl cabinet and pale gold front panel in a graceful "low silhouette" configuration.

SPECIFICATIONS

USABLE SENSITIVITY IHF: 2.4uV for 30db quieting. CHANNEL SEPARATION: 40db at 1kHz. HARMONIC DISTORTION: less than 0.75%. CAPTURE RATIO: 4.5db. SIGNAL-TO-NOISE RATIO: 60db. IMAGE REJECTION: 45db. IF REJECTION: 80db. SPURIOUS RESPONSE REJECTION: 80db. SELECTIVITY: 45db. FULL LIMITING: 4uV. 19KC SUPPRESSION: 40db. 38KC SUPPRESSION: 50db. SCA SUPPRESSION: 50db. AUDIO FREQUENCY RESPONSE: ±1db 20Hz to 15kHz. AM SUPPRESSION: 40db. HUM: 70db below output. OUTPUT IMPEDANCE: 5000 ohms. ANTENNA INPUT: 300Ω balanced. SEMICONDUCTOR COMPLEMENT: 13 transistors, 8 diodes, 2 rectifiers. POWER REQUIREMENT: 5W maximum 105-130 VAC. SIZE (HWD): 3 1/8" x 12" x 7 3/4". WGT. 7 lbs.

★ Export Model available



FM Stereo Indicator
lights automatically
on stereo broadcast



Prewired, prealigned
MPX circuit board



Prewired, prealigned
4-stage FM IF strip



Prewired, prealigned
FM RF "Front-End"

NEW!



EICO "Cortina" 3570 All Solid State 70 Watt FM Stereo Receiver

Enjoy Famous EICO Quality & Performance at a New Low Price
with this "EASY-TO-ASSEMBLE" KIT!

- EICO's new powerful Solid State Receiver
- Silicon Transistor Output and Driver Stages
- Outstanding Stereo FM performance in any signal area
- Pre-assembled and pre-aligned RF, IF and MPX sections

Kit \$169.95

Wired \$259.95

Price includes vinyl clad danish walnut cabinet.

The Cortina design philosophy – total solid state stereo performance at lowest cost – is nowhere more beautifully expressed than in the new 3570 Stereo Receiver.

While exhibiting all the virtues of the Cortina 3070 full-capability Stereo Amplifier and the Cortina 3200 precision Stereo FM Tuner, the Receiver is far more than an additive summary of the two.

EICO engineers have designed-in extra margins of safety by means of extra-rugged parts. The tuner and amplifier are each laid out side by side, neatly and spaciously, even to the extent that each is given its own separate power transformer! You'll look a long time until you find a receiver wherein this is done!

Just as the Cortina Stereo Tuner and Stereo Amplifier are the mind changers in their respective classes, we unhesitatingly say to you: Compare the new 3570 with any expensive receiver. Look at the esthetics, the controls, the circuitry. You be the judge as to who gives you the most for your money.

THE RECEIVER AS A KIT IS EASY TO BUILD

The FM Tuner section has RF, IF and Multiplex sections all pre-assembled and pre-aligned – you build only the power supply. The amplifier goes together easily on its several printed circuit boards.

THE FM TUNER SECTION

- 13 transistors, 8 diodes and 2 rectifiers are employed in advanced solid state circuitry for maximum performance.
- The Front End comprises 2 RF stages and 5 tuned circuits for high selectivity and sensitivity, coupled to the 4-stage double-tuned IF for high reliability and excellent interference rejection.
- Both strong local stations and weak distant stations are handled with equal ease and without need for an antenna switch or 2 sets of antenna terminals.
- Channel Separation is excellent, achieved by new automatic time-switching transistor multiplex circuitry.
- Automatic Electronic Switching between FM Stereo and FM Mono is controlled by the pilot frequency in the broadcast signal; a defeat switch is included.

■ Exact Tuning Indication results from having the sensitive D'Arsonval tuning meter respond to the strength of the received FM signal.

■ Automatic Frequency Control permits easy tuning; a defeat switch is included for tuning the very weakest stations.

■ High-Reliability Power Supply is transformer-operated, utilizing long-life silicon diodes.

THE 70-WATT STEREO AMPLIFIER SECTION

■ Total Capability of both control and amplification in a modern all silicon solid state design.

■ 18 silicon transistors and 12 silicon rectifiers provide high reliability – cool, hum-free, non-microphonic operation.

■ Total Control Facilities: tape monitor, loudness contour, low and high cut filters, balance control, and speaker systems switch.

■ Plenty of Power: 70 watts and 50 watts IHF power respectively with 4-ohm or 8-ohm speakers.

■ Baxandall Tone Control Circuits assure full cuts and boosts without disturbing the mid-range.

■ Low and high Cut Filters are independent of the tone controls and effectively eliminate rumble and scratch.

■ Unrestricted Bass Response and Transient Response is assured by elimination of inherently less responsive output transformers.

■ Transistor Failure is prevented by the exceptionally stable design and the ruggedness of the silicon transistors themselves.

SPECIFICATIONS

AMPLIFIER/PREAMPLIFIER SECTION – same as Cortina 3070 All Silicon Solid State 70-Watt Stereo Amplifier.

FM-MPX TUNER SECTION – same as Cortina 3200 Solid State FM Stereo Tuner.

SIZE (HWD): 4 1/8" x 16" x 9". WEIGHT: 14 lbs.

★ Export Model available

YOUR DOLLAR BUYS MORE WITH EICO STEREO/HI-FI



Kit \$39.95 : Wired \$59.95
: Includes metal cover

EICO HF12A 18 WATT MONO AMPLIFIER

The HF12A is a true high fidelity 18-watt integrated amplifier. It provides complete "pre-amplifier" facilities plus power amplifier. Performance is of such excellence that we recommend it unreservedly for any medium-power high fidelity application. Inputs for mag, phono, tape head, tuner, tape recorder.

SPECIFICATIONS

RATED OUTPUT: 14 watts continuous, 25 watts peak. 1M Distortion (60 and 6000 cps at 4:1): 2% at 14W; 0.55% at 6W; 0.3% at 4W. Frequency Response: 1W: ± 0.5 db 12 cps-75 kc; 12W: ± 0.5 db 25 cps-20 kc. Harmonic Distortion: 20 cps: 2% at 4.2W; $\frac{1}{2}$ % at 2.5W; 30 cps: 2% at 11W; $\frac{1}{2}$ % at 6.3W; 40 cps: 1% at 12W; $\frac{1}{2}$ % at 9.3W; 2000 cps: $\frac{1}{2}$ % at 12W; 10 kc; 1% at 10W; $\frac{1}{2}$ % at 6W. Hum and Noise Level (below 12W): mag. phono -60 db; tape head-50 db; tuner, auxiliary-75 db. Tubes: 3-ECC83/12AX7, 2-EL84, 1-EZ81. Power Requirements: 117V, 60 cps; 70 watts drain. Size (HWD) $3\frac{3}{8}$ " x 12" x 8 $\frac{1}{4}$ " Weight: 13 lbs.

★ Export Model available



Kit \$39.95 : Wired \$64.95
: Metal Cover E3A: \$3.95

EICO HFT90A FM TUNER

The most popular FM tuner kit ever made! Features include a pre-wired, pre-aligned RF section, pre-aligned IF transformers, slide-rule dial with effortless flywheel tuning, and travelling tuning eye indicator (eye-tronic® tuning). Also important are stabilized low limiting threshold for excellent performance from weaker signals, and broadband ratio detector for easier tuning. Output for connection to Eico MX99FM MULTIPLEX ADAPTOR.

SPECIFICATIONS

SENSITIVITY: 1.5 μ v for 20 db quieting. **FREQUENCY RESPONSE:** 20 to 20,000 cps ± 1 db. **SELECTIVITY:** 260 kc IF bandwidth (60 db down). **OUTPUT:** Two provided: cathode follower and multiplex. Cathode follower permits use of up to 200 ft. of connecting cable. For 10 μ v input with 75 kc deviation, an audio output of 1.0 volt is obtained. **HUM:** 60 db below 1 volt. **TUBES:** 1-ECC85/6AQ8 grounded grid r-f amplifier and reflex converter; 2-6AU6 IF amplifiers; 1-6AU6 IF amplifier/limiter; 1-6AL5 dual diode detector; 1-DM70 tuning indicator; 1-6C4 cathode follower output; 1-6X4 full-wave rectifier. **POWER:** 110-125 VAC, 60 cps; 40 watts drain. **SIZE (HWD):** $3\frac{5}{8}$ " x 12" x 8 $\frac{1}{4}$ ". **WEIGHT:** 24 lbs.



Kit \$24.95

EICO RA6 TRANSISTOR PORTABLE RADIO KIT

Even a novice can build this modern American all-transistor superheterodyne portable receiver. The RA6 provides unusual sensitivity, selectivity, and high undistorted sound output in a size that's just right for comfortable carrying. An efficient 4" x 6" oval PM speaker driven by a 250 milliwatt push-pull output stage supplies satisfying big-set volume and tone quality. Operating features include accurate vernier tuning, a high impedance earphone jack, and a built-in rod-type antenna for good reception in any location. Kit construction features include: the latest type plug-in transistor sockets that prevent overheating the transistors during soldering and provide easy replacement should it ever become necessary. Prealigned IF transformers permit top performance to be achieved by a slight touch-up alignment using a radio station broadcast as a reference. The RA6 is housed in a handsome tan simulated leather carrying case with a retractable handle. Weight: 4 lbs.



Wired only, \$44.95

EICO HFS-8 2-WAY SPEAKER

The two speakers are an 8" cloth bellows suspension, high-gap energy woofer-midrange transducer, and a matched 2" tweeter. The bass reflex cabinet has an internal duct behind the port to tune the enclosure to the low 55 cps resonance of the woofer and thereby further reduce distortion. The 2" tweeter provides remarkably smooth coverage with excellent "spread" for the high frequencies so important to stereo.

High efficiency permits use with low power amplifiers, but amplifiers of any power may be used if adjusted to reasonable volume levels. Oil-finished walnut.

SPECIFICATIONS

2 SPEAKERS: 8" woofer with 8.1 oz. slug magnet, 10,500 gauss flux density; 2" tweeter with 1 oz. slug magnet, 10,000 gauss flux density. **POWER HANDLING CAPACITY:** 25 watts on peaks of music or speech (per channel stereo). **CROSS-OVER:** Approximately 4000 cycles. **RATED IMPEDANCE:** 8 ohms. **FREQUENCY RESPONSE:** ± 5 db 50 to 15,000 cycles. **SIZE (HWD):** 13" x 22 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ ". **WEIGHT:** 17 lbs.

EICO SPEAKER SYSTEMS



Wired only, \$29.95

EICO HFS-10 2-WAY SPEAKER

Two speakers are a 6 $\frac{1}{2}$ " low resonance, high-gap energy woofer-midrange transducer (5 oz. slug magnet, 11,000 gauss flux density), and a matched 2" tweeter. Excellent woofer damping and rigid cabinet construction provide full bass without boom. High efficiency permits use with low power amplifiers, but amplifiers having up to 18-watts music power per channel may be used, if adjusted to reasonable volume levels. Ideal for narrow shelf placement or wall mounting. Oil-finished walnut.

SPECIFICATIONS

FREQUENCY RESPONSE: ± 6 db 60 to 15,000 cps. **CROSSOVER REGION:** 4000 cycles. **IMPEDANCE:** 8 ohms. **SIZE (HWD):** 12" x 18" x 5 $\frac{1}{4}$ ". **WEIGHT:** 11 lbs.

BEST VALUES IN FULL CAPABILITY 23-CHANNEL



EICO "Sentinel Pro" Model 779A 23-Channel Crystal-Controlled Dual-Conversion 5-Watt CB Transceiver

Featuring New Advanced Exclusive "Range-Plus" Circuitry!

- All crystals supplied for crystal-controlled transmit and receive on all 23 CB channels
- Dual conversion superhet receiver
- Dual power supply — 117 VAC and 12 VDC transistorized

Wired Only
\$169.95

With the new EICO "Sentinel-Pro" you enjoy all the powers of TOTAL CB COMMUNICATIONS CAPABILITY — super-sensitivity; noise-free reception; rock-steady stability, and all the talk-power "reach" the law will allow.

Exclusive "Range-Plus" Circuitry Enables You To "Punch Through" Interference

In common with all professional units, the EICO Sentinel-Pro is a full 5-watt RF (legal limit) input CB transceiver. Uncommonly, however, the "Sentinel-Pro" incorporates special circuitry which results in superior articulation and greater "talk-power" reach. This is accomplished by means of the exclusive "Range-Plus" feature (via a front-panel switch). It greatly boosts the duration that the average modulation of 100% is sustained, thus increasing the effective output power of the final modulated signal.

The same kind of advanced, yet performance-proven, design thinking is present throughout every section of the "Sentinel-Pro."

All Crystals Supplied For 23 Crystal-Controlled Transmit & Receive Channels

High reliability, clean, crystal-sharp RF signal power is generated by the "Sentinel-Pro's" modern, highly efficient 10-crystal frequency synthesizer circuit. More than 3 watts of radiated power leave the antenna. The "Sentinel-Pro" provides crystal-controlled transmit and receive on all 23 authorized CB channels — no additional crystals are ever needed! One single control selects the transmit and receive channels with channel numbers 1 through 23 appearing in an illuminated window. Provisions are made for the addition of extra channels if and when authorized by the FCC.

New "ANL" Front Panel Selector Switch Super-Sensitizes the Transceiver for Weak DX Signals

Controllable sensitivity is another unusual feature in the "Sentinel-Pro." When the signals you want to pick up are particularly weak due to distance or mixed with noise, just flip the front panel "ANL" selector switch. Into play goes the Automatic Noise Limiter — goodby noise. Of course, adjustable squelch is also provided.

Super Selective Dual Conversion Receiver Features 1/4 Microvolt Sensitivity

The receiver is a dual conversion superheterodyne with one 6mc

and three 455kc IF's to achieve the very finest performance. Sensitivity is rated at 0.25 microvolts for 10db signal-to-noise ratio. Excellent adjacent channel rejection is achieved without excessive narrowing of the desired channel bandpass since the 6db down points are 3kc from the carrier. A bandspread control on the front panel permits ± 3 kc adjustment for stations transmitting slightly off frequency. Primary image rejection is better than 60db. The rear illuminated dual-function (S/RF) meter serves as an "S" (signal strength) meter when receiving.

Exclusive "Finger-Tip" Antenna Loading & Transmitter Tuning Controls

Another exclusive feature, "Finger-Tip Tuning," makes it possible for you, at any time, without tools, to tune the transmitter output to match almost any antenna between 30 and 100 ohms impedance — so as to get maximum transmitter RF output. An adjustable TVI filter permits attenuation of any harmonics that might interfere with local TV reception on the lower VHF channels. A noise cancelling, ceramic element push-to-talk mike with coiled cord is included (Turner 333).

Converts To 3.5 Watt P. A. System With Any Remote Speaker

A PA/CB switch permits the receiver's audio amplifier to serve as a 3.5 watt PA (Public Address) amplifier with an external speaker or bullhorn plugged into a rear receptacle. In addition to the built-in 4-inch loudspeaker, headphones or an external remote speaker may be connected simply by plugging into a front-panel phone jack. This automatically silences the built-in speaker.

Dual Solid State Mobile and Base Station Power Supplies

The EICO "Sentinel-Pro" employs a transistor switching power supply and can be operated either directly from 117 volts AC or directly from 12 volts DC in negative ground vehicles only (most domestic makes since 1957). Individual power cords for 117 volts AC and 12 volts DC operation are included.

Brackets are provided for convenient mobile mounting. The vinyl finished steel case is scuff-proof for maximum durability, the panel is brushed and clear anodized extruded aluminum with polished edges. Size (HWD) is 4 $\frac{3}{4}$ x 12 $\frac{3}{8}$ x 7 $\frac{1}{2}$ inches and the weight (net) is 18 pounds.



EICO Model 7923 All Solid State 23 Channel 5 Watt CB Transceiver

Small In Size — Large In Operating Convenience!

- All crystals provided for 23 crystal controlled transmit and receive channels.
- All solid-state design for extra reliability, low battery drain and instantaneous operation.

Wired Only
\$189.95

Two Years Ahead of Its Time . . . A product of EICO innovation engineering. The New EICO 7923 includes a host of space-age advances — plus 4 exclusive engineering innovations — give you a 1970 rig-in '68.

- **EXCLUSIVE** Dual-crystal lattice filter for advanced razor-sharp selectivity of reception.
- **EXCLUSIVE** Highly efficient up-converter frequency synthesizer provides advanced stability and freedom from trouble in all 23 crystal-controlled transmit-receive channels. No additional crystals to buy!
- **EXCLUSIVE** Use of precision series-mode fundamental crystals for superior transmit and receive stability.
- **EXCLUSIVE** New Look for '68. A perfect marriage of professionalisms—modern styling and human-engineering.

25 Transistor, 5 Diode Circuitry Assure Clean, Crystal Controlled Signals

The EICO Model 7923 is a fully transistorized, highly efficient 5-watt input (legal limit) CB transceiver incorporating a 23-channel frequency synthesizing circuit that provides crystal-controlled transmit and receive on all 23 CB channels with no additional crystals ever needed. A single control selects transmit and receive channels with channel numbers 1 through 23 appearing in an illuminated window. Note that channel 22A is not a legal CB channel at this time and should not be used until authorized by the FCC.

The receiver uses special low-noise transistors in the RF and mixer stages. An EICO-exclusive dual-crystal lattice filter is used in the first of two 5.255 MHz IF stages to produce a very sharp selectivity curve at the IF. Adjacent channel rejection is typically 40db minimum. Image rejection of the receiver is 60db. The use of amplified AGC permits uniform receiver response for input signals ranging between 5 and 10,000uV to prevent overloading with resulting audio distortion.

A bridge-type S-meter circuit makes for a more reliable meter indication. In this set, S9 is approximately 100uV of input signal.

Automatic Highly Efficient "Lossless" Noise Limiter Always in Operation

A highly efficient shunt-type limiter clips noise peaks without any attenuation of the input signal, thus allowing full-time use without impairing the received signal. The two-stage high-speed squelch circuit requires only 1uV to activate a 10uV input signal.

Converts To a 3.5 Watt P.A. at the Flick of a Switch

The push-pull audio output stage supplies about 3 watts to the internal speaker, and either an external speaker, or a PA speaker. A rear switch selects either CB or PA use. The PA speaker is automatically disconnected when the system is in the CB position, and the external speaker is automatically disconnected in the PA mode.

Superior "Broadcast-Type" Modulation Provided by Improved Audio Techniques and a Noise Cancelling Mike

The efficient 5-watt input silicon solid-state transmitter provides in excess of 3-watts RF output. High modulation level, up to 100% is provided without excessive distortion. A noise-cancelling, ceramic element push-to-talk mike (Turner 333) with a coiled cord is included.

An EICO-exclusive up-conversion frequency synthesis circuit makes for more stable and trouble-free operation. Only this method of frequency synthesis enables the use of precision series-mode fundamental crystal operation. Burn-out proof switching is accomplished by the rugged, removable "computer-type" sealed relay.

The transmitter uses silicon transistors for more reliability, maximum power output, and less danger of transistor burnout due to antenna mismatch.

Both the driver and final amplifier are 100% modulated to insure maximum efficiency with the lowest distortion.

Extremely Compact and Lightweight — Fits Anywhere

The EICO Model 7923 is powered directly from the 12-volt DC input and requires only 250mA in the receive mode; and 1.3 amperes in the transmit 100% modulation mode. The wiring of the Model 7923 is such that either side of the car battery can be grounded (although most cars use a negative ground, some cars and boats still use a positive ground) making this transceiver independent of battery polarity. A power cord for use on a 12-volt system is provided. For use on house current, the EICO Model 791 Solid-State Power Supply may be used. (EICO Model 791, wired only \$24.95) Weight: 4 lbs.

A mounting bracket is provided for automobile mounting. Ruggedized military-type modular PC construction is proof against mobile vibration and shock. The steel case is scuff-proof vinyl finished for maximum durability, the front panel is heavy-gauge extruded aluminum, brushed/polished and anodized. Size (HWD): 3" x 8" x 8 1/4". Weighs only 7 lbs.




NEW!

EICO 711 "Space Ranger" Short Wave Communications Receiver


A Full Capability SWL at Low Cost!

- Professional appearance includes scuff-proof vinyl-clad cabinet and custom molded knobs.
- High voltage, transformer-operated Power Supply. Insures shock-free operation and top-rated receiver efficiency.
- Electrical band spread tuning for precise station selection.






Professional signal strength "S" meter tells you when you are exactly on the station.



Wide view illuminated panel for easy slide rule tuning



Modern printed circuit board construction makes kit-building fast and easy

Addis Ababa, Antwerp, Berlin, Brisbane, Copenhagen, Leningrad, London, Mexico City, Paris, Rio de Janeiro, Tokyo — a veritable roll-call of civilization — every major center of world culture and current events "comes alive" at your call with the new EICO earth-circling "SPACE RANGER." And that's not all. In addition, with an instant, simple flip of a switch, you tune in on "what's happening" all around the world inside the exciting world of the amateur (ham) radio operators, ship-to-shore broadcasts, weather reporters, meteorologists, etc. Furthermore — you can catch the unmistakable drone of the LORAN stations of the Coast Guard, the exact time from the official U. S. Government Station WWV in Washington, D. C. — plus, too, the full AM standard broadcast band with all your favorite programs. There's never a dull moment with the EICO "SPACE RANGER."

THE CIRCUITRY IS AS ADVANCED AS THE CAPABILITIES ARE COMPLETE —

The power supply is of the modern high-voltage (115 volts AC) transformer-operated type, you're certain of both safe, shock-free operation and top-rated receiver efficiency. Finest quality parts — such as modern printed circuit board construction — rated with extra margins of safety, assure you of extra measures of stability whether you build the kit or buy the "SPACE RANGER" "ready to play." Careful consideration to generous spacing between circuits, contributes to greater stability and reliability of operation and faster, easier assembly of the kit.

With 4 latest high-gain high-efficiency vacuum tubes and

2 silicon diode rectifiers in a new high-efficiency superheterodyne circuit, the "SPACE RANGER" achieves a unique combination of sensitivity and selectivity with stability and long-term reliability.

With the variable BFO (Beat Frequency Oscillator) Control, you "pick up" CW (continuous wave) transmissions by "beating against" their frequency, thus producing audio tones whose pitch you can vary — thus you can tune in on code and SSB (Single Side Band) transmissions.

Extra ease and sharpness of station selection are made possible by electrical bandspread tuning. And — if you prefer listening in private, just plug into the headphone jack. On the back are convenience terminals for external antenna, Q-multiplier input and noise-limiter on/off switch.

FEATURES

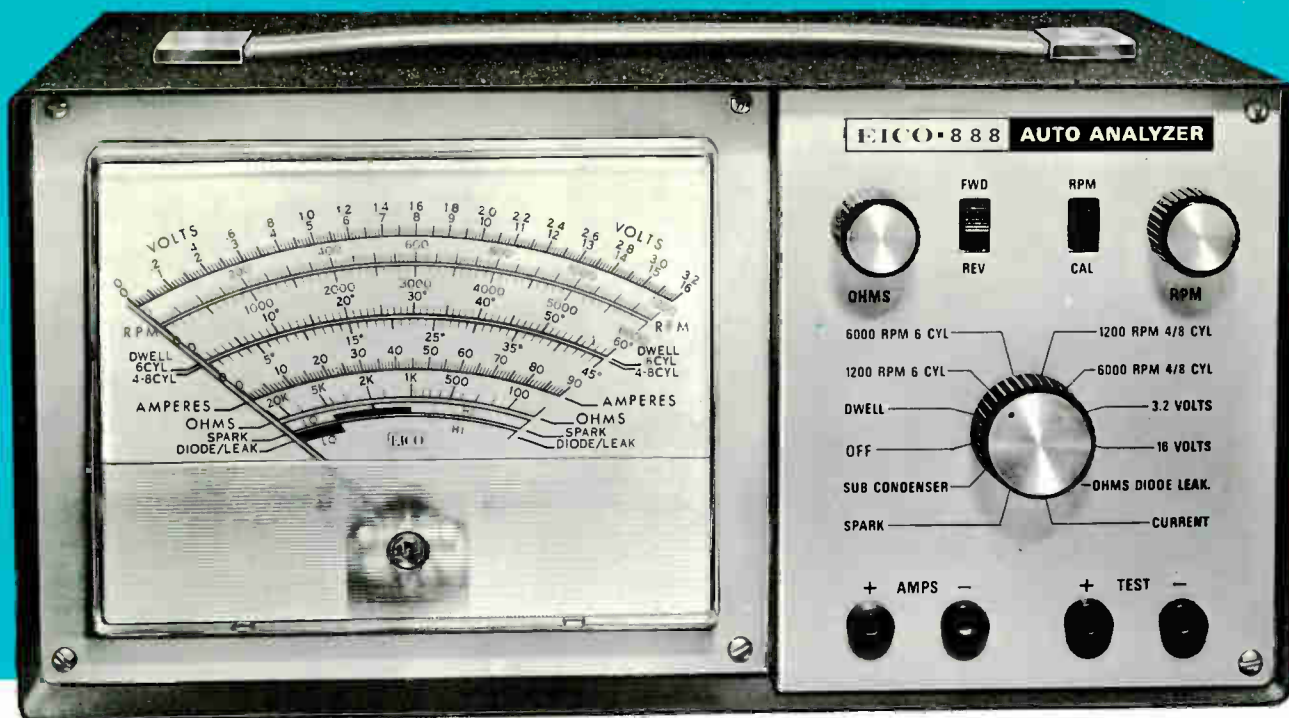
- 4 big bands, continuously tuning 550 kilocycles through 30 megacycles — which includes the Amateur Radio bands of 160; 75; 40; 20; 15; and 10 meters; and the 550 kc to 1620 kc AM radio broadcast band
- Modern superheterodyne circuitry made even more efficient with latest high-gain tubes, silicon diodes, and finest parts.
- Built-in sensitive ferrite rod AM antenna and provision for external antenna.
- Bandspread tuning.
- Variable BFO for reception of CW code & SSB.
- Built-in high-efficiency permanent magnet 4-inch speaker for plenty of audio sock and good fidelity.
- Headphone jack provides private listening.

CONTROLS & FUNCTIONS:

- Main tuning
- Bandspread for sharp tuning
- Volume level control and power ON/OFF switch
- Automatic noise limiter (ON OFF)
- AM-C. W. & Standby function switch
- B. F. O. control to vary CW pitch
- Headphone jack
- Q-Multiplier input
- Self contained AM antenna ferrite rod
- External antenna connections
- Band Selector switch

SPECIFICATIONS:

Frequency ranges: 550KC-30 MC in 4 overlapping bands. Power requirements: 117 volt 50/60 cycles AC-30 watts. Dimensions: 6" x 13½" x 9". Weight: 17 lbs.



EICO 888 Solid State Universal Engine Analyzer

Tunes Up & Troubleshoots Any Car or Boat!

EASY-TO-BUILD KIT \$49.95 WIRED \$69.95

Keep your car or boat engine in tip-top shape with this completely portable, self-contained, self-powered universal engine analyzer.

Now you can electronically tune up and trouble-shoot engine performance exactly as the professionals do. Useful for all 6- or 12-volt; 4, 6, or 8 cylinder engines; negative or positive ground. With its more than 30 separate, easy-to-perform tests, you can make exact check of your total ignition/electrical system including: storage battery; generator; alternator; voltage regulator; alternator diodes; starter; starter solenoid; distributor; points; condenser; ignition coil; spark plugs; dwell angle; carburetor; fuses; bulbs, switches, accessories; all electrical wiring.

- Completely tests your total ignition/electrical system.
- Tests and checks all the same parameters in the exact way as professional automotive technicians do.
- Tests everything about all gas engines, car or boat.
- Performs over 30 engine and wiring tests.
- Includes a comprehensive tune-up and trouble-shooting manual.
- Simplified operation for fast, easy, dependable, professional results.
- Latest reliable all-transistor circuitry.
- Large 6" D'Arsonval wide-view 2-color meter with 10 large, clear, easy-to-read scales: (Volts, Engine RPM, Dwell Angle, Amperes, Ohms, Spark Output, Diode/Leakage).
- Self-powered: you can take it into car or boat for actual car-running, boat-running tests.

FUNCTIONS

DWELL ANGLE – The dwell angle meter function provides quick check of distributor operation and spark advance: precise check and adjustment of the opening and closing of single and double breaker points, variation in dwell angle, and distributor wear.

RPM – The electronic tachometer function helps you to set exact engine idle speed and automatic transmission shift points (using separate scales for low and high speed tachometer functions for 4-, 6- and 8-cylinder engines), plus checking carburetor idle mixture and speed adjustment.

VOLTAGE – The voltmeter function has 2 accurate scales for 0-3.2V and 0-16V to check voltage regulator/alternator, generator and battery.

CURRENT – The ammeter function (0-90 amperes) keeps tabs on the exact operation of generator/alternator and associated voltage regulator and whether they are adequately charging the battery.

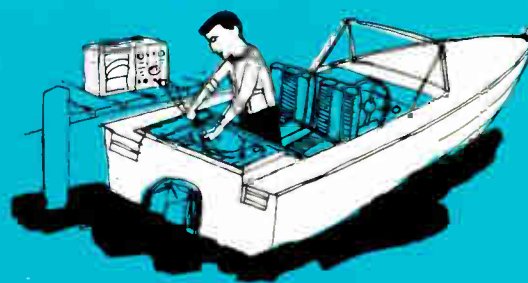
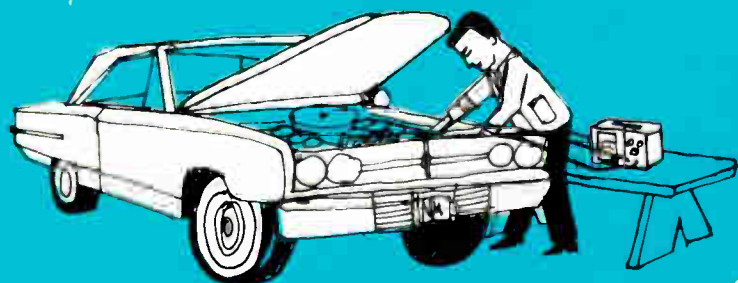
RESISTANCE – The ohmmeter function measures ohms from 0 to infinity for checking alternator diodes (forward and reverse), coil, condenser, fuses, lamps, relays, horn, wipers, all electrical accessories. It locates open and shorted circuits and poor connections.

HIGH VOLTAGE – This meter function checks the condition of the ignition spark system right to the plugs and measures spark output.

SUBSTITUTE CONDENSER – Provides for substitution of 888's own condenser for car's suspected faulty condenser.

EXCLUSIVE MANUAL – Only EICO publishes such a comprehensive instruction tune-up and trouble-shooting manual. Covering over 40 different brands of American and foreign cars from 1953 to 1966, it lists the idle speeds for both manual and automatic transmissions and the dwell angles.

The 888 is an all-professional dependable design and comprises the latest circuitry and conveniences: the master control is a single function, 12-position switch with associated calibration and adjust controls for RPM and ohms. Reliable printed circuit board construction and solid-state throughout, the circuitry is precision and field-proven incorporating 1% resistors: the RPM circuit, for example, employs 3 transistors with a Schmitt trigger pulse counter. Meter is recessed for full protection. Sturdy metal cabinet; handle for easy portability. Self-powered. Complete with "how-to-use" manuals with both test and calibration leads. SIZE (HWD): 5 1/4" x 11 1/2" x 5". WEIGHT: 6 lbs. Supplied less batteries (4 "D" cells required).



A SENSATIONAL NEW VALUE IN SSB



EICO 753 3-Band SSB/AM/CW Transceiver

WITH SILICON SOLID STATE VFO

- High level dynamic ALC prevents flat-topping even with extreme over-modulation, permits linear amplifier use
- Automatic carrier level adjustment on CW & AM
- Receiver offset tuning (10kc bandspread) without altering transmit frequency
- Front panel selected STANDBY, VOX, or P-T-T operation
- VFO & IF Circuit boards. • Preassembled crystal lattice filter

NEW REDUCED AMATEUR PRICES!

Kit \$149.95

SPECIAL SALE OFFER

The finest sideband rig on the market, with unique plus features and \$150 savings in kit form. A complete tri-band transceiver, offering SSB/AM/CW operation with conservatively rated 200 watts PEP on all modes (rated for maximum efficiency rather than maximum possible input power). Both phone and CW segments are covered completely on the 80, 40, and 20 meter bands.

The outstanding operating features of the 753 reveal not only its exceptional value, but the thoughtfulness in design you should be looking for ■ SILICON SOLID-STATE VFO for drift-free and voltage stable operation in both fixed and mobile installations. ■ VOX/PUSH-TO-TALK/STANDBY operation selected on front panel. ■ Receiver offset tuning control permitting up to 10kc receiver bandspread without altering transmit frequency. ■ Tuning system with precision capacitor and unique dual-vernier ball

drive. ■ Single knob gives both 6:1 rapid band tuning and 30:1 vernier bandspread. ■ Position of hairline adjustable on panel, with cap to prevent accidental movement. ■ High level dynamic ALC prevents flat-topping even with extreme over-modulation. ■ Automatic carrier level adjustment on CW and AM. ■ S Meter/Cathode Current Meter. ■ Fast attack, slow decay AGC.

Consider also these important design features. ■ High frequency crystal lattice bandpass filter, 2.7kc at 6db down. ■ Grid-block break-in CW keying. Product detector for SSB and triode detector for AM. ■ Adjustable output pi network 40-80Ω. ■ TR relay with auxiliary contacts for use with high power linear amplifier.

The appearance and construction of the 753 is absolutely of the highest calibre. The massive extruded aluminum panel with end caps is brushed and clear anodized.

SPECIFICATIONS

FREQUENCY RANGE: 3490-4010kc, 6990-7310kc 13890-14410kc. TYPES OF EMISSION: SSB (LSB 80, and 40 meters, USB 20 meters), AM (SSB with carrier inserted), CW. RF POWER INPUT: 200 watts PEP SSB and AM, 200 watts CW. RF POWER OUTPUT: 110 watts PEP SSB and AM, 110 watts CW. OUTPUT IMPEDANCE MATCHING RANGE: 40-80 ohms. SSB GENERATION: 5.2 Mc crystal lattice filter; bandwidth 2.7 kc at 6db. FREQUENCY STABILITY: 400 cps after warm-up. SUPPRESSION: carrier-50db; unwanted sideband-40db. OPERATING FACILITIES: all modes - offset tuning, AGC, S-Meter on receive; SSB - VOX or P-T-T with ALC on transmit, product detector on receive; AM - VOX or P-T-T with ALC on transmit, product detector on receive; AM - VOX or P-T-T with ALC on transmit, triode detector on receive; CW - grid block break-in transmit, product detector on receive. AUDIO INPUT: High impedance, low level. CONTROLS: Front panel - Tuning, Band selector, AF Gain, RF Gain, MIC Gain with Calibrator switch at extreme ccw rotation, Hairline set, Mode (SSB, AM, CW, tune), Function (OFF, STANDBY, P-T-T, VOX), Carrier Balance, Exciter tune, PA tune, PA load, Receiver Offset Tune, MIC. input, phone jack Rear apron - VOX threshold, VOX delay, VOX sensitivity, Anti-VOX sensitivity, PA Bias adjust, S-Meter zero adjust, power socket, external relay, antenna connector, key jack, accessory calibrator socket. METERING: PA cathode on transmit; S-Meter on receiver. RECEIVER SENSITIVITY: 1.0μV for 10db S/N ratio. RECEIVER SELECTIVITY: 2.7 kc at 6db. RECEIVER AUDIO OUTPUT: Better than 2 watts; 3.2 ohms. SIZE (HWD): 5½" x 14" x 11¼". SHIPPING WEIGHT: 25 lbs.

POWER REQUIREMENTS: 750 volts DC at 300 ma, 250 volts DC at 170 ma, -100 volts DC at 5 ma, 12.6 volts AC at 3.8 amps.

EICO Model 751 AC Supply/Speaker Console: Provides all necessary operating voltages for Model 753. Incorporates PM Speaker. Matches 753 in appearance to make it a perfect table-top companion unit. Conservatively rated components and silicon rectifiers for minimum heat and extended trouble-free life. Interconnecting plug-in cables provided to make all necessary connections to Model 753. Kit \$59.95 NEW REDUCED PRICES - SAVE \$30.00

SPECIFICATIONS: OUTPUT VOLTAGES: 750 volts DC at 300ma, 250 volts DC at 170ma - 100 volts DC at 5ma, 12.6 volts AC at 4 amps. INPUT VOLTAGE: 117 VAC. SIZE: 5½" x 8" x 11¼". WEIGHT: 25 lbs.

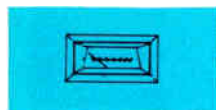
EICO Model 752 Solid State Mobile Power Supply: Provides all necessary operating voltages for Model 753 in mobile operation. For use with 12 volt positive or negative ground systems. Fully protected against polarity reversal or overload. Output voltages identical to Model 751. Input voltage 11-14 volts DC. Kit \$59.95 NEW REDUCED PRICES - SAVE \$30.00



Receiver offset tuning desirable for net and CW work



Function selection includes standby



S meter/cathode current meter back lit for easy reading



Position of hairline adjustable on panel, with cap to prevent accidental movement.

NEW FOR THE CW MAN!



EICO 717 ELECTRONIC KEYSER

- Accurately keys any CW transmitter with perfect machine-like Morse Code.
- A perfect electronic and esthetic match to the EICO 753 3-band Transceiver.

Kit \$59.95
Wired \$89.95

An always-welcome accessory for the CW ham—the fully automatic 717 Electronic Keyer provides self-completing clean-cut dots, dashes and spaces accurately timed and proportioned from 3 to 75 WPM in four overlapping switch-selected ranges, with vernier control of all speeds within each range. Because the output is via a high-speed dry-reed relay, having 25 VA-rated contacts, the 717 can simply attach to the key terminals of any type CW transmitter. The internal audio oscillator and 3" x 5" speaker, with variable tone and volume, keyed in parallel with the reed relay, enable aural monitoring of transmissions — also permit the 717 to act as a code practice oscillator. Plugging into rear panel headphone jack disconnects internal speaker.

■ Automatically makes dashes equal in time to 3 dots and sets the correct one dot spacing in a series of dots or dashes. ■ Automatically self-completes: once a dot or dash is begun, it becomes impossible to "break" the character. ■ Aural and front panel lamp monitoring. ■ Dot/Space Ratio — 1:1 electronically timed to within 2 milliseconds at all speeds. ■ Dash/Dot Ratio — 3:1 electronically timed to within 2 milliseconds at all speeds.

SPECIFICATIONS

5 tubes, 2 silicon rectifiers; 100-130 VAC, 50-60Hz, 40 watts. SIZE (HWD): 5½" x 3" x 8¼". WGT.: 9 lbs.

EICO 715 HAM/CB Kit \$39.95 : Wired \$59.95

TRANSCEIVER TEST SET

A modest investment that pays off in a lifetime of better communications performance.

At last — here's an all-professional test set that's designed for complete checking of both ham and CB equipment . . . and doesn't put a dent in your bank account. Reliable, compact, portable, quick and easy to use, it enables you to obtain maximum results from your ham or CB transceiver or transmitter. At the flick of a switch it obtains constant visual and/or audio indications of transmitter performance. Self-powered, it's excellent for both professional and hobbyist, in the shack or field. Measure R.F. power output to 50 watts • Standing Wave Ratio (Fwd. & Ref. power) • Ideal for antenna adjustment • Modulation percentage • Direct Reading • Field Strength Meter • 50 Ohm built-in dummy load.

SPECIFICATIONS

100 micro-amp meter for sensitive, accurate readings. SWR: 1-30. True RF power ranges: 10 watts (5%); 50 watts (10%). Modulation percentage 0-100%. Modulation distortion: headphone jack output. Relative field strength 1-10. Size (HWD): 4¾" x 8½" x 1½". Weight 5 lbs.



- Covers all broadcast, FM, "ham" and TV bands in 8 overlapping ranges
- Accurately wound ($\pm 1\%$) plug-in coils

Kit \$34.95
Wired \$59.95

EICO 710 GRID-DIP METER

Basically a VFO with a microammeter in its grid circuit, the 710 determines frequency of other oscillators or tuned circuits; has a sensitivity control and phone jack to facilitate "zero beat" listening; and excels as an absorption wave meter. Ham uses: pretuning and neutralizing transmitters, power indication, locating parasitic oscillations, antenna adjustment, correcting TVI, general de-bugging with transmitter power off, determining C,L,Q. Electronic servicing uses: alignment of traps, filters, IF's, peaking compensation networks, and as signal or marker generator. Easy to hold and thumb-tune with one hand. Continuous coverage of broadcast, FM, ham and TV bands in 8 ranges. Brushed satin deep-etched aluminum panel; grey wrinkle steel case.

SPECIFICATIONS

FREQUENCY RANGE: 400 kc-250 mc in 8 overlapping ranges. METER MOVEMENT: 500 microamperes. PLUG-IN COILS: Accurately wound to $\pm 1\%$ accuracy, inside polystyrene forms. Labelled for easy identification. CIRCUIT: Exceptional stability is obtained with improved grid current stability over tuning range. TUNING: Tuning condenser, equipped with planetary drive of 1:7 ratio. TUBE: 6AF4(A) (Colpitts oscillator). SCALE: Rotating drum. 340° rotation. All scales on the drum are the same length for all ranges. Scale is illuminated by pilot light, is approximately 3¾" long. POWER REQUIREMENTS: 117V, 60 cps; 10 watts. POWER SUPPLY: Transformer-operated selenium rectifier. SIZE (HWD): 2¼" x 2¼" x 6¾". WEIGHT: 3 lbs.

★ Export Model available

EICO 706 CODE PRACTICE OSCILLATOR

Kit \$9.95 : Wired \$14.95



Supplied with battery

Invaluable aid for learning Morse Code with outstanding conveniences not found in other units. Unusually efficient speaker provides a clean, loud signal. Includes pitch control to obtain subjectively pleasing tone, phone jack for private use, and choice of tone, flashing light, or both together. Employs battery-operated transistor oscillator to provide many years of trouble-free service.

SPECIFICATIONS

TONE FREQUENCY RANGE: Approx. 500 to 2000 cps, continuously variable. CONTROLS: PITCH, TONE, and/or LIGHT. CURRENT DRAIN (TONE): 40 ma at 3VDC. CURRENT DRAIN (LIGHT): 300 ma at 3VDC. CURRENT DRAIN (TONE AND LIGHT): 340 ma at 3VDC. TERMINALS: Key, Phones. CASE: High-impact bakelite. PANEL: Satin finish, deep-etched aluminum. SIZE (HWD): 6½" x 3¾" x 2¼". WEIGHT: 2 lbs.

EQUIP YOUR BENCH WITH PERFORMANCE



EICO 435 WIDEBAND DIRECT-COUPLED 3" SCOPE

- 18 mv rms/cm sensitivity
- Zener diode calibration
- DC-4.5mc flat response
- TV-V & TV-H sweeps

Kit \$119.95
Wired \$169.95

Complete many more color or B & W TV service calls on location! The Model 435 is really portable (1/2 the usual size of 5" scopes), yet provides outstanding facilities and fine performance. Push-pull amplification (3 stages) and direct-coupling throughout the vertical amplifier. With the Zener diode calibration facility and the 4-position frequency-compensated decade attenuator, either dc or peak-to-peak ac (or combination) measurements may be made from 50 mv to 500 V. Clarity and detail equal to 5" scopes are obtained with a far sharper and brighter trace (1600 V accelerating potential) on a flat-faced CRT; and distortionless V & H trace expansion is provided with drift-free V & H positioning up to many screen diameters. A mu-metal neck shield on the CRT minimizes the effect of external fields. Intensity and focus controls, and sawtooth (sweep) output are provided on the front panel; intensity modulation input is provided at the rear. DC balance and astigmatism adjusts are accessible without cabinet removal. Sync is fully automatic on all ranges and modes, with automatic sync limiter and amplifier eliminating sync voltage adjustment. An added circuit refinement eliminates any undesired intensity modulation of the trace by the sync voltage. Full retrace blanking and edge-lit calibration grid are provided.

SPECIFICATIONS

VERTICAL AMPLIFIER: Frequency response from dc to 4.5 mc, +1, -3db (useful to 10 mc); sensitivity 18 mv rms/cm (50 mv p-p/cm); input impedance 1 M Ω /35 pf. HORIZONTAL AMPLIFIER: Frequency response from 1 cps to 500 kc, +1, -3db; sensitivity 0.7 v rms/cm; input impedance 4 M Ω /40pf. SWEEP RANGES: 10-100, 100-1K, 1K-10K, 10K-100K cps; plus TV-VERT position (30 cps) and TV-HOR position (7875 cps). Synchronization may be (+) or (-) internal, external, or line frequency. POWER REQUIREMENTS: 117 VAC, consumption approximately 110 watts. SIZE (HWD): 8 1/2 x 5 1/4 x 12 1/4 inches. WEIGHT: 18 lbs.

★ Export Model available



EICO 430 GENERAL PURPOSE 3" SCOPE

- 25 mv rms/cm sensitivity
- Sharp, bright trace
- Direct V plate connections
- Automatic sync

Kit \$89.95 : Wired \$119.95

A very handy general-purpose scope that is truly portable (1/2 the usual size of 5" scopes), yet provides outstanding performance quality. Excellent for servicing audio, communications and industrial equipment, and ideal as an industrial or ham shack monitor. Clarity and detail equal to 5" scopes is obtained with a far sharper and brighter trace (1600V accelerating potential) on a flat-faced CRT, and distortionless V&H trace expansion is provided with drift-free V & H positioning up to many screen diameters. A mu-metal neck shield on the CRT minimizes the effect of external fields. The power supply is V-R tube regulated for stability. Intensity and focus controls are provided on the front panel; intensity modulation input is provided at the rear. Sync is fully automatic on all ranges and modes, with automatic sync limiter and amplifier eliminating sync voltage adjustment. Full retrace blanking is provided.

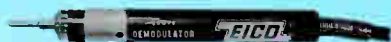
SPECIFICATIONS

VERTICAL AMPLIFIER: Frequency response from 2 cps to 500 kc, +1, -3db (approximately -6db at 1Mc); sensitivity 25 mv rms/cm (70mv p-p); input impedance 1M Ω /30 mmf; input decade attenuation of 1/100. HORIZONTAL AMPLIFIER: Frequency response from 2 cps to 300 kc, +1, -3db; sensitivity 0.25 V rms/cm; input impedance 10M Ω /40 mmf. SWEEP RANGES: 10-100, 100-1K, 1K-10K, 10K-100K cps. Synchronization may be internal or external. POWER SUPPLY: 117 VAC, consumption approximately 60 watts. SIZE (HWD): 8 1/2 x 5 1/4 x 11 1/4 inches. WEIGHT: 15 lbs.

★ Export Model available

EICO SCOPE ACCESSORY PROBES

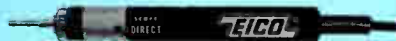
- fully shielded
- rugged terminal board mounting of all parts
- shock mounted floating construction
- swivel action for ease of handling
- color-coded for identification
- easy accessibility of all parts



OSCILLOSCOPE DEMODULATOR PROBE PSD

Kit \$4.50 : Wired \$6.95

For signal tracing and checking of TV/radio RF and IF stages. Permits scope to be used as a waveform tracer, gain analyzer and alignment indicator in all these stages. Demodulates amplitude-modulated carriers between 150 kc and 250 mc.



OSCILLOSCOPE DIRECT PROBE PD

Kit \$3.50 : Wired \$4.95

Direct test probe for use in low-frequency or low-impedance circuits. Eliminates stray pick-up and signal re-radiation.



OSCILLOSCOPE LOW CAPACITY PROBE PLC

Kit \$4.50 : Wired \$6.95

For TV sync signal tracing and general tests in video, sync and sweep circuits. High impedance, low capacity probe is extremely useful for tracing waveforms in high impedance, high frequency and wideband circuits (as in TV), without distortion from overloading or frequency discrimination.

PROVEN TOP QUALITY EICO TEST INSTRUMENTS



EICO 427 SENSITIVE DIRECT-COUPLED 5" SCOPE

- 3.5 mv rms/cm sensitivity • Zener diode calibration
- Direct V plate connections • Automatic sync

Kit \$99.95 : Wired \$139.95

A very sensitive, general purpose oscilloscope with the facilities and quality required for service, production, or R & D of audio communications and industrial equipment. Push-pull amplification (3 stages) and direct-coupling throughout vertical amplifier. With Zener diode calibration and 4-position frequency-compensated decade attenuator, either dc or peak-to-peak ac (or combination) measurements may be made from 10 mv to 500 v. The trace is sharp and clean, and free of "blooming." A trace may be expanded to 30 cm vertically and 20 cm horizontally, with instantaneous drift-free positioning to permit centering any part of expanded trace. Intensity, focus, astigmatism, dc balance controls and sawtooth sweep output are provided on the front panel; intensity modulation input is provided at the rear. Sync is fully automatic on all ranges and modes, with automatic sync limiter and amplifier eliminating sync voltage adjustment. Full retrace blanking.

SPECIFICATIONS

VERTICAL AMPLIFIER: Frequency response from dc to 500kc, +1, -3db (approximately -6db at 1 mc); sensitivity 3.5 mv rms/cm (10 mv p-p/cm) input impedance 1 MΩ/30pf. **HORIZONTAL AMPLIFIER:** Frequency response from 2 cps to 450kc, +1, -3db; sensitivity 0.18 V rms/cm; input impedance 10MΩ/40 mmf. **SWEEP RANGES:** 10-100, 100-1K, 1K-10K, 10K-100K cps. Synchronization may be (+) or (-) internal, external, or line frequency. **POWER REQUIREMENTS:** 117 VAC, approximately 55 watts. **SIZE (HWD):** 12½" x 8½" x 16⅞". **WEIGHT:** 23 lbs.

★ Export Model available



EICO 460 WIDEBAND DIRECT-COUPLED 5" SCOPE

- 5 mv rms/cm sensitivity • DC - 4.5mc flat response
- Automatic sync • TV-V and TV-H sweeps

Kit \$99.95 : Wired \$149.95

Ideal for color and B&W, TV servicing and production line testing, and excellent for audio and industrial work as well. Push-pull amplification (3 stages) and direct-coupling throughout vertical amplifier. With internal calibration voltage and 4-position frequency-compensated decade attenuator, either dc or peak-to-peak ac (or combination) measurements may be made from 25mv to 500V. Instantaneous, drift-free positioning permits centering any part of an expanded trace. Intensity and focus controls, 60 cps output jack and phasing control, sawtooth (sweep) output jack, intensity modulation (Z axis) input jack, and external capacitor jack for very low frequency sweeps are all on the front panel. DC balance and astigmatism adjustments are accessible without cabinet removal. Sync is fully automatic on all ranges and modes, with automatic sync limiter and amplifier eliminating sync voltage adjustment. Full retrace blanking. Edge-lit calibration grid.

SPECIFICATIONS

VERTICAL AMPLIFIER: Frequency response from dc to 4.5 mc, +1, -3db (useful to 10 mc); sensitivity 5 mv rms/cm (25 mv p-p/cm); input impedance 3 MΩ/35pf. **HORIZONTAL AMPLIFIER:** Frequency response from 1 cps to 400 kc, +1, -3db; sensitivity 0.24 v rms/cm; input impedance 5 MΩ/35pf. **SWEEP RANGES:** 10-100, 100-1K, 1K-10K, 10K-100K cps; plus EXT CAP position for very low frequency sweeps with external capacitor, TV-V position (30 cps) and TV-H position (7875 cps). Synchronization may be (+) or (-) internal, external, or line frequency. **POWER REQUIREMENTS:** 117VAC, approximately 95 watts. **SIZE (HWD):** 13 x 8½ x 16 inches. **WEIGHT:** 25 lbs.

★ Export Model available

EICO 488 ELECTRONIC SWITCH

Kit \$34.95 : Wired \$49.95

★ Export Model available

Simultaneously observe 2 patterns on 1 scope. Compare voltage and current amplitudes, waveforms, frequencies and phase relationships. Continuously variable switching rates from less than 10 cps to over 2000 cps in 3 ranges. Useful as square wave generator.

Response dc to 30 kc (-2db); useful to 300kc. Maximum gain of 10. Maximum input 400 v p-p. Input impedance 100K, output impedance 50KΩ. Power Requirements: 117 VAC. Size: 6" x 8" x 6". Weight: 7 lbs.



BEST BUY SCOPE KITS

EICO's scope kit engineering leadership, backed by 20 years of development experience, gives you truly outstanding scope capabilities, operating conveniences, and freedom from performance difficulties. For example, EICO was the first in kits to offer a direct-coupled (DC)* vertical amplifier (to prevent phase and amplitude distortion of slowly varying waveforms and provide a true zero voltage reference to permit absolute voltage readings at any point on a waveform). Now EICO is first again with Zener diode regulated calibration voltage, adjustable to ±1% permanent accuracy, unaffected by normal line voltage variation. And there are many other "fine points" in EICO scope design, not revealed in specifications, that make EICO scopes not just good values, but surprisingly good instruments by any standards.

*Capacitive-coupling (AC) may be selected when observing a small ac waveform superimposed on a relatively large dc voltage.

EICO TUBE TESTERS KNOWN FOR



EICO 667 DYNAMIC CONDUCTANCE TUBE & TRANSISTOR TESTER

Kit \$89.95 : Wired \$139.95

- Tests the new tube types
- Separate plate, screen and grid voltages
- Individual element settings by lever switches

TYPES TESTED: 5 & 7-pin nuvistor, 7-pin miniature, 7-pin subminiature (in-line base), 8-pin subminiature, octal, loctal, combination 9 and 10-pin miniature, combination novar and pilot light, compactron (12-pin). In addition to receiving types, tests many small transmitting and special purpose tubes and pnp transistors. Use with Model 615 Adaptor for older type tubes — settings are already on the roll chart or supplement.

TRANSISTOR TEST: Two-step test for both npn and pnp signal transistors using internal DC power supply.

DYNAMIC CONDUCTANCE TUBE TEST: Composite indication of mutual conductance, plate conductance, and peak emission capability. Readings are on both numerical and quality zone scales. Rectifiers tested near maximum rated current for extra accuracy.

LEAKAGE/SHORT TEST: Direct-reading of inter-element leakage up to 20 MΩ. DC leakage test voltage is always applied in correct polarity to eliminate emission effects from readings. Accurate heater-cathode leakage achieved by isolation of heater and cathode from remaining tube elements during test. Push-button transfer switches (12) permit rapid insertion of tube elements in leakage test circuit.

IMPORTANT FEATURES: Each active tube element can be individually connected, by 12 six-position individual element lever switches to any of the following busses: plate voltage, screen voltage, grid voltage, filament voltage, ground (cathode and filament return), no connection. Two additional lever switches are used to select from 4 combination of 3 plate, 3 screen, and 3 ranges of control grid voltage (variable over each range with a 5% accurate wire-wound control) and 5 ranges of meter sensitivity (1% shunts and 5% accurate wire-wound control). Multi-section tubes have each section individually tested by rapid selection from 12 push button transfer switches while all sections are simultaneously drawing full-rated current. Pentodes are tested as pentodes, with no lumping together of tube elements.

Line-adjust rheostat for testing independent of tube filament loading or line voltage variation.

Gear-driven roll chart mechanism provides smooth trouble-free operation.

Power: 105-135 volts AC. Provided with pilot lamp and fuse. Size (HWD): 12" x 15" x 4 1/4". Weight: 22 lbs.

EICO 628 TUBE TESTER

- Tests the new tube types
- Individual element settings by lever switches

Kit \$59.95 : Wired \$79.95

TYPES TESTED: 5-pin nuvistor, 7-pin nuvistor, 7-pin miniature, octal, loctal, combination 9 and 10 pin miniature, combination novar and pilot light, compactron (12-pin). Use with Model 615 Adaptor for older type tubes — settings are already on the roll chart or supplement.

CATHODE CONDUCTANCE TUBE TEST: Proportional reading of cathode conductance (emission) on 4 1/2" meter with numerical and 3-color quality zone scales.

SHORT TEST: Inter-element short and continuity tests with neon lamp indicator.

IMPORTANT FEATURES: Each active tube element can be individually connected by 12 three-position individual element lever switches to any of the following busses: plate-screen-grid, filament voltage, ground (cathode and filament return).

Line adjust rheostat for testing independent of tube filament loading or line voltage variation.

Pin straighteners for 7 and 9-pin miniature tubes conveniently mounted on panel.

Circuit overload lamp indicates overload on transformer.

"SPEEDROLL" 3-column roll chart simplifies finding and reading of tube test data. Anti-backlash design.

Power: 105-135 volts AC. Provided with pilot lamp. Size (HWD): 9 1/2" x 12 1/2" x 4 1/4". Weight: 11 lbs.

ACCESSORIES: L-1 lid for regular carrying case \$3.98. TTC-1 counter display case \$14.95.



EICO TV PICTURE TUBE TEST ADAPTORS

CRA, WIRED \$4.50

For testing 70° and 90° picture tubes with #625 and #666 tube testers. Includes 12-pin CRT socket adaptor and cable.

CRA-110: WIRED 3.95

For testing 110° picture tubes with #625 and #666 tube testers.

CRU, WIRED \$9.95 (illustrated)

For testing color, black and white picture tubes with #667 and #628 tube testers. Includes 1-7 pin, 1-8 pin, 1-12 pin and 1-14 pin large CRT socket adaptors and cable.

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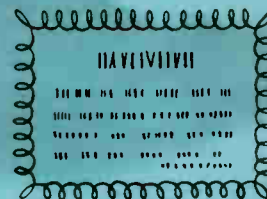
Since 1945, Eico engineers have specialized in filling the complex needs of kit-builders everywhere. They pioneered the concept of integrating advanced electronic design with "bullet-proof" reliability for the novice." So respect for the economy had Eico kits for people who had no time for kit-building asked Eico to make the kits available as ready-to-operate. That's why most Eico products are in both kit form and factory-assembled form.

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Even if you never held a soldering iron in your hand, you can build any Eico kit. Large "blow-up" diagrams and detailed parts lists make identification easy; clear non-technical language leads you one step at a time to a perfect assembly. Nothing is left to chance.

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Because the quality of the design, parts and instructions of Eico products are high, Eico unhesitatingly guarantees all parts for 90 days; guarantees that all kits built to instructions (and all factory-assembled units) will meet or exceed published specifications; and guarantees service of every Eico product, if it is ever needed, for the lifetime of the unit, at the nominal charge stated in our service policy.



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- Pro-Am Electronics
3050 Bunkerhill
Southland Electronic Inc.
3610 University Ave.
Telrad Electronics
3453 University Ave.
Telrad Electronics
6086 University Ave.
Western Radio & TV Supply
1415 India St.
- SAN FRANCISCO**
Eber Electronic Supply Inc.
2355 Market St.
Edisco
5901 Mission St.
Fortune Electronics
2280 Palou Ave.
Lafayette Associated Store
271 9th
Pacific Electronics Inc.
1422 Market St.
San Francisco Radio & Supply
1282 Market St.
Zack Radio & Supply Co.
1444 Market St.
- SAN JOSE**
Aloco Paramont Electronics
79 So. Third St.
Audio Phils (H)
of Music City
448 S. Winchester Blvd.
Peninsula Electronic Supply
656 So. First St.
Quement Indust. Electronics
1000 South Bascom
United Radio & TV Supply Co.
1425 W. San Carlos
Weatherbie Industrial
Electronics Co.
1280 No. Fourth St.
- SAN LEANDRO**
E. C. Wenger Co.
1310 Davis St.
- S. LUIS OBISPO**
Mid State Electronics
1441 Monterey
- SAN MATEO**
San Mateo Electronics Sy. Co.
16 W. 42nd Ave.
- SAN PEDRO**
Neptune Electronics
921 North Pacific Avenue
- SANTA ANA**
Creative Audio Sales
2138 N. Tustin Ave.
Hurlay Electronic Supply
2101 N. Fairview
Olson Electronics
1329 South Main St.
Santa Ana Electronics
832 E. 4th St.
- SANTA BARBARA**
Channel Radio Supply
18 E. Ortega St.
Electronic Kit Parts
513 State St.
Skyline Electronics
2700 De La Vino
- SANTA CLARA**
Schad Electronics Supply
3216 El Camino Real
- SANTA CRUZ**
Santa Cruz Electronics
718 Frederick Street
- SANTA MARIA**
Dow Electronic of Santa Maria
222 W. Main St.
Lombards Electronics
311 N. McClelland St.
- SANTA ROSA**
Basham Christensen
2600 Mendocino Ave.
The Golden Ear (H)
1612 4th St.
Fred Plante Electronics, Inc.
423 4th St.
- SOUTH GATE**
Mac's Electronic Supply
3351 Tweedy Blvd.
- STOCKTON**
B. J. DeJarnatt Wholesale
715 E. Washington
Dunlap Radio Wholesale
27 So. Grant St.
- STUDIO CITY**
B & D Electronics, Inc.
12433 Ventura Blvd.
- SUNNYVALE**
Lafayette Associated Store
942 W. El Camino Real
Sunnyvale Electronic, Inc.
534 So. Murphy
- TEMPLE CITY**
G & M Wholesale Electronics
5651 N. Rosemead Blvd.
- TORRANCE**
Griffay Electronics
3840 Sepulveda Blvd.
Torrance Electronics
1545 W. Corson St.
Signal Electrics Corp.
22307 Ocean Ave.
- TUSTIN**
A B & B Electronics
616 E. First St.
- VALLEJO**
Electronic Best Buys, Inc.
1219 Monterey
Pacific Radio Supply Co.
225 Couch St.
Zocklt Corp.
1815 Sonoma Blvd.
- VAN NUYS**
Lafayette Radio Electronics
13630 Sherman Way
- VENTURA**
Lafayette Radio & Electronics
2717 E. Main St.
- VISALIA**
Dunlap Radio TV Supply
1725 Mooney Blvd.
House of Sight & Sound
750 S. Mooney Blvd.
- WEST LOS ANGELES**
California Electronics Supply Inc
1911 Armacost Avenue
Chelco Electronics
11835 Wilshire Blvd.
- WEST COVINA**
W. Covina Wholesale Electronics
1107 21 Sylvan Ave.
- WHITTIER**
Family TV & Electronics, Inc.
11121 First Ave.
Whittier Electronic Co.
6606 S. Gretna Blvd.
- COLORADO**
- BOULDER**
Rocky Mountain Elec. Supply
293 Peak Ave.
- COLORADO SPRINGS**
D & M Electronic Supply
717 N. Weber St.
William L. Evans (H)
111 E. Mills St.
Custom Hi Fidelity & Sound (H)
530 So. Tejan
L. B. Walker
9 E. Vermihio St.
- DENVER**
Electronic Parts Co.
1277 Broadway
Empire Radio TV (H)
1100 Broadway
Kierluff Electronics
1200 Stout Street
Newark Denver Electronics
2170 Grape St.
Burststein Applebee Co.
1237 16th St.
Fistell's Electronic Supply Co.
1001 Bannock St.
L. B. Walker Radio Co.
300 Bryant St.
- DURANGO**
L. B. Walker
3189 Main
- GRAND JUNCTION**
Radio Electronic Supply
640 White Ave.
L. B. Walker
537 N. 1st St.
- PUEBLO**
Pueblo Radio TV Supply
119 W. 13th St.
L. B. Walker
100 N. Victoria
- TRINIDAD**
Electronic Suppliers
421 W. Main St.
- CONNECTICUT**
- BRIDGEPORT**
HI-FI Center (H)
94 Congress St.
Hatry of Bridgeport
2465 Main St.
Kaufman Electronics
73 77 Frank St.
Westcon Electronics
195 Colorado Ave.
- DANBURY**
Pilgrim Electronics
389 Main St.
- GROTON**
Francis Electronics
565 Long Hill Road
Lafayette Associated Store
565 Long Hill Road
- HARTFORD**
Belmont Record Shop (H)
165 Washington St.
Bidwell Hardware Co.
1283 Main St.
Dressler Electronics (C)
110 Connecticut Blvd.
Hatry of Hartford
100 High St.
Scell Electronic, Inc.
78 Maple Ave.
Signal Center, Inc.
555 New Park Ave.
- KENSINGTON**
Modern Electronics
1224 Farmington Ave.
- MIDDLETON**
G. U. Reed
154 Main St.
- NEW LONDON**
Alkins Electronic Supply Co.
531 Broad St.
DeMombro Radio Supply
334 Broad St.
Gray Electronic Supply, Inc.
1004 Bank St.
- NEW HAVEN**
Hatry of New Haven
36 Howe St.
- WATERBURY**
Bond Radio Supply
439 West Main St.
- Hatry of Waterbury
89 Cherry Street
Radio Communications
of Waterbury
1355 Main St.
- WEST HARTFORD**
Lafayette Radio
357 N. Main St.
- DELAWARE**
- WILMINGTON**
Almo Radio Co.
1122 French St.
D. & M. Radio
215 W. 4th St.
Delaware Electronics Supply
220 West Fourth St.
First State Electronics
2518 West Fourth St.
Radio Electric Service Co.
3rd & Tottoli St.
Wholesale Electronic Supply
802 French St.
- DIST. OF COLUMBIA**
- WASHINGTON**
Capitol Radio Wholesalers
2120 14th St. N.W.
Commissioned Electronic Co. (H)
1776 Columbia Rd. N.W.
Custom Hi Fi Radio (H)
1811 Columbia Rd. N.W.
Electronic Wholesalers, Inc.
2345 Sherman Ave., N.W.
Collins Bros. Elect.
3908 Penna Ave. S.E.
Shrader Sound (H)
2803 M. St. N.W.
Silberne Radio & Electronics
3400 Georgia Ave., N.W.
Sun Parts Distributor Ltd.
514 10th St. N.W.
- FLORIDA**
- BRADENTON**
Thurw Electronics, Inc.
2615 9th West
- CLEARWATER**
Clearwater Electronics, Inc.
625 Franklin St.
Thurw Electronics, Inc.
1208 Rogers St.
- COCOA**
Thurw Electronics, Inc.
540 St. Johns St.
- COCOA BEACH**
Audio Supply (H)
81 N. Atlantic Ave.
- DAYTONA BEACH**
Hammond Electronics
719 Ridgewood Avenue
Thurw Electronics, Inc.
566 Bollaugh Rd.
- EAU GALLIE**
Mountain Electronics Co.
1043 5th Street
- FT. LAUDERDALE**
Mountain Electronics Co.
1226 NE Fourth Avenue
Music Center, Inc. (H)
1009 E. Sunrise Blvd.
Thurw Electronics, Inc.
901 N.E. 13th St.
Vance Baldwin, Inc.
2207 So. Andrews Ave.
- FT. MYERS**
Hammond Electronics
2563 4th Street
Thurw Electronics, Inc.
2336 Fowler St.
- FT. PIERCE**
Thurw Electronics
530 No. Fourth St.
- FT. WALTON BEACH**
Thurw Electronics Inc.
711 Eglin Highway
- GAINESVILLE**
Thurw Electronics, Inc.
1012 Main St.
- HOMESTEAD**
Thurw Electronics of
Homestead, Inc.
131 So. Flagler Ave.
- JACKSONVILLE**
The Bay Co.
2043 Liberty St.
Hammond Electronics, Inc.
250 East 1st Street
Parts Unlimited Electronics
Center
2636 Atlantic Blvd.
Ports Unlimited Stores
Cedar Hill Shopping Center
Southeast Audio Co.
1125 Roselle St.
Thurw Electronics, Inc.
956 Liberty St.
- KEY WEST**
Thurw Electronics, Inc.
1696 Roosevelt Blvd.
- LAKELAND**
Thurw Electronics, Inc.
402 No. Ingraham Ave.
- MELBOURNE**
Tedco, Inc.
2678 N. Babcock St.
- MIAMI**
Electronic Wholesalers
9390 N.W. 27th Ave.
- Mountain Electronics
3730 N.W. 36th Street
Electronic Equipment Co.
2701 NW 42 Ave. (Lejune Rd.)
Southeastern Wholesale
Electronics
1365 N.W. 23rd St.
Thurw electronics, Inc.
1800 N.W. 23rd St.
Wolder Electronic Distributors Co.
1809 N.E. 2nd Ave.
- OCALA**
Thurw Electronics Ocala
701 S. Magnolia
- ORLANDO**
Adams Corp.
1203 N. Miles St.
Electronic Wholesalers
345 Graham Ave.
Hammond Electronics, Inc.
911 W. Central Ave.
Olson Electronics
1021 E. Colonial Drive
Thurw Electronics, Inc.
822 W. Central Ave.
- PANAMA CITY**
Central Electronics Supply
316 Luverne Ave.
Thurw Electronics, Inc.
528 E. Sixth St.
Audio Sound Co. (H)
120 W. 15th St.
- PENSACOLA**
Grice Radio & Electronics
300 E. Wright St.
Thurw Electronics, Inc.
99 So. Alcaniz St.
- SARASOTA**
DOW Electronics
607 School Avenue
Thurw Electronics
2045 12th St.
ST. PETERSBURG
Cooper Radio Co.
165 13th St. N.
Thurw Electronics
330 19th St.
- TALLAHASSEE**
Thurw Electronics, Inc.
303 W. Brevard
- TAMPA**
Hammond Electronics, Inc.
1516 Cypress
Kinkade Radio Supply
1719 Grand Central Ave.
Leader Electronics
3411 S. Dale Mabry
Thurw Electronics
121 Water St.
- W. PALM BEACH**
Vance Baldwin, Inc.
425 Okeechobee Rd.
Mountain Electronics
1000 North Dixie Hwy.
Thurw Electronics, Inc.
2403 So. Dixie Highway
- GEORGIA**
- ALBANY**
Southeastern Radio Parts
206 S. Monroe St.
Specialty Distributing Co.
131 Flint Ave.
- ATHENS**
Southeastern Electronics Corp.
393 N. Finley St.
Specialty Distributing Co., Inc.
230 Epps Bridge Rd.
- ATLANTA**
Electronic Supply Co.
1068 Arlington Ave. SW
Jackson Electronic Supply Co.
1135 Chattahoochee N.
Olson Electronics, Inc.
485 Peachtree St.
Southeastern Radio
400 N. Peachtree N.W.
Specialty Distributing Co.
763 Juniper St., N.E.
- AUGUSTA**
Specialty Distributing Co.
1541 15th St.
- BRUNSWICK**
Specialty Distributing Co.
2812 Carrie St.
- COLUMBUS**
Radio Sales & Service
2000 12th Ave.
Specialty Distributing Co.
1325 Webster Ave.
- DALTON**
Curle Radio Supply
710 N. Hamilton Ave.
- LA GRANGE**
Southeastern Radio
206 Redly St.
- MACON**
Southeastern Radio Parts Co.
866 2nd St.
Specialty Distributing Co.
539 Arch St.
- MARIETTA**
Specialty Distributing Co.
105 White Ave.
- ROME**
Southeastern Radio
248 N. 5th St.
- SAVANNAH**
Southeastern Radio Parts Co.
545 E. York St.
Specialty Distributing Co.
612 E. Broad St.
- VALDOSTA**
Specialty Distributing Co.
916 Marion St.
- HAWAII**
- HONOLULU**
Electrical Equipment Co.
656 So. Queen St.
Gem Discount Store (H)
Audio Div.
333 Ward Ave.
Honolulu Electronics
819 Keaumoku St.
Pacific Electronics
1336 Dillingham
Precision Radio Ltd.
1160 So. King St.
- IDAHO**
- BOISE**
Kopke Electronics
3113 Rosehill St.
Oakley Wholesale, Inc.
P. O. Box 7605
816 Front St.
- CALDWELL**
A-Gem Supply
901 Main St.
- IDAHO FALLS**
Lafayette Associated Stores
1563 N. Yellowstone Highway
Schwendiman Distributing Co.
910 E. Lincoln Rd.
P. O. Box 2047
- LEWISTON**
Steiner Electronics
P. O. Box 651
- POCATTELLO**
Hanson's Inc.
621-633 South First
Reas Distributing Co.
100 McKinley
Westron Association (H)
400 Yellowstone Ave.
- TWIN FALLS**
United Electronic Wholesalers
Box 185
217 2nd Ave. N.
- ILLINOIS**
- ALTON**
Eblinger Radio Inc.
1115 Rear Broadway
Radonics Alton, Inc.
211 Main St.
- AURORA**
Mainline Ind. Supply Co.
222 S. River St.
Stolz-Wicks, Inc.
123 S. LaSalle St.
- BELLEVIEW**
Lurtz Electronic Co.
219 N. Illinois St.
- BENTON**
Lompley Radio Co.
452 E. Church St.
- BLOOMINGTON**
Alverson Sales Co.
217 E. Front St.
- CALUMET CITY**
Alverson Sales Co.
217 E. Front St.
- CHAMPAIGN**
Electronic Parts Co.
905 S. Neil St.
Radio Doc
811 W. Springfield (H)
- CHICAGO**
Allied Radio
100 N. Western
Allied Radio Corp.
2025 West 95th St.
Allied Radio Corp.
921 N. Rush Street
CB Center of America (C)
5207 N. Milwaukee Ave.
Green Mill Radio Supply
145 W. 11th St.
Electronic Distributors, Inc.
4900 N. Elston Ave.
Electronic Distributors, Inc.
1814 W. Ogden
Music Craft (H)
48 E. Oak St.
Newark Electronics Corp.
500 N. Pulaski St.
Olson Radio Wholesalers
4101 Milwaukee Ave.
Western Olson Radio
123 N. Western Ave.
Olson Electronics Evergreen
2641 W. 95th St.
Schwartz Bros. (H)
8533 Cottage Grove A.
Woodlawn Appliance (H)
1215 E. 63rd St.
- CHICAGO HEIGHTS**
Aid Elect. Supply
2027 Western Ave.
Heights Electronics, Inc.
1145 Holsted St.
- DANVILLE**
Bud Electronic Supply Co.
22 N. Jackson
- DECATUR**
Klaus Radio
370 E. Cerro Gordo
- DE KALB**
J & M. Radio & TV Supply
507 Grove St.

- ELGIN**
Stolz Wicks, Inc.
425 Dundee Ave.
- EVANSTON**
Allied Radio Corp.
602 Davis St.
- FREEPORT**
J. & M. Electronics
64 Monterey
- HILLSIDE**
Allied Radio Corp.
100 River Oaks Shopping Ctr.
159th & Torrence
- JACKSONVILLE**
Baptist Radio
419 S. Mauvaisterre
- JOLIET**
Mainline Ind. Supply Co.
808 N. Roynor Ave.
Stolz Wicks
266 Ruby St.
- LA SALLE**
Klaus Radio & Electronics
1055 First St.
Warren Radio Co.
437 1st St.
- MOLINE**
Lafagen Distributing Co.
1202 Fourth Ave.
- MORTON GROVE**
Olson Electronics
6231 Dempster St.
- OAK PARK**
Allied Radio Corp.
7055 W. North Ave.
Melvin Electronics Co.
541 Madison St.
- PEORIA**
Klaus Radio & Electronics
403 E. Loke
Warren Radio Co.
308 Oak St.
Selectronics Supply
801 S. Adams
- PEORIA HEIGHTS**
Fur's Radio Sales (C)
737 E. Marietta
- QUINCY**
Cooper Supply Co.
419 So. Tenth St.
Klaus Radio & Electronics Co.
1101 So. Broadway St.
- ROCKFORD**
J. & M. Electronics
2001 9th St.
Jay Tronics
124 28 N. Rockton Ave.
H. & H. Electronics
510 Kiswaukee Ave.
- SPRINGFIELD**
Baptist Electronic Supply
106 W. Jefferson
Bruce Electronics
1120 E. Capitol Ave.
- WAUKEGAN**
Chester Electronics
1416 Washington
Electronic Distributors, Inc.
2009 W. Washington
- INDIANA**
- ANGOLA**
Lokeland Radio Supply
525 S. West St.
- ANDERSON**
Seyberts Radio Supply
1331 Main St.
Anderson's Electronic Supply (H)
515 Pendleton Ave.
- BEDFORD**
Electronic Supply Co.
910 7th St.
- BLOOMING TON**
H. A. Williams Co.
204 S. Rogers
Motor Service Parts Co. (H)
106 N. Rogers St.
Stansifer Radio Co.
1805 S. Walnut St.
- CENTERVILLE**
Vineyard's CB Sales
104 S. Morton St.
- COLUMBUS**
H. A. Williams Co.
1003 Washington
- E. CHICAGO**
Arco Distributing Co.
1101 W. Chicago Ave.
- ELKHART**
Warren Radio Co.
742 S. Main St.
- EVANSVILLE**
Castropa Radio Supply
1014 W. Franklin St.
Evansville Amateur Radio
Supply
1306 Division Street
Hutch & Sons
919 Vine St.
Ohio Valley Sound
20 E. Sycamore St.
Wesco Radio Parts
428 Pennsylvania
- FT. WAYNE**
Brown Electronics, Inc.
1032 Broadway
Ft. Wayne Electronic Supply
3606 Moume Ave.
Lafayette Radio Associate
3101 N. Clinton St.
Norm's Two-Way Radio (C)
1203 E. Cook Road
- Pembleton Labs**
E. Columbus at Barr
Woll Electronic Dist. Inc.
239 241 Pearl St.
Warren Radio Co.
1716 S. Harrison St.
- FRANKFORT**
M. H. Dosssett Co.
355 N. Columbia St.
- GARY**
Cosmopolitan Radio
524 Washington
- HUNTINGTON**
Radco Electronics
67 E. State St.
- INDIANAPOLIS**
Electronic Distributors
4730 E. 10th St.
Graham Electronics, Inc.
122 So. Senate
Graham Electronics
(Glendale Store)
6101 No. Keystone
Radio Distributing Co.
814 No. Senate Ave.
Rodefelf Co.
614 N. Capitol Ave.
Von Sickle Radio
4131 N. Keystone Ave.
Warren Radio Co.
732 N. Capitol
- JEFFERSONVILLE**
Mookler Electronic Supply
500 E. Chestnut St.
- KOKOMO**
Television & Radio
Distributors, Inc.
230 S. Washington
George's Electronic Supplies
320 W. Superior St.
- LAFAYETTE**
Lafayette Radio Supply Co., Inc.
408 E. North St.
McNeil Electronics, Inc.
110 South 16th St.
- LOGANSPORT**
Television & Radio Distributors
206 S. 6th St.
- MARION**
Myers Radio Supply
115 W. 22nd Box 483
- MICHIGAN CITY**
Tri-State Elect. Supply
210-216 E. Michigan
- MUNCIE**
Muncie Electronic Supply
222 N. Madison St.
Standard Radio Parts
1104 S. Walnut St.
- NEW CASTLE**
Hutch & Son, Inc.
2204 Broad St.
- PERU**
Clingoman Sound Equipment
814 W. Main St.
Television Radio Distributors
565 South Wabash
- PETERSBURG**
Vincennes Electronics
607 South 7th St.
- PORTER**
Chesterton Electronics Supply
200 Franklin St.
- RENSSELAER**
Midway Electronics
R.R. #2 (Box 650301)
- RICHMOND**
Fox Electronics Co.
711 So. 9th St.
Rodefelf Co., Inc.
96 W. Main St.
H. A. Williams
114 So. F. St.
- SOUTH BEND**
Colfax Co., Inc.
1005 S. Lafayette St.
Radio Distributing Co.
1212 S. High St.
- TERRE HAUTE**
C. T. Evinger Co.
1216 Wabash Ave.
Midwest Supply Co.
2015 Garfield Ave.
- VINCENNES**
Ohio Valley Sound
902 Main St.
Vincennes Electronics
2nd & Broadway
- WINCHESTER**
E. & S. CB Sales (C)
R. R. #4
- IOWA**
- AMES**
Mid-State Distributing Co.
407 Duff
- BURLINGTON**
T.C.R. Distributors, Inc.
877 Jefferson
Union Supply Co.
231 South Third
- CARROLL**
Mid-State Distributing
216 West 5th St.
- CEDAR RAPIDS**
Iowa Radio Supply Co.
719 Center Pt. Rd., N.E.
Mid-State Distributing Co.
1209 3rd St., S.E.
- CENTERVILLE**
Mid-State Distributing
302 W. Prairie
- CLINTON**
Union Supply Co.
236 8th Ave. So.
- COUNCIL BLUFFS**
World Radio Labs
3415 West Broadway
- CRESTON**
Mid-State Distributing Co.
904 N. Sumner
- DAVENPORT**
T.C.R. Distributors, Inc.
1205 East River Dr.
Union Supply Co.
315 East Second
- DES MOINES**
Bob Evans Amateur Radio Supply
2200 Ingersoll
Gifford Brown
1400 Walnut
Iowa Sound Service (H)
1210 Grand Ave.
Mid-State Distributing Co.
1201 Grand Ave.
Radio Trade Supply Co.
1224 Grand
- FORT DODGE**
Radio Trade Supply
18 South 3rd
- IOWA CITY**
Mid State Distributing Co.
620 South Madison
Woodburn Sound Service
218 E. College St.
Union Supply Co.
602 South Dubuque
- KEOKUK**
Union Supply Co.
1114 Main
- MARSHALLTOWN**
Mid-State Distributing Co.
311 1/2 South Center
Radio Trade Supply
107 3rd Ave. S.
- MASON CITY**
Mid-State Distributing Co.
18 7th Street S.E.
Radio Trade Supply
618 South Federal
Waters Electronic Supply
516 So. Delaware
- OSKALOOSA**
Mid-State Distributing
1001 First Avenue E.
- OTTUMWA**
Meyer Quality Hardware (CB)
322 E. Main St.
Mid-State Distributing Co.
429 West 2nd Street
Union Supply Co.
717 E. Vine St.
- SIoux CITY**
Dukes Radio Co.
209 6th St.
Molstad Distributing Co., Inc.
208 4th St.
- SPENCER**
Mid-State Distributing Co.
518 3rd Avenue East
- WATERLOO**
Farnsworth Electronics
201 E. Mullen
Gifford Brown
308 E. 7th St.
Radio Trade Supply
621 E. 4th St.
- DUBUQUE**
T. C. R. Distributors, Inc.
1944 Central
- KANSAS**
- COFFEYVILLE**
Norman Electronic Supply Co.
121 W. 7th St.
- DODGE CITY**
Interstate Electronic Supply
414 Military
- GREAT BEND**
Electronic Supply, Inc.
2411 - 10th St.
Radio Supply Co.
1910 - 10th St.
- HUTCHINSON**
Acme Radio TV
313 Main St.
Interstate Electronic Supply
325 W. 4th
Wholesale Electronic Supply, Inc.
1019 East Ave. A
- KANSAS CITY**
Henshow TV Parts
1049 Minnesota Ave.
- LAWRENCE**
Fred E. Sutton & Co. (H)
Audiotronics Division
928 Massachusetts
- MANHATTAN**
Acme Radio Supply
Route 2 Box 401
- MISSION**
Henshow TV Supply
5611 Johnson Dr.
- OVERLAND PARK**
Burstain-Applebee Co.
6808 W. 75th Street
- SALINA**
Electronics, Inc.
227 N. Santo Fe
Radio Supply Co.
1809 S. Broadway
- SHAWNEE MISSION**
Accent Sound (H)
6104 Johnson Dr.
- TOPEKA**
Acme Radio Supply
412 E. 10th St.
Carroll Radio TV Supply
1123 E. Sixth
Interstate Electronics Co.
2500 South Kansas
Signal Radio Supply
218 East 6th, Box 1276
- WICHITA**
Amateur Radio Equipment Co.
1203 E. Douglas
Excel Distributors
1551 South Emporio
Interstate Electronic Supply
228 230 Ida
McClelland Sound, Inc. (H)
121 North River Blvd.
Radio Supply Co., Inc.
115 Louro
- KENTUCKY**
- ASHLAND**
Electronic Supply Inc.
2125 Winchester Ave.
- BOWLING GREEN**
Crescent Radio Supply
212 W. 10th St.
Randolph Hale Meredith, Inc.
98 State St.
- CORBIN**
Chemcity Radio & Electronics
201 Lynn Ave.
- COVINGTON**
United Radio, Inc.
313 Bakewell St.
- DANVILLE**
Arcby Electronics
Hustonsville Rd.
- HOPKINSVILLE**
Randolph Hale Inc.
729 E. 4th St.
- LEXINGTON**
Lexington Electronic Supply
824 E. Third St.
Radio Electronic Equipment Co.
480 Skain Ave.
Tel-Rad
1401 Delaware
- LOUISVILLE**
Arcby Electronics
540 E. Gray St.
P. I. Burke Co.
659 S. 9th St.
Peerless Electronics Equipment
1815 South Seventh St.
- NEWPORT**
Holub Dist. Co.
217 East 10th St.
- OWENSBORO**
Ohio Volley Sound
600 W. Third St.
- PADUCAH**
Warren Radio Co.
455 S. 31st St.
- SOMERSET**
Crescent Radio Supply
101 Jasper
- VERSAILLES**
Ronge TV Stereo
126 S. Main St.
- LOUISIANA**
- ALEXANDRIA**
Central Radio Supply
601 N. Third St.
Electronic Service Supply
1109 Bolton
- BATON ROUGE**
Davis Electronics Supply
1735 No. Arcadian Thruway
Ogden Park Record Shop (H)
7125 Florida St.
Rolph's Electronics
1732 Plank Road
Southern Radio Supply
2610 Scenic Highway
Sterling Electronics, Inc.
5201 Government Rd.
The Sound Room (H)
3379 N. Blvd.
- BOGALUSA**
Columbio Radio Supply
802 Main St.
Craven Electronic Supply
731 Avenue F
- DONALDSONVILLE**
Columbio Radio Supply
318 St. Patrick St.
- GRETNA**
Electronic Ports Corp.
721 Franklin
- HOUMA**
Sterling-Crescent Electronics
252 Magnolia Street
- LAFAYETTE**
Lafayette Radio Equipment Inc.
307 Bertrand Drive
Rolph's of Lafayette
P.O. Drawer R P.O. Drawer F
Sterling Electronics, Inc.
1005 Cameron St.
Sterling Radio Products
1416 South College St.
- LAKE CHARLES**
Rolph's Electronics
911 Fourth Ave.
Wholesale Radio Equipment Co.
1722 Common St.
- METAIRIE**
Sterling-Crescent Electronics
3215 Metairie Rd.
- MONROE**
C & O Electronics
201 South Stanley Ave.
David White Electronics
309 Walnut Street
TV Wholesale Supply Co.
P. O. Box 841
- MORGAN CITY**
Rolph's Electronics
715 Brashear St.
- NEW IBERIA**
Rolph's of Lafayette, Inc.
1903 E. Main St.
- NEW ORLEANS**
Wm. B. Allen Supply Co.
1601 Orleans Ave.
Columbia Radio & Supply
3940 Third St.
Epcor
3622 Toulouse
Pelican Electronic Supply Co.
829 No. Broad St.
Radio Parts, Inc.
1112 Magozine St.
Shuler Supply Co.
2504 Tulane Ave.
Sterling-Crescent Electronics
537 S. Claiborne Avenue
Southern Radio Supply
1909 Tulane Ave.
- OPELOUSAS**
Opelousas Radio Equipment Co.
730 West Grolee
- SHREVEPORT**
Sterling Electronic Supply
2530 Linwood Ave.
B & S Electronics
2618 Southern
Industrial Electronics, Inc.
2422 Southern Ave.
Interstate Electric Co.
1419 Culpepper
Ports Electronics
2423 Southern
- WEST MONROE**
Brooks Electronics, Inc.
1307 Natchitoches St.
- MAINE**
- AUBURN**
Down East Ham Shack
P.O. Box 16
Radio Supply Co., Inc.
26 Cross St.
- AUGUSTA**
Powell Radio
337 Water St.
- BANGOR**
Radio Service Lob
23 25 Palm St.
Radio Supply Co., Inc.
83 Farm Rd.
- LEWISTON**
Down East Ham Shack
57 Main St.
- PORTLAND**
Barlett Radio
181 Brackett St.
Commercial Distributors
50 Diamond St.
Radio Service Lob
1004 Congress St.
- ROCKLAND**
Amateur Equipment Sales, Inc.
464 Main St.
- MARYLAND**
- ABERDEEN**
Harco Electronics
Carsins Run
- BALTIMORE**
Alpha Electronics
2014 N. Charles St.
Amateur Radio Center
2203 Fulton Ave.
Electronic Trading Post
514 S. Broadway
Henry O. Berman Co.
12 E. Lombard St.
Konn Ellart Electronics
2050 Rockrose Ave.
E. J. Korvette, Inc.
5407 Baltimore National Pike
Radio Electric Service
5 No. Howard St.
A. R. Spartona
239 No. Gay St.
Video Electronic Supply Co.
5617 Belair Rd.
Wholesale Radio Parts
308 W. Redwood St.
- BETHESDA**
Audio Center (H)
4962 Fairmont Ave.
Empire Electronic Supply Co.
4907 Rugby Ave.
- CUMBERLAND**
Allshenry Electronics, Inc.
1100 E. Oldtown Rd.
Zimmerman Wholesale
162 Bedford St.
TV & Radio Parts
138 N. Mechanic St.
- ESSEX**
Middlesex Electronics
1758 Eastern Blvd.
- FREDERICK**
Honkey's Radio Service
Evergreen Pl. & Elm St.
- GLEN BURNIE**
Revaco of Maryland
407 S. Ritchie Hwy.

HAGERSTOWN
Alleghey Electronics, Inc.
1301 Patamoc Ave.
Staddard Supply Co.
354 S. Cannon Ave.
Zimmerman Wholesale
114 E. Washington St.

HYATTSVILLE
Mark Electronics
3003 Hamilton St.

MT. RAINIER, MD.
Lafayette Radio
3189 Queens Chapel Rd.

ROCKVILLE
E. J. Korvette, Inc.
11800 Rockville Pike

SALISBURY
Almo Radio Co.
317 Park High Ave.
Lafayette Radio
819 Priscilla Ave.
Standard Electronics Supply Co.
301 Snow Hill Rd.

SILVER SPRINGS
Silver Springs Electronics
8203 Georgia Ave.
Federated Electronics, Inc.
1310 Apple Ave.

TOWSON
Baynesville Electronics
1631 Joppa Rd.
E. J. Korvette Store 35 (H)
Perring Pl. Shopping Center
Joppa Rd. & Perry

WHEATON
Electronic Distributors
11324 Fern Street

MASSACHUSETTS

BOSTON
Arkay Soles
1028 Commonwealth Ave.
DeMambo Radio Supply
1095 Commonwealth
Cramer Electronics
817 Boylston St.
Yankee Electronics
257 Huntington Ave.

BROCKTON
Ware Radio Supply Co.
913 Centre St.

CAMBRIDGE
Audio Lab (H)
16 Elliot St.

FALL RIVER
Haddad Elect. Supply
121 Pine St.
E. A. Ross Co.
184 Griffin St.

FITCHBURG
Radio Maintenance Supply Co.
1334 Water St.

HARVARD
Herbert K. Gordon Co. (C)
Wood Chuck Hill Rd.

HYANNIS
Ware Radio Supply Co.
192 Lyanoough Rd.

LAWRENCE
Alco Electronics
3 Wolcott Ave.
DeMambo Radio Supply
198 Broadway

LYNN
Lond Electronic Supply Co., Inc.
45 Suttan St.

NATICK
Lafayette Radio Electronics
1400 Worcester St.

NEEDHAM
You-do-it Electronics
40 Franklin St.

NEW BEDFORD
C. E. Beckman Co.
1135 Commercial St.
E. A. Ross Co.
1663 Purchase St.

NORTH ADAMS
Electronic Supply Center
32 River St.

NORTHAMPTON
C. I. Distributors, Inc.
228 Pleasant St.

NORWOOD
Jas on Electronic Supply Co.
810 Prov. Hwy.

PITTSFIELD
Pittsfield Radio Co.
108 Columbus Ave.

QUINCY
Pilgrim Electronic Supply
26 28 School St.

RAYNHAM
David B. Deon & Co.
Rte. 44 Nr. Express

READING
Graham Radio, Inc. (C)
505 Main St.

SALEM
DeMambo Radio Supply
280 Highland Ave.

SAUGUS
Lafayette Radio Electronics
Rt. 1 & Walnut St.

SPRINGFIELD
Del Padre Supply
999 Worthington St.
Soundco Electronic Supply
147 Dwight St.
Consumer Audionics
461 Summer Ave.

SWAMPSCOTT
CB Radio (C)
84 Aspen Road

WALTHAM
Radio Shack Corp.
920 Main St.

WINTHROP
International Electronic Tech.
345 Main St.

WORCESTER
Consumer Audionics
23 Foster St.
DeMambo Radio Supply
222 Summer St.
Radio Maint. Supply Co.
80 Thomas St.

MICHIGAN

ADRIAN
Wedemeyer Elect. Supply
2982 Treat Rd.

ALPENA
Radio Elect. Supply Co.
303 South Fifth St.

ANN ARBOR
Music Center
1304 S. Unliversity
Music Center (H)
304 S. Thayer
Purchase Radio Supply
327 East Hovover
Wedemeyer Electronics
215 N. 4th Ave.

BATTLE CREEK
Electronic Supply Corp.
94 Hamblin Ave.
Warren Radio Co.
93 Bidwell

BAY CITY
Kinde Distributing Co.
500 Salzburg Ave.

BIRMINGHAM
McCallum & Dean
409 E. Mople
Bartan Electronics
315 Hamilton Row

CADILLAC
Radio Electronic Supply
520 N. Mitchell St.

CHEBOYGAN
Straits Distributors
200 S. Main St.

DEARBORN
Almas Hi-Fi Stereo (H)
15031 Michigan Ave.
Lewis Radio Company (H)
15238 W. Warren
West Side Radio
7521 Wyoming

DETROIT
Almas Hi Fi (H)
7104 W. 7 Mile Rd.
Barton Electronics
1326 Broadway
M. N. Duffy Co.
2040 Grand River W.
Hershel Radio Company
5245 Grand River Ave.
High Fidelity Workshop
16400 W. 7 Mile Road
K. L. A. Labs, Inc. (H)
7375 Woodward Ave.
Kestron Corp.
11715 Livernols
Master Elect. Supply Co.
8801 Fenkell Ave.
Master Elect. Supply Co.
5326 E. McNichols
Newark Ferguson
Electronic Inc.
20700 Hubbell
Norwest Electronics
20926 Schoalcrafft Rd.
Pecar Electronics (H)
11201 Morong Rd.
Radio Electronic Supply
14405 Wyoming
Radio Specialties Co., Inc.
12775 Lyndon
Radio Specialties Co., Inc.
25351 Fenkell Avenue
Radio Supply & Engineering
90 Selden Ave.
Radio Supply & Engineering
15200 Wyoming
Reno Radio
1314 Broadway
StereoLand, Inc. (H)
17131 W. McNichols Rd.
Top Radio Supply Corp.
17885 Mt. Elliott Ave.

EAST DETROIT
Radio Specialties Co.
22901 Gariot Avenue

EAST LANSING
Hi Fi Buys
1101 E. Grand River

ESCANABA
Felton Radio Co.
601 Judington St.

FERNDALE
Warren Radio Compony
1201 Woodward Heights

FLINT
Radio Tube Merchandising Co.
508 Clifford St.
Shand Electronics Inc.
2401 N. Dart Highway
West Fine Arts (H)
823 S. Saginaw

GRAND RAPIDS
Bursma Radio Supply Co.
1030 Schriber N.W.
Elect. Sound Equipment
Co. (H)
2249 Sa. Division Ave.
Radio Electronic Supply
505 Jefferson SE
Radio Parts Co., Inc.
542 S. Division Ave.
Warren Radio Co.
24 Lagan St., SW

GROSSE POINTE
Pointe Electronics (H)
19755 Meak St.

GROSSE POINTE WOODS
StereoLand, Inc. (H)
20746 Mack Avenue

HOLLAND
Bursma Radio Supply Co.
491 Chicago Dr.
Fitzpatrick Elect. Supply Co.
10860 Chicago Dr.

IRON MOUNTAIN
Klungness Elect. Supply
P. O. Box 537, Kent St.

JACKSON
Fulton Radio Supply Co.
1208 Greenwood Ave.
Wedemeyer Electronic Supply
1617 E. Michigan Ave.

KALAMAZOO
Bursma Radio Supply Co.
826 Mills St.
The Sound Room (H)
233 E. Michigan Ave.
Warren Radio Co.
1710 S. Westnedge
Electronic Supply Corp.
429 E. Kalamazoo Ave.

LANSING
Electronic Products Sales Co.
427 E. Michigan Avenue
Fulton Radio Supply Co.
2710 Alpha St.
Offenhauer Co.
5019 W. Saginaw St.
Wedemeyer Electronic Supply
800 Merrill St.

LAURUM
Northwest Radio Supply
435 Tamarack St.

MARQUETTE
Northwest Radio Supply
1010 W. Washington

MUSKOGON
Bursma Radio Supply Co.
773 Apple Ave.
Electronic Distributors, Inc.
1960 Peck Street
Fitzpatrick Electronic Supply
444 Irwin Ave.
West Michigan Sound (H)
1781 Peck St.
Western Elect. Supply Co.
1781 Fifth Street

NILES
Niles Radio Supply
933 N. 5th St.

OWOSSO
Warren Radio Co.
111 Michigan Ave.

PETOSKEY
Radio Electronic Supply Co.
522 Liberty St.

PONTIAC
Customade Prodcis Co. (H)
4540 Huron St.
Electronic Supply Co.
248 E. Pike St.

PORT HURON
Electronic Supply Co.
815 Water St.
Port Electronics
795 24th St.

SAGINAW
Radio Center (H)
1918 Newton Street
Saginaw Distributors
1761 E. Genesee Ave.

SAULT STE. MARIE
Straits Distributing
144 Ridge

TRAVERSE CITY
Radio Electronic Supply
124 W. State St.

UTICA
Lafayette Radio Supply Corp.
45136 Cass Avenue

WYANDOTTE
Radio Specialties Co., Inc.
2953 Fort Street
Wyandotte Electronics
1627 Eureka Avenue

YPSILANTI
Wedemeyer Electronic Supply
22 S. Grove Street

MINNESOTA

DULUTH
Northwest Radio
123 E. First St.
Stark Radio Supply Co.
118 No. 2nd Ave. E

EXCELSIOR
Krueger TV & Hi Fi (H)
406 So. Second St.

HIBBING
Electronic Assoc. 24
3705 12th Ave. E

MANKATO
S. & M. Supply Co.
101 North Second St.

MINNEAPOLIS
Audio King (H)
7010 France Ave.
Low Bonn Co.
1211 Lasalle St.
Low Bonn Co.
67 S. 12th St.
Electronic Assoc. 1
2840 Chicago Ave.
Electronic Assoc. 5
6240 Lyndale Ave.
Electronic Assoc. 13
925 Winter St. NE
Electronic Center, Inc.
107 3rd Ave. N
Kencraft Hi Fi (H)
714 Washington Ave. S.E.
Schaak Electronics, Inc.
3867 Minnehaha Ave.
Sound of Music (H)
404 14th Ave. S.E.
Sound of Music
91 & 10th St.
Harry Stark Radio-Supply
112 3rd Ave. No.

MOOREHEAD
Electronic Assoc. 14
1221 Main Ave.

ROCHESTER
Low Bonn Co.
222 1st Ave. NE
Electronic Assoc. 3
2311 So. Broadway
S. M. Supply Co.
902 7th St. N.W. Box 29

ST. CLOUD
Electronic Assoc. 4
117 5th Ave. So.

ST. PAUL
Electronic Assoc. 2
341 Jackson St.
Electronic Distributing Co.
720 29th Ave. S.E.
The Howard Co.
141 W. 7th St.
Schaak Electronics Inc.
1579 Grand Ave.
Sound of Music
242 & Hamlin Ave.
Stork Radio Supply
154 University

WILMAR
Electronic Assoc. 25
Box 817 So. 6th St.

MISSISSIPPI

BILOXI
Egans Music Store
Corner Porter W. Howard
Electronic Parts Co.
295 Iberville Rd.

COLUMBUS
Bluff City Distributing
Highway 82 West
Columbus Electronics
1502 Hwy. 45 North

GREENVILLE
Bluff City Distributing
Highway 1 South
Tri-State Electronics
223 Hwy. 1 South

GREENWOOD
Parham Electronics Co.
300 3 4 Carrollton
Teague Electronics
208 Fulton St.

GULFPORT
Sterling-Crescent Radio Supply
352 Pass Road
E. A. Helwick TV
2214 24th Ave.

HATTIESBURG
N & H Electronic Supply
402 E. Pine St.
Swan Electronics, Inc.
506 Boule St.

JACKSON
Cabell Electric Co.
422 S. Parish St.
Risher Radio Supply
837 Bailey Ave.
Swan Electronics, Inc.
Teague Electronics
716 So. Gollatin St.

LAUREL
Radio & TV Essentials
619 Commerce St.

MCOMB
Risher Radio Supply Co.
401 So. Broadway St.

MERIDIAN
Hooper Electronic Supply Co.
1825 Sixth St.
Risher Supply Co., Inc.
3510 8th St.

NATCHEZ
TV Wholesale Supply Co.
500 Jefferson St.

PASCAGOULA
May Electronic Supply
605 E. Ingalls Ave.

TUPELO
Bluff City Distributing
208 Troy St.

MISSOURI

BUTLER
Henry Radio
211 N. Main

CALIFORNIA
George's Music House (H)
Highway 87 South

CAPE GIRARDEAU
Suedekum Electronic Supply Co.
2215 Broadway P. O. B. 221

CHILLICOTHE
St. Joseph Radio Supply Co.
724 Locust St.

DeSOTO
Lueking Electronics
Rock Road

HANNIBAL
Yark Radio TV Corp.
2217 Market St.

INDEPENDENCE
Henshaw TV Parts Supply
207 E. Alton

JEFFERSON CITY
Central Missouri Distributing Co.
324 East Capitol Street
Robertson Electronics, Inc.
612 Mulberry St.
Show Me Electronics
609 Jefferson

JOPLIN
Four State Radio & Supply
402 Wall St.
Telradio, Inc.
1610 Main
KANSAS CITY
Burstein Applebee Co.
1012 McGee St.
Burstein Applebee
1017 Charlotte
Burstein Applebee Co.
307 E. 55th St.
Electronic Supply Co., Inc.
4100 Main St.
Henshaw Radio Co.
3619 Troost Ave.
McGee Radio & Electronics
1901 McGee St.
Walters Radio Supply
3645 Main
Radiolab, Inc.
3604 Main

KIRKSVILLE
Adair Distributing, Inc.
205 S. Mullanix
Mid-State Distributing Co.
515 N. Main

POPLAR BLUFFS
Tri State Radio Supply
536 E. Pine Blvd.

ROLLA
Show Me Electronics
Highway 72 East

SALEM
Morton Supply Co.
P. O. Box 488

SEDALIA
Radio TV Supply, Inc.
321 E. Main St.

SIKESTON
Teague Electronics
523 E. Malone St.

SPRINGFIELD
Norman Electronic Supply Co.
592 E. Trafficway
Henry Reed Radio Supply
805-09 Boonville Ave.
Stout's Radio & Supply
1215 East Trafficway

ST. CHARLES
Deltronics Distributing
406 Clay Street

ST. JOSEPH
Acme Radio Supply
520 So. 10th St.
St. Joseph Radio & Supply
720 S. 9th St.

ST. LOUIS
Walter Asha Radio Co.
1125 Pine St.
Tom Brown Radio Co.
3924 Washington Ave.
Ebinger Radio
2501 S. Jeffers on Ave.
Electronic Mart, Inc.
7552 Manchester Ave.
Gem North County (H)
1795 Dunn Rd.
Gem Northway (H)
10900 Page Blvd.
Gem Southway
3901 Lemay Ferry Rd.
Hollander
3900 West Pine
King Sound Co. (H)
10228 Page Blvd.
Deltronics Distributing
822 Hodiamont
Radonics Electronics, Inc.
4445 Gustine Ave.
Radonics West, Inc.
2121 Big Bend Blvd.
Radonics Electronics, Inc.
5040 Easton Ave.
Radonics Electronics, Inc.
2218 S. Jefferson Ave.
Radonics
6820 Gravois Ave.
Ralph Toler Supply
4855 Easton Ave.
Van Sickle Radio Co.
1915 Washington

Warner Communications Corp. (CB)
3555 Ritz Center
WEST PLAINES
Mo-Ark Electronics
West Plains, Mo.

MONTANA

BILLINGS
Electronic Supply Co.
250 11th St. W.
Klier Sound (H)
15 N. 31st St.
Television Service & Supply Co.
2305 Montana Ave.

BUTTE
Treasure St. Gas Elect.
827 S. Montana St.

GREAT FALLS
Art's Electronic Service
210 4th Street So.
Electric City Radio Supply
2315 10th Svc. So.
Electronic Distributing Inc.
320 6th Ave. South

HAYRE
Northern Electronics (H)
212 1st

HELENA
D. N. Latus Co., Inc.
Box 1720
1531 National

MISSOULA
Northwest Distributors
P.O. Box 1152
509 So. Higgins
Electronic Parts
2104 Brooks

NEBRASKA

FREMONT
Electronic Service (H)
308 No. Main St.

GRAND ISLAND
Radio Equipment Co.
808 W. Front St.

LINCOLN
Hicks Radio Co.
1522 D. St.
Kitronics Corp.
3910 South St.
Leuck Radio Supply
1024 L. St.
Scott Electronic Supply Corp.
4040 Adams

NORFOLK
Radio Equipment Co.
207 So. 8th St.

NORTH PLATTE
Scott Electronic Supply Corp.
713 No. Jeffers

OMAHA
J. B. Distributing Co.
1616 Cass St.
Ladd Electronics (CB)
111 North 41st
Omaha Electronics
2200 Leavenworth
Radio Equipment Co.
625 No. 18th St.
Sidles Co.
7302 Pacific St.

SCOTT'S BLUFF
Joachim Radio Supply, Inc.
1913 Broadway
Tri State Electronics, Inc.
102 E. 15th St.

NEVADA

LAS VEGAS
Metcalfe's, Inc.
25 E. Californio St.

RENO
Dunlap Electronics
5555 Eureka
Electronic Dist. Co.
720 Tahoe St.
Art Rempel Sound Supply
460 South Wells Ave.

NEW HAMPSHIRE

CONCORD
Evans Radio, Inc.
Route 3A Bow Jct.

DOVER
American Radio Corp.
6th Street

KEENE
DeMambo Radio Supply
300 West St.

MANCHESTER
DeMambo Radio Supply Co.
1308 Elm St.
Radio Service Lab
670 Chestnut St.
Wholesale Electronics
40 Bridge St.

PORTSMOUTH
Dick Levy's Auto & Elect. Sy
18 Pleasant

NEW JERSEY

ASBURY PARK
Parts Unlimited Stores
788 Cookman Ave.
Dart Electronics
1111 Rt. 35

ATLANTIC CITY
Almo Radio Co.
1800 Verona Ave.
Radio Electronic Service Co.
452 N. Albany Ave.

BAYONNE
Parts Unlimited Stores
433 Broadway

BERLIN
Midstate Radio Supply Co.
157 White Horse Pk.

BLOOMFIELD
Benger Electronic Supply
241 Bloomfield Ave.
Parts Unlimited Stores
1 State St.

BRIDGETON
Joos Radio Shop
67-69 So. Pearl St.

E. BRUNSWICK
Parts Unlimited Stores
Windsor Shopping Center
Woolco
310 Rt. 18

CALDWELL
Parts Unlimited Stores
275 Bloomfield Ave.

CAMDEN
Almo Radio Co.
1133-37 Haddon Ave.
General Radio & Supply Co.
600 Penn St.
Radio Electric Service
513 Cooper St.

COLONIA
Rahway Electronics Corp.
1303 St. George Ave.

DENVILLE
Lashen Electronics, Inc.
38 Broadway

DOVER
Kay Distributors
13 Bassett Hy.

E. BRUNSWICK
Gem Electronics
Route 18
Parts Unlimited Stores
Windsor Shopping Center
Woolco
310 Rt. 18

EATONTOWN
Atkins & Smith
20 Broad St.

EGG HARBOR
Karl CB
40 Darmstadt Ave.

EAST ORANGE
Gem Electronics
438 Central Ave.
Parts Unlimited Stores
460 Main St.

ELIZABETH
Parts Unlimited Stores
1159 Elizabeth Ave.

HACKENSACK
Emsco Electronics, Inc.
14 Essex St.
Nidisco Hackensack
55 State St.
Parts Unlimited Stores
402 Main St.

HAZLET
Parts Unlimited Stores
Route 35

HIGHLAND PARK
William Radio Supply Co.
265 Woodbridge Ave.

HOBOKEN
Parts Unlimited Stores
321 Washington St.

IRVINGTON
Parts Unlimited Stores
1064 Clinton Ave.

JERSEY CITY
Nidisco Jersey City, Inc.
713 Newark Ave.
Parts Unlimited Stores
841 Bergen Ave.

KEARNY
Parts Unlimited Stores
449 Kearny Ave.

LINDEN
Parts Unlimited Stores
151 South St.

MORRISTOWN
Parts Unlimited Stores
152 South St.

NEWARK
Lafayette Radio Corp.
24 Central Ave.
Parts Unlimited Stores
260 Washington St.
Parts Unlimited Stores
569 Springfield Ave.
Sound Reproduction (H)
34 New St.

OCEAN GROVE
Asbury Electronic Supply
108 S. Main St.

PARAMUS
Gem Electronic of N.J., Inc.
385 Route 17
Lafayette Electronics Corp.
182 Route 17
Leonard Radio
Route 17 off Route 4

PASSAIC
Nidisco Passaic
294 Passaic St.
Parts Unlimited Stores
747 Main St.

PATERSON
Parts Unlimited Stores
101 Market St.

PENNSAUKEN
Lafayette Radio Associate
Store - Route 38

PERTH AMBOY
Parts Unlimited Stores
279 Madison Ave.

PHILIPSBURG, N. J.
Carl B. Williams Co.
Phillipsburg, N. J.

PLAINFIELD
Lafayette Radio Corp.
139 W. 2nd St.
Parts Unlimited Stores
401 W. Front St.

RED BANK
Monmouth Radio Supply Co.
404 Shrewsbury Ave.

RIDGEFIELD
Nidisco
484 Bergen Blvd.

SHREWSBURY
Federated Purchaser
483 Broad St.

SOMERVILLE
Parts Unlimited Stores
206 W. Main St.

SPRINGFIELD
Disco
469 Rt. 22
Federated Purchaser, Inc.
155 U.S. Route 22
Gem Electronic of Springfield
U.S. Route 22

TOTOWA
Arrow Electronics
225 U.S. Rt. 46

TRENTON
Almo Radio
201 Calhoun St.
House of Hi Fi (H)
1819 N. Olden
Jackson Distributors
1900 Genesee St.
Nidisco Trenton, Inc.
985 Princeton Ave.

UNION
Parts Unlimited Stores
2022 24 Morris Ave.

UNION CITY
Nidisco Union City
2812 Hudson Blvd.

VINELAND
Almo Radio Co.
219 Landis Ave.

WEST NEW YORK
Parts Unlimited Stores
5401 Bergenline Ave.

WHIPPANY HANOVER
State Electronic Parts
36 Rte. #10

WRIGHTSTOWN
A.T.S. Electronic Distributors
Wrightstown Shopping Center

NEW MEXICO

ALBUQUERQUE
Electronic Parts Co.
222 Truman St., NE
Kieruff Electronics Co.
6405 Acama SE
Midland Spec. Co.
1712 Lomas Blvd., NE
Sound Eng. Equipment Co. (H)
3011 Monte Vista Blvd.
Tele Radio Supply Co.
1710 Central SE

CLOVIS
Electronic Parts Co.
1427 N. Main St.

LAS CRUCES
Moniles Electronic Supply
802 S. Soland Drive

LOS ALAMOS
Freyman Electronics
1083 Opol St.

ROSWELL
R. & R. Supply Co., Inc.
605 E. 2nd St.

SANTA FE
A-1 Communication
441 Cerrillos Rd.

NEW YORK STATE

ALBANY
Audio Video Corp. (H)
324 Central Ave.
Fort Orange Radio
904 Broadway
Greylock Electronics
65 Central Ave.
Seiden Sound
79 Central Ave.
Edwin E. Taylor Co.
465 Central Ave.

AMSTERDAM
Adirondack Radio Supply
185 - 191 W. Main St.

AUBURN
Dares Radio
22 E. Genesee St.

BATAVIA
Radio Equipment Corp.
5 Center St.

BAY SHORE
Gem Electronic Suffolk, Inc.
Sunrise H'way & 5th Ave.

BINGHAMTON
Audio Service Comp. (H)
168 Water St.
Federal Electronics, Inc.
Vestal P'way, Vestal
Lafayette Electronics
Vestal Parkway
Stock Electronics, Inc.
45 Washington St.
Wehle Electronics, Inc.
25 Washington St.

BLUE POINT
Standard Parts Corp.
Montauk Highway

BUFFALO
Buffalo Audio Center (H)
147 Genesee St.
Dymac, Inc.
2325 Main St.
F. M. Sound Equip. Corp. (H)
1241 Main St.
Genesee Radio & Parts Co., Inc.
2550 Delaware Ave.
Olson Electronics
711 Main St.
Olson Electronics
2359 Sheridan Dr.
Purchase Radio & Hi Fi
747 Main St.
Purchase Radio & Hi Fi
1230 Niagara Falls Blvd.
Radio Equipment Corp.
147 151 Genesee St.
Radio Equipment Corp.
3240 Sheridan Dr.
Standard Electronics, Inc.
1505 Main St.
Wehle Electronics, Inc.
473 475 Ellicott St.

CHITTENANGO
Firms. Traders Exchange (H)
299 Genesee St.

CORTLAND
Winchell Electronics
65 Clinton Ave.

DUNKIRK
Barker-Higbee, Inc.
220 Central Ave.

ELMIRA
Chemung Electronics
601 East Church St.
Eddy Electronics
108 W. Church St.

FARMINGDALE
Arrow Electronics
900 Broad Hollow Rd.
Harrison Radio
20 Smith St.

GLENS FALLS
Ray Supply Co.
Upper Glen St.
Seiden Sound
Upper Glen St.

GLOVERSVILLE
Dillon Electric
65 Washington St.

GREAT NECK
Gem Electronics Great Neck
271 Northern Blvd.

HEMPSTEAD
Davis Electronics
204 Main St.
Standard Parts Corp.
Hempstead, N.Y.

HERKIMER
Herkimer Electronics
108 No. Prospect St.

NEW HYDE PARK
Electronic City
271 08 Union Tpke.
Dressner
1523 Jericho Turnpike

HICKSVILLE
Electronic City
643 Mid Island Plaza
Gem Electronic Dist., Inc.
Broadway

HORNELL
Hornell Electronic
286 Main St.

HUDSON FALLS
Northway Electronic Dist.
114 River St.

HUNTINGTON
Gem Electronic Dist., Inc.
120 W. Jericho Tpke.

ITHACA
Fred's Record Shop, Inc. (H)
124 W. State St.
Lafayette Radio Associate Store
1201 Dryden Rd.
Stellar Industries Inc.
10 Graham Road W.

JAMESTOWN
Warren Radio, Inc.
2208 Washington St.

KINGSTON
Greylock Electronic Dist.
Albany Ave. Ext.
Arace Electronic Dist.
16 Van Deusen St.

LEVITTOWN
Electronic Center
3146 Hempstead Tpke.

MALONE
Ray Supply, Inc.
55 W. Main St.

MASSAPEQUA
A. & P. Electronics
12 Sunrise H'way

MASSENA
Seaway Electronics, Inc.
Winthrop Rd., Rt. 420

MERRICK
Electronic Unlimited, Inc.
1732 Sunrise H'way

MIDDLETOWN
Artec Distributing
17 21 Cottage St.
Audio Center (H)
65 North St.
Certified Electronics
Certified Drive

MINEOLA
Arrow Electronics
525 Jericho Tpke.
Nassau Elect.
460 Jericho Tpke.

MT. VERNON
Gem Electronics, Mt. Vernon
70 E. Third St.
Nanuet Elect.
246 Rt. 59
Parts Unlimited Stores
73 Gramatan Ave.

NEWBURGH
Chief Electronics
248 Washington Street
Randzin Electronics
297 MD 15 Route 17K

NEW ROCHELLE
Parts Unlimited Stores
622 Main St.

NEW YORK CITY AREA

BROOKLYN
Electronic Equip.
2912 Atlantic Ave.
Gem Electronics
485 Coney Island Ave.
Gem Electronics
59 Willoughby St.
Graham Electronic Dist.
846 Manhattan Ave.
Hygrade Electronics, Inc.
9216 Church Ave.
Laco Electronics, Co.
4924 4th Ave.
Lafayette
2265 Bedford Ave.
National Radio
572 Albany Ave.
T.V. Parts
1910 Coney Island Ave.

BRONX
Fordham Radio Supply
265 E. 149th St.
Electronic World
239 E. 149th St.
Gem Electronic W. Bronx, Inc.
1216 Jerome Ave.
Gem Electronic Distributors
565 E. Fordham Rd.
Gem Electronic Distributors
351 Grand Concourse
Parts Unlimited Stores
215 W. 230th St.
Parts Unlimited Stores
30 32 W. Fordham Road
Wescon
574 E. Fordham Rd.

QUEENS

BAYSIDE
Snyder Electronic Dist.
39 25 Bell Blvd.

BELLEROSE
Gem Electronics, Inc.
247 4 Jericho Tpke.

FLUSHING
Allen Electronics, Inc.
41 42 Main St.
Stuart Electronic Dist.
79 12 Parsons Blvd.

FOREST HILLS
Gem Electronic Forest Hills
101-10 Queens Blvd.

JAMAICA
Harrison Radio Corp.
144 24 Hillside Ave.
Lafayette Radio Corp.
165 08 Liberty Ave.

LONG ISLAND CITY
Cramer Electronic Supply
41 08 Greenpoint Ave.

RICHMOND HILL
Anchor Electronic Dist. Co.
116-01 101st Ave.

WOODSIDE
Boro Electronics, Inc.
69 18 Roosevelt Ave.

MANHATTAN
Adson Radio & Electronics
189 Greenwich St.
Alex Radio Corp.
132 Nassau St.
Arrow Electronics, Inc.
97 Chambers St.
Audio Unlimited Inc. (H)
715 2nd Ave.
Brooks Radio
487 Columbus Ave.
Dale Electronics
244 W. 14th St.
Gem Electronics of N.Y.
202 E. 44th St.
Grand Central Radio
124 E. 44th St.
Harrison Radio Corp.
8 Barclay St.
Harvey Radio Co.
2 W. 45th St.

Lafayette Radio Corp.
17 Union Sq. W.
Lafayette Radio Corp.
71 W. 45th St.
Leonard Radio
1162 6th Ave.
Midway Radio & TV
60 West 45th St.
Packard Electronics Corp.
33 Union Sq. W.
Parts Unlimited Stores
234 Third Ave.
Parts Unlimited Stores
1531 Second Ave.
Parts Unlimited Stores
502 W. 181st St.
Parts Unlimited Stores
486 Lenox Ave.
Robsons (H)
119 West 57th St.
Sylvan Wellington Co.
269 Canal St.

STATEN ISLAND
AAT Dist.
1854 Hylon Blvd.

NIAGARA FALLS
Radio Equipment Corp.
1720 Pierce Ave.

NO. TONAWANDA
B. & O. Radio Equipment
110 Webster St.

PATCHOQUE
Standard Parts Corp.
235 W. Main St.

PLAINVIEW
Gem Electronic Dist. Inc.
East Bathpage Rd.

PLATTSBURGH
M. P. Myers Co., Inc.
130 Bridge St.
Ray Supply Co.
13 Saillay Co.

POTSDAM
Radaer Radio Co. (H)
25 Main St.

POUGHKEEPSIE
B. & B. Electronic Co.
535 Main St.
Dutchess Television
5 Spackenkill Rd.
Greylock Electronics
2 Porker Ave.
Higgins & Sheer, Inc.
123 Dutchess Tpke.

RIVERHEAD
D. & S. Electronics, Inc.
302 Lincoln St.

ROCHESTER
Dworski Music Store (H)
411 Main St. E.
Goldrest Electr.
482 St. Paul St.
Lafayette Radio Associate Store
701 W. Main St.
Rochester Radio Supply
140 W. Main St.
Wehle Electronics, Inc.
306 Andrews St.

ROME
Rome Electronics, Inc.
108 Spring St.

SCARSDALE
Lafayette Radio Elect. of
Westchester
691 No. Central Ave.
Forbee's Elect.
644 Central Ave.

SCHENECTADY
Adirondack Electronics, Inc.
1720 Broadway
Grimmer Electronics
41 N. Brandywine Ave.
Schnectady Electronics
1708 Altmont Ave.

SMITH TOWN
Gem Electronics
731 Jericho Tpke.

SPRING VALLEY
Marr's Radio
Route 59

PORT RICHMOND
Parts Unlimited Stores
1381 Forest Ave.

SYOSSET
Lafayette Radio Electronics
111 Jericho Tpke.

SYRACUSE
Moce Electronics, Inc.
3461 Erie Blvd. East
Gordon Electronics
2739 Erie Blvd. East
Roberts & O'Brien, Inc.
839 Hiawatha Blvd. W.
Salina Electronics
620 So. Salina St.
Roy C. Stage
1449 S. Salina St.

TROY
Trojan Electronic Supply Co.
15 Middleburg St.

UTICA
Associated Electronic Supply
1427 Sunset Blvd.
Grapac Electronics
248 Elizabeth St.
Soundarama (H)
1415 Oriskany St. W.
Vaeth Electric
35 Genesee St.

VALLEY STREAM
Gem Electronics
218 Sunrise Hwy.

WATERTOWN
Gateway Electronics
546 Factory St.
Lafayette Radio Associate Store
304 Factory St.
Watertown Electronics, Inc.
531 State St.

WESTBURY
Adelphi Electronics, Inc.
Jericho Tpke.
Harvey Radio
60 Crossways Park W.

WHITE PLAINS
Parts Unlimited Stores
315 Mamaroneck Ave.
Thru Way Electronics Corp.
241 13 Tarrytown Rd.

YONKERS
Gem Electronic Yonkers, Inc.
1937 Central Ave.

YORKVILLE
Valley Electronic Lab., Inc.
Truck Route 5A

NORTH CAROLINA
ASHEVILLE
Freck Radio Refrigeration
38 Biltmore Ave.
Long's Distributing Co.
260 Biltmore Ave.

BURLINGTON
Womack Electronic Supply
315 N. Church St.

CHARLOTTE
Dixie Radio Supply
1431 Bryant St.
J. Little Record Shop (H)
126 W. Fifth St.
Southern Electronics Corp.
919 W. Morehead St.
World Electronics, Inc.
1415 S. Tryon St.

DURHAM
Vickers Electronic Supply Co.
506 E. Main St.
Womack Electronics & Supply
512 E. Peabody St.

ELIZABETH CITY
Forbes Radio & Supply
Elizabeth Martins.

FAYETTEVILLE
Eastern Radio Supply
952 Bragg Blvd.
MSD Stereo Center (H)
101 Hay St.
Southeastern Radio Supply
325 Rowan St.

GASTONIA
Dixie Radio Supply
507 W. Airline Ave.
Shifflet & Dickson
1008 W. Franklin Ave.
Stroup Hi Fi Center (H)
112 Green Dr.

GOLDSBORO
Womack Electronic Supply
106 N. Carolina St.

GREENSBORO
Southeastern Radio Supply
445 English St.
Carolina Radio Supply
836 Huffman St.
Guilford Electronics
315 Asheboro St.
Harvey West Music (H)
226 28 W. Market St.

GREENVILLE
Womack Electronics Corp.
311 Boyd Ave.

HICKORY
Audio Sound, Inc. (H)
1624 N. Center St.
Southeastern Radio
907 Second Ave. N.W.

HIGH POINT
Womack Electronic Supply Co.
130 Lindsay St.

KINSTON
Southeastern Radio Supply
1005 E. Highland Ave.

JACKSONVILLE
Southeastern Radio Supply
1009 Lejeune Blvd.

RALEIGH
Southeastern Radio Supply
414 Hillsboro St.
Capitol Electronics
425 Glenwood Ave.
Stephenson Music Co. (H)
2011 Cameron Vill.
Womack Supply Co.
421 Salisbury St.

ROCKY MOUNT
Womack Electronics, Inc.
571 N. Raleigh St.

SALISBURY
Southeastern Radio
316 N. Depot St.

SHELBY
Freck Radio Supply Co.
402 W. Dixon Blvd.

STATESVILLE
Victor Turner Electronics
1128 Shelton Ave.

WILMINGTON
Southeastern Radio Supply
1817 Dawson St.

WILSON
Southeastern Radio Supply
321 Goldsboro St.

WINSTON-SALEM
Electronic Wholesalers, Inc.
938 Burke St.

NORTH DAKOTA

BISMARCK
Electronic Associates 30
308 13th St. No.

FARGO
Bristol Distributing Co.
1345 Main Ave.
Radio Equipment Co.
1416 1st Ave. No.

GRAND FORKS
Bristol Distributing Co.
1017 S. Washington
Electronic Associates 26
1307 9th Ave. No.

MINOT
John Iverson Co.
MANDAM
John Iverson Co.

WILLISTON
John Iverson Co.

OHIO

AKRON
Akron Electronic Supply
107 S. Arlington St.
Main TV Supply Co.
739 N. Main St.
Ohio Browning
4471 Ridgedale Dr.
Olson Radio Warehouse
69 W. State St.
The Sun Radio Co.
110 E. Market St.
Warren Radio Co.
71 S. Broadway

ALLIANCE
Radio Parts Co.
356 E. State St.

ASHLAND
Servex Electronic Dist.
98 E. Second St.

ASHTABULA
Morrison's Radio Supply
331 Center St.

CANTON
Burroughs Amiet Electronics
2705 Fulton Rd. N.W.
Canton Stereo Center (H)
3023 Cleveland Ave. N.
The Electronic Center, Inc.
1300 N. Cherry Ave.

CLEVELAND
Audio Craft (H)
2915 Prospect Ave.
Broadway Elect. Supply Co.
6207 9 Broadway S.E.
Fox Radio Parts Co.
4314 Lee Rd.
Olson Radio Warehouse
2020 Euclid Ave.
Olson Radio
6153 Mayfield Rd.
Pioneer Stand. Electronics
5403 Prospect Ave.
Pioneer Elect. Supply Co.
55 S. Euclid Ave.
Progress Radio Supply Co.
413 Huron Rd.
Progress Radio Supply Co.
414 High St.
Progress Radio Co.
1331 Miles Ave.
Radio Electronic Parts
226 28 W. Market St.
Radio Parts Co.
4314 Lee Rd.
Radio Parts Co.
8232 Carnegie
Radio Parts Co.
13357 Lorain Ave.
Radio Parts Co.
1650 Miles Ave.
Warren Radio Co.
5000 Prospect
Winteradio, Inc.
1468 W. 25th St.

CINCINNATI
Customcrafters Audio, Inc. (H)
2259 Gilbert Ave.
Holub Distributing Co.
1400 Sycamore St.
Newark Herrlinger Elect. Corp.
112 E. Liberty St.
Steinberg, Inc.
633 Walnut St.
United Radio, Inc.
Summit & Reinhold Sts.

COLUMBUS
Anderson HiFi Center (H)
2244 Neil Ave.
Buckeye Electronic Dist.
242 E. Long St.
Hughes Peters, Inc.
481 E. 11th Ave.
Olson Radio Corp.
142 N. High St.

DAYTON
Custom Electronics, Inc.
1918 So. Brown St.
Srepco, Inc.
314 Leo St.
Stotts Friedman Co.
108-112 No. Jefferson

DEFIANCE
Hutch & Son
210 N. Clinton

DELAWARE

Servex Electronic
Distributors, Inc.
175 E. Winters St.

DENNISON
Electronic Center
18 No. Fourth St.

E. CLEVELAND
Euclid Radio & Parts
16379 Euclid Ave.

ELYRIA
Et-A-Co.
235 Lodi St.

FINDLAY
Beagles
113 W. Crawford St.

FREMONT
Servex Electronic Dist.
1110 E. State St.

LIMA
Lima Radio Parts
600 No. Main St.
Hutch & Son
Roberts at Lenore

LORAIN
Essex Electronics, Inc.
1434 Broadway
Pioneer Electronic Supply Co.
1648 Broadway

MANSFIELD
Fox Radio Parts Co.
208 W. Third St.
Servex Electronics, Inc.
775 Springmill Rd.

MARIETTA
Marietta Radio & Electronics
1028 E. Green St.

MARION
Servex Distributing Co.
224 Prospect St. N.

MIDDLETON
Beatty's Electronic Shop
1600 Manchester Ave.
Hinkles Electronics
5021 Grand Ave. at Blue Ball

MT. VERNON
Servex Electronic Distributors
516 So. Main St.

PARMA
Olson Electronics Southland
6813 Pearl Rd.
Winteradio Electronic Supply
5373 Ridge Rd.

PORTSMOUTH
Fuller Sound Electronic Supply
927 Seventh Ave.
Wpoy Hi Fi & Stereo Center (H)
1009 Gallia St.

SANDUSKY
Pioneer Elect. Supply Co.
317 Perry St.
Servex Distributing Co.
534 Columbus Ave.

SO. EUCLID
Winteradio, Inc.
4432 Mayfield Rd.

SPRINGFIELD
Standard Radio
1300 St. Paris Pke.

STEUBENVILLE
D. & R. Radio Supply
221 S. Third St.

TIFFIN
Hutch & Son
278 N. Washington
Servex Electronic Dist.
215 Jefferson St.

TOLEDO
Hillebrand Electronics
4665 W. Bancroft St.
Jomiesons (H)
3417 Dart St.
Lifetime Electronics
1501 Adams St.
Selectronic Supply, Inc.
3185 Bellevue Rd.
Warren Radio Co.
1002 Adams St.

WARREN
D. & J. Electronic Supply
207 Elm Rd. S.E.

WASHINGTON CH
Hutch & Son
209 E. Market St.

WOOSTER
Servex Electronic Dist.
230 N. Buckeye St.

YOUNGSTOWN
Armies Electronics
320 W. Federal St.
Glen Electronic Supply Co.
1716 Market St.
Radio Parts
1316 Market St.
Ross Radio Co.
325 W. Federal St.

ZANESVILLE
Thompson Radio Supply
110 S. 6th St.

OKLAHOMA

ARDMORE
Trice Wholesale Electronics
709 Grand Ave.

BARTLESVILLE
Norman Electronic Supply Co.
700 Frank Phillips

ENID
Trice Wholesale Electronics
322 S. Independence

LAWTON

I. G. Coles (H)
18057 Cache Rd.
Trice Wholesale Electronics
30 E. 1st St.

MCALISTER
Trice Wholesale Electronics
529 N. Main St.

MUSKOGEE
Soaner Radio & TV Supply
110 Callahan
Trice Wholesale Electronics
211 Callahan

NORMAN
Thomson Sound System (H)
315 W. Boyd St.

OKLA CITY
Communication Electronics
4007 N. Pennsylvania
Electronic Supply Co.
212 N.W. 10th St.
Audio Specialties (H)
Sheppard's Mall
Kelly's Discount Electronics
5903 N.W. 39th
Lee's Radio & TV
2105 S.W. 29th
Radio Supply, Inc.
724 N. Hudson
Reeder's Two-Way
Communications
4014 N.W. 10th St.
Trice Wholesale Electronics
4701 N. Skies
Trice Wholesale Electronics
800 N. Hudson

OKMULGEE
Trice Wholesale Electronics
120 N. Oklahoma

TULSA
Greer's
1146 S. Lewis
Oil Capitol Electronics
708 So. Sheridan
S. & S. Radio Supply Co.
537 So. Kenosha
Sound Unlimited (H)
3745 S. Peoria
Trice Wholesale Electronics
1104 So. Denver
Radio, Inc.
1000 S. Main

OREGON

ALBANY
Oregon Ham Sales
409 W. First Ave.

BEAVERTON
Electro Tech, Inc. (H)
347 N.E. Broadway
Stereotronics (H)
P.O. Box 189
10029 SW Canyon Rd.

CORVALLIS
Chase Radio TV Service (H)
242 South 2nd St.

EUGENE
Carlson Hatton & Hoy (H)
990 Garfield
Thompsons Record Center (H)
62 W. Broadway
United Radio Supply (H)
Rt. 1, Box 3266

GRANTS PASS
Wm. C. Rahlhing (H)
P.O. Box 670

KLAMATH FALLS
R. F. Supply Co.
509 Commercial

MEDFORD
United Radio Supply
605 N. First
Verl G. Walker
P.O. Box 1586

NEWPORT
Radi, Inc.
136 S.W. Coast Highway

NORTH BEND
Pacific Radio Supply (H)
1095 Virginia

PENDELTON
Round Up Electronics (H)
Rt. 1, Box 126R

PORTLAND
Audio Craft (H)
11908 N.E. Halsey
Eoff Electronics Co.
P.O. Box 2828
509 N.W. 10th Ave.
H & R Radio Supply
1812 N.E. 43rd Ave.
Hawthorne Electronics (H)
3580 S.E. Hawthorne
Jomac Products Co.
8600 N.E. Sandy Blvd.
Lou Johnson Co., Inc.
2720 N.W. 29th
Central Distributors
955 N.E. Union
Electra Tech., Inc. (H)
3714 S.E. Hawthorne
Electronics Wholesale
631 N.E. Grand Ave.
Northwest Radio Supply
110 S.E. 8th Ave.
Oregon Hi-Fi & Recorder Co. (H)
500 S.W. 5th Ave.
Ott's Hi Fi (H)
3760 S.E. Hawthorne
Portland Radio Supply
1234 S.W. Stark
TV & Radio Supply Co.
1218 S.E. Grand Ave.

United Radio Supply, Inc.
22 N.W. 9th Ave.
SALEM
Capitol Electronics, Inc.
P.O. Box 2167
Farnes Electronics, Inc. (H)
440 Church N.E.
Hughes Antenna Supply
2380 Fairgrounds Rd.
Williamette Radio
2450 State St. East

PENNSYLVANIA

ALLENTOWN
Federated Purch., Inc.
936 W. Union Blvd.
Lafayette Radio Elect.
Assoc. Store
20 No. Seventh St.
A. A. Peters, Inc.
231 No. 7th St.
Radio Electric Service Co.
425 Hanover St.

ALTOONA
Allegheny Electronics, Inc.
1720 Union Ave.
General Electronic Dist.
1718 11th Ave.
Hollenback's Radio Supply
2221 Eighth Ave.

ARDMORE
Soundex Electronics
45 W. Lancaster Ave.

BETHLEHEM
Biltronics
431 W. Broad St.

BLOOMSBURG
Alvo Electronic Dist., Inc.
301 W. Main St.

BRADDOCK
M. Leff Radio Parts Co.
223 N. Braddock Ave.
Morks Parts Co.
903 Braddock Ave.

BRISTOL
Powell Electronic Sales Co.
400 Otter St.

BUTLER
Barron's Radio Supply
368 E. Jefferson St.

CARLISLE
Cumberland Electronics
810 N. Hanover St.

CHARLEROI
Borno Radio Co.
226 McKean Ave.

CHESTER
A. C. Radio Supply Co.
126 E. 24th St.

CLIFTON HEIGHTS
Delaware Valley Elect.
224 W. Baltimore Pike

COROAPOLIS
Miniature Electronics
516 Main Street

DREXEL HILL
Koss Electronics Dist.
2502 Township Line Rd.

DUBOIS
Barron's Radio Supply
301 33 S. Brody St.

EASTON
Federated Purch., Inc.
925 Northampton St.
Radio Electric Service Co.
Lehigh Valley
1700 Northampton

ERIE
Mace Electronics
24th & French St.
Warren Radio Co.
1315 Peach St.

GETTYSBURG
Dave's Photo Supply (H)
244 Steinwehr Ave.

GREENSBURG
General Electronic Dist.
210 Jonison Ave.
Leff Radio Parts
530 So. Main St.

HARRISBURG
D. & H. Distributors
2525 N. 7th St.
Electronic Wholesalers
1922 Paxton St.
Harrisburg Radio Lab.
1124 Market St.
Lafayette Radio
1507 N. Third
Radio Distributing Co.
915 S. 13th St.

HAZELTOWN
Moyer Electronic Supply Co.
758 N. Locust St.

JENKINTOWN
Hom Buerger
424 York Road

JOHNSTOWN
Allegheny Electronics, Inc.
46 Volley Pike
General Electronic Dist.
325 Bedford St.
TV Radio Parts
226 Main St.

KITTANNING
Barron's Radio Supply
Junction 422 West

LANCASTER
Geo. D. Barbey Co.
622 Columbia Ave.

LEBANON
Geo. D. Barbey Co.
821 Quentin Rd.

LEWISTON
Alvo Electronic Dist., Inc.
207 W. Market St.

LOCK HAVEN
Alvo Electronic Dist.
801 Bellefonte Ave.

McKEESPOR
Borno Radio Co.
927 Walnut St.

MEADVILLE
Warren Radio, Inc.
1198 Park Ave.

MONROEVILLE
Parts Unlimited Elect. Center
4105 New Wm. Penn Hwy.

NEW CASTLE
Reliable Radio & TV Supply
1015 S. Mill St.

NEW KENSINGTON
Radio Parts Co., Inc.
1102 Second Ave.

NEWTOWN SQUARE
Herbicek & Mathews
3109 West Chester Pike

NORRISTOWN
Almo Radio Co.
550 Markley St.
Kratz Bros.
Corn Kahn & Oak Sts.
Philo. Electronics, Inc.
624 W. Alry St.

OIL CITY
Barron's Radio Supply
407 E. 2nd St.

PHILADELPHIA
A. C. Radio Supply Co.
1539 W. Passyunk Ave.
Almo Radio Co.
913 Arch St.
Almo Radio Co.
6305 Market St.
Almo Radio Co.
7540 Frankford Ave.
Almo Radio Co.
5801 Rising Sun Ave.
Arlen Supply Co.
6026 Market St.
Steinberg Electronics, Inc.
2520 N. Broad St.
Barnett Bros. Radio
622 Arch St.
Eastern Television
1802 4 S. Broad St.
Herbach & Rademan
1024 Arch St.
Jem Electronics
1022 W. Girard Ave.
Nat. Lozar Radio
4231 Lancaster Ave.
Lectionic Distributors
727 Arch St.
Herman Miller Co.
2812 Cottman Ave.
Penn Electronic Parts Co.
5303 Frankford Ave.
Philo. Electronics, Inc.
1225 9 Vine St.
Radio Electric Service
701 Arch St.
Radio Electric Service Co.
3412 Germantown
Radio Electric Service Co.
5930 Market St.
Radio 437 Stores
437 Market St.
Ree Bros.
7711 Ogontz Ave.
Raymond Rosen & Co.
51st & Porksidge Ave.
Simco Electronics
3107 Broad St.
Walker Radio & Soles (H)
3rd & Fern Sts.
Eugene Wile
218 S. 11th St.

PITTSBURGH
Cameradio Co.
1121 Penn Avenue
Olson Radio
5918 Penn Ave.
Olson Electronics
3405 Sow Mill Run Bl.
Radio Parts Co., Inc.
6401 Penn Ave.
Radio Parts Co., Inc.
929 Liberty Ave.
Samson Distributing Co.
2506 W. Liberty Ave.
South Hills Electronics
1420 West Liberty Ave.
Tydings Co.
933 Liberty Ave.

POTTSVILLE
Moyer Electronic Supply Co.
330 E. Norwegan St.

READING
Geo. D. Barbey Co.
333 N. 4th St.

ROCHESTER
Radio Parts Co.
165 Brighton Rd.
Reliable Radio TV
402 Adams St.

SCRANTON
Consolidated Dist. Co.
1146 Capouse Ave.
Fred Pursell
1221 N. Washington Ave.

SHARON
Radio Parts Co.
1891 E. State St.

STATE COLLEGE
Alvo Electronic Dist., Inc.
103 S. Pugh St.

SUNBURY
Moyer Electronic Supply Co.
310 No. 2nd St.

SWARTHMORE
Hi Fi Studio
8 Park Ave.

UNIONTOWN
Radio Parts Co.
1 Mill St.
Zimmerman Wholesale
104 W. Peter St.

WASHINGTON
Borno Radio Co.
239 So. Main St.

WAYNE
Hi Fidelity House (H)
167 W. Lancaster Ave.

WILKES BARRE
General Radio & Electronics
587-595 S. Main St.
Wolico Inc.
53 E. Jackson St.

WILLIAMSPORT
Alvo Electronic Distributors
123 E. 4th St.
Williamsport Radio
518 W. 3rd St.

WILLOW GROVE
Radio Electric Service
29 York Rd.
Soundex Electronics (H)
Easton & Old York

WYNCOTE
E. J. Korvette
Cheltenham & Easton Aves.

YORK
J. R. S. Distributors
646 W. Market St.
Sol Kessler Melody Shop
126 S. George St.
Radio Electronic Svc. Co.
1114 Roosevelt Ave.
Rosen Electronics
25 S. George St.
Wholesale Radio Parts
1650 Whiteford Rd. 7
York TV Supply Company
1880 Market St.

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126 S. George St.
Radio Electronic Svc. Co.
1114 Roosevelt Ave.
Rosen Electronics
25 S. George St.
Wholesale Radio Parts
1650 Whiteford Rd. 7
York TV Supply Company
1880 Market St.

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Electronic Associates 19
314 9th Ave. N.E.

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1314 Iturbide Street
Pan American Electronics
1015 Iturbide Street
- LONGVIEW**
Wholesale Electronic Supply
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- LUBBOCK**
B & L Radio
2424 Texas Ave.
Edwards Electronics
1320 19th St.
Hi Fi Lubbock, Inc. (H)
2237 34th St.
R. & R. Supply Co.
1607 Ave. G
- LUFKIN**
Sterling Electronics, Inc.
428 Atkinson Dr.
- McALLEN**
Electronic Equipment & Eng. Co.
519 South Main
Guarantee Radio Supply
410 South Broadway
McAllen Radio Electronics
413 South Broadway
Rio Radio Supply Co.
608 S. Broadway
- MIDLAND**
F. & M. Electronic Supply
911 South Garfield
R. & R. Electronic Co.
30 Industrial Loop
- ODESSA**
Midland Spec. Co.
2101 Andrews Highway
R. & R. Supply Co.
300 E. 23rd St.
- PARIS**
Lavender Radio & TV Supply
250 S. Main St.
- PORT ARTHUR**
Diehl Radio TV Supply
2120 7th St.
Texas Electronics
1234 Seventh Street
- RICHARDSON**
Martin Wholesale Electronics
108 Ince Dr.
- SAN ANGELO**
Electron Sales, Inc.
643 Chadburn
Gunter Wholesale Company
606 South Irving St.
- SAN ANTONIO**
Bill Case Sound (H)
3522 Broadway
Delta Electronics
5090 Blanco
Olson Radio Supply
412 Pereida St.
Radio TV Parts Co.
1828 N. St. Mary St.
Modern Electronics Co.
910 West Laurel
Perry Shankle Co.
1801 S. Flores
South Texas Radio Supply
647 S. Presa
Sterling Electronics Co.
4600 San Pedro St.
Vandergriff Audio Co.
6740 San Pedro
- SHERMAN**
Lavender Radio Sherman
308 E. Houston
Wholesale Electronic Supply
326 W. Lamar
- TEMPLE**
Bell Electronics
512 N. 3rd Street
- TEXARKANA, ARK-TEX**
Lavender Radio & TV Supply
520 E. 4th
McCulloch Wholesale TV Supply
1222 Main Street
- TEXAS CITY**
Electronics Supply Co.
1524 Texas Ave.
- TYLER**
East Texas Electronic Supply
119-121 S. Glenwood
Lavender Radio & TV Supply
503 East Oakwood
Cole Electronic Supply
335 S. Bonner
- VICTORIA**
Sterling Electronic Supply
1007 No. William
Lavender Radio & TV Supply
1005 N. Williams
- WACO**
Best Electronics
324 N. 18th St.
Hargis Company
1205 Washington
L. & M. Sales Co.
1215 Columbus
Wholesale Electronic Supply
1400 Washington Ave.
- WICHITA FALLS**
R. & R. Electronics Co.
1911 9th St.
Wholesale Electronic Supply
1006 Holiday
- UTAH**
- OGDEN**
Ballard Supply Co.
3109 Washington St.
Carter Supply Co.
259 31st St.
Hi Fi Shop (H)
2323 Washington Bl.
- PROVO**
Central Utah Electronic Supply
413 S. State St.
Alpine Electronics
168 No. Second West
- SALT LAKE CITY**
W. H. Birtz Co.
433 W. 3rd South
House of Music, Inc. (H)
156 S. Main St.
Manwill Supply Co.
2511 So. State St.
Moore Radio Supply
147 E. 6th St. So.
O'Loughlins Radio Supply
113 E. Third St. So.
Standard Supply Co.
225 E. 6th St.
- VERMONT**
- BURLINGTON**
Concert Electronic (H)
40 Church St.
Radio Service Lab.
703 Pine St.
Vermont Appliance Co.
44 Lakeside Ave.
- RUTLAND**
Rutland Auto Supply Co.
138 State Street
- WHITE RIVER JUNCTION**
Electronic Supply Inc.
White River Junction
- VIRGINIA**
- ALEXANDRIA**
Certified Electronics
1313 Powhatan St.
- ARLINGTON**
Arlington Electronic Wholesale
Perry Shankle Co.
3636 Lee Hwy.
BAILEY'S CROSS ROADS
E. J. Korvette, Inc.
1325 Leesburg Pike
- BLACKSBURG**
Carver Furn. Co. (H)
125 College Ave.
Scotty's Radio-TV
Highway 460 South
- CHARLOTTESVILLE**
Kann Ellert, Inc.
1233 Morris St.
VA Radio Supply Co.
715 Henry Ave.
Music Center Hi-Fi Center
Barracks Rd. Shopping Ct.
P.O. Box 5307
- DANVILLE**
Womack Electronics & Supply
513 Wilson St.
- FALLS CHURCH**
Lafayette Radio Elect.
Plaza 7 Shopping Center
TV Workshop (H)
116 W. Broad St.
- HAMPTON**
Cain Electronic Co.
408 Aberdeen Rd.
GEX-Audio Center
4019 W. Mercury Blvd.
Electronic Sales Inc.
802 W. Mercury Blvd.
- LYNCHBURG**
Eastern Electronic Co.
1100 Commerce
Electronic Service Co.
1624 Park Ave.
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Womack Radio Supply Co.
324 Memorial Blvd.
- NORFOLK**
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Cain Electronics Co.
7819 Military Hwy.
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Priest Electronics, Inc.
6431 Tidewater Dr.
Radio Parts Distributing Co.
128 W. Olney Rd.
Avec Electronics Corp.
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Sound Shop
7562 Tidewater Drive
World Electronics, Inc.
3 Southern Shopping Center
- PETERSBURG**
Electronic Supply
23 N. Crater Rd.
- PORTSMOUTH**
Cain Electronics Co.
1418 High St.
Distributors, Inc.
710 County St.
- RICHMOND**
Audio Fidelity Corp. (H)
6521 West Broad St.
Banner Electronics
2304 Chamberlayne Ave.
Meridian Electronic Equipment
1001 W. Broad St.
Avec Elec. Supply
3302 W. Broad St.
- ROANOKE**
H.C. Baker Sales Co., Inc.
19 Franklin Rd.
Graves-Humphreys, Inc.
1948 Franklin Rd. S.W.
L. Hartman Sound
Equipment (H)
2931 Cove Road N.W.
Peoples Radio TV
1015 Moorman Rd. N.W.
Avec Elect., Corp.
2009 Williamson Rd.
Southeastern Radio Supply
1330 Corrland Rd. N.E.
- STAUNTON**
Southern Electronics Corp.
Staunton, Va.
Staunton Electronics
818 Greenville Ave.
- WINCHESTER**
Konn-Ellert Electronics
1650 Valley Ave.
- WASHINGTON**
- BELLEVUE**
Bali Hi-Fi (H)
10226 Main St.
- BELLINGHAM**
Advanced Electronics
804 Dupont
Stereo Center (H)
221 West Holly
- EVERETT**
Pringle Electronic Supply
2101 Colby Ave.
- KENNEWICK**
Thrifty Drug (H)
101 Vista Way
- LYNWOOD**
Cascade Electronics
P.O. Box 563
- RICHLAND**
Saunders Elect. Sales & Service
286 Wellisian Way
- SEATTLE**
ElectraCraft, Inc. (H)
1408 6th Ave.
Electronic Supply Co.
5902 California Ave. S.W.
Hess Recorder Co. (H)
650 S.W. 152nd Street
Magnolia Camera Shop (H)
2231 32nd West
Pacific Electronic Sales
1209 First Ave.
Pearl Radio
1300 First Ave.
Seattle Stereo Center (H)
2440 First South
Tall's Camera Supply (H)
1415 Third Ave.
University Radio (H)
4209 University Way
- Western Electronics Supply
717 Dexter
Westlake Electronics
415 Westlake Ave. North
Radio Supply Co.
6213 13th Ave. So.
Seattle Radio Supply
2117 2nd Ave.
- SPOKANE**
Alltronic Distributor
2008 N.W. Blvd.
Frank's Radio Supply
E. 204 Auguste
H. C. J. Electronics
E. 6904 Sprague
Northwest Electronics, Inc.
E. 730 First Ave.
- TACOMA**
C & G Electronics Co.
2502 Jefferson Ave.
G & I Electronics, Inc.
3863 S.W. Stellacoom Blvd.
A. T. Stewart
711 Broadway
Stereo Sound & Service (H)
2321 Tacoma Ave. South
Wible Radio Supply, Inc.
P.O. Box 11065
3723 S. Lawrence
- VANCOUVER**
Besserman & Veil (H)
1450 Main St.
Electra-Tech of Vancouver
7837 Highway 99
- WALLA WALLA**
Inland Electronics Supply
314 North Second
- WENATCHEE**
Belmont Radio Music (H)
31 North Wenatchee Ave.
Mid State Radio Supply
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- YAKIMA**
Glencourt Electronics
3508 Nob Hill
Lay & Nord
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- BECKLEY**
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- BLUEFIELD**
Meyers Electronics, Inc.
924 Bland St.
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Charleston Elect. Supply Co.
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Chemcity Radio & Electronics
1637 Fourth Avenue
Electronic Specialty Co.
Dela. Ave. at Randolph
Mountain Electronics Co.
1605 Fourth Avenue
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Mountain Electronics Co.
720 W. Pike St.
- HUNTINGTON**
Electronic Supply, Inc.
222 7th Ave.
Mountain Electronics Co.
611 Seventh Avenue
Warren Radio Co.
800 8th St.
- MORGANTOWN**
Electronic Distributing Co.
507 Beachurst Ave.
TV & Radio Parts Co.
1279 University Ave.
- PARKERSBURG**
General Electronics
14 St. Oakhurst Ave.
Chemcity Electronics
1235 Seventh Street
Stephenson TV Supply
536 Seventh St.
- PT. PLEASANT**
Chemcity Electronic Distr.
Pt. Pleasant, W. Va.
- WHEELING**
General Electronic Distr.
735 Main St.
Radio Parts Co.
1312 Main St.
- WILLIAMSON**
Banks Miller Supply Co.
Williamson, W. Va.
- WISCONSIN**
- APPLETON**
Electronic Expeditors
1037 W. Wisconsin Ave.
Valley Radio
518 N. Appleton St.
- CEDARBURG**
Echo Communications (C)
1038 S. Washington Ave.
- EAU CLAIRE**
Bushland Radio
1728 Loring
Electronic Assoc. 6
513 Chauncey
S. & M. Supply Co.
413 Galloway St.
- FOND DU LAC**
Wisconsin Electronic Supply
223 N. Seymour
- GREEN BAY**
Electronic Expeditor
420 N. Clay St.
- JANESVILLE**
Thompson Electronics
601 W. Milwaukee St.
- KENOSHA**
Chester Electronic Supply
1220 60th St.
- LA CROSSE**
Communications Equip. Co.
518 State St.
Electronic Assoc. 17
2001 Victory Ave.
S.M. Supply Co.
218 - 228 S. Second St.
- MADISON**
Satterfield Electronic
100 So. Park St.
Superior Radio Parts
1423 E. Main St.
- MANITOWOC**
Manitowoc Electronic Supply
1801 Marshall St.
- MARINETTE**
G. M. Popkey Co.
Main at 9th St.
- MILWAUKEE**
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Allied Radio of Wis.
5314 No. Pt. Wash. Rd.
Allied Radio of Wis.
3555 So. 27th St.
Amateur Electronic Supply
4828 W. Fond du Lac
Echo Communications (C)
4405 N. 60th
Electronic Expeditors
3501 W. Burleigh Ave.
Olson Radio Warehouse
423 W. Michigan Ave.
Radio Parts Co., Inc.
1314 N. 7th St.
Stolz Wicks, Inc.
4120 W. Fond du Lac
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Draeger Recordings, Inc. (H)
1919 Taylor Ave.
Superior Racine, Inc.
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- SHEBOYGAN**
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1129 N. 8th St.
- STEVENS POINT**
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Box 9 Route 4
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Radio Service & Supply Co.
115 Prospect Ave.
- WEST ALLIS**
Marsh Radio & Supply Co.
60 47 W. Beloit Rd.
- WYOMING**
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Kit	\$29.95	Wired	\$44.95
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This new versatile, combination instrument quick-tests 800 radio and TV tube types for cathode emission, leakage, shorts, opens, intermittents. Has sockets for octals, loctals, 7- and 9-pin miniatures, novars, nuvistors, compactrons. Special, fast Go/No-Go continuity test. Tests under load, commonly-used batteries from 1.5 to 90 volts in 11 ranges. Professional features include: transformer isolation power supply; large 3-color easy-to-read meter; and neon lamp short-indicator. 8 1/2" H, 7 1/2" W, 3 1/4" D; 117 VAC; 60Hz; 4 lbs.

MODEL 632 CRT TESTER & REJUVENATOR

- Tests, repairs, rejuvenates color or B & W CRT's
- Luggage case holds 5-socket cable & line cord



Kit	\$49.95
Wired	\$69.95

This portable CRT tester and rejuvenator has been especially designed for testing color as well as black and white picture tubes. Incorporates supplies of 1000 volt DC for rejuvenate-welding and short clearing procedures, 150 volt negative DC for variable grid cut-off (shows contrast range), plus rheostat filament voltage over three ranges 0-5, 5-10, 10-15 volts. Grid cut-off, filament voltage, and beam current are read on a 4 1/2" meter. Push buttons are used for short-open, beam current, gas, and life testing. Panel switch selects guns of color CRT's for individual testing.

POWER REQUIREMENTS: 117 VAC. SIZE (HWD): 5 1/4" x 9 1/2" x 12". WEIGHT: 9 lbs.

EICO 680 TRANSISTOR & CIRCUIT TESTER

- Measures transistor ICBO, ICEO, DC Beta
- 20 K Ω /V VOM for testing transistor circuits
- Simple criteria for all tests in manual; no charts are needed

Kit	\$34.95
Wired	\$44.95

IMPORTANT FEATURES: ICBO (collector-base leakage current) and ICEO (collector-emitter leakage current) are measured accurately on microammeter ranges with sensitivity to 50 μ A full scale. Separate test positions are provided for signal and power transistors.

DC beta for signal transistors given directly by reading base current on a reciprocal scale (multiplied by appropriate range factor) to establish standard 1mA collector current indexed on scale. DC beta for power transistors can be approximated by calculating ratio of ICBO to ICEO.

AC Beta for signal transistors determined by reading base current settings required to establish two standard collector current, 0.75mA and 1.25mA, indexed on the scale (500 μ A shift). AC beta is obtained by dividing 500 by the base current difference in μ A, or referral to a chart in the manual which gives the result without calculation.

Quality of selenium rectifiers, germanium and silicon diodes determined by measurement of forward and reverse currents. Beta calibrate/zero ohms adjust also prolongs useful life of batteries.

SPECIFICATIONS

DC CURRENT ICBO/ICEO RANGES: 50 μ A, 500 μ A, 5mA, 50mA, 500mA. DC VOLT RANGES: 5V, 50V. RESISTANCE RANGES: Rx1 (0 to 2K Ω , 12 Ω center-scale), Rx100 (0-200K Ω , 1200 Ω center scale), Rx10K (0 to 20M Ω , 120K Ω center scale). TRANSISTOR DC BETA RANGES: 2 to 30, 20 to 300. ACCURACY: \pm 3% F.S.D. CONNECTORS: Three permanently connected clip-on test leads (C, B, E) or a panel socket for transistor connectors; two banana jacks for VOM test leads. CONTROLS: RANGE switch, MODE switch (NPN, PNP, VOM), TEST switch (ICBO, ICEO, PWR ICBO, PWR ICEO, B CAL, READ B), B CAL/O Ω adjust control. BATTERIES: 4 size AA, 1 size C. SIZE (HWD): 6 3/4" x 5 1/4" x 3". WEIGHT: 3 lbs. Less VOM leads.

NEW MODEL 610A ADAPTER — Wired only \$15.95 TESTS ALL THE NEW TUBES

■ An eight socket unit that instantly modernizes your EICO Tube Tester for (Models 625, 666, 667). Testing these new tube types: 10 Pin Min, 12 Pin Compactron, 5 and 7 Pin Nuvistor, 9 Pin Novar, 10 Pin Decal, 9 Pin Magnoval, 2 Pin Special Rectifier.

■ The handy flexible cable plug is simply inserted into the existing 9 pin socket of your EICO Tube Tester. Attach the testers grid cap to the adapter and the unit is ready to operate.

■ No switching is necessary. For Compactrons, simply rotate the tube as directed in the tube data manual.

615 TUBE TESTER ADAPTER Kit \$5.95 Wired \$11.95

Adapts EICO Models 628 and 667 tube testers for testing 4, 5, 6 or 7 pin tubes (older types), for which test sockets are not provided in those models.

NEW COLOR AND B&W SERVICE INSTRUMENTS



EICO 369 TV-FM SWEEP & MARKER GENERATOR

- Both variable and crystal marker oscillators
- Incorporates marker-adder
- Supplied with cables

Kit \$99.95 : Wired \$149.95

The finest of all TV/FM Sweep Alignment Generators, the new EICO 369 has unequalled design features including controllable inductor sweep, variable and crystal marker oscillators, as well as a built-in marker-adder. Provides the easiest, fastest visual alignment of color or black-and-white TV and FM receiver RF and IF circuits. Use it with a fine wide-band scope such as the EICO 435 or the EICO 460.

The controllable inductor sweep circuit in the Model 369 is purely electronic and has no mechanical parts to wear and give trouble later. Five fundamental sweep ranges are provided from 3-220 mc, with a 6:1 vernier dial for easy frequency setting. Retrace blanking and a 3-stage AGC circuit keep the amplitude of the swept signal constant even when the widest sweep width of 20 mc is used.

The variable marker generator in the Model 369 has 4 ranges covering 2-225 mc (to 75 mc on fundamentals), with a 6:1 vernier dial for easy frequency setting. A crystal marker oscillator is also provided that turns on when a crystal is plugged into the panel socket (4.5 mc crystal supplied for TV sound alignment).

With the EICO 369, circuit response is not affected by markers, and markers are not affected by circuit response. Only the required sweep signal is fed to the input of the circuit being aligned or tested. At the output end of the circuit, a demodulator cable picks off the signal, and feeds the demodulated signal to a mixer stage inside the generator where the markers are added. The demodulated waveform with post-injected markers is fed to the vertical input of the scope, and the horizontal sweep to the horizontal input of the scope, through a single, shielded, two-conductor cable. Separate level controls for trace size and marker size on the front panel can be used independently.

Tubes: 12AU7, 6BQ7A, 12AX7, 6DR7, 12AT7 and 6X4.

SPECIFICATIONS

SWEEP OSCILLATOR: Fundamental sweep ranges and output levels controlled by four-step decade and continuous attenuators. Output impedance 50Ω.

Center frequency	Output	Regulation
3-7.5 mc	0.3V	± ½db
6-16 mc	0.3V	± ½db
16-42 mc	0.3V	± ½db
36-95 mc	0.2V	± ½db
75-220 mc	0.1V	± 1db

SWEEP WIDTH: Continuously variable up to 20 mc depending on range. Minimum sweep width on all TV channels 10 mc. **PHASING:** Narrow-range phasing control permits permanent adjustment of horizontal deflection signal for accurate alignment. **MARKER OSCILLATOR:** Fundamental ranges are 2-6 mc, 6-20 mc, 20-75 mc; calibrated harmonic range 60-225 mc. **CRYSTAL MARKER OSCILLATOR:** Uses 4.5 mc crystal supplied. Crystal socket on panel permits higher or lower frequency crystals to be used. Automatically activated by insertion of crystal. Crystal marker is internally mixed with variable frequency marker. **CABLES:** RF output (50 termination), Demodulated Signal Cable (incorporating low-pass filter), Scope Cable (dual shielded cable carrying both vertical and horizontal scope input leads). **POWER REQUIREMENTS:** 117 VAC, 50 watts. **SIZE (HWD):** 8½" x 12½" x 7". **WEIGHT:** 17 lbs.

★ Export Model available



- Instant operation
- 33 transistors
- 4 pounds light

NEW!

EICO 380A SOLID STATE NTSC COLOR GENERATOR

- Swing-out circuit boards for compactness & accessibility
- Rock-stable performance with 3 crystal oscillators

Wired only, \$225.00

Compact, inherently rugged solid-state color signal and dot-bar generator. Provides the precisely shaped, completely standard color signals essential for setting up and servicing color TV sets. Also generates dot-bar patterns needed for other adjustments on both color and black & white sets. The only transistorized model providing completely standard, fully saturated NTSC color signals, including both chrominance and luminance signals exactly as specified. Color burst is precisely gated and delayed to N.T.S.C. standards.

Phase angles for all colors are permanently established according to N.T.S.C. standards by taps on a linearly distributed delay line, so that no adjustments are ever required.

Use of saturated transistors for switching and delay provides square "clean" waveforms without significant overshoots or ringing, for excellent signal definition. The design of the 380 is an absolute protection against obsolescence and assures the professional service engineer that apparent set trouble is not caused by a non-standard test signal. In addition to generating 11 different color signals, one at a time, for hue and demodulator adjustments, the Model 380 generates dots, crosshatch, horizontal lines, and vertical lines for convergence and linearity adjustments. Both a video output and an RF output, permitting direct connection to the antenna terminals of the TV set, are provided, with separate video and RF gain controls. Permits checks of hue and sync at different signal levels. Three crystal-controlled oscillators are employed for precise color burst and color information, convergence and sync signals free of jitter or crawl, and RF output on TV Channel 3. (High signal strength with direct antenna connections eliminates any possibility of interference from a local Channel 3 broadcast.)

SPECIFICATIONS

RF OUTPUT: 0-50,000 μV into 300Ω (62.25 Mc crystal controlled for TV Channel 3). **VIDEO OUTPUT:** Both positive and negative polarities, 0-10 p-p into 4.7 KΩ. **NTSC COLORS PROVIDED:**

COLORS	PHASE ANGLE (Degrees)	LUMINANCE LEVEL (VOLTS)
Yellow	12.5	0.89
I	57.0	0.54
Red	76.6	0.30
R-Y	90.0	0.34
Magenta	119.2	0.41
Q	147.0	0.27
B-Y	180.0	0.16
Blue	192.9	0.11
Cyan	256.6	0.70
Green	299.2	0.59
White		1.00

HORIZONTAL LINES: 13 (variable thickness) for vertical linearity and horizontal convergence adjustments. **VERTICAL LINES:** 10 (variable thickness) for horizontal linearity and vertical convergence adjustments. **CROSSHATCH:** 13 horizontal and 10 vertical lines for vertical and horizontal linearity, horizontal and vertical convergence adjustments. **DOTS:** 130 (variable size) for static and dynamic convergence adjustments. **POWER REQUIREMENTS:** 117VAC, 60 cps. **SIZE (HWD):** 8½" x 5¼" x 6¼". **WEIGHT:** 8 lbs.

NEW FM MULTIPLEX AND RF SIGNAL GENERATORS



- FM stereo broadcasting from tape/phone stereo source
- Low distortion signals to permit alignment for lowest distortion

EICO 342 FM MULTIPLEX SIGNAL GENERATOR

- Crystal-controlled 19 kc (± 2 cps) pilot
- Both composite audio and FM RF outputs

Wired only \$175.00

The EICO Model 342 is a compact, efficient instrument essential for test or alignment of the multiplex circuits of FM Multiplex Stereo tuners, receivers, and radios. FM Stereo is a field as fast-growing as color TV, and a multiplex generator is an absolute must for getting a share of the increasingly important and profitable service business. The circuitry of the Model 342 is of the design lab quality needed for restoring original performance quality to the costliest equipment, but the controls have been simplified for fast, uncomplicated operation. With it, you can quickly measure and adjust channel separation and balance, or obtain the input level needed for synchronization or switch-over to stereo operation.

The Model 342 provides signals as perfect as those available from generators costing many hundreds of dollars. It provides both a controlled amplitude composite audio output for direct signal injection beyond the detector into a multiplex section, and the same signal modulating an FM RF carrier at about 100 mc (adjustable) with controlled deviation ± 75 kc (100% modulation) for connection directly to the antenna terminals. Either a built-in 1 kc oscillator (below 0.3% distortion) or an external audio oscillator may be used to provide the left only, right only, difference, or sum signals. The 19 kc pilot signal is crystal controlled and may be switched on or off independently of the composite signal. The signal may be obtained without audio information and only the 19 kc pilot injected. An oscilloscope sync output is provided, with a choice of either 19 kc sync or internal 1 kc/external oscillator sync. In addition, an input is provided for connecting an external audio oscillator to provide an SCA signal when required.

Another important and valuable feature of the Model 342 is dual inputs and amplifiers for a stereo source to permit FM MULTIPLEX STEREO demonstrations to customers when there are no stereo programs being broadcast. Modern compactron tubes are used to obtain a lightweight, compact package that is easily portable. SIZE (HWD): $8\frac{1}{2}'' \times 5\frac{3}{4}'' \times 12\frac{1}{2}''$. WEIGHT: 10 lbs.

SPECIFICATIONS

SEPARATION: 40 db minimum from 200 cps to 10 kc; 30 db minimum from 50 cps to 15 kc. CARRIER SUPPRESSION: 40 db minimum below maximum composite signal level. COMPOSITE SIGNAL OUTPUT: 0-8 V p-p, continuously variable; output impedance 1.5k Ω . INTERNAL MODULATION OSCILLATOR: Frequency approximately 1 kc; THD less than 0.3%. EXTERNAL MODULATION OSCILLATOR REQUIREMENTS: 1 V RMS input for maximum composite signal level output; input impedance 10k Ω . STEREO SOURCE MODULATION REQUIREMENTS: 1 V RMS input each channel for maximum composite signal level output; input impedance 1M Ω . Input amplifier stages provide required FM pre-emphasis. FM MULTIPLEX RF OUTPUT: 200 mv; output impedance 50 Ω . DEVIATION CONTROL: to ± 75 kc (100% modulation). PILOT FREQUENCY: 19 kc ± 2 cps (crystal controlled); adjustable phase ($\pm 45^\circ$ with respect to carrier) and adjustable amplitude (0-15% of maximum composite signal). Pilot may be switched off. SIGNAL SELECTION: L+R (sum), L-R (difference), L only, R only, 19 kc pilot only, stereo source. FREQUENCY RESPONSE: ± 1 db 40 cps - 15 kc. TOTAL HARMONIC DISTORTION: Under 1%. OSCILLOSCOPE SYNC SIGNALS: Switch selection of either modulation oscillator (internal 1 kc or external) or 19 kc pilot. POWER REQUIREMENTS: 117 VAC, 50/60 cps. SIZE (HWD): $8\frac{1}{2}'' \times 5\frac{3}{4}'' \times 12\frac{1}{2}''$. WEIGHT: 10 lbs.



EICO 324 RF SIGNAL GENERATOR

Kit \$32.95 Wired \$44.95

- 150 kc - 435 mc in 7 bands with $\pm 1.5\%$ accuracy
- Variable int./ext. modulation, coarse/fine RF attenuators

Use it for color or B & W TV, AM/FM radio, or communication gear alignment and signal tracing, or wherever a modulated or unmodulated RF signal from 150 kc to 435 mc is required.

The RF oscillator provides excellent waveform and is plate-modulated by a cathode follower for improved modulation. Modulation may be internal or external. The internal 400 cps modulating signal is available separately.

Selection of external modulation rearranges the audio oscillator stage as an amplifier for an external modulating signal, permitting up to 30% modulation from a 3-volt audio source. Percentage modulation by either the internal or an external source, as well as the separate audio output, is adjustable by a single panel control. Coarse and fine RF attenuators provide smooth control of the RF output signal.

Six tuning bands are employed to cover the fundamental frequency range from 150 kc to 145 mc. Calibration of the third harmonic of the highest fundamental provides a seventh tuning band from 111 mc to 435 mc. The 6 to 1 vernier tuning dial permits exact setting of the output frequency.

Construction of the dial and tuning assembly is unusually fine. An etched aluminum tuning dial is fastened to the shaft of the tuning capacitor behind the panel and rotates with the tuning knob. The dial is viewed through twin plexiglass windows, four complete scales appearing in one window and four in the other, so that, despite the large number of scales, they are well-spaced and not easily confused. The plexiglass not only affords protection for the tuning dial, but, due to its unique light-conducting property, permits the use of an illuminated hairline, which is engraved in the plexiglass and edge-lit by a panel lamp to permit maximum ease of reading. The illuminated hairline also serve as a pilot. Other important construction points include the use of turret mounted, slug-tuned coils for maximum accuracy, copperplated chassis for minimized interference, line filters, shielded RF output cable and jack-top binding posts for audio in/out. Tubes: 12AU7, 12AV7.

SPECIFICATIONS

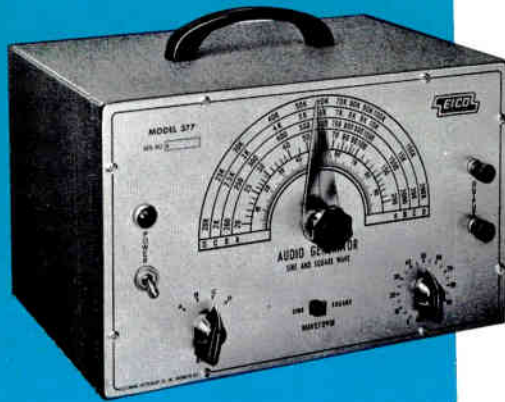
RF OUTPUT FREQUENCY RANGE: 150 kc to 145 mc on fundamentals in 6 bands, 111 mc to 435 mc on calibrated harmonics. TUNING DIAL CALIBRATION ACCURACY: $\pm 1.5\%$. RF COARSE ATTENUATION: In two steps, each approximately 20 db. RF FINE ATTENUATION: Continuous 0 to max. INTERNAL AF MODULATING FREQUENCY: Approx. 400 cps. POWER REQUIREMENTS: 117 VAC, 60 cps, 8 watts. SIZE (HWD): $8'' \times 10'' \times 4\frac{3}{4}''$. WEIGHT: 8 lbs.

★ Export Model available

OUTSTANDING SIGNAL GENERATING INSTRUMENTS

EICO 377 SINE & SQUARE WAVE GENERATOR

Kit \$39.95 : Wired \$54.95



- High design standards maintained by costlier components
- R-C (Wien Bridge) oscillator circuit with 1% precision resistors
- Excellent calibration accuracy, stability and purity of waveform

The EICO 377 is expressly designed to fill the test instrument needs of the audio engineer, high-fidelity enthusiast and the radio-TV Serviceman. Its many modern features and its advanced circuitry and design make it particularly suitable for electro-acoustic experimentation, development work, as well as for TV service and wide-band amplifier work.

The 377 is another EICO exclusive instrument achievement. It is the equal in quality of separate professional sine and square wave generators each costing more than the 377 alone! Among its outstanding features, the 377 includes choke filtering in the power supply to minimize the hum level and high power output over a wide range of loads, coupled with constant output over a wide frequency range. These and the many other features of the 377 allow it to be used for a multitude of applications including amplifier testing and design, determining radio receiver fidelity and loudspeaker response, square wave testing of TV receivers, development of filter or compensating circuits and frequency measurements in conjunction with an oscilloscope such as the EICO 435.

SPECIFICATIONS

FREQUENCY RANGE: Sine wave, 20-200,000 cps in 4 bands. Square wave, 60-50,000 cps. (5% tilt at 60 cps, 5% rounding at 50,000 cps.) CALIBRATION ACCURACY: $\pm 3\%$ or 1 cps, whichever is greater. FREQUENCY RESPONSE: 60-150,000 cps. OUTPUT VOLTAGE: 10 V across 1000 ohms rated (100 milliwatts); drops to 8 V across 500 ohms, rises to 14 V across 10,000 ohms or higher. DISTORTION: Less than 1%. HUM: Less than 0.4% of rated output. TUBE COMPLEMENT: 2-6K6, 1-6SN7, 1-6SJ7, 1-6X5, and 1-3S63-watt lamp. POWER REQUIREMENTS: 117 VAC. 60 cps, 50 watts. SIZE (HWD): 7 1/8" x 11 1/8" x 7 1/8". WEIGHT: 13 lbs.

★ Export Model available

EICO 378 AUDIO GENERATOR

Especially designed for today's needs for more precision, versatility and reliability in audio signaling and testing.

Extreme versatility and positive error elimination are now yours for: testing audio amplifiers for gain and frequency response, as a signal source for various bridge measuring circuits, for modulation of RF signal generators, or any other application where a stable, accurate audio sine wave must be used. Based on a highly reliable circuit, the 378 produces a very low distortion sine wave signal over a very wide range of frequencies. Unlike most other audio generators that require interpretation of a dial setting with possible error, the frequency-determining elements of the 378 are not continuously variable; rather they are set by **positive-setting detent** switches that select combinations of 1% resistors and 2% capacitors which comprise the frequency-selecting network. This results in a precisely metered output controlled by 8-position decade and fine attenuators, fantastically low distortion and highly **accurate, repeatable switch-selected** frequencies from 1 cps to 110kc. The output level of this instrument can be set with great precision between 0 and 10 volts RMS (or between -70 and +22db) on a 4 1/2-inch, 2% full-scale accuracy meter. Below 1 volt RMS output, the instrument is provided with a switch-selected internal 600 ohm load that can be disconnected as desired. All this in a man-sized instrument with well-spaced controls and a big 4 1/2 inch meter easy-to-read at normal working distance — a bench workhorse that takes you speedily through all your audio work without waste motion and annoying uncertainty. A bargain — pays for itself in the first job! For a complete audio test lab, team it up with the EICO 902 IM/HARMONIC DISTORTION METER.

SPECIFICATIONS

Switch selectable frequency output from cycles to kilocycles: one cycle steps (1-10 cps); 10 cycles steps (10-100 cps); 100 cycles steps (100 cps-1kc); 1kc steps (1kc to 10kc); 10kc steps (10kc-100kc). FREQUENCY ACCURACY: $\pm 5\%$. DISTORTION: Less than 0.1%, 20 cps-20kc. OUTPUT VOLTAGE RANGES: 0-3, 10V into hi-Z (10K min.); 0-003, .01, .03, .1, .3, 1V into ext. or internal 600 Ω load. OUTPUT METER ACCURACY: $\pm 5\%$ of full scale. POWER REQUIREMENTS: 120V, 50/60 cps, 40 watts. SIZE (HWD): 8 1/2" x 12 1/2" x 9". WEIGHT: 16 lbs.



Kit \$59.95 : Wired \$79.95

- Switch selectable frequency output
- One cycle to 110kc
- Attenuated output in 8 steps
- Metered output voltage
- Excellent frequency resettability

EICO 315 DELUXE RF SIGNAL GENERATOR

Kit \$69.95 : Wired \$89.95

Complete with RF Cable

Deluxe in every professional feature and detail, yet rock bottom in cost, the 315 is one more EICO champion instrument value. The frequency range of 75 kc to 50 mc in 5 bands is covered on fundamentals, and calibrated harmonics cover 13 mc to 150 mc in two bands. Internal modulation is 400 cps, with a provision for external modulation. The frequency dial offers a reading accuracy of better than 1% on all ranges. Model 315 features a VR tube regulated power supply for unfailing accuracy and stability, fully shielded copper-plated chassis, attenuation controls and line filter for extremely low leakage output.

Overall dimensions are 13" x 12" x 7" and the unit weighs 18 pounds. ★ Export Model available



EICO VOM'S TOPS IN VALUE



optional
Carrying case
\$5.95

EICO 565 V-O-M

- Complete with batteries, less leads
- 20,000 ohms per volt sensitivity
- 31 range, 50- μ v movement

Kit \$25.95 : Wired \$34.95

The 565 volt-ohm meter is the famous performance-proven EICO multimeter design with world-wide recognition for excellence in laboratory and field work. Engineered for maximum versatility, it is a valuable professional instrument for the accurate servicing of TV, radio and other electronic equipment. Complete battery operation makes it ideal for portable applications, field work and remote locations.

Measurements can be made of AC and DC voltage, DC current, resistance and decibels. Circuitry, ranges and physical layout have been carefully designed with the service man in mind for convenience, speed and ease of operation. A beautiful gleaming high-impact case acts as a dust-free seal for the meter. Factory adjusted wire-wound potentiometers compensate for individual rectifier characteristics to assure accurate measurements. An output voltage range on the 565 allows for measurement of signal voltages in circuits where dc is present.

SPECIFICATIONS

DC VOLTAGE: Ranges 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 20,000 ohms/volt. AC/OUTPUT VOLTAGE: Ranges 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 1000 ohms/volt. DC CURRENT: 0-100 μ a, 10 ma, 100 ma, 500 ma, 10 amp. DECIBELS: -12 to +55 db in 5 ranges. RESISTANCE: Ranges: 0-2000 ohms, 0.2 megohms, 20 megohms (.2 ohms to 20 megohms). METER: 4 $\frac{1}{2}$ " size, 50 μ a movement. SIZE (HWD): 6 $\frac{1}{4}$ " x 5 $\frac{1}{4}$ " x 3". WEIGHT: 4 lbs.



EICO 536 V-O-M

- Complete with batteries, less leads
- 1,000 ohms per volt sensitivity
- Seven AC/DC voltage ranges

Kit \$16.95 : Wired \$22.95

Considered the "tops" of its type, the EICO 536 gives you seven full-scale AC/DC ranges, to 5,000 volts. One unique feature of the 536 is that it is the only 1,000 ohm/volt meter with a 0-1 volt full scale range, making possible accurate low voltage readings. For example, on an instrument whose lowest full-scale range is ten, one-half volt will deflect the needle only 1/20th of the scale, but on the 536 the one-half volt will deflect the needle to mid-scale, for a highly precise reading.

The 2-pound meter is packaged in a high-impact bakelite case, making it compact, sturdy and portable for any shop or field use. An advanced new AC rectifier circuit, employing a high quality rectifier in a half-wave hook-up, provides excellent linear characteristics. Every modern feature required in an instrument of this type is built-into the 536. Compare it with other units of similar design and see for yourself why EICO gives you the best - for less!

SPECIFICATIONS

AC/DC VOLTAGE RANGES: 0-1, 5, 10, 50, 100, 500, 5000 volts. AC/DC SENSITIVITY: 1000 ohms/volt. AC/DC CURRENT RANGES: 0-1 ma, 10 ma, 0.1 amp, 1 amp. OHMS RANGES: 0-5000 ohms, 100K ohms, 1 megohm. DB RANGES: -20 to +69 in 6 ranges. METER: 3" size, 400 μ a movement. SIZE (HWD): 6 $\frac{1}{4}$ " x 3 $\frac{3}{4}$ " x 2 $\frac{1}{4}$ ". WEIGHT: 3 lbs.



optional
Carrying case
\$5.95

EICO 566 V-O-M

- Complete with batteries, less leads
- 1000 ohms per volt sensitivity
- 4 $\frac{1}{2}$ " meter with 2-color scales

Kit \$19.95 : Wired \$27.95

Essentially a larger version of the 536, the 566 Volt-Ohm-Milliammeter possesses all the excellent circuitry and application advantages of the former, plus seven extra ranges. Added to this is the convenience of the large 4 $\frac{1}{2}$ " meter with 2-color scales. The 566 also boasts the accurate 0-1 volt scale featured on the 536 meter and can list among its features both shunt and series rectifier compensation for uniform accuracy. Other features include one set of precision divider resistors on AC and DC to minimize switching, a high-quality instrument rectifier in dual half-wave hook-up and a high-impact bakelite case.

There are seven AC/DC/Output ranges, four current ranges and three ohm scales. Six decibel ranges cover -20 to +69. You need only examine the 566 side-by-side with any comparable meter to agree that it is one more EICO "best buy" in professional service instruments.

SPECIFICATIONS

AC/DC/OUTPUT RANGES: 0-1, 5, 10, 50, 100, 500, 5000 volts. AC/DC SENSITIVITY: 1000 ohms/volt. AC/DC CURRENT RANGES: 0-1 ma, 10 ma, 0.1 amp, 1 amp. OHMS RANGES: 0-5000 ohms, 100K ohms, 1 megohm. DB RANGES: -20 to +69 in 6 ranges. METER: 4 $\frac{1}{2}$ " size, 400 μ a movement. SIZE (HWD): 6 $\frac{1}{4}$ " x 5 $\frac{1}{4}$ " x 3". WEIGHT: 3 lbs.

EICO 555 V-O-M

Complete with leads,
less batteries

Kit \$29.95 : Wired \$39.95

A highly precise 20,000 ohms per volt ohm meter. Similar to EICO 565 V-O-M except that it employs 1% precision resistors.

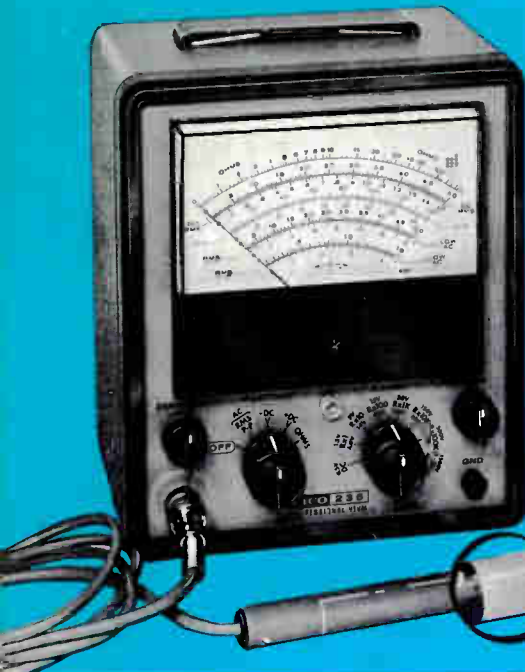
NEW TRUVOHM PORTABLE MULTIMETERS SEE PAGE 31

NEW EICO 567 VOM SEE PAGE 30

EICO 566 V-O-M

Kit \$21.95 : Wired \$29.95

A precise 1000 ohms per volt V-O-M. Similar to EICO 566 except that it employs 1% precision resistors.



NEW! EICO 235 PROFESSIONAL VTVM

- 1/2-Volt Full-Scale DC Transistor Servicing Range
- Deluxe Full-View 6" 200 Microamp Meter Movement
- Dual Purpose AC/DC Uni-Probe
- Including leads

Kit \$49.95

Wired \$69.95

Terrific time-saver. Only 1 probe performs all functions — a half-turn of probe-tip selects DC or AC-OHMS!



EICO 232 PEAK-TO-PEAK VTVM

- Dual Purpose AC/DC Uni-Probe
- Calibration without cabinet removal
- 7 non-skip ranges on every function

Kit \$34.95

Wired \$49.95

Complete with batteries and leads

Designed with the stringent requirements of today's electronic technicians, engineers and experimenters in mind, the new Model 235 is not only excellent for servicing all FM, AM, mono/color TV, and precision electronic equipment; it is especially qualified for the exacting measurements encountered in solid-state circuitry — where even a difference as small as a few millivolts may distinguish between the proper or improper operation of a transistor circuit. Accurate measurements down to as little as 0.01 volts are quick and certain on the large, easy-to-read 6" meter on its 1/2-volt scale!

Unique ease and speed of operation and versatility are offered by the exclusive two-color coding and coordination of the positions of the function and range switches with the arcs of the meter scale. The dual purpose AC/DC Uni-Probe, another EICO exclusive, adds its famous versatility to the package. Both peak-to-peak and RMS AC voltages are read on separate scales in 7 overlapping ranges, up to 4.2KV. With its frequency response of 30Hz to 3MHz (and up to 250MHz with optional probe), the EICO 235 is ideal for all high frequency measurements.

Its very high input impedance (11 megohms) assures negligible circuit loading in precision DC voltage measurements from 0.01 volt to 1.5KV (in 8 overlapping ranges); and to 30KV with optional high-voltage probe. (EICO Model HVP-2).

Additional professional features of the 235 include: ceramic switches to assure non-arcing at all inputs within the capability of the unit; 1% tolerance precision resistors for greatest accuracy; seven overlapping resistance ranges covering 0.2Ω to 1000MΩ for precise resistance measurement; zero-center for TV-FM sound detector alignment; one zero center adjustment for all functions and ranges; and a transformer-powered supply for line isolation and removal of shock hazard. The outstanding balanced-bridge circuit is engineered for years of exceptional stability and accuracy.

The Model 235 also features the EICO-exclusive professional look—that has been welcomed by both serviceman and industrial users.

SPECIFICATIONS

8 DC Ranges: 0-0.5-1.5-5-15-50-150-500-1500 (to 30,000 volts: with optional high voltage probe). 7 AC Peak-to-Peak Ranges: 0-4-14-42-140-1400-4200. 7 AC RMS Ranges: 0-1.5-5-15-50-150-500-1500. 7 Resistance Ranges covering: 0.2Ω to 1000MΩ. Frequency Response: 3 cps to 3Mc ±1db (up to 250Mc with optional PRF probe). Input Resistance: DC 11MΩ; AC 1M shunted by 60mmf. Power Requirements: 117 VAC, 50 or 60 cps; 6 watts. 1% precision multiplier resistors. 3% accuracy on AC and DC scales. Employs 1 silicon rectifier, 1-12AU7A tube and 1-6AL5 tube. Dimensions (HWD): 8 1/2" x 7 1/2" x 5". Weight: 9 lbs. Supplied less battery — 1 "D" cell required.

The 232 is the established leader in VTVMs, and is well suited to color or monochrome TV servicing. You could spend two or three times more money for a VTVM and not get all the advanced engineering features of this precision instrument. By far the best professional VTVM value in electronics, the 232 features up-to-minute circuitry, design, functional simplicity and modern styling. The unit also boasts high sensitivity and precision, wide ranges and versatility — and day-in day-out dependability.

Use the 232 for all your TV/FM/AM/electronic servicing with the highest accuracy, getting true peak-to-peak measurements of complex voltage waveforms (necessary in TV servicing) and both peak-to-peak and rms measurement of sine wave AC voltages on separate scales. Use the 232 for resistance measurements, precision dynamic DC voltage measurements with negligible circuit loading, frequency response measurement, output meter and servicing electrical equipment.

A new balance bridge circuit yields exceptional stability and accuracy and the high impedance input results in negligible circuit loading. As an important safety feature, the large 4 1/2" meter can't burn out — thanks to a built-in protective circuit. There are seven non-skip ranges on all four functions.

Other features that make the 232 a valuable addition to the service bench are: zero center for TV-FM discriminator alignment, one zero adjustment for all functions and ranges, 1 per cent precision ceramic multiplier resistors, uniform 3 to 1 range ratio for extreme wide range accuracy and a transformer for isolation and safety.

The 232 has smart professional styling — satin finish, etched aluminum panel and grey wrinkle steel case. Nobody but EICO brings you such outstanding instrument performance for so low a price.

SPECIFICATIONS

PEAK-TO-PEAK AC RANGES: 0-4, 14, 42, 140, 420, 1400, 4200 volts. RMS SINE VOLTAGE RANGES: 0-1.5, 5, 15, 50, 150, 500, 1500 volts. DC VOLTAGE RANGES: 0-1.5, 5, 15, 50, 150, 500, 1500 volts. Reads up to 30,000 volts with HVP probe using 1090-megohms Multiplier Resistor. FREQUENCY RESPONSE: 30 cps to 3 mc (up to 250 mc with PRF probe). OHMMETER: 0.2 ohms to 1000 megs in 7 ranges. TUBE COMPLEMENT: 12AU7, 6AL5, selenium rectifier. BATTERY: 1.5 v. WEIGHT: 5 lbs. POWER REQUIREMENTS: 117 VAC, 60 cps; 5 watts. SIZE (HWD): 8 1/2" x 5" x 5". INPUT IMPEDANCE: 11 megohms.

★ Export Model available

EICO VTVM

PTP11 or PTP25



Kit \$5.50 Wired \$7.95

For accurate reading of peak-to-peak voltages directly on the DC scales of your VTVM or for tracing complex AC waveforms through TV receiver deflection systems, these probes operate efficiently over the entire range of 5 kc to 5 mc. Use PTP-11 for EICO 222, PTP-25 for EICO 221. Supplied less connector — requires MC1F for EICO VTVM's (except 221).

HVP-2



Wired only \$8.95

For safe measurements up to 30,000 volts DC with any VTVM or 20,000 ohms/volt VOM, the HVP-2 is the ideal probe. A choice of multiplier resistors to match most popular instruments. Specify Resistor Required When Ordering: Takes 1090 meg. for 235, 232, 249, 222; 740 meg. for 221. Less connector — use MC1F for EICO VTVM's (except 221).

PERFORMANCE PROVEN EICO VTVM'S



Complete with batteries and leads

EICO 222 VACUUM TUBE VOLTMETER

- Dual purpose AC/DC Uni-Probe
- Calibration without cabinet removal
- Exceptional stability and accuracy

Kit \$27.95 : Wired \$42.95

The EICO Model 222 is a remarkably efficient VTVM design. A 400 μ A meter, separate +DC and -DC volts calibration adjustments, more accurate low-voltage measurement plus measurement to higher voltages than ever before, and vastly improved appearance all contribute to making this instrument the finest value possible.

The Model 222 is an excellent general purpose VTVM for service work industrial testing, school and home laboratories. Complete electronic protection against meter over-load or burn-out, adjustment of all calibration controls without cabinet removal, and UNI-PROBE, a single unit probe used for all functions (a half-turn of the probe tip inserts the isolating resistor for DC voltage measurements) are provided at one low price. For use of the instrument as a null detector, or for f-m detector alignment, a zero center scale is provided. A 1 1/2 volt battery is used for resistance measurements to avoid danger to delicate apparatus that may be tested with the instrument. The meter is 2% accurate and multiplier resistors are 1% accurate.

DC VOLTMETER—RANGES: 0 to 3, 15, 75, 300, 1500 volts. INPUT RESISTANCE: 11 megohms. ACCURACY: $\pm 3\%$ of full-scale. (Reads to 30,000 volts with HVP probe and 1090 meg μ m multiplier.) **AC VOLTMETER**—RANGES: 0 to 3, 15, 75, 300, 1500 RMS volts. INPUT RESISTANCE: 1 megohm. ACCURACY: $\pm 5\%$ of full-scale. FREQUENCY RESPONSE: 30 cps to 3 Mc (source impedance 100 ohms or less). **OHMMETER**—RANGES: RX1 (0-1 K ohm), RX10 (0-10 K ohm), RX1K (0-1 megohm), RX10K (0-10 megohm), RX1M (0-1000 megohm). TUBE COMPONENT: 1-2AU7, 1-6AL5. POWER REQUIREMENTS: 105-125 VAC, 60/50 cps; drain: 5 watts. SIZE (HWD): 8 1/2" x 5 1/4" x 5 1/4". WEIGHT: 7 lbs.

★ Export Model available

EICO 249 DELUXE VTVM

Kit \$39.95 : Wired \$59.95

Complete with batteries and leads

For those who want a quality VTVM with the ease and convenience of reading a large 7 1/2" meter, the EICO 249 meets the challenge. Incorporating all the outstanding and exclusive features of the EICO 232 VTVM including the Uni-Probe, the 249 is a solid, impressive piece of test equipment for bench or field use.

The dual purpose Uni-Probe is a terrific timesaver! One probe performs the functions of many — a twist (1/2 turn) of the probe tip selects DC or AC/Ohms.

Measuring 8 1/2" x 13" x 5", the 249 weighs only 9 pounds. It draws 5 watts from a standard 117V, 60 cps AC line.

★ Export Model available

EICO 221 VACUUM TUBE VOLTMETER

Kit \$25.95 : Wired \$39.95

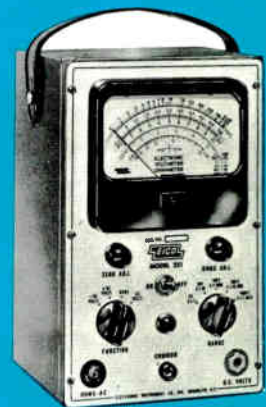
Complete with batteries and leads

The EICO Model 221 Electronic Volt-Ohm Meter is a high quality VTVM that is especially suited for use in television, f m, and a m radio servicing. Featuring a rugged and easy reading 4 1/2" meter, this instrument provides entirely electronic measurement of AC voltage, DC voltage, decibels and resistance.

Complete overload protection is provided electronically on all AC voltage, DC voltage, and ohmmeter ranges. To eliminate the need for reversing the test leads on DC voltage measurement (when a negative DC voltage is to be measured), positive and negative DC positions have been provided on the function switch. A zero centering position on the meter facilitates discriminator alignment in f m and a f c circuits.

DC VOLTAGE RANGES: 0 to 5, 10, 100, 500, 1000 volts. INPUT IMPEDANCE: 25 Meg. **AC VOLTAGE RANGES:** 0 to 5, 10, 100, 500, 1000 volts (special scale for 0 to 5 volts). INPUT IMPEDANCE: 3 Meg. **Electronic Ohmmeter RANGES:** 0 to 1000, 10,000, 1 Meg., 10 Meg., 1000 Meg. **DECIBEL RANGES:** -20 to +55 db. **FREQUENCY RANGE:** 20-200,000 cps. **ACCURACY:** d-c volts, $\pm 3\%$ a-c volts $\pm 5\%$. **POWER SUPPLY:** 115 V, 50-60 cps, 10 w. **OHMMETER BATTERY:** 1 1/2 V dry cell. TUBES: 6X5, 6H6, 6SN7. SIZE (HWD): 9 1/4" x 6" x 5". WEIGHT 7 lbs.

NOTE: Reads to 30,000 DC volts with HVP probe and 740 meg multiplier.



ACCESSORY PROBES

EXCLUSIVE UNI-PROBE®



Kit \$5.95 Wired \$7.95

Performs all functions. A half-turn of the probe tip selects DC or AC-ohms. Adapts to EICO 221 or other VTVM's in just 15 minutes. Complete instructions supplied. Supplied less series isolating resistor or connector. Use 1 megohm for all EICO VTVM's except 221, use 15 megohms for 221. EICO VTVM's (except 221) take MC1F connector; 221 must be modified.

PRF-11 or PRF-25



Kit \$4.50 Wired \$5.95

For voltage measurements at radio frequencies up to 250 mc. Very useful for measuring TV and radio RF and IF stages. Accuracy $\pm 10\%$. Use with any 11 or 25 megohm VTVM. Supplied less connector. Use PRF-11 for all EICO VTVM's except 221; use PRF-25 for 221.

EQUIP YOUR LAB WITH DEPENDABLE EICO TEST



- Wien Bridge with unique shunt resistance balancing circuit
- Capacity accuracy of $\pm 10\%$ at any point on the capacity dial
- Bright bar pattern gives sharp, unmistakable indications for accurate readings
- Supplied with Test leads

Kit \$24.95
Wired \$39.95

EICO 955 IN-CIRCUIT BRIDGE-TYPE CAPACITOR TESTER

A truly advanced, highly dependable in-circuit and out-of-circuit capacitor tester, the 955 provides exceptionally sensitive short and open tests.

In evaluating the 955, ELECTRONICS WORLD had this to say: "In actual use, tests were simple, fast and clearly indicative. But for the capacitance-measuring function, nothing more than a simple switch need be operated. . . . Part of the manufacturer's new line of industrial equipment, the 955 is sturdily and attractively housed."

A quick, easy glance at the electron-ray tube lets you know the status of shorts (closed bars indicate a short). A 60 cps test frequency and a maximum test voltage of 6.3 VAC (open leads), decreasing with decreasing impedance, are also featured. In normal situations open tests can be made on capacitances as low as 15 pf, but with constant voltage supply, internal adjustment can be made as little as 5 pf sensitivity. For in-circuit testing, shunt resistance may be as low as 35 ohms for capacitors above 250 pf and 7 K ohm at 15 pf. The test frequency is approximately 19 mc and the voltage is very low.

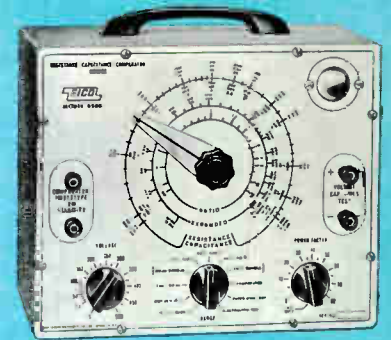
For capacity measurement the scale is screened on a 4" diameter heavy-gauge lucite disc. The reading point is just above the center of the bar pattern, and operating frequency of the bridge is 60 cps.

The $\pm 10\%$ accuracy is achieved by a sharp null indication (closed bars) when shunt resistance is balanced by the RC BALANCE control, and the .1-50 mfd CAPACITY dial is set at the correct capacitance value. The RC BALANCE control is calibrated in RC product (equivalent shunt resistance in kilohms multiplied by the capacitance in microfarads) in two ranges, 0.6 to 10.5 and 7 to infinity, selected by the RC RANGE switch. The very wide RC product range provided, with excellent spread permitting easy setting to any value, is the key to the accurate capacity measurement provided either in or out of circuit. For out-of-circuit measurements, the RC product value can be translated into dissipation or power factor by means of conversion charts in the manual.

SPECIFICATIONS

INDICATOR: Electron-ray tube EM84/6BG6. TEST SELECTOR: Three-position switch - SHORT, CAPACITY, OPEN. TEST LEADS: One coax type for all tests; detachable, with mic connector coupling to unit. SHORT TEST: Out-of-circuit or in-circuit short check, with shunt resistance as low as 1 ohm. Reliable up to 2000 uf. OPEN TEST: Out-of-circuit or in-circuit open test of capacitors as small as 15 pf with instrument adjusted normally. CAPACITY MEASUREMENT: From 0.1 to 50 μ f using Wien Bridge with unique shunt resistance balancing, permitting $\pm 10\%$ accuracy at any point on the capacity dial in out-of-circuit or in-circuit measurements. POWER REQUIREMENTS: 117 VAC, 60 cps, 8 watts. SIZE (HWD): 8" x 5 1/4" x 6". WEIGHT: 6 lbs.

★ Export Model available



Kit \$29.95
Wired \$39.95

EICO 950B R-C BRIDGE & R-C-L COMPARATOR

- Comparator range allows the use of complementary components as standards
- Continuously variable polarizing leakage test voltage from 0-500 VDC

Here's a professional instrument that should be standard equipment in every laboratory and service shop. With the extremely valuable Comparator range - exclusive with EICO at this outstanding low price - the 950B is one more "best buy" from the service-man minded electronics laboratories of EICO.

Four separate capacity and an equal number of resistance ranges are featured in the 950B. The comparator range allows measurement of resistances, capacitances and inductances with a complementary component as a standard. You can depend upon the EICO 950B for rapidity and precision in the measurement of unknown resistors and condensers. Readings are taken directly from the calibrated front panel - without the need of complex and time consuming computations. Safe operation is assured by the transformer power supply.

SPECIFICATIONS

CAPACITY: 4 ranges, 10 μ mf to 5000 μ i. RESISTANCE: 4 ranges, 0.5 ohms to 500 megohms. COMPARATOR: 1 range, ratio from .05 to 20 (400 to 1) DC POLARIZING VOLTAGE: 0 to 500 volts DC (continuously variable) $\pm 10\%$. TUBE COMPLEMENT: 1-1629, 1-6X5. POWER REQUIREMENTS: 117 volts AC, 60 cps. SIZE (HWD): 8" x 10" x 4 3/4". WEIGHT: 8 lbs. Optional Test leads available. ★ Export Model available

EICO 1100 EIA RESISTANCE SUBSTITUTION



The EICO model 1100 EIA Resistance Substitution Box provides a means of rapidly substituting a wide range of EIA resistance values in a circuit to determine the best resistance value for a desired result or the value of a badly charred or otherwise illegible resistor.

SPECIFICATIONS

RESISTANCE RANGE: 15 ohms to 10 megohms in decade multiples of 15, 22, 33, 47, 68 and 100 ohms. RATED ACCURACY $\pm 10\%$ at any setting. RATED POWER DISSIPATION: 1 watt at any setting. CONTINUOUS DUTY VOLTAGE RATING: 500 volts. TERMINALS: Five-way, jack-top binding posts. SIZE (HWD): 3 3/4" x 6 1/2" x 3 1/2". WEIGHT: 2 lbs. Supplied less leads.

Kit \$9.95
Wired \$14.95

EICO 1120 EIA CAPACITANCE SUBSTITUTION



The EICO 1120 is an excellent and logical companion to the 1100, and it affords the same multiplicity of servicing, development and time-saving advantages for capacitors as the 1100 does for resistors. Here, too, the price of the 1120 kit is less than the retail value of the capacitors alone!

SPECIFICATIONS

CAPACITORS (MFD): .0001, .00022, .00047, .001, .0015, .0022, .0033, .0047, .0068, .01, .015, .022, .033, .047, .068, .1, .15, .22. VOLTAGE RATINGS: Capacitors .0001 mfd through .00047 mfd: 500 volts, capacitors .001 mfd through .1 mfd: 600 volts, capacitors .15 and .22 mfd: 400 volts; TERMINALS: Five-way, jacktop binding posts. SIZE (HWD): 3 3/4" x 6 1/2" x 3 1/2". WEIGHT: 2 lbs. Supplied less leads.

Kit \$7.95
Wired \$12.95

INSTRUMENTS AND SAVE



Kit \$34.95
Wired \$49.95

EICO 147 DELUXE MULTI-SIGNAL TRACER

- Employs both visual and aural signal monitors
- RF channel gain permits tracing up to receiver input

A professional deluxe instrument crammed with unsurpassed facilities and conveniences for extra-easy, extra-fast profitable servicing of AM, FM and TV receivers. Here's one of the most useful and convenient instruments the serviceman can use in the servicing of TV, FM, AM, audio and electronic equipment. The 147 is a deluxe signal tracer brought up to date by EICO engineers in the light of the serviceman's latest needs for this type of all-purpose instrument. Two separate input channels assure maximum adaptability for both RF and audio work, and RF gain is so high you can trace right up to the antenna terminals of the set under test. Now you can both see and hear the signal level in each stage — the eye tube and speaker give you both aural and visual monitoring. The valuable noise locator and calibrated wattmeter turn suppositions into certain answers — and fast! The 147 has everything you could ask for in a modern, up-to-date professional signal tracer, and then some more features no other tracer gives you. It's one more champion precision instrument, at lowest cost . . . from EICO.

Two probes, shielded RF crystal demodulator and direct probe, are provided. Individual panel receptacles provided for easy change-over from RF to audio tracing or vice versa. An extremely valuable noise locator circuit ferrets out noisy controls, resistors, capacitors, coils, transformers and cold solder joints. Calibrated wattmeter affords a rapid preliminary check of power consumption in equipment under test, detects B+ shorts, intermittent filament circuits, defective filters or bypass capacitors.

SPECIFICATIONS

TUBE & DIODE COMPLEMENT: 1-12AX7 as dual voltage amplifier, 1-6AQ5 as beam power amplifier, 1-1629 as electron-ray indicator, 1-6X4 as full-wave rectifier, 1-1N48 (germanium diode) as wattmeter rectifier. POWER REQUIREMENTS: 105-125 volts ac, 50/60 cycles. SIZE (HWD): 8" x 10" x 4 3/4". WEIGHT: 10 lbs.

★ Export Model available

Power consumption 40 watts.

EICO 1140 SERIES/PARALLEL R-C COMBINATION BOX



*U.S. Patent

Kit \$15.95
Wired \$24.95

The EICO model 1140 Series/Parallel R-C Combination Box is an extremely valuable combination of the model 1100 Resistance Box and the model 1120 Capacitance Box, with additional switching facilities that permit selection of any resistance alone, any capacitance alone, or any combination of resistance and capacitance in series or parallel (1350 combinations). Open and short circuit positions are provided.

SPECIFICATIONS

RESISTORS: See Model 1100. CAPACITORS: See Model 1120. TERMINALS: Five-way jack-top binding posts. SIZE (HWD): 6 3/4" x 5 1/4" x 2 3/4". WEIGHT: 3 lbs.

Supplied less leads.

EICO 1180 DECADE CONDENSER BOX



Kit \$19.95
Wired \$29.95

The EICO model 1180 Capacitance Decade Box consists of three decade-capacitor assemblies mounted in a metal cabinet which serves as a shield. Each decade has eleven positions, 0 to 10 inclusive so that the decades overlap. The added capacity per step is 0.01 mfd for the largest decade, .001 mfd for the next decade, and .0001 mfd (100 mmf) for the smallest decade. Each decade consists of a ceramic wafer rotary switch and four capacitors whose values are 1 times, 2 times, and 4 times the added capacity per step for the particular decade.

Supplied less leads.

SPECIFICATIONS

VOLTAGE RATING: 350 volts DC continuous, 500 volts DC intermittent, 1000 volts DC test. INSULATION RESISTANCE: Production test limit is 50,000 megohms at 1000 volts DC, but bulk of capacitors are well over 250,000 megohms. POWER FACTOR: Better than 0.001. ACCURACY: +1%. WEIGHT: 3 lbs.

EICO 1171 DECADE RESISTANCE BOX



Kit \$24.95
Wired \$39.95

The EICO model 1171 Resistance Decade Box is a rugged and simple to operate piece of test equipment. Design application permits this instrument to be used in the laboratories of both the radio serviceman and the engineer.

The 1171 decade box provides standard resistances within known accuracies, enabling the technician to make tests to readily pin-point troubles and design new devices.

SPECIFICATIONS

RANGE: 0-99,999 ohms in 5 decades. CURRENT RATINGS: 350 ma (0-9 ohms) to 2.5 ma (10 K Ω to 100 K Ω). CABINET: Steel, baked enamel. PANEL: Aluminum, deeply etched panel. SIZE (HWD): 3 1/2" x 12" x 3". WEIGHT: 3 lbs. Supplied less leads.

EICO 540 READI-TESTER



Kit \$15.95
Wired \$19.95

Designed expressly for "do-it-yourself" home appliance & auto repair — easily finds defects in irons, fans, heaters, TV & radio tubes, batteries, ignition coils, etc. It is an all-in-one MULTI-RANGE AC/DC voltmeter, ammeter, ohmmeter, wattmeter, leakage checker. Extremely versatile, dependable, low in cost.

Provides "GOOD-BAD" readings on 6 V and 12 V automobile storage batteries, and permits checking of individual cells.

SPECIFICATIONS

VOLTAGE RANGES: 0-7.5 15 150, 300 volts (AC/DC). CURRENT RANGE: 0-15 amps. RESISTANCE RANGE: 0-1000 ohms (direct reading). LEAKAGE TEST: Neon lamp circuit. WEIGHT: 3 lbs. SIZE (HWD) 6 1/2" x 3 1/4" x 3 1/2". Includes leads.

EICO 584 BATTERY TESTER



Kit \$9.95
Wired \$12.95

For fast running check of battery stock, testing of batteries commonly in portable vacuum tube & transistor radios, hearing aids, flashlights, photo-flash equipment, etc. Versatile, dependable, at a typical low EICO price. Rotary switch selection of the exact voltage of the battery under test inserts the proper resistor in series and in shunt with the meter. Therefore the battery's internal resistance reduces its terminal voltage exactly as occurs under actual operating conditions.

SPECIFICATIONS

TEST POSITIONS (VOLTS): 1.5, 4.5, 6.0, 7.5, 9.0, 22.5, 45, 67.5, 75, 90, plus spare position. SIZE (HWD): 6 1/4" x 3 3/4" x 2". WEIGHT: 2 lbs. Test leads provided.

NEW!

SIMPLIFY SERVICING & TESTING



- Regulated B+ continuously variable 0-400 VDC
- Regulated bias supply continuously variable 0 to -150 VDC
- Ripple less than 3 millivolts RMS
- Both 6.3 and 12.6 VAC filament supplies

Kit \$69.95
 Wired \$99.95

EICO 1030 REGULATED POWER SUPPLY

Now, at last, a low-priced reliable and versatile dcuble power supply that can simultaneously deliver any regulated B+ or regulated bias voltage required for circuit design, production testing, workbench or school experiments.

The EICO Model 1030 delivers exactly the voltage needed to test any circuit, while **simultaneously** monitoring both voltage and current used by the circuit being tested.

The Model 1030 also delivers 6.3 VAC at 3 amperes, 6.3 VAC at 3 amperes center-tapped (both filament supplies are independent of each other), or 12.6 VAC at 3 amperes.

As an added feature, a front-panel switch is provided to turn off the high voltage to the circuit under test without shutting of the filament power to the test circuit or the power supply. This provides an "instant turn-on" action that eliminates wasted time in bench work.

The regulated B+ supply (0-400 VDC) consists of a high-current rectifier and a pair of parallel-connected, high-current, series-pass tubes, and a sensitive control tube, connected in an electronic filter arrangement. The screen grids of the series-pass tubes are supplied from a separate power supply contained within the Model 1030. Regulation of the B+ power supply is such that with loads of 100 MA applied, the output voltage will vary less than 0.3% or 3 volts, and, if the power line voltage varies as much as ± 10 volts, the output voltage will change as little as 0.5 volts. All this with a ripple of less than 3 mv RMS.

The independent bias supply (0 to -150 VDC) consists of a rectifier, a pi-type RC filter, and gas tube regulation. Like the B+ power supply, if the power line voltage varies as much as ± 10 volts, the bias voltage output will change as little as 0.5 volts. Ripple is less than 3 mv RMS.

SPECIFICATIONS

REGULATED B+: 0-400 VDC continuously variable; 0-100 MA continuous from 0-200 VDC, 0-125 MA intermittent from 0-200 VDC, 0-150 MA continuous from 200-400 VDC. LOAD REGULATION: Varies less than 1/3% or 0.3V (whichever is greater) from 0-100 MA. LINE REGULATION: varies less than 0.4% or 0.5V (whichever is greater) for a ± 10 V line variation. RIPPLE: Less than 3 mv RMS. OUTPUT IMPEDANCE: Less than 10 ohms from DC to 1MC. REGULATED BIAS SUPPLY: 0 to 150 VDC continuously variable. CURRENT RANGE: 0-2 MA. LINE REGULATION: Varies less than 0.4% or 0.5V (whichever is greater) for ± 10 V line variation. RIPPLE: Less than 3 mv RMS. AC FILAMENT SUPPLIES: 6.3 VAC at 3 amperes, and 6.3 VAC at 3 amperes center tapped; 12.6 VAC at 3 amperes by series connection of the two 6.3 VAC windings; and 6.3 VAC at 6 amperes by parallel connection of the two 6.3 VAC windings. METERING: Double-jewelled D'Arsonval Meters: voltmeter with switched ranges of 0-400 VDC (regulated B+) and 0-200 VDC (regulated bias supply); milliammeter with 0-200 MA scale for monitoring the regulated B+ supply. POWER REQUIREMENTS: 120 VAC, 50/60 cps, approximately 160 watts. SIZE (HWD): 8 1/2" x 12 1/2" x 9". WEIGHT: 21 lbs.



EICO 1060S BATTERY ELIMINATOR & CHARGER

Kit \$45.95 : Wired \$59.95

- Specially designed for servicing all types of transistor equipment

The EICO 1060 is the most modern and versatile of battery eliminators. It incorporates an extra low-ripple filter circuit so that it can service all-transistor 6 and 12-volt equipment as well as hybrid or all-vacuum tube equipment. In order to extend the many advantages of this highly filtered DC output to all applications of the 1060, its special filter circuit comprises a very heavy duty iron choke and a dual 5000mf 20v electrolytic filter capacitor - designed to take the full continuous as well as the higher intermittent rated current output of the instrument.

Important exclusive features of the 1060 include automatic switching of appropriate ammeter range as you select either of the two voltage ranges (0-8 and 0-16 volts).

The continuous voltage adjustment with a variac-type transformer, **heavy-duty silicon rectifiers**, a fused primary and a secondary protected by an automatic re-set overload relay.

The 1060 is ideal for servicing 6 or 12-volt mobile equipment on the workbench to powering marine equipment while at dockside.

SPECIFICATIONS

DC OUTPUT VOLTAGE RANGES: (Range selected by 6V-12V toggle switch) 0-8 volts, 0-16 volts. AC RIPPLE: 12V range - 0.3% @ 2 amps, 1% @ 6 amps, 1.5% @ 10 amps. 6V range - 1.5% @ 2 amps, 2% @ 6 amps, 4.5% @ 10 amps. CURRENT RATINGS: 0-8 volt range: 10 amps continuous, 20 amps intermittent. 0-16 volt range: 6 amps continuous, 10 amps intermittent. METERS: Voltmeter - 0-20 volts. Ammeter - 0-10, 0-20 amps. POWER REQUIREMENTS: 105-125 volts AC, 60 cps; 150 watts. SIZE (HWD): 8 1/4" x 10 1/2" x 7 1/4". WEIGHT: 18 lbs.

EICO 944 FLYBACK TRANSFORMER & YOKE TESTER

Now you can make one of the most difficult TV servicing jobs a breeze. Here's fast, positive testing of flybacks and yokes, in or out of the set at lowest cost!

The 944 Flyback Transformer & Yoke Tester gives you positive checks on many types of flybacks and yokes in seconds. Operation is on the extremely sensitive griddip principle, which shows up even one shorted turn! Exclusive separate calibration for air-core and iron-core flybacks and yokes assures accuracy in testing many types. The large easy-to-read 4 1/2" meter has three separate colored scales. Continuity of coils, speakers, switches can also be checked. Featuring smart professional styling, the unit is packaged in a 7" x 5" x 4" satin-finish aluminum panel and grey wrinkle steel case and weighs 5 pounds.

Kit \$29.95
 Wired \$39.95



WITH EICO TEST INSTRUMENTS



EICO 1020 TRANSISTOR POWER AND BIAS SUPPLY

Kit \$25.95 Wired \$34.95

- Continuously variable output voltage monitored by dual-range voltmeter
- Versatile, stable and reliable transistorized supply capable of handling 300 ma

Highly versatile, stable and reliable, the Model 1020 is a completely transistorized, very low ripple, portable DC power and bias supply providing continuously variable output voltage monitored by a dual range voltmeter (0-6, 0-30 VDC). It comprises a power transformer, full-wave silicon rectifier circuit, electrolytic capacitor input filter followed by a two-power transistor (2-2N256) cascaded filter circuit. The maximum permissible load current varies from 150 ma in the 0-12 V range to 300 ma in the 24-30 V range. The maximum ripple (120 cps) at full load is only 0.005%. The unit is housed in a rugged grey wrinkle steel case 5" x 4" x 5½" (HWD) and is fused for protection against short circuits.

Applications include: a universal power supply for servicing transistor devices, a variable bias supply to bias transistors or vacuum tubes, to offset AVC and AGC voltages in the alignment of TV and radio receivers or to cut off the color burst amplifier in color TV adjustment; a dc filament supply or a filament bias source, to recharge small storage batteries, or to do light electroplating.

SPECIFICATIONS

OUTPUT VOLTAGE RANGE: 0-30 VDC, continuously variable. MAX. OUTPUT CURRENT, CAPACITY (CONTINUOUS): 150 ma from 0-12 V, 200 ma from 12-24 V, 300 ma from 24-30 V. FUSE: ½ amp. will blow in case of short circuit to protect unit. Pilot lamp will remain lit even when fuse is blown but voltmeter will read zero. RIPPLE: (120 cps): 0.005% at full load. POWER REQUIREMENTS: 117V, 60 cps. SIZE (HWD): 5" x 4" x 5½". WEIGHT: 5 lbs.



NEW IMPROVED DESIGN WITH RELIABLE SILICON RECTIFIERS

Kit \$49.95
Wired \$64.95

EICO 1064S BATTERY ELIMINATOR & CHARGER

- Automatic switching of ammeter range as voltage ranges are selected
- Two DC voltage ranges: 0-8 volts and 0-16 volts
- Simultaneous monitoring of both voltage and current on both ranges

Of the EICO 1064 Battery Eliminator and Charger, ELECTRONICS ILLUSTRATED had this to say: "Our checks showed the instrument's residual ripple to be low enough to permit its use with any transistorized device from the pocket portable to automobile hybrid receivers."

This supply delivers the smooth, undistorted DC necessary for servicing transistorized equipment or for any application where minimum ripple is mandatory. The extra-low ripple output is achieved through the use of a special L-C filter circuit consisting of a very heavy-duty iron choke and a dual 5000 mf, 20-volt electrolytic filter capacitor. The ability of this circuit to handle the full continuous as well as the higher rated intermittent current output of the instrument, without overloading or danger of burnout — on both current ranges — ensures that the many advantages of its highly filtered DC output are available for all conceivable applications.

Among the 1064's applications are charging 6 or 12-volt storage batteries, simulating various battery operating voltages for detecting intermittents and shorts in radio equipment, supplying DC for filament voltages in high-gain audio-circuit work, determining starting point in vibrators, determining voltage operating range of oscillator circuits, running small electrical appliances (shavers, trains, etc.).

The 1064 also serves well for marine purposes, operating boat lights, radio-phone, amplifiers, transmitters, bilge pump and other electrical utility units while at dockside, eliminating the need for installing a costly secondary AC lighting system. A fused primary and a re-set overload relay on the secondary add to the durability and safety of the 1064.

SPECIFICATIONS

DC OUTPUT VOLTAGE RANGES: (Range selected by 6V-12V toggle switch) 0-8 volts, 0-16 volts. CURRENT RATINGS: 0-8 volt range: 10 amps continuous, 20 amps intermittent; 0-16 volt range: 6 amps continuous, 10 amps intermittent. AC RIPPLE: 0-16 volts range: 0.3% @ 2 amps, 1% @ 6 amps, 1.5% @ 10 amps; 0-8 volt range: 1.5% @ 2 amps, 2% @ 6 amps, 4.5% @ 10 amps. METERS: Voltmeter—0-20 volts. Ammeter—0-10, 0-20 amps. POWER REQUIREMENTS: 117 volts AC, 60 cps; 150 watts. SIZE (HWD). 8½" x 5¼" x 7¼". WEIGHT: 16 lbs.



Kit \$32.95
Wired \$42.95

EICO 1050 BATTERY ELIMINATOR & CHARGER

This modern battery eliminator fulfills all the needs for a dependable 6 and 12-volt DC supply source, for servicing vacuum tube auto radios and all other battery powered equipment where the AC ripple component is not an important consideration. The 1050 will do all that the EICO 1060 will do, but is not recommended for transistor work. Two DC voltage ranges cover 0-8 and 0-16 volts and are continuously adjustable with a variac-type transformer. Either the 6 or 12-volt range is selected by use of a toggle switch. Current ratings on the 0-8 volt range are 10 amps continuous duty and 20 amps intermittent, while on the 0-12 volt range the specifications are 6 and 12 amps respectively. The two meters read 0-20 (one for amperes and the other for volts).

Operation of the 1050 is from 50 to 60 cycle, 105-125 VAC at 150 watts. The compact (8½" x 10½" x 7¼") unit weighs 3 pounds, has a fused primary and an automatic reset overload relay for the secondary.

EICO

INDUSTRIAL PRODUCTS DIVISION

EICO industrial instruments are found in universities, technical schools, manufacturing facilities, laboratories, servicing organizations, utility companies and numerous other organizations

throughout the world.

EICO's quality and dependability are well known and appreciated by industrial users everywhere.



EICO 902 IM/HARMONIC DISTORTION METER & AC VTVM

The EICO 902 is a unique audio test instrument combining IM and Harmonic Distortion Meters and a sensitive AC VTVM and db meter in one compact package. It offers the stability and accuracy needed for critical measurements in audio research, design, and development. Yet, its ease and speed of operation make it ideal for production testing, quality control and servicing.

For harmonic distortion measurement, the 902 incorporates a continuously variable 20-20,000 cps Wien Bridge rejection filter (in three ranges).

For IM distortion measurement, the 902 incorporates a 7 kc oscillator for the high frequency source and a filtered line-frequency signal for the low frequency source. External low frequency sources up to 400 cycles and high frequency sources down to 2 kc may be fed to the mixing bridge through panel jacks.

Used as an AC VTVM, the 902 provides a highest range of 300 V and a lowest range of 10 mV with uniformly excellent response at all levels. The AC VTVM section is employed in all instrument functions, and the linear 0-1, and 0-3 meter scales are used for all measurements. A decibel scale (-20 to +2) is also provided, based on 0 db = 1 mw in 600 ohms and permitting power measurements in dbm.

SPECIFICATIONS

IM DISTORTION: LF to HF ratios 4:1 and 1:1. TEST OUTPUT: 0.5 v. OUTPUT Z: 600Ω or external. INPUT Z: 500kΩ. MINIMUM INPUT: 0.7 v. DISTORTION RANGES: 0.3, 1, 3, 10, 30%. ACCURACY: ±5% of full scale. RESIDUAL DISTORTION: 0.05%. HARMONIC DISTORTION; FREQUENCY RANGES: 20-200, 200-2000, 2000-20,000 cps. INPUT Z: 500kΩ. MINIMUM INPUT: 0.7 v. DISTORTION RANGES: 0.3, 1, 3, 10, 30, 100%. ACCURACY: ±5% of full scale. INTERNAL DISTORTION: 0.1%. AC VTVM; RANGES: .01, .03, 0.1, 0.3, 10, 30, 100, 300 volts RMS. Also db scale of -20 to +2. INPUT Z: 2MΩ. FREQUENCY RESPONSE: ±0 db 10 cps to 100 kc, -3 db at 300 kc. ACCURACY: ±4% of full scale. POWER SUPPLY: V-R tube regulated. POWER REQUIREMENTS: 115 VAC, 60 cps, 60 watts. SIZE (HWD): 12½" x 8½" x 10½". WEIGHT: 22 lbs. EXPORT MODEL: 115 and 230 VAC, 60/50 cps.

- High quality tuning capacitor provides easy frequency setting
- Less than 0.7 volt input required for measurements

Wired only \$250.00



EICO 965 FARADOHM BRIDGE/ANALYZER

The Model 965 is an extremely flexible analyzer. It incorporates an RC bridge, a 6-range DC VTVM, and 11-range DC vacuum-tube microammeter and milliammeter and a built-in variable DC supply.

The bridge may be used for resistance and capacitance measurements, and also as a resistance-capacitance-inductance comparator with external standards.

A very low internal AC bridge supply voltage permits testing all types of capacitors without damage. The bridge may also be supplied from an external source. An external polarizing voltage may be applied to capacitors above .05. A sensitive detector amplifier gives sharply-defined null. Power factor measurement is provided for capacitors above 0.05uf on a calibrated control. A plug in shield is supplied to be used for small capacitors.

Leakage current and insulation resistance measurements may be made either to EIA standards, or for actual working conditions.

Overload protection is provided for the meter and the power supply, with overload signalled, by lighting up the meter. A unique INSTANT ZERO pushbutton permits instantaneous zero adjustment of the VTVM without changing any settings or connections. A special DISCHARGE switch position and a panel warning light assure safety in handling of components.

SPECIFICATIONS

CAPACITANCE RANGES: 5 pF-10000 pF, 500 pF - 1 μF, .05 μF - 100 μF, 50 μF, 5000 μF. POWER FACTOR: 0-80% at 60 cps. RESISTANCE RANGES: 0.5Ω-1KΩ, 50Ω-100KΩ, 5KΩ-10MΩ, 5MΩ-500MΩ; Higher Resistances up to 200,000MΩ can be measured with the metered variable DC supply. RCL COMPARATOR RANGE: .025-50 (ratio). BRIDGE SUPPLY VOLTAGE: Below 0.5 VAC RMS at line frequency, except 10 VAC RMS on lowest capacitance and highest resistance ranges. VARIABLE DC SUPPLY VOLTAGE RANGES: .4 V-1.5 V, 1.4 V-5 V, 4 V-15 V, 14 V-50 V, 40 V-150 V, 140 V-500 V; maximum output 10 mA. DC VTVM RANGES: 0-1.5 V, 5 V, 15 V, 50 V, 150 V, 500 V. Input Z 10MΩ DC VTAM Ranges: 0-.15 μA, .5 μA, 1.5 μA, 5 μA, 15 μA, 50 μA, 15 mA, .5 mA, 1.5 mA, 5 mA, 15 mA. Voltage drop across terminals 75 mV. ACCURACY: ±5% throughout, except on power factor below 30%. POWER REQUIREMENT: 115 VAC, 60 cps, 32-45 watts. SIZE (HWD): 8½" x 12½" x 9". WEIGHT: 18 lbs.

- Low bridge supply voltage permits testing of all types of capacitors
- Measures diode revers and transistor quiescent current
- Measures insulation resistance and leakage currents

Wired only \$175.00



EICO 1078 METERED AC SUPPLY

- 0 to 140 VAC adjustable output voltage
- Separate output ammeter and voltmeter

Kit \$69.95 : Wired \$95.00

Instrument-styled, fully metered, variable 0-140 VAC supply needed at every engineering bench, and in production testing, quality control and service work. Ideal for line voltage adjustment and studying performance under varying line conditions. Also for power consumption checks, and for exposing intermittent components by inducing failure with over-voltage. Provides 0-140 VAC adjustable output voltage from 120 VAC power line input, with no waveform distortion. Ammeter is dual range for greatest accuracy, and switching is permitted under load. Auto-transformer and ammeter are protected by separate extractor post panel fuses.

SPECIFICATIONS

FREQUENCY: 50/60 cycles. INPUT VOLTAGE: 120 VAC. OUTPUT VOLTAGE: 0-140 VAC (30-140 VAC voltmeter). OUTPUT CURRENT: Two ranges 0-2.5, 0-7.5 amperes. METER ACCURACIES: ±3% of full scale. POWER SWITCH: 2-pole type disconnects unit from both sides of the power line at the off position. LINE CONNECTION: 3-wire cord and plug. LOAD CONNECTION: 3-wire outlet receptacle. SIZE (HWD): 8½" x 5¼" x 7". WEIGHT: 16 lbs.

LABORATORY PRECISION AT LOWEST COST!



EICO 250 AC VTVM & AMPLIFIER

- Measures AC voltage from 100 μ V to 300 V
- Cathode follower input circuit for greater stability

Kit \$59.95 : Wired \$89.95

The EICO 250 is a high sensitivity, wide-band AC VTVM and amplifier of laboratory accuracy and quality. It measures AC voltage from 100 microvolts to 300 volts in 12 ranges. A function selector switch on the panel converts the instrument to a wide-band amplifier with a gain of 60 db on the 1 mv range, and a maximum output of 5 volts RMS.

The instrument responds to the average value of the applied wave and reads in RMS value of a sine wave. The 0-1, 0-3 voltage scales are linear. The decibel scale is based on 0 db = 1 mw in 600 ohms, with 10 db interval between ranges.

The EICO 250 features a frame-grid triode cathode follower input circuit, frequency-compensated input attenuator, and cathode circuit attenuator. The use of high-gain frame-grid pentodes permits fewer amplifier stages for less phase shift and greater stability.

The model 250 employs a two-stage R-C coupled amplifier, and full-bridge meter circuit in one overall feedback loop. A single-sensitivity adjustment is utilized, and no response adjustment is required in the amplifier circuit.

SPECIFICATIONS

VOLTMETER VOLTAGE RANGES: 1, 3, 10, 30, 100, 300 RMS millivolts. 1, 3, 10, 30, 100, 300 RMS volts. **DECIBEL RANGE:** -80 to +52 db in 12 ranges. **FREQUENCY RESPONSE:** ± 0 db 10 c to 600 kc. **INPUT IMPEDANCE:** 10 megohms shunted by 15 mmf. **ACCURACY:** $\pm 3\%$ of full scale. **TUBE COMPLEMENT:** 2-6EJ7/EF184 frame grid pentodes, 1-6FY5/EC97 frame-grid triode, 1-6X4 full-wave rectifier, 1-OA2 voltage regulator.

AMPLIFIER MAX. OUTPUT VOLTAGE: 5 RMS volts. **MAX. GAIN (1 MV RANGE):** 60 db. **FREQUENCY RESPONSE:** +0, -3 db 3 c to 800 kc. **MAXIMUM HUM & NOISE:** -40 db with signals above 2 millivolts. **INPUT IMPEDANCE:** 10 megohms shunted by 15 mmf. **OUTPUT IMPEDANCE:** 5K ohms. **TUBE COMPLEMENT:** 2-6EJ7/EF184 frame-grid pentodes, 1-6FY5/EC97 frame-grid triode, 1-6X4 full-wave rectifier, 1-OA2 voltage regulator. **POWER REQUIREMENTS:** 105-125 VAC, 60 cps; 15 watts drain. **SIZE (HWD):** 8 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ " x 7". **WEIGHT:** 10 lbs.

★ Export Model available



EICO 255 AC VTVM

- Measures voltage from 100 μ V to 300 V in 12 ranges
- Accuracy $\pm 3\%$ of full scale

Kit \$49.95 : Wired \$79.95

The model 255 is a high sensitivity, wide-band AC VTVM of laboratory accuracy and quality. It measures AC voltage from 100 microvolts to 300 volts in 12 ranges.

The instrument responds to the average value of the applied wave and reads in RMS value of a sine wave. The 0-1, 0-3 voltage scales are linear. The decibel scale is based on 0 db = 1 mw in 600 ohms, with 10 db interval between ranges.

Features include frame-grid triode cathode follower input circuit, frequency-compensated input attenuator, and cathode circuit attenuator. Use of high-gain frame-grid pentodes permits fewer amplifier stages for less phase shift and greater stability. Two-stage R-C coupled amplifier and full-bridge meter circuit in one overall feedback loop. Single sensitivity adjust; no response adjustment required in amplifier circuit. Regulated power supply and DC-biased filaments and hum-adjust pot. Pair of binding posts on the panel are input terminals for voltage measurement and will accommodate wire, pin tip, or banana plug. One binding post is connected to chassis ground.

The model 255 is essentially identical to the model 250, and the reviews of the model 250 quoted in this catalog can be considered to apply equally well to the model 255. The primary reason for offering the model 255 in addition to the model 250 is to provide an instrument with maximum control simplicity, a larger and more easily operated range selection knob, and a more easily read dial.

SPECIFICATIONS

VOLTAGE RANGES: 1, 3, 10, 30, 100, 300 RMS millivolts; 1, 3, 10, 30, 100, 300 RMS volts. **DECIBEL RANGE:** -80 to -52 db, in 12 ranges. **FREQUENCY RESPONSE:** ± 0 db 10 c to 600 kc. **INPUT IMPEDANCE:** 10 megohms shunted by 15 mmf. **ACCURACY:** $\pm 3\%$ of full scale. **TUBE COMPLEMENT:** 2-6EJ7/EF184 frame-grid pentodes, 1-6FY5/EC97 frame grid triode, 1-6X4 full-wave rectifier, 1-OA2 voltage regulator. **POWER REQUIREMENTS:** 105-125 VAC, 60/50 c; 15 watts drain. **SIZE (HWD):** 8 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ " x 7". **WEIGHT:** 7 lbs.

★ Export Model available



EICO 261 AC VOLT-WATT METER

- 11 voltage ranges, 7 power ranges
- Regulated power supply, automatic load compensation

Kit \$59.95 : Wired \$89.95

The EICO 261 is a highly sensitive meter for measuring AC voltage and power. It is a required instrument for testing, evaluating and servicing amplifiers, oscillators, tone multiplex and similar equipment. It is also useful as a null indicator for Q measurements and for comparison measurement of capacity, inductance and resistance.

The unit features 11 voltage ranges from 10 mv to 1000 RMS volts. There are 7 power ranges from 0.15 mw to 150 watts. 1000-volt range permits checking power transformers.

The model 261 automatically compensates for any load selected, whether internal or external, to provide a single watt scale for all load and ranges. Power supply employs silicon diodes and is voltage regulated.

The instrument incorporates a tapped power resistor load (4, 8, 16 and 600 ohms) to handle up to 80 watts of power on 8 ohms, and 40 watts on other taps. It may be switched to external load up to 150 watts. The meter is automatically compensated for any load selected, internal or external, to provide a single watt scale for all loads and ranges.

The model 261 is an average reading device calibrated in RMS voltage or power of a pure sine wave. The 0-1, 0-3 voltage scales are linear and the single 0-1.5 power scale is quadratic.

SPECIFICATIONS

VOLTMETER RANGES: .01, .03, .1, .3, 1, 3, 10, 30, 100, 300, 1000 RMS volts. **FREQUENCY RESPONSE:** ± 0 db 10 c to 150 kc, -3 db at 500 kc. **INPUT IMPEDANCE:** 2 megohms shunted by 15 mmf. **ACCURACY:** $\pm 4\%$ of full scale.

WATTMETER RANGES: 0.15 mw, 1.5 mw, 15 mw, 150 mw, 1.5W, 15W, 150W. **FREQUENCY RESPONSE:** ± 0 db 10 c to 100 kc. **ACCURACY:** $\pm 5\%$. **INTERNAL LOADS:** 4 ohms (40W), 8 ohms (80W), 16 ohms (40W), 600 ohms (40W). **EXTERNAL LOADS:** 4 ohms, 8 ohms, 16 ohms, 600 ohms (all to 150W). **TUBE COMPLEMENT:** 6BL6/ECF80 pentode-triode, 12AT7 dual triode, OB2 voltage regulator. **POWER REQUIREMENT:** 105-125 VAC, 60 cps; 15 watts drain. **SIZE (HWD):** 3 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ " x 7". **WEIGHT:** 6 lbs.

★ Export Model available

EICO offers you the most

with the widest range of educational electronic instruments.

NEW!



EICO B-500 COMPLETE EDUCATIONAL LAB STATION

Recommended for use with the Berkeley Physics Course.

\$285.00 Kit \$425.00 Factory Wired

The EICO B-500 Student Lab Station is recommended for use with the Berkeley Physics Lab Course (published by McGraw-Hill). This course is recognized as one of the most comprehensive complements to college level physics instruction ever developed. EICO offers the complete test equipment Lab Station set-up for the

Berkeley Course — at the industry's lowest price. For an even greater saving, you can have your students build their instruments from EICO kits.

Of course, you can be sure, whether you buy the wired equipment or the kits, your EICO instruments will far exceed the quality requirements established by the University of California when they devised the course.

EICO B-500 Student Lab Station consists of 6 coordinated 100% professional EICO Test Instruments. Model 460 Wideband DC 5" Oscilloscope; Model 232 Peak-to-Peak Vacuum Tube Voltmeter; Model 377 Sine & Square Wave Audio Generator; Model 324 Wide Range R-F Signal Generator; Model 1020 Solid State Power & Bias Supply and Model 1030 Variable High-Voltage Regulated Power Supply.

NEW EICO 20,000 OHMS/VDC MULTIMETER FEATURES 0.25 VOLT FULL-SCALE RANGE FOR ACCURATE TRANSISTOR SERVICING.

EICO 567 VOM

Kit \$34.95 Wired \$44.95

Once again EICO leads the way! The new Model 567 V-O-M is destined to be the new standard for volt-ohm-meters! Engineered for maximum versatility not only for the high voltages used in vacuum-tube circuits, but its 0.25-volt full-scale range, makes it ideal for use in semi-conductor circuits. This finely constructed modern V-O-M uses EICO-exclusive ceramic switches to remove corona effects and avoid the possibility of damaging high-voltage breakdown. The large easy-to-read 4½", 50µA, sensitive meter is fully protected against accidental overload damage by a pair of special silicon diodes. For greatest accuracy, all resistors are of the 1% tolerance precision types.

SPECIFICATIONS

DC VOLTAGE: 0-0.25, 2.5, 10, 50, 250, 1000, 5000 volts, Sensitivity 20,000 ohms/volt. AC VOLTAGE: 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 5000 ohms/volt. DC CURRENT: 0-100 µA, 10 mA, 100 mA, 500 mA, 10 amperes. DECIBELS: -12 to +55 in 5 ranges. RESISTANCE: 0-2000 ohms, 0.2 megohms, 20 megohms. METER: 4½", 50 µA movement. SIZE (HWD): 6¼" x 5¼" x 3". WEIGHT: 3 lbs.

Look at these characteristics—accurate DC voltage measurements can be made from 0.005 to 5000 volts, while DC current can be read from 1 µA to 10 amperes; accurate AC voltages can be read to 5000 volts at frequencies ranging from 10 to 50,000 Hz, while an accompanying DB range indicates from -12 to +55 dB; and resistance can be read from 0.2 ohm to 20 megohms!

The meter is packaged in a high-impact, black bakelite case, is self-powered by easy to replace batteries, making it a sturdy, portable unit for any shop or field use. Supplied less batteries. Requires (4) 1.5V AA and (1) 1.5V D batteries.

NEW!



- 20,000 ohms-per-volt sensitivity
- New 0.25 volt full-scale range allows accurate reading down to 0.005 volt
- Special silicon diode meter protection circuit

VISU-TRONIC® TEACHING AIDS

EICO RA6D TRANSISTOR RADIO DEMONSTRATOR

Kit \$79.95

Complete working 4-color demonstration model of a modern 6-transistor superheterodyne radio receiver. Ideal for teaching circuit fundamentals and maintenance techniques for radio receivers and solid state devices. SIZE (HWD): 27¼" x 40¼" x 3½". Weight: 7 lbs.

EICO 249D VTVM DEMONSTRATOR

Kit \$89.95

Complete working model of EICO 249 vacuum tube volt-meter, including UNI-PROBE®, furnished in easy to assemble kit form. Provides dramatic classroom demonstration of principles of electronic instrumentation. SIZE (HWD): 27¼" x 40¼" x 3½". Weight: 7 lbs.

EICO 221D VTVM SIMULATOR

\$15.00

Realistically reproduces the entire front panel of the famous EICO 221 VTVM — two-and-a-half times as big as life, for clear legibility and easy viewing, even from the back of the room. Function and range knobs click convincingly into place when turned. Dial may be set by turning Zero Adjust or Ohms Adjust knob, just as on an actual VTVM. Punched holes for easy hanging. Rugged steel cabinet. Brushed aluminum panel. 13" meter scale. SIZE (HWD): 23" x 14¼" x 3¼". WEIGHT: 21 lbs.

100,000
OHMS/VOLT

**MODEL
100A4
\$34.95**

Complete
with batteries
and test leads

optional
Carrying case
\$5.95



**THE BEST BUY IN A BENCH-SIZE MULTIMETER...
LABORATORY ACCURACY AND PROFESSIONAL
VERSATILITY—AT LOWEST COST.**

With its DC sensitivity of 100,000 ohms/volt and AC sensitivity of 12,500 ohms/volt, the new 100A4 combines extremely minimal circuit loading with wide-ranging functional utility in a battery-operated, portable volt-ohm-milliammeter—thus satisfies the precision and flexibility requirements of electronic engineers, experimenters, hams, and electronic technicians. All the features you would expect in a fine quality laboratory instrument are also present: double-jewelled $\pm 2\%$ D'Arsonval meter movement; full-view 4-inch mirror-back two-color scale eliminates reading parallax; a matched pair of silicon diodes prevents accidental overload of meter movement. High-impact, custom-molded case protects against shock; integral handle for convenient positioning and portability.

DC VOLTAGE: 0 - 500 mV, 2.5, 10, 50, 250, 500 and 1000 volts
AC VOLTAGE: 0 - 2.5, 10, 50, 250 and 1000 volts
DC CURRENT: 0 - 10 μ A, 250 μ A; 2.5 mA, 250 mA and 10 Amp.
RESISTANCE: 0 - 20,000; 200K; 2 meg; 20 meg
DECIBELS: -20 to +62 in 5 ranges
ACCURACY: 2% Meter movement
INPUT RESISTANCE: 100,000 ohms/volt DC; 12,500 ohms/volt AC
SIZE: 7-1/2H x 5-1/4W x 3-1/4D

TRUVOHM MULTIMETERS BY EICO

The Industry's greatest values in professional Volt-Ohm-Milliammeters . . . bar none

- Designed and manufactured to EICO's stringent standards of engineering and production.
- Completely professional in quality, performance, appearance, and long-term reliability.
- Backed 100% by the famous EICO Make-Good Guarantee.

**MODEL 30A4
\$19.95**

Complete
with batteries
and test leads

**LABORATORY
PRECISION AND
PROFESSIONAL
VERSATILITY —
A BEST BUY!**



One of the finest pocket portable instruments available anywhere - a best buy. This laboratory-type, wide-range multimeter has a mirror-back scale to eliminate reading parallax, $\pm 1\%$ temperature-stabilized resistors, and double-jewelled $\pm 2\%$ D'Arsonval meter movement protected against accidental overload by a pair of matched silicon diodes. For minimal circuit loading under testing conditions, this fine instrument has 30,000 Ω /volt DC and 10,000 Ω /volt AC characteristics, and comes in a handsome, custom-molded, high-impact plastic case. Also featured is a separate input for measuring AC voltages in the presence of DC. Truly a pocket laboratory instrument.

DC VOLTAGE: 0 - 0.6, 3, 12, 60, 300, 600, 1200, 3000 volts
AC VOLTAGE: 0 - 6, 30, 120, 600, and 1200 volts
DC CURRENT: 0 - 30 μ A, 60 mA, and 600 mA
RESISTANCE: X1 X100 X1K X10K
DECIBELS: -20 to +63 in 5 ranges
SENSITIVITY: 30,000 ohms/volt DC; 10,000 Ω ohms/volt AC
SIZE: 5-7/8H x 3-3/16W x 1-11/16D

**MODEL 30A3
\$15.95**

Complete
with batteries
and test leads

**PROFESSIONAL
VERSATILITY—AND
MORE PRECISION.**



When measurements must be precise and give minimal loading to the circuits being measured, you can depend on this palm-sized instrument. It has all the professional features of a fine high-priced multimeter including anti-parallax mirror-back scale, double-jewelled $\pm 2\%$ D'Arsonval meter, $\pm 1\%$ temperature-compensated precision film resistors, and 30,000 Ω /volt DC and 14,000 Ω /volt AC characteristics. The meter is protected from accidental burnout by a dual silicon diode overload protection circuit. High-impact molded case.

DC VOLTAGE: 0 - 0.6, 3, 12, 60, 300, 1200 volts
AC VOLTAGE: 0 - 12, 60, 300, 1200 volts
DC CURRENT: 0 - 60 μ A, 12 mA, 300 mA
RESISTANCE: X1 X100 X1000
DECIBELS: -10 to 23 (good to 7 KC)
ACCURACY: 2% Meter movement
SENSITIVITY: 30,000 ohms/volt DC; 14,000 ohms/volt AC
SIZE: 5-1/8H x 3-3/8W x 1-3/8D



**MODEL 20A3
\$12.95**

Complete
with batteries
and test leads

**PROFESSIONAL
VERSATILITY AND
LOW LOADING TOO.**

When your measurements must not appreciably disturb the circuits under test, here's a great buy. This modestly priced, high-precision, pocket portable instrument packs 16 different types of measurements in its custom-molded high impact case. Having 20,000 Ω /volt DC and 10,000 Ω /volt AC characteristics, it is ideally practical for general, though accurate, service. The easy-to-read meter features a rugged double-jewelled D'Arsonval movement made especially for us.

DC VOLTAGE: 0 - 0.25, 2.5, 10, 50, 250, and 1000 volts
AC VOLTAGE: 0 - 10, 50, 250, 500, and 1000 volts
DC CURRENT: 0 - 50 μ A, 25 mA, 250 mA
RESISTANCE: 0 - 7000 ohms, 700 k Ω , and 7 megohms
DECIBELS: -10 to +36 dB
ACCURACY: 2% Meter movement
SENSITIVITY: 20,000 ohms/volt DC; 10,000 ohms/volt AC
SIZE: 5-1/8H x 3-3/8W x 1-3/4D



**MODEL 4A3
\$9.95**

Complete
with batteries
and test leads

**PROFESSIONAL
VERSATILITY PLUS.**

This miniature $\pm 3\%$ accurate pocket portable is a small but versatile general utility instrument. The wide-visibility meter can be easily read in all 15 ranges. Excellent for repair and service work on both electrical appliances and radios in shop or home. Its high-impact plastic case enables it to take normal service wear in stride.

DC VOLTAGE: 0 - 10, 50, 250, 1000 volts
AC VOLTAGE: 0 - 10, 50, 250, 500, 1000 volts
DC CURRENT: 0 - 250 μ A, 10 mA, 250 mA
RESISTANCE: 0 - 10 k Ω and 1 megohm
DECIBELS: -20 to +36 dB
ACCURACY: 2% Meter movement
SENSITIVITY: 4000 ohms/volt DC; 2000 ohms/volt AC
SIZE: 4-3/4H x 3-7/16W x 1-9/16D



**MODEL 1A1
\$5.95**

Complete
with batteries
and test leads

**PROFESSIONAL
VERSATILITY IN A
NUTSHELL.**

Here's the go-everywhere lightweight, shirt-pocket instrument for the busy technician/hobbyist. Its rugged double-jewelled D'Arsonval meter and $\pm 1\%$ tolerance stabilized resistors are cushioned in a high-impact plastic case. With its eight types of measurements and professional performance, it packs a lot of versatility in a convenient midget size.

DC VOLTAGE: 0 - 15, 150, 1000 volts
AC VOLTAGE: 0 - 15, 150, 1000 volts
DC CURRENT: 0 - 150 mA
RESISTANCE: 0 - 100,000 ohms
ACCURACY: 2% Meter movement
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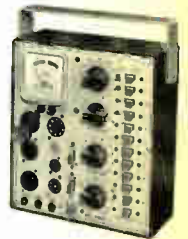
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