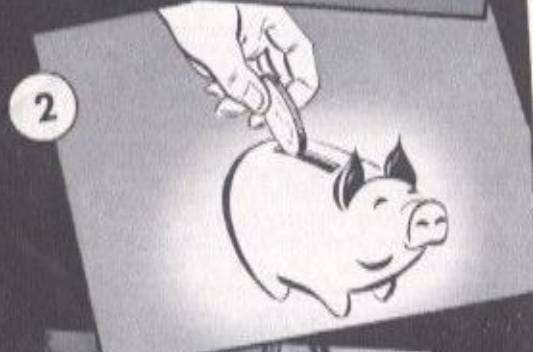
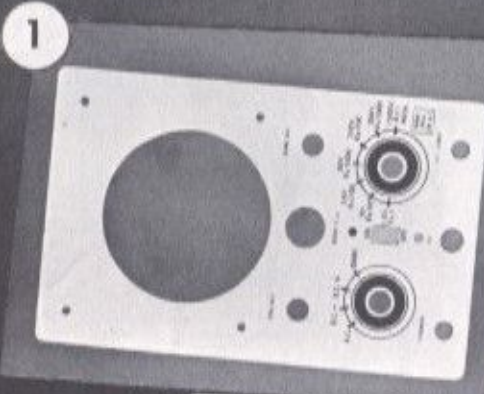
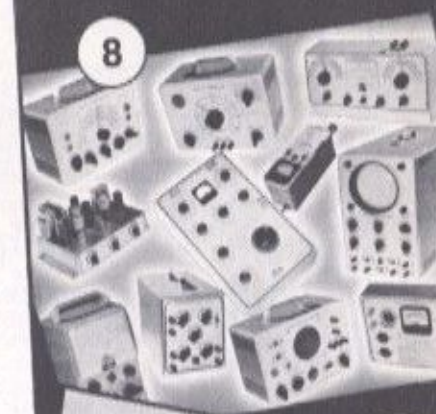


Check these ADVANTAGES FOUND Only in HEATHKITS



- ✓ **1. Baked Enamel Lifetime Finish Panels** — Oven baked finishes for maximum durability and freedom from marks, scratches and discoloration. Panels that can really take service shop and laboratory abuse.
- ✓ **2. Save Money** — You save all expensive factory wiring costs when you build your own. And, direct factory to customer sales eliminate all middle man profits. You can have a complete Heathkit laboratory or service shop for what one or two pieces of ready built equipment cost.
- ✓ **3. Modern Styling** — New "fitted panels" and formed cabinets with rounded corners present a smart, professional appearance. Dignified appearance for prestige.
- ✓ **4. Quality Components Used Throughout** — Heathkits use well known, time and quality tested components such as Simpson, Chicago Transformer, Wilkor, Allen-Bradley, Altec-Lansing, Centralab, Cinch, Oak, Grigsby-Allison, Mallory and many others.
- ✓ **5. Extensive Factory Facilities** — Shearing, punching, forming, spot welding, etc. is done right in our own plant — controlled production for highest quality and less cost to you.
- ✓ **6. Extensive and careful engineering** — A staff of engineers working in a modern, well equipped laboratory carefully develop Heathkits according to highest engineering practices. Your assurance of accurate, up to the minute instruments.
- ✓ **7. Complete Kits** — All the parts are right in the kit — you get all tubes, controls, transformers, meters — everything — no other components to buy. And no cutting, punching, or painting necessary — it's all done for you. Heathkits go together easily and smoothly.
- ✓ **8. Only Complete Line** — Over 30 Kits available — Heathkits form the only complete line of kit-form test equipment on the market. Kits for hams, engineers, service men, schools and audio enthusiasts.
- ✓ **9. Detailed, Complete Instruction Manuals** — Comprehensive manuals tell you exactly how to build your Heathkit. Manuals contain easy-to-follow instructions, clear, large pictorials, schematic, detail drawings, etc. They make construction easy, fun, and educational.



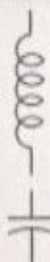
NEW Heathkit "Q" METER KIT

• A HIGH QUALITY Q METER AT LOW COST.

MODEL QM-1

SHIPPING
WT. 12 LBS.

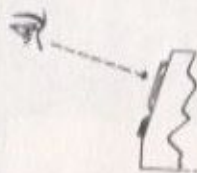
\$39.50



Measures Q and inductance of coils.



Measures Q and capacity of capacitors.



Slant face cabinet for ease in reading the meter.



• First Q METER within the price range of all.

• Read Q's of 0-500 directly on calibrated scale.

• Stable oscillator supplies R.F. frequencies of 150 kc to 18 megacycles.

• Calibrated capacitor with range of 40 mmf to 450 mmf with vernier of ± 3 mmf.

• Simple, easy operation.

• Can be used to measure small inductances or capacitors.

• Measures Q of condensers, RF resistance and distributed capacity of coils.

• Measures capacity by substitution, capacity by resonance, inductance by resonance.

• Slanted panel for convenient operation.

Another outstanding example of progressive HEATHKIT engineering. Now a highly desirable Q METER within the price range of all laboratories, schools and experimenters. No longer is it necessary to deny yourself the many measurement advantages offered by this instrument.

Use the new HEATHKIT Q METER for the following simple basic measurements: capacity by substitution, capacity by resonance, inductance by resonance and Q at the OPERATING frequency all can be read on the calibrated scales. The method used to obtain information regarding the Q of condensers, RF resistance, distributed capacity in coils, etc., is only slightly more involved. In the HEATHKIT Q METER, the generated RF signal is coupled through a cathode follower and injected across a low impedance condenser which is included in the resonant circuit under test. Large $4\frac{1}{2}$ " 50 microampere Simpson meter reads Q directly. The resonating condenser and vernier condenser are calibrated in mmf for substitution method capacity tests. The resonating condenser is also calibrated in effective capacity for resonance tests. The inductance calibration serves for rapid determination of the approximate inductance of a coil. The HEATHKIT Q METER has a generator frequency range of 150 kc to 18 megacycles. Vernier capacity covers ± 3 mmf and the resonating condenser is calibrated from 40 mmf to 450 mmf actual capacity or 40 mmf to 350 mmf effective capacity. Meter reads Q directly up to 250. Higher and lower full scale readings can be obtained by varying the injection voltage levels.

The entire kit consists of 12AT7, 6AL5, 6C4, OD3 and 6X5 tubes 50 microampere Simpson meter, power transformer, cabinet and all other parts necessary for construction as well as instructions for assembling, testing and operation of the completed instrument.

Heathkit DECADE RESISTANCE KIT

The HEATHKIT DECADE RESISTANCE KIT is widely used by schools, experimenters and laboratories because of the extremely wide resistance range offered and the useful, dependable service provided. The DECADE consists of 5 rotary 2-deck ceramic wafer switches with silver plated contacts and twenty 1% precision resistors in a circuit which provides the resistance range of 1 ohm to 99,999 ohms in 1 ohm steps. The HEATHKIT DECADE RESISTANCE KIT is simple to construct and is housed in a beautiful polished birch cabinet with an attractive panel. The DECADE will furnish years of accurate trouble-free service.

Individual decade sections of above can be purchased separately for special applications.



MODEL DR-1
SHIPPING
WT. 4 LBS.

\$19.50

NEW Heathkit DECADE CONDENSER KIT

Extremely useful in all experimental and design work such as determination of condenser values for: compensating networks, filters, bridge impedances, tuned circuits, etc. Uses all precision silver mica condensers within $\pm 1\%$ accuracy. Values run in three decades from 100 MMFD to 0.111 MFD in steps of 100 MMFD. Smooth acting, positive detent, highest quality ceramic wafer switches make all capacitor values easy to set up and keep losses to a minimum. Low loss dielectric terminal board mounts on outside of panel for easy cleaning. Heathkit binding posts accommodate a wide variety of test leads. Comes complete with all parts, including polished birch cabinet.

Individual decade sections of above can be purchased separately.

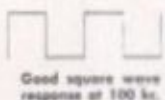
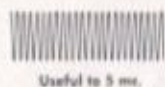


MODEL DC-1
SHIPPING
WT. 4 LBS.

\$16.50

NEW *Heathkit* OSCILLOSCOPE KIT

• NEW WIDE BAND VERTICAL AMPLIFIER ± 2 DB 10 CYCLES TO 1 MC.



MODEL O-8

SHIPPING
WT. 29 LBS.

\$43.50



- New wider band vertical amplifier: ± 2 db from 10 cycles to 1 megacycle useful to over 5 megacycles.

- High sensitivity in vertical amplifier. .025 volts RMS per inch deflection.

- New 3 step input attenuator input ranges X1, X10, X100.

- New SCP1 intensifier type tube for greater brilliance.

- Terminal board and rear cabinet opening provisions for direct connections to deflecting plates.

- Newly styled formed and ventilated aluminum cabinet.

- Wide band sweep generator, 15 cycles to over 100 kc. Will synchronize with 5 megacycle signal.

- 10 tube circuit featuring push pull operation of vertical and horizontal amplifiers.

- Internal synchronization on either positive or negative peaks.

- Reproduces faithfully the front and back porches of TV sync pulses. Excellent square wave reproduction to over 100 kc.

- Optional Intensifier kit available for 2200 volt operation.

Proudly announcing the new 1953 HEATHKIT Model O-8 OSCILLOSCOPE featuring the finest performance ever offered in this extremely popular kit instrument. Improved wider band vertical amplifier featuring a new 3-step input attenuator affording smooth control of the excellent .025 volts per inch vertical sensitivity. Possibility of overloading the vertical input circuit is minimized. Greater band width in the vertical channel is a decided advantage to TV service men. Permits clear observation of all TV sync pulse detail and excellent square wave reproduction over 100 kc. SCP1 intensifier type CR tube provides a brilliant trace with normal accelerating voltages. A handsome, ventilated cabinet with smooth rounded corners and a snug fitting drawn panel adds to the smartly styled professional appearance. Longer life is assured through cooler instrument operation. Push pull output stages in both vertical and horizontal amplifiers for balanced deflection of the spot. All of the many fine features of the previous model have been retained. Rear cabinet access to terminal board for direct connection to CR plates. The entire kit of all 10 tubes, parts, cabinet and panel as well as detailed construction manual for assembly and operation of the instrument included.

INTENSIFIER KIT: For extreme trace brilliance in special applications such as photography, group demonstrations or operation in brightly lighted areas an optional Intensifier kit providing 2200 volt operation of the CR tube is available. Kit includes high voltage filter condenser, high voltage selenium rectifier, etc. \$7.50.

Heathkit SCOPE DEMODULATOR PROBE KIT



Trouble shooting or aligning TV, RF, IF and video stages requires demodulation of high frequency signals before Oscilloscope observation. The HEATHKIT SCOPE DEMODULATOR PROBE KIT was specifically developed for this application. Kit consists of a probe housing, crystal diode detector circuit, shielded cable and spade lugs. Assembly is simple and the probe will quickly prove its usefulness as an Oscilloscope accessory.

No. 337
SHIP. WT. 1 LB.
\$4.50

NEW *Heathkit* VOLTAGE CALIBRATOR KIT



MODEL VC-1
SHIPPING
WT. 5 LBS. **\$9.50**

Use the Heathkit Voltage Calibrator with your oscilloscope to measure peak-to-peak TV complex waveshapes. TV manufacturer's specifications indicate correct peak-to-peak voltages and this kit will permit making these important measurements.

A big help to engineers in circuit work. Makes peak-to-peak voltage measurements of complex waveshapes of all kinds. Flat topped semi-square wave output of calibrator assures fast and easy measurement of any voltage between .01 and 100V peak-to-peak.

The Voltage Calibrator can remain connected to your oscilloscope at all times for instant use. "Signal" position connects signal under study directly through calibrator and into scope input circuit for direct observation. Eliminates transferring leads from calibrator. A wonderful scope accessory.

Heathkit ELECTRONIC SWITCH KIT

A few dollars spent for this accessory will increase the usefulness of a scope immeasurably. An electronic switch will open up a whole new field of scope applications for you. The S-2 allows TWO SIGNALS to be observed at the SAME TIME—this important feature allows you to immediately spot phase shift, clipping, distortion, etc. The two signals under observation can be superimposed or separated for individual study. Each signal input has an individual gain control for properly adjusting scope trace patterns. Has both coarse and fine frequency controls for adjusting switching time. Multivibrator switching frequency is from less than 10 cps to over 2000 cps in three overlapping ranges. Kit comes complete including 5 tubes, power transformer, all controls, instruction manual, etc. Every scope owner should have one!



MODEL S-2
SHIPPING
WT. 11 LBS.

\$19.50

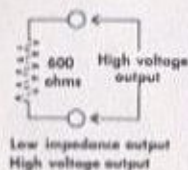
NEW
Heathkit

AUDIO GENERATOR KIT

• RANGE EXTENDED TO 1 MEGACYCLE.

MODEL AG-8

SHIPPING
WT. 16 LBS.



Low impedance output
High voltage output



Sine wave output
from 20 cycles to 1
megacycle.

\$29.50



• Improved design — new low price.

• Frequency coverage in five ranges from 20 cycles per second to 1 megacycle.

• Response flat 1 DB from 20 cycles to 400 kilocycles. Down 3 DB at 600 kilocycles. Down only 8 DB at 1 megacycle.

• Five calibrated output voltage ranges, continuously variable 1 mv, 10 mv, 100 mv, 1 v, 10 v.

• Low impedance output circuit, 600 ohms.

• Distortion less than .4 of 1% from 100 cycles per second through the audible range.

• New HEATHKIT universal type binding posts.

• Durable infra-red baked enamel panel.

• Transformer operated for safe operation.

• Sturdy, ventilated steel cabinet.

A new Audio Generator with features heretofore found in only the most expensive generators. Such features as complete coverage from 20 cycles to 1 Mc — response flat ± 1 db from 20 cycles to 400 Kc, down 3 db at 600 Kc and down only 8 db at 1 Mc.

And it has calibrated output . . . Calibrated continuously variable and step attenuator output controls allow you to easily set calibrated output voltage. Moreover, distortion is less than .4 of 1% from 100 cps through the audible range.

Oscillator section consists of a two stage resistance coupled amplifier (6SJ7 and 6AK6) utilizing both positive and negative feedback for oscillator operation and reduction of distortion. Oscillator section drives a cathode follower output power amplifier (6AK6) which isolates the oscillator from variations in load and presents a low impedance output (600 Ohms). Power supply is transformer operated and utilizes 6X5 rectifier with 2 sections of RC filtering.

An unbeatable dollar value — for here is an audio generator with wide frequency coverage, excellent frequency response, stepped and continuously variable calibrated output, high signal level, low impedance output, and low inherent distortion.

Heathkit AUDIO FREQUENCY METER KIT



MODEL AF-1

SHIPPING
WT. 15 LBS.

\$34.50

The HEATHKIT AUDIO FREQUENCY METER provides a simple and easy way to check unknown audio frequencies from 10 cycles to 100 kc between 5 and 300 volts RMS. The instrument features 7 ranges for accuracy and wide coverage.

The meter itself has a quality 200 microampere Simpson movement and large clearly marked scales. The AUDIO FREQUENCY METER is transformer operated and features

a voltage regulator tube to maintain constant plate voltage on the second stage. Kit supplied complete with all necessary construction material and a detailed construction manual.

NEW Heathkit AUDIO OSCILLATOR KIT



MODEL AO-1
SHIPPING
WT. 14 LBS.

\$24.50

A new Audio Oscillator with both sine and square wave coverage from 20 to 20,000 cycles . . . An instrument designed to completely fulfill the needs of the audio engineer and enthusiast — Has numerous advantages such as high level output (up to 10V obtainable across the entire range), distortion less than .6%, and low impedance output.

Special design features include the use of a thermistor in the second amplifier stage for keeping the output essentially flat across the entire range.

A cathode coupled clipper circuit produces good, clean, square waves with rise time of only 2 microseconds. Oscillator section uses 1% precision resistors in range multiplier circuit for greatest accuracy.

You'll like the operation of this fine new kit.

Heathkit SQUARE WAVE GENERATOR KIT



MODEL SQ-1
SHIPPING
WT. 14 LBS.

\$29.50

The HEATHKIT SQUARE WAVE GENERATOR is an excellent square wave frequency source with wide range coverage from 10 cycles to 100 kc continuously variable.

This feature makes it useful for TV and wide band amplifier work as well as audio experimentation. The output voltage is continuously variable between 0 and 20 volts. The circuitry consists of a multivibrator stage, a clipping and squaring stage and a cathode follower low impedance output stage. The power supply is transformer operated and utilizes a full wave rectifier circuit with two sections of filtering. Another excellent HEATHKIT value at this remarkable low price. Kit includes all necessary construction material as well as complete instruction manual for assembly and operation.

ORDER BLANK

To **HEATH COMPANY**
BENTON HARBOR,
MICHIGAN

From _____

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- Parcel Post
 Express
 Freight
 Best Way

(PLEASE PRINT)

Quantity	Item and Shipping Wt.	Price	Quantity	Item and Shipping Wt.	Price
	Heathkit Oscilloscope Kit—Model O-8 (29 lbs.)	\$43.30		Heathkit Square Wave Gen. Kit—Model SQ-1 (14 lbs.)	\$29.50
	Heathkit Intensifier Kit (O-8 only) No. 329 (1 lb.)	7.50		Heathkit AC VTVM Kit—Model AV-2 (5 lbs.)	29.50
	Heathkit Voltage Calibrator Kit—Model VC-1 (5 lbs.)	9.50		Heathkit Intermodulation Analyzer Kit—Model IM-1 (18 lbs.)	39.50
	Heathkit Electronic Switch Kit—Model S-2 (11 lbs.)	19.50		Heathkit Regulated Power Supply Kit—Model PS-2 (20 lbs.)	29.50
	Heathkit Scope Demodulator Probe Kit No. 337 (1 lb.)	4.50		Heathkit Handitester Kit—Model M-1 (3 lbs.)	13.50
	Heathkit T.V. Alignment Generator Kit—Model TS-2 (20 lbs.)	39.50		Heathkit Decade Resistance Kit—Model DR-1 (4 lbs.)	19.50
	Heathkit Q Meter Kit—Model QM-1 (12 lbs.)	39.50		Heathkit Decade Condenser Kit—Model DC-1 (4 lbs.)	16.50
	Heathkit Grid Dip Meter Kit—Model GD-1 (4 lbs.)	19.50		Heathkit Impedance Bridge Kit—Model IB-1B (15 lbs.)	69.50
	Heathkit VTVM Kit—Model V-6 (7 lbs.)	24.50		Heathkit Battery Tester Kit—Model BT-1 (3 lbs.)	7.50
	Heathkit RF Probe Kit No. 309 (1 lb.)	5.50		Heathkit Resistance Substitution Box Kit—Model RS-1 (3 lbs.)	5.50
	Heathkit HV Probe Kit No. 336 (2 lbs.)	5.50		Heathkit F.M. Tuner Kit—Model FM-2 (9 lbs.)	22.50
	Heathkit Peak-to-Peak Volt. Probe Kit No. 338 (2 lbs.)	6.50		Heathkit Broadcast Receiver Kit—Model BR-1 (11 lbs.)	19.50
	Heathkit Visual-Aural Signal Tracer Kit—Model T-3 (8 lbs.)	22.50		Heathkit Three Band Receiver Kit—Model AR-1 (11 lbs.)	23.50
	Heathkit Condenser Checker Kit—Model C-3 (7 lbs.)	19.50		Heathkit Amplifier Kit—Model A-7 (10 lbs.)	14.50
	Heathkit RF Signal Generator Kit—Model SG-7 (7 lbs.)	19.50		Heathkit Amplifier Kit—Model A-7A (10 lbs.)	16.50
	Heathkit Tube Checker Kit—Model TC-1 (12 lbs.)	29.50		Heathkit Amplifier Kit—Model A-8 (19 lbs.)	33.50
	Heathkit T.V. Tube Adapter No. 355 (1 lb.)	4.50		Heathkit Amplifier Kit—Model A-8A (19 lbs.)	35.50
	Heathkit Battery Eliminator Kit—Model BE-3 (20 lbs.)	24.50		WA-A1 Amplifier Kit—Comb. 1 (incl. main amplifier, power supply and WA-P1 preamplifier) (39 lbs.) Shipped express only.	69.50
	Heathkit Vibrator Tester Kit—Model VT-1 (7 lbs.)	14.50		WA-A1 Amplifier Kit—Comb. 4 (Main amp. and power supply) (29 lbs.) Shipped express only.	49.75
	Heathkit Audio Generator Kit—Model AG-8 (16 lbs.)	29.50		WA-P1 Preamplifier Kit (7 lbs.) (Shipped exp. or p.p.)	19.75
	Heathkit Audio Oscillator Kit—Model AO-1 (14 lbs.)	24.50			
	Heathkit Audio Frequency Meter Kit—Model AF-1 (15 lbs.)	34.50			

On Parcel Post Orders, include postage for weight shown and insurance. (We insure all shipments.)

On Express Orders, do not include transportation charges—they will be collected by the Express Agency at time of delivery.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Enclosed find Check Money Order for _____

Please ship C.O.D. Postage enclosed for _____ lbs.

*Orders from Canada must be accompanied by cash payment including postage.

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70 **HEATH COMPANY**
BENTON HARBOR,
MICHIGAN

From _____

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- Parcel Post
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Quantity	Item and Shipping Wt.	Price	Quantity	Item and Shipping Wt.	Price
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	Heathkit Intensifier Kit (O-8 only) No. 339 (1 lb.)	7.50		Heathkit AC VTVM Kit—Model AV-2 (5 lbs.)	29.50
	Heathkit Voltage Calibrator Kit—Model VC-1 (5 lbs.)	9.50		Heathkit Intermodulation Analyzer Kit—Model IM-1 (18 lbs.)	39.50
	Heathkit Electronic Switch Kit—Model S-2 (11 lbs.)	19.50		Heathkit Regulated Power Supply Kit—Model PS-2 (20 lbs.)	29.50
	Heathkit Scope Demodulator Probe Kit No. 337 (1 lb.)	4.50		Heathkit Handtester Kit—Model M-1 (3 lbs.)	13.50
	Heathkit T.V. Alignment Generator Kit—Model TS-2 (20 lbs.)	39.50		Heathkit Decode Resistance Kit—Model DR-1 (4 lbs.)	19.50
	Heathkit Q Meter Kit—Model QM-1 (12 lbs.)	39.50		Heathkit Decode Condenser Kit—Model DC-1 (4 lbs.)	16.50
	Heathkit Grid Dip Meter Kit—Model GD-1 (4 lbs.)	19.50		Heathkit Impedance Bridge Kit—Model IB-18 (15 lbs.)	69.50
	Heathkit VTVM Kit—Model V-6 (7 lbs.)	24.50		Heathkit Battery Tester Kit—Model BT-1 (3 lbs.)	7.50
	Heathkit RF Probe Kit No. 309 (1 lb.)	5.50		Heathkit Resistance Substitution Box Kit—Model RS-1 (3 lbs.)	5.50
	Heathkit HV Probe Kit No. 336 (2 lbs.)	5.50		Heathkit F.M. Tuner Kit—Model FM-2 (9 lbs.)	22.50
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	Heathkit Vibrator Tester Kit—Model VT-1 (7 lbs.)	14.50			
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	Heathkit Audio Frequency Meter Kit—Model AF-1 (15 lbs.)	34.50		WA-P1 Preamplifier Kit (7 lbs.) (Shipped exp. or p.p.)	19.75

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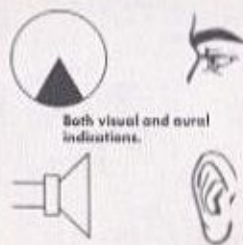
Enclosed find Check Money Order for _____

Please ship C.O.D. Postage enclosed for _____ lbs.

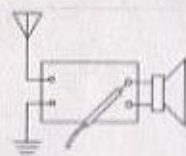
*Orders from Canada must be accompanied by cash payment including postage.

NEW *Heathkit* SIGNAL TRACER KIT

• NEW NOISE LOCATOR AND WATTMETER CIRCUITS.



Both visual and aural indications.



Traces signals from antenna clear through speaker.

MODEL T-3

SHIPPING
WT. 8 LBS.

\$22⁵⁰



- Permits visual signal observation as well as aural operation.
- Two separate input channels.
- Tremendous RF channel sensitivity. Adequate for actual signal detection at receiver input.
- Separate high gain RF and low gain audio channels.
- A unique and useful noise locator circuit.
- Built-in calibrated wattmeter.
- Two separate shielded probes for RF and audio application.
- Additional test leads supplied.
- Substitution test speaker and output transformer eliminates necessity for speaker removal in service work.
- Utility amplifier. Check record changers, tuners, microphones, instrument pickups, etc.
- VTVM and Scope panel terminals.
- 5 tube transformer operated circuit.

The new HEATHKIT VISUAL AURAL

SIGNAL TRACER represents one of the most convenient and useful instruments the

service man can use in AM, FM and TV service work. The electron ray beam indicator constantly monitors both

input channels for visual observation of the signal. Now, see and hear the signal level for easier estimation of signal strength and gain per stage

in a receiver circuit. Separate high gain channel and special shielded demodulator probe for RF circuit work. Low gain channel for audio circuit investigation and for use

as a noise locator. In this feature, approximately 200 volts DC is applied to a suspected circuit component

and the action of the voltage in the component can be seen and heard to determine satisfactory operation. This feature alone will prove tremendously helpful in locating the source of objectionable noises

in coils, transformers, resistors, condensers, cold solder joints, controls, etc. A convenient wattmeter permits rapid preliminary check for voltage distribution circuit breakdown as well as transformer failures.

Use the T-3 as a universal test speaker and substitution transformer and save service time by eliminating the necessity for speaker removal on every service call. Additional service uses are as a utility amplifier for checking the output of record changers, tuners, microphones, instrument pickups, etc. Separate panel terminals permit utilization of other shop equipment such as your Oscilloscope or VTVM. Entire kit supplied complete with 5 tubes, all necessary construction material along with a detailed step by step instruction manual for the assembly and operation of the instrument.

NEW *Heathkit* CONDENSER CHECKER KIT



MODEL C-3
SHIPPING
WT. 7 LBS.

\$19⁵⁰

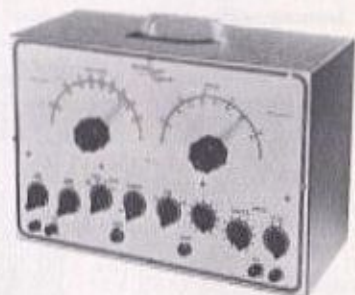
Announcing the new improved Model C-3 HEATHKIT CONDENSER housed in a new smartly styled professional appearing cabinet featuring rounded corners and snug fitting drawn panel. Adequate provisions for ventilation insures longer instrument life through cooler operation. Use the C-3 to

accurately measure those unknown condenser and resistor values. All readings of condensers and resistors are read directly on the calibrated scales. Range of condenser measurements is from .00001 mfd to 1000 mfd. Calibrated resistance measurements can be made from 100 ohms to 5 megohms. A leakage test with a choice of 5 DC polarizing voltages will quickly indicate condenser operating quality under actual voltage load conditions. The spring return leakage test switch automatically discharges the condenser under test and eliminates shock hazard. An electron ray beam indicator tube is used in a new leakage test circuit for added sensitivity. The instrument is transformer operated for safety and will prove an extremely welcome addition to your shop equipment. The kit is furnished complete with all necessary parts, test leads and includes a step by step detailed construction manual for assembly and operation.

Heathkit TV ALIGNMENT GENERATOR KIT

MODEL TS-2
SHIPPING
WT. 20 LBS.

\$39⁵⁰



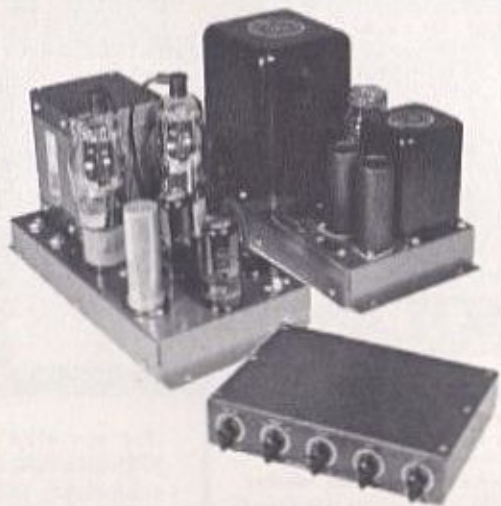
Here is an excellent TV ALIGNMENT GENERATOR designed to do TV service work quickly, easily and properly. The Model TS-2 when used in conjunction with an Oscilloscope provides a means of correct-

ly aligning TV receivers. The instrument furnishes a frequency modulated signal covering in 2 bands the range of 10 to 90 megacycles and 150 to 230 megacycles. An absorption type frequency marker covers from 20 to 75 megacycles in 2 ranges; therefore you have a simple, convenient means of checking IF's independent of oscillator calibration. Sweep width is variable from 0 to 12 megacycles. Other excellent features are horizontal sweep voltage controlled with a phasing control — both step and continuously variable attenuation for setting the output signal to the desired level — a convenient stand by switch — and blanking for establishing a single trace with a base reference level. Make your work easier, save time and repair with confidence. Order your HEATHKIT TV ALIGNMENT GENERATOR now.

Heathkit WILLIAMSON TYPE AMPLIFIER KIT

The HEATHKIT WILLIAMSON TYPE AMPLIFIER performance has been verified on the basis of critical listening tests and laboratory measurements by both music lovers and audio experts. Use this outstanding amplifier as the heart of your audio system for the fine musical reproduction that is the goal of every audio enthusiast. A new Peerless output transformer with additional primary taps permits ultra linear type circuitry, affording a peak power output of well over 20 watts. Quality of reproduction is instantly apparent and measurements actually bear out the superb performance. Frequency response ± 1 DB from 10 cycles to 100 kc allows reproduction of the highs and lows with equal crispness and clarity. Harmonic and intermodulation distortion both less than $\frac{1}{2}$ of 1% at 5 watts eliminate the harsh unpleasant qualities which contribute to listening fatigue.

The HEATHKIT PREAMPLIFIER (available separately or in combination with the amplifier kit) features inputs for magnetic or low level cartridges, crystal pickups and tuners, turnover control for LP or 78 type records, individual bass and treble tone controls each providing up to 15 DB of boost or attenuation. Special notched shafts on preamplifier controls and switches adaptable to custom installation. The preamplifier can be mounted in any position and a liberal length of connecting cable is supplied. No radio experience is required to construct this amplifier. All punching, forming or drilling has already been done. The complete kit includes all necessary parts as well as a detailed step by step construction manual with pictorial diagrams to greatly simplify the construction.



Heathkit FM TUNER KIT



MODEL FM-2
SHIPPING
WT. 9 LBS.

\$22.50

The HEATHKIT MODEL FM-2 TUNER specifically designed for simplified kit construction features a preassembled and adjusted tuning unit. Three double tuned IF transformers and a discriminator transformer are used in an 8 tube circuit. Smooth tuning is obtained through a 9 to 1 ratio vernier drive using a calibrated six inch slide rule type dial. The usual frequency coverage of 88 to 108 megacycles is provided. Experience the thrill of building your own FM tuner. Operate it through your amplifier or radio and enjoy all the advantages of true FM reception. Transformer operated power supply to simplify connections to all types of audio systems. The kit is supplied complete with all 8 tubes and necessary material required for construction. A complete instruction manual simplifies assembly and operation.

PRICES OF VARIOUS COMBINATIONS

WA-A1 Amplifier kit — Combination 1 — (Main amplifier and Power Supply) complete with WA-P1 Preamplifier kit.

Total Shipping Weight 39 lbs. (Shipped Express only)

\$69.50

WA-A1 Amplifier kit only — Combination 4 — (Main Amplifier and Power Supply). Less WA-P1 Preamplifier.

Total Shipping Weight 29 lbs. (Shipped Express only) Price

\$49.75

WA-P1 Preamplifier kit only. (less power supply) Tubes included.

Total Shipping Weight 7 lbs. (Shipped Exp. or P.P.) Price

\$19.75

PLEASE BE SURE TO STATE COMBINATION NUMBER WHEN ORDERING.

Heathkit ECONOMY 6 WATT AMPLIFIER KIT



MODEL A-7
SHIPPING
WT. 10 LBS.

\$14.50

The HEATHKIT Model A-7 amplifier features beam power, push pull output with frequency response flat $\pm 1\frac{1}{2}$ DB from 20 to 20,000 cycles. Separate volume, bass and treble controls. Two input circuits, output impedances of 4, 8, and 15 ohms. Peak power output rated at full 6 watts. High quality components, simplified layout, attractive gray finished chassis, break off type adjustable length control shafts and attractive lettered control panel.

THE MODEL A7A amplifier incorporates a preamplifier stage with special compensated network to provide the necessary voltage gain for operation with variable reluctance or low output level phono cartridges. Excellent gain for microphone operation in a moderate powered sound system. **\$16.50**

Heathkit HIGH FIDELITY 20 WATT AMPLIFIER KIT

The HEATHKIT MODEL A-8 amplifier kit was designed to deliver high fidelity performance with adequate power output at moderate cost. The frequency response is within ± 1 DB from 20 to 20,000 cycles. Distortion at 3 DB below maximum power output at 1000 cycles is only .8%. The amplifier features a Chicago power transformer in a drawn steel case and a Peerless output transformer with output impedances of 4, 8, and 16 ohms available. Separate bass and treble tone controls permit wide range of tonal adjustment to meet the requirements of the most discerning listener. The amplifier uses a 6SJ7 voltage amplifier, a 6SN7 amplifier and phase splitter and two 6L6's in push pull output and a 5U4G rectifier. Two input jacks for either crystal or tuner operation. The kit includes all necessary material as well as a detailed step by step construction manual.

MODEL A8-A features an added 6SJ7 stage (preamplifier) for operating from a variable reluctance cartridge or other low output level phono pickups. Can also be used with a microphone. A 3 position panel switch affords the desired input service. **\$35.50**



MODEL A-8
SHIPPING WT. 19 LBS.

\$33.50

Heathkit SUPERHETERODYNE RECEIVER KITS

- High gain dual iron core tuned type IF transformers
- AC transformer operation for safety
- Continuously variable tone control
- Sturdy punched and plated steel chassis
- Ideal for custom installation
- Full AVC action
- Inverse feedback for improved frequency response
- Kit supplied with all necessary construction material except speaker and cabinet. (Available separately if desired).

5 tube broadcast band
550 to 1600 kc coverage,
shipping wt. 11 lbs.

Model BR-1
\$19.50



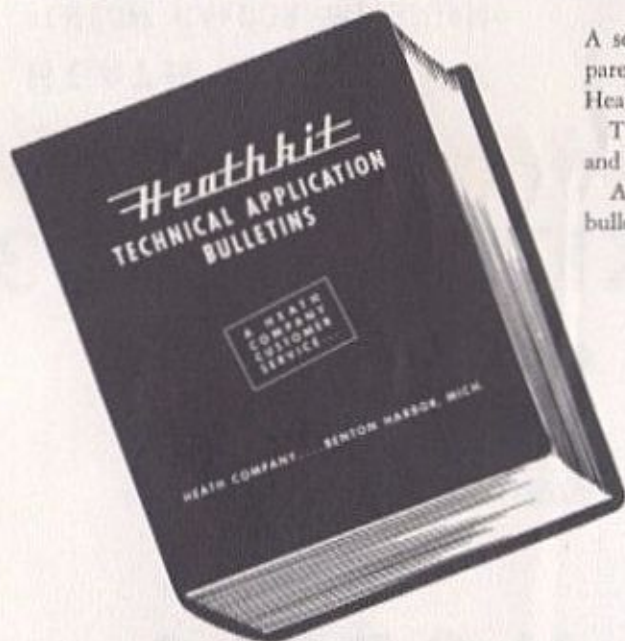
6 tube all wave circuit,
3 ranges, continuous coverage
550 kc to over 20
megacycles, shipping wt.
11 lbs.

Model AR-1
\$23.50



Two excellent radio receiver kits featuring clean design and open layout for simplified construction. Satisfy that urge to build your own radio receiver and select the model which meets your requirements. Both receivers feature continuously variable tone control, a radio phono switch and phono input and an AC receptacle for the phono motor. A six inch calibrated slide rule type dial with a 9 to 1 ratio vernier dial drive insures easy tuning.

New HEATHKIT TECHNICAL APPLICATION BULLETINS



A series of "Heathkit Technical Application Bulletins" has been prepared to fill the need for all who wish to get the most from their Heathkits—both as to newest applications and regular everyday uses.

Three well known technical authors, Glen Southworth, Lewis Garner, and Lawrence Fleming have written them.

A good quality loose leaf binder is provided and contains the first 20 bulletins with space for additional bulletins to be published in the future. Of the current bulletins, five are devoted to the Oscilloscope, four to the RF Signal Generator, plus bulletins on the Voltage Calibrator, Square Wave Generator, Intermodulation Analyzer, etc.

These bulletins, which are offered as a service to Heathkit owners, are four pages long and include such things as test setups, scope traces, methods of testing with results to be expected, interesting experiments and the like.

The price of the binder and 20 bulletins is \$2.00, postage prepaid—please, no COD orders. Future bulletins will be announced in the FLYER.

HEATH COMPANY WILL MOVE INTO NEW FACTORY THIS FALL

A new factory which doubles our current space will soon be ready for occupancy. At the formal opening, we would like to display letters from our customers telling about the part Heathkits play in their teaching or business. If you have a comment, how about sending it along? Thanks.





R. PERRIN
231 WOODLAND AVE.
RUTHERFORD, N.J.

52A



HEATH COMPANY
BENTON HARBOR, MICHIGAN

9 *New* HEATHKITS FOR 1953

- Q Meter Kit
- Voltage Calibrator Kit
- Grid Dip Meter Kit
- Vibrator Tester Kit
- Audio Generator Kit
- Audio Oscillator Kit
- Decade Condenser Kit
- Battery Tester Kit
- Resistance Substitution Box Kit

Plus ... NEW MODELS ...

- Oscilloscope Kit
- VTVM Kit
- Visual-Aural Signal Tracer Kit
- Condenser Checker Kit

and NEW PROBE KITS ...

- Scope Demodulator Probe Kit
- Peak-To-Peak Voltage Probe Kit