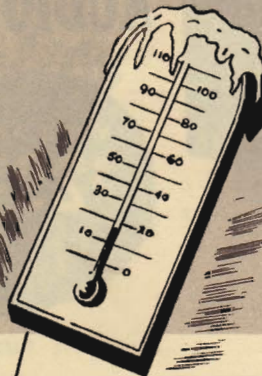


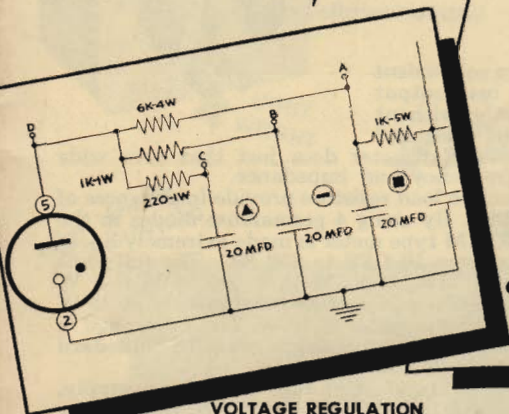
HEATH

Winter FLYER

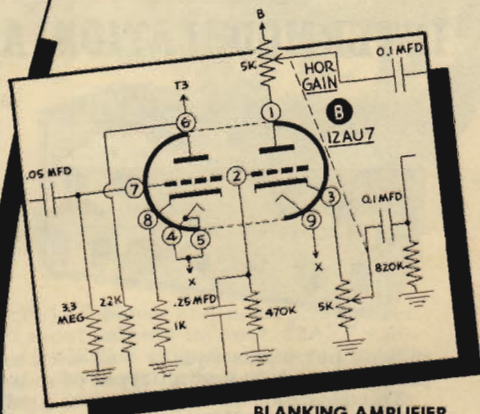


A Real Guarantee

No loopholes. Your satisfaction is our reputation. The success of the Heath Company is built on good, friendly customer relationship. We intend to keep it that way. This, in addition to the usual "no red tape" warranty on each part in every kit.



VOLTAGE REGULATION



BLANKING AMPLIFIER

Heathkit 0-9 OSCILLOSCOPE KIT

SETS NEW *Standards* FOR PERFORMANCE



ONLY kit oscilloscope supplied with the new RCA 5U1 CRT.

ONLY kit oscilloscope using the new harness type wiring for a neat, professional appearance.

ONLY kit oscilloscope equipped with voltage regulation to eliminate trace bounce.

MODEL 0-9

\$59.50

Ship. Wgt.
28 lbs.

NO OTHER kit oscilloscope will reproduce a 500 KC square wave thus.

NO OTHER kit oscilloscope will give the finely focused trace of the Heathkit 0-9.

CHECK the price (approx. \$20.00) of the RCA 5U1. This leaves \$39.50 actual cost for a high quality 10 tube oscilloscope kit.

DESIGN:

Important engineering advances have made the Heathkit Model 0-9 Oscilloscope the leader in its field. Voltage regulation, retrace blanking, phase control, extended bandwidth, peak-to-peak calibration and many other features make Model 0-9 comparable to commercially built scopes selling for as much as \$400.

COMPONENTS:

Keeping with the new RCA 5U1 CRT, top quality parts are used throughout. They include a heavy duty power transformer, long

lasting controls and switches and a first-class tube line-up: 6AB4, 12AU7, OD3, 6C4, (4) 12AT7 and (2) 5Y3 GT.

APPLICATIONS:

Investigation of recurring electrical phenomena of all kinds encountered in service and laboratory work. Measure and compare phase relationships and frequencies. Check effects of integration, differentiation, power and filter circuits. An excellent demonstration device or work project for schools. Many other practical uses will become evident with this, the most versatile of test instruments.

SPECIFICATIONS:

Vertical: Freq. Response..... ± 2 db 10 CPS to 2 MC
 ± 6 db 5 CPS to 3 MC
Sensitivity..... 0.025 v per inch at 1 KC
Input Impedance..... 47 MMF shunting 2 megohm
 X1 position,
 35 MMF shunting 2 megohm
 X10-100 positions.
Horizontal: Freq. Response..... ± 6 db 10 CPS to 500 KC
Sensitivity..... 0.6 v per inch at 1 KC
Input Impedance..... 25 MMF shunting 1 megohm
Sweep Generator..... Multivibrator range
 10-50,000 CPS

RETRACE BLANKING AMPLIFIER—Z AXIS INPUT

Get acquainted with your audio amplifiers, speakers, microphones, pickups and other audio devices. The final test is in the listening pleasure that each provides but it is interesting and beneficial to be able to test them electrically when the need arises. The instruments on this page will be of particular help to you when working with such audio circuits.

Heathkit

AUDIO WATTMETER KIT

MODEL AW-1

\$29⁵⁰

Ship. Wgt.
6 lbs.



What could be more convenient than to be able to read output power levels directly without using external load resistors? The Heathkit Audio Wattmeter does just that over wide ranges of power, frequency and impedance.

Built-in non-inductive load resistors provide impedances of 4, 8, 16 and 600 ohms. By using 4 germanium diodes in the meter bridge, the VTVM type meter is made extremely linear with a flat response from 10 CPS to 250 KC. The full scale power ranges are 0-5 MW, 0-50 MW, 0-500 MW, 0-5 W and 0-50 W. Model AW-1 will operate continuously at 25 W and has a duty cycle of 3 minutes at 50 W. Total db range in 5 switch positions is -15 db to +48 db using the standard 1 MW-600 ohms.

Other features are a transformer operated power supply, precision multiplier resistors, 12AU7 voltage-current amplifier for the meter, calibration control and well ventilated cabinet. Use the Heathkit Audio Wattmeter in your hobby or service shop and run those power curves with complete confidence.

Heathkit

INTERMODULATION ANALYZER KIT

MODEL IM-1 **\$39⁵⁰**
Ship. Wgt.
17 lbs.



Strictly an audio test instrument Model IM-1 will indicate clearly the degree of interaction between two signals at any point in an audio system. It is primarily associated with am-

plifiers, but works equally well with microphones, records, tapes, pickups, speakers and all types of recording devices.

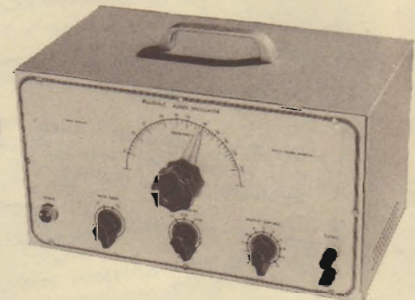
The Heathkit Intermodulation Analyzer includes the low (60 CPS) and high (3 KC and 7 KC) test signals which can be set to any voltage ratio. They are applied to the audio device under test and then the fundamental frequencies are filtered out leaving only the signal caused by their interaction. This signal (intermodulation distortion) is then measured by the panel mounted VTVM with full scale ranges of 30%, 10% and 3%. The AC VTVM can also be used separately with full scale ranges of 30 volts, 10 volts and 3 volts.

Model IM-1 is complete in itself and needs no help from other instruments. It truly represents the "high quality—low price" theme of Heathkits.

Heathkit

AUDIO OSCILLATOR KIT

MODEL AO-1 **\$24⁵⁰**
Ship. Wgt.
11 lbs.



Here is your signal source for the investigation of all kinds of audio circuits. It will produce both sine and square waves at any frequency from 20 CPS to 20 KC in three ranges. Thermistor controlled linearity results in a variation of no more than ± 1 db in the 10 volt (no load), variable output level. There will be less than .6% distortion from 100 CPS throughout the audible range.

The square wave rise time of 2 microseconds makes Model AO-1 ideal for testing audio amplifiers by the square wave method. Another desirable condition is its low impedance (600) ohms) output. Precision 1% resistors are used in the range multiplier circuit to provide the most accurate calibration.

When used with an oscilloscope, the Heathkit Audio Oscillator makes an excellent reference for frequency measurements. Use it also in the service shop in conjunction with a signal tracer and to test loud-speakers. Many other uses will present themselves to make Model AO-1 well worth its nominal price.

Heathkit

AC VACUUM TUBE VOLTMETER KIT

MODEL AV-2 **\$29⁵⁰**
Ship. Wgt.
5 lbs.



Extreme sensitivity has been emphasized in the design of the Heathkit AC VTVM. The full scale RMS ranges are .01, .03, .1, .3, 1, 3, 10, 30, 100 and 300 volts. Primarily intended for audio work, the frequency response is substantially flat from 10 CPS to 50 KC.

With its input impedance of 1 megohm at 1 KC, Model AV-2 will accurately measure as low as 1 millivolt at high impedance which is very rare even in much more expensive devices. Total db range is -52 db to +52 db.

An excellent kit for measuring the output of phono cartridges and the gain of amplifier stages. Use it also to check power supply ripple, as a sensitive null detector and for compiling frequency response data. A germanium diode meter bridge provides good linearity throughout the range of the 200 microampere Simpson meter. Model AV-2 features convenient one knob operation, precision divider resistors and a well filtered AC power supply.

The Heathkit AC VTVM is modernly styled to match the Audio Wattmeter and Model V-6 VTVM. If you are interested in audio, you will require this accurate and economical item.

HEATHKITS FOR THE AUDIO DESIGN ENTHUSIAST

NEW High Fidelity

OUTSTANDING FEATURES:

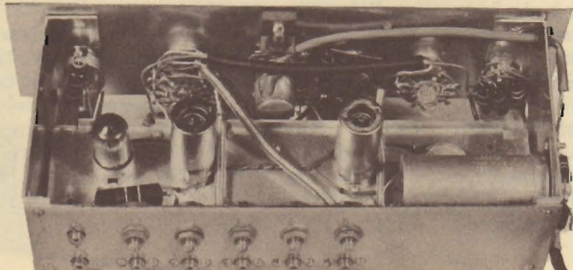
- 5 position input switch
- 4 position turnover switch
- 4 position Roll-off switch
- 3 twin triode tube circuit
- Cathode follower output

★ LIGHT WEIGHT

★ TUBE SHIELDS

★ FUNCTIONAL DESIGN

★ SHOCK MOUNTING



Heathkit MODEL WA-P2 PREAMPLIFIER KIT



MODEL
WA-P2

\$19⁷⁵

Shipping
Wgt. 7 lbs.

ADVANTAGES:

In answer to your many requests the Heath Company is proud to offer the new Preamplifier Model WA-P2 at no price increase. Designed for any of the Williamson Type Amplifiers and interchangeable with previous Model WA-P1. The improvements are many: 2 low and 3 high level inputs individually controlled, complete compensation, monitored recorder output, high voltage gain and lower hum and noise levels.

DESIGN:

The three tube circuit consists of a 12AX7 phono and mike preamplifier with proper equalization, 1/2-12AU7 input cathode follower, 12AX7 voltage and tone control amplifier and 1/2-12AU7 cathode follower output. The recorder output is independent of volume and tone controls making it possible to monitor the signal through a power amplifier. Proper equalization for LP, NARTB, AES and early 78 recording characteristics. Selected roll-off of 16, 12, and 8 db with one flat position. All tubes and critical leads are efficiently shielded and tube chassis is shock mounted from the cabinet.

COMPONENTS:

All parts are of the highest quality. Moulded plastic condensers are used throughout. Low noise deposited carbon resistors are furnished for critical input circuits. The kit is complete with smooth acting controls and switches and first line tubes. Full instructions will result in a very pleasant and worthwhile project.

NEW

LOW PRICED Single UNIT

WILLIAMSON
TYPE

AMPLIFIER KIT

MODEL W-4M
Shipping
Wgt. 28 lbs. **\$39⁷⁵**

MODEL W-4
Shipping
Wgt. 35 lbs. **\$59⁵⁰**

Another new Heathkit fills a need reported by a great many customers. The famous

Heathkit Williamson Type Amplifier is now available as a single unit. Model W-4M is the power supply and power amplifier combined in one efficient chassis layout. Model W-4 includes W-4M plus the new Heathkit Preamplifier Model WA-P2.

Quality has not been sacrificed in the slightest degree by combining both the power supply and amplifier in one chassis. By the elimination of connecting cables, sockets, plugs and a reduction of sheet metal fabrication operations a substantial saving in price is realized. The Williamson type circuit and heavy duty power supply remain unchanged.

This compact design with one large chassis will be of particular interest to those having the necessary available space. Wiring procedures have been simplified for your convenience. For circuit description please refer to the accompanying ad for the Heathkit Williamson Type Amplifier Models W-2 and W-3.

WILLIAMSON TYPE

COMBINATIONS:

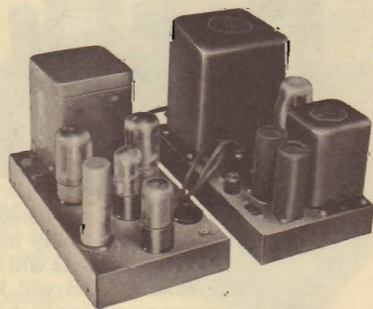
W-2 Amplifier Kit (Includes Main Amplifier with Peerless Output Transformer, Power Supply and WA-P2 Preamplifier.) Shipping weight 38 lbs. Shipped express **\$69⁵⁰** only.

W-2M Amplifier Kit (Includes Main Amplifier with Peerless Output Transformer and Power Supply.) Shipping weight 30 lbs. Shipped express only. **\$49⁷⁵**

W-3 Amplifier Kit (Includes Main Amplifier with Acrosound Output Transformer, Power Supply and WA-P2 Preamplifier.) Shipping weight 38 lbs. Shipped express only. **\$69⁵⁰**

W-3M Amplifier Kit (Includes Main Amplifier with Acrosound Output Transformer and Power Supply.) Shipping weight 30 lbs. Shipped express only. **\$49⁷⁵**

Heathkit
AMPLIFIER KIT



The ultimate in audio reproduction, the Heathkit Williamson Type Amplifier offers extreme flexibility for custom installations. Three separate chassis with interconnecting cables meet all requirements for your high fidelity system.

Frequency response ± 1 db 10 CFS to 100 K.C., negligible hum and noise levels and plenty of reserve power for complete listening pleasure. The circuit consists of a 6SN7 cascade amplifier and phase splitter, 6SN7 push-pull driver, (2) 5881 push-pull power output tubes and 5V4 G rectifier. Both the Peerless and the Acrosound output transformers have additional primary taps for the popular extended power circuit wiring. This method as well as the conventional triode wiring is fully covered in the construction manual.

The full requirements for true high fidelity are met with any one of the available combinations. Investigate this offer further. You can't go wrong.

THE WORLD'S LARGEST SELLING HI-FI AMPLIFIER

New

HEATHKIT *Dual* RECORD PLAYER KIT



- A new high in quality reproduction.
- Wide Range push-pull audio system.
- New ceramic cartridge with sapphire stylus.
- Dual speakers; matched and synchronized.
- Modern, acoustically correct cabinet.
- Webster-Chicago 3-speed automatic changer.

Representing an entirely new concept of record reproduction, Model RP-2 Heathkit Record Player allows you to hear all of the music on your records rather than the limited version produced by the average phonograph. It is a technical fact that most phono amplifiers fall far short of the degree of quality that gives full enjoyment to your record selections. There are logical reasons for these limitations, but the problems are solved rather than side-stepped in the design of Model RP-2. It is best tested by comparison.

The Webster-Chicago record changer automatically plays all record sizes intermixed and shuts itself off after the last record is played. A simple speed control switch provides for the playing of 33 $\frac{1}{3}$ RPM, 78 RPM and 45 RPM records. A 45 RPM spindle adaptor or individual record inserts is required for the 45's. This item is not furnished as part of the RP-2 kit.

A newly developed ceramic cartridge is especially designed for the double tipped, turn-under type sapphire stylus. This combination results in an extremely broad frequency range, long life and

freedom from the effects of wide variations in temperature and humidity.

An elaborately designed amplifier features a four-tube circuit with compensated volume control, negative feedback to broaden the frequency range and reduce distortion, push-pull output and tone control.

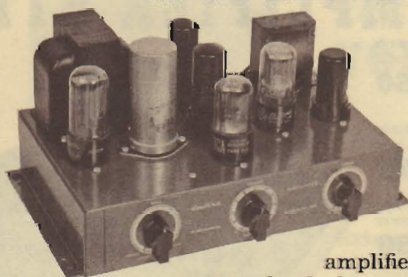
Ultra-modern styling is featured in the design of the proxylin impregnated fabric covered cabinet. It is handsomely finished in a two-tone color scheme of saddle brown and beige. The inside dimensions have been carefully determined for proper acoustical qualities. Two 6" PM speakers, located one on each side, effectively increase their overall efficiency and radiate properly for a wonderful "surrounding effect." You build only the amplifier and require absolutely no test equipment. Designed for the complete electronic novice, this kit can be constructed in a few hours and will reward you with years of complete enjoyment. Size 21" x 13 $\frac{1}{2}$ " x 10 $\frac{1}{2}$ " high.

MODEL RP-2

\$69⁵⁰

Ship. Wgt.
40 lbs.

Heathkit 6 WATT AMPLIFIER KIT



MODEL A-7B
Ship. Wgt. **\$15⁵⁰**
10 lbs.

An outstanding value. This economically priced 6 watt amplifier is capable of performance expected only in much more expensive units. Only 2 or 3 watts will ever be used in normal home applications and Model A-7B will be more than adequate except for special purposes requiring higher power levels.

Two switch selected inputs are available for the crystal and ceramic phograph pickups, tuner, TV audio, tape recorder and carbon type microphone. Model A-7B features separate bass and treble tone controls, push-pull balanced output stages, output impedances of 4, 8, and 15 ohms and extremely wide frequency range extending to 20 KC. It is not a souped up AC-DC job. Full wave rectification in a transformer operated power supply and good filtering result in a very low hum level. Negative feedback is used to assure a minimum of distortion. Very simple to build, Model A-7B offers a good opportunity to get started on your home audio system.

MODEL A-7C provides a preamplifier stage and proper compensation for the variable reluctance cartridge and low level microphone. Price **\$17.50**

Heathkit 20 WATT HIGH Fidelity AMPLIFIER KIT

MODEL A-9B
\$35⁵⁰

Ship. Wgt. 23 lbs.



In keeping with the progressive policy of the Heath Company, another improvement has been made in the Heathkit High Fidelity 20 Watt Amplifier. Additional reserve power has been added by using a new and heavier power transformer. A new output transformer, designed and manufactured specifically for the Heath Company, now provides output impedances of 4, 8, 16 and 500 ohms. The harmonic distortion level will not exceed 1% at the rated output.

Outstanding features of the Heathkit 20 Watt Amplifier include a frequency response of ± 1 db from 20 CPS to 20 KC, separate (boost and cut) bass and treble tone controls, 4 selected input jacks and a special hum balancing control. Flexibility is emphasized in the input circuits and proper equalization for all input devices is incorporated.

Tube lineup as follows: 12AX7 magnetic pre-amplifier and first audio amplifier; 12AU7 two stage amplifier with tone controls; 12AU7 voltage amplifier and phase splitter; (2) 6I push-pull power output. Negative feedback is used around the second 12AU7 and output stages.

Model A-9B is excellent for custom installation and is designed for outstanding service at a very reasonable cost.

EXPERIENCE THE THRILL OF BUILDING IT YOURSELF

Heathkit VACUUM TUBE VOLTMETER KIT

Quality

- 11 megohm input resistance for negligible circuit loading.
- 1% precision resistors for maximum accuracy.
- Extended upper and lower voltage ranges.
- 4 1/2" 200 microampere Simpson meter.
- Center scale zero adjust position.
- Circuit designed for meter protection.

If there is an instrument indispensable to the service shop, the Heathkit Model V-6 VTVM is it. Many service problems are solved quickly with the VTVM alone and most service men would be lost without it.

OUTSTANDING DESIGN features qualify Model V-6 for applications beyond the capabilities of many comparable instruments. With the new 1.5 v full scale range, very low AC and DC voltages can now be accurately measured. A center scale zero adjust point allows for easy alignment of FM discriminators and similar circuits. A 7 position range switch affects all VTVM functions including a wide db range. The function switch features polarity reversal positions which makes it unnecessary to switch test leads.

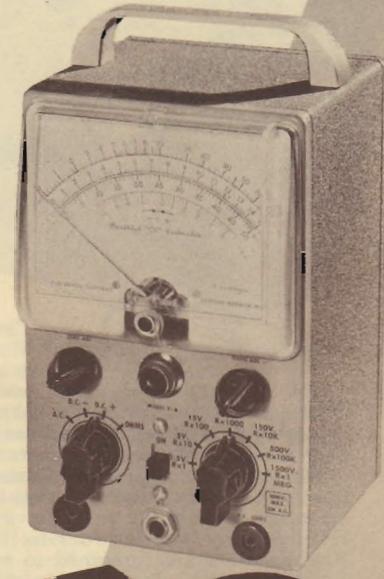
ACCURACY is achieved by the use of high quality 1% precision resistors in the voltage divider and ohms multiplier circuits. It is further

assured by individual voltage calibrate controls and carefully selected, aged tubes. The high impedance input VTVM eliminates the loading effect which seriously upsets critical circuits under test.

FULL SCALE VOLTAGE RANGES are 0-1.5, 0-5, 0-15, 0-50, 0-150, 0-500 and 0-1500 with a limit of 1000 v RMS for AC. The resistance range is from .1 ohms to 1000 megohms. Db can be read from -70 db to +65 db.

Model V-6 uses a transformer operated power supply with selenium rectifier and RC filter, a 6H6 twin diode AC rectifier and a 12AU7 twin triode meter bridge. The electrical position of the meter between the 12AU7 cathodes protects it in case of an accidental overload.

A thoroughly professional instrument, the Heathkit Model V-6 VTVM is very easily constructed and simple to use. Its possibilities are practically unlimited, as indicated by the fact that it is the world's largest selling kit instrument.



MODEL V-6
\$24⁵⁰
Ship Wgt.
6 lbs.

Heathkit SIGNAL GENERATOR KIT



MODEL
SG-8
Ship. Wgt.
8 lbs. **\$19⁵⁰**

This basic service instrument is now perfected to a point where no calibration is required. The coils are factory wound and tested for each frequency range. No further adjustment is necessary. The accuracy will be well within the limits required for service work.

Frequency coverage extends from 160 KC to 110 MC on fundamentals in 5 ranges. Useful harmonics increase the range up to 220 MC. A modulation switch gives you a choice of outputs, either unmodulated RF or modulated by the internal 400 CPS sine wave oscillator. Provisions are made for using an external modulating source if desired. You can also use the 400 CPS signal for external uses such as audio testing.

The circuit consists of a transformer operated power supply, 6C4 AF oscillator, 12AU7 RF oscillator and cathode follower output and both step and continuous attenuation control. The cathode follower also acts as a buffer to isolate the RF oscillator from the output circuit. An output voltage in excess of 100,000 microvolts is assured throughout the frequency range.

Even though Model SG-8 is essentially designed for radio service work, it is definitely useful in TV and laboratory applications. It is ideal as an external TV marker and also as a signal source for checking RF stages. Use it for stagger-tuned video IF alignment and for vertical linearity adjustments. You get more than your money's worth here.

NEW Heathkit MULTIMETER KIT . . .

Here is the kit designed for specialized applications as well as normal service work. Standard commercially available batteries are used for convenience of replacement. It requires no external power source which makes it completely portable. Model MM-1 is not affected by strong RF fields as encountered in and near transmitting equipment.

Good sensitivity (20,000 ohms/volt DC and 5000 ohms/volt AC), 1% precision resistors and a 50 microampere Simpson meter fully qualifies the Heathkit Multimeter for close tolerance laboratory and service work. Full scale AC and DC voltage ranges are 1.5, 5, 50, 150, 500, 1500 and 5000. Direct current ranges are 150 microamperes; 15, 150 and 500 milliamperes; and 15 amperes. Resistances are measured from .2 ohms to 20 megohms in 3 ranges and decibels from -10 to ±65 db.

The kit includes the attractive black bakelite cabinet, new ring type range switch for easy assembly, test leads, batteries and all necessary parts. You will be proud to own the Heathkit MM-1 Multimeter.

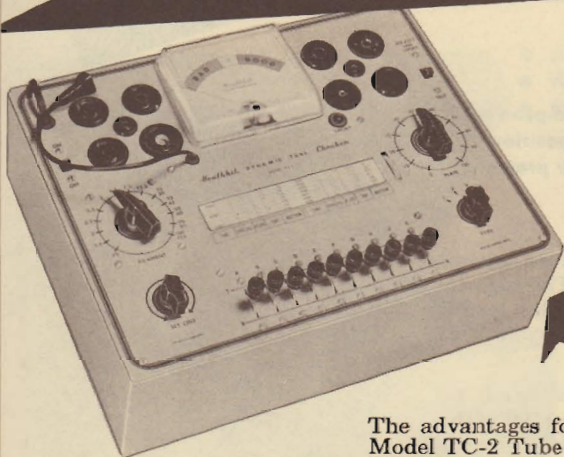


MODEL MM-1
\$26⁵⁰
Shipping Weight 6 lbs.

New

Heathkit

TUBE CHECKER KIT



MODEL TC-2
\$29.50
 Shipping Weight
 12 lbs.

The advantages found in the Heathkit Model TC-2 Tube Checker are new and unique in the kit instrument field. The wiring is greatly simplified by the use of

color coded wire and a neat, harness type arrangement. The new roller assembly is trouble-free and easy to operate. Roll chart illumination adds to the professional appearance of the completed unit.

All tubes normally used in modern radio and TV service are adequately covered. Obsolete tubes appear on a separate chart in the construction manual for your convenience. The roll chart itself is revised from time to time in order to include all of the latest developments. Panel sockets are furnished to accommodate 4, 5, 6 and 7 pin tubes, octal and loctal, 7 and 9 pin miniatures, 5 pin Hytron and a blank socket for future possibilities.

In addition to the regular quality test, individual tube elements are tested for shorted and open conditions by (10) 3 position lever switches. Tube quality is easily read on the 4 1/2" Simpson meter scale for the convenience of both you and your customers. Accuracy is assured by the line adjust control and close tolerance resistors in critical test circuits. A neon indicator quickly points out filament continuity and shorted tube elements. Easy operation, full instructions and professional appearance qualify Model TC-2 for use in both the simplest and most elaborate service establishments.

Features:

- Improved harness type wiring.
- New, smooth acting roller assembly.
- Roll chart illumination.
- Up-to-date tube listings.
- Blank socket for special tube types.
- Large 3-color meter scale.
- Individual element test.
- Line voltage compensation.

No. 355 TV Picture Tube Test Adapter:

This factory assembled adapter can be used with any Heathkit tube checker. It consists of the standard 12 pin TV socket, octal socket, 4 feet of connecting cable and tube data sheet. Check TV picture tubes for quality of emission, shorts, opens and filament continuity without removing them from the set.



No. 355
\$4.50

Ship. Wgt. 1 lb.

NEW Heathkit

PORTABLE TUBE CHECKER KIT

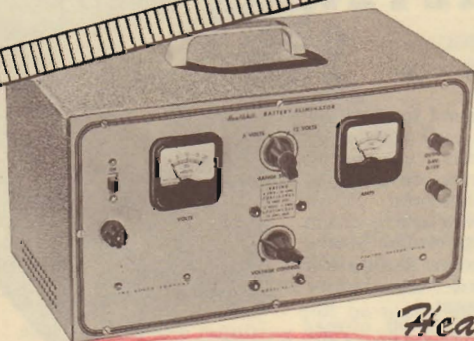
Designed for portable and bench use, Model TC-2P is modern in all respects. The cabinet is attractively finished in rich maroon proxylin impregnated fabric covering with gray on the inside cover. A removable lid, brass plated hardware and rugged handle add to the appearance and usefulness.

MODEL TC-2P
\$34.50

Ship. Wgt.
 14 lbs.



CABINET ONLY: Available separately for all earlier Heathkit Tube Checkers. Shipping weight 7 lbs. No. 91-8. Price... \$7.50



MODEL BE-4
\$31.50
 Ship. Wgt.
 18 lbs.

NEW

Heathkit 12 VOLT BATTERY ELIMINATOR KIT

New, 12 volt auto electrical systems have prompted the development of the combination 6-12 volt Heathkit Battery Eliminator. It is now a necessity in the car radio service shop. A convenient panel switch is provided for selecting either the 0-8 or 0-16 continuously variable voltage ranges. Output voltage and current drain are constantly monitored by individual panel mounted meters.

Maximum current ratings for 6 volt operation are 10 amperes continuously and 15 amperes intermittently. For 12 volt operation the ratings are 5 and 7.5 amperes. Model BE-4 features a well filtered output circuit using (2) 10,000 MFD condensers, fuse protected transformer, a self-resetting overload relay and an 18 plate heavy duty rectifier.

Use it to check vibrator starting voltages, to simulate high and low battery voltages in radio repair, to charge storage batteries and as a DC filament supply for audio work.

MODEL T-3
\$23.50

Ship. Wgt.
 10 lbs.



Heathkit VISUAL-AURAL

SIGNAL TRACER KIT

One of the most versatile of Heathkits, the Visual-Aural Signal Tracer incorporates features never before combined in one instrument. Essentially it is a high gain audio amplifier and can actually be used as such. A highly sensitive preamplifier stage is switched in for RF work and the kit is complete with audio and RF demodulator type probes. Transmitted signals can be traced from a receiver antenna through the complete set. The relative signal strength is indicated clearly in the action of a built-in tuning eye and also by the signal tracer speaker.

The features and uses are almost numberless. Model T-3 includes a built-in wattmeter for a preliminary check of power consumption, a noise locator to isolate noisy components without removing them from their circuit. dual channel tracer inputs for high and low gain circuits and convenient external binding posts for using the speaker, output transformer or both for test purposes.

The Heathkit Signal Tracer is truly a sensational kit. It is the type of instrument that you can own for years and still continue to discover new and practical uses for it each time you throw the switch.

NEW

Heathkit

TV ALIGNMENT GENERATOR KIT

Features:

*INCREDUCTOR controllable inductor sweep.

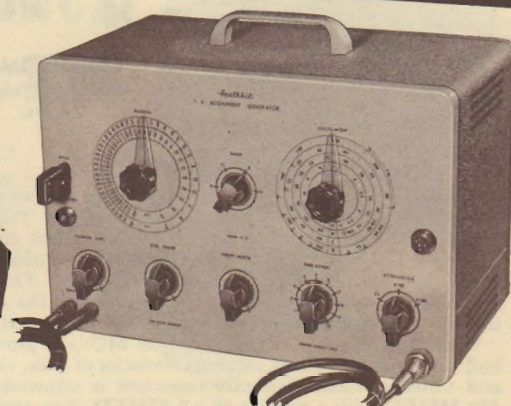
- Fundamental frequency range 4 MC - 220 MC.
- RF output well over 100,000 microvolts.
- Sharp blanking and wide range phasing.
- Triple marker system — 4.5 MC crystal furnished.
- Up to 30 MC sweep width at TV IF frequencies.
- Voltage regulated power supply.
- Constant RF output level.

Entirely new, Model TS-3 represents a radical departure from the conventional sweep generator design. The heart of the new system is the *INCREDUCTOR controllable inductor which is part of the frequency control circuit for a standard Colpitts sweep oscillator. Sweep width is variable from 0 to at least 12 MC at the lowest RF frequency and from 0 to approximately 50 MC at the highest.

Another unusual advantage is the fact that the swept oscillator operates upward only from the base frequency instead of each side of a center frequency. Blanking is automatic and sharp. A two-way system removes plate potential from the sweep oscillator and drives the control grid negative by approximately 100 volts. This occurs during 180° of the sweep cycle.

The fundamental frequency range of the Colpitts marker oscillator is from 19 MC to 60 MC and from 57 MC to 180 MC on calibrated harmonics. Higher order harmonics can also be used very effectively. A Pierce crystal oscillator is also used (4.5 MC crystal furnished) in conjunction with the variable. Mixing the output of 2 oscillators in a common load causes both frequencies to be present as well as their sum, difference and harmonics. Thus 4.5 MC spaced markers and check points can be observed or other crystals can be substituted to obtain markers

MODEL TS-3
\$44.50
 Ship. Wgt.
 18 lbs.



that are closer or more distantly spaced. In addition, provisions are made for the use of an external marker generator if desired.

For maximum flexibility the marker amplitude control and RF attenuator circuits operate entirely independent of each other. RF output features a step type and fine adjustment. All output cables are furnished including proper termination for isolation and the 50 ohm generator matching impedance. A constant RF output is maintained by the use of voltage regulation. A wide range phasing control allows easy trace centering.

The tube lineup as follows: 12AT7 sweep oscillator and buffer, 12AT7 variable and crystal marker oscillator, 12AU7 blanking clipper, 6AQ5 series high voltage regulator, 6AU6 regulator control, OA2 control tube reference regulator and a 6X5 rectifier for the transformer operated power supply. Effective line filtering, copper plating and adequate shielding add to the overall efficiency.

Model TS-3 is very easy to use since the swept oscillator operates upward only from the base frequency. The sweep dial is merely set to a frequency below the IF or RF alignment frequency, and the sweep width control advanced until a satisfactory trace is observed. Final adjustments are made with the frequency dial and phasing control. Using the elaborate marker system, the TV manufacturer's instructions can then be followed to the letter.

*Trademark, C.G.S. Laboratories, Stamford, Connecticut.

Heathkit HANDITESTER KIT



MODEL M-1
\$14.50
 Ship. Wgt.
 3 lbs.

Aptly named, Model M-1 Handitester is just that. It's small size, compact design and wide range of operation makes it ideal as a very portable volt-ohm-milliammeter. The standard 1.5 volt flashlight cell is used for ease of replacement.

Full scale AC and DC voltage ranges are 10, 30, 300, 1000 and 5000. Ohmmeter ranges are 0-3000 and 0-300,000. Two DC milliamperage ranges, 0-10 and 0-100. Featured are 1% resistors, single switch operation, 400 microampere meter, handsome black bakelite case and all necessary test leads. Model M-1 is easily constructed and can be tucked away in your tool box or glove compartment with plenty of room to spare.

NEW Heathkit BAR GENERATOR KIT



MODEL BG-1
\$14.50
 Ship. Wgt.
 6 lbs.

The lack of transmitted test patterns presents a problem to the TV service man whenever linearity adjustments must be made. The small, compact Bar Generator is the answer. Equally spaced horizontal or vertical bars can be observed without the necessity of tapping into the internal circuit of the TV receiver. The Bar Generator test clip is merely attached to the antenna terminals.

Model BG-1 produces a carrier frequency of 60 MC to 80 MC which can be modulated by a signal of 113 KC to 172 KC for vertical bars or 480 CPS for horizontal bars. It is very simply operated by the 3 position panel switch (stand by—vert.—hor.). Sync. stability can also be checked with this instrument. Other features include a transformer operated power supply, 12AT7 twin triode oscillator for RF and video frequencies and a neon relaxation oscillator for the low frequencies. The kit includes full instructions and all necessary components.



MODEL C-3
\$19.50
 Ship. Wgt.
 8 lbs.

Heathkit CONDENSER CHECKER KIT

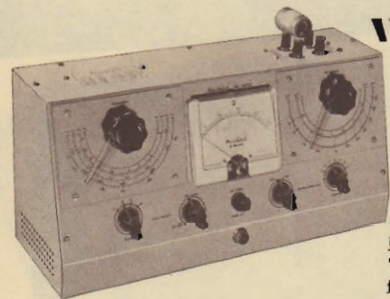
Here is a handy test instrument for any service shop. Unknown values of capacity and resistance are quickly determined on the direct reading Condenser Checker dial. Capacity is measured in 4 ranges from .00001 MFD to 1000 MFD. Resistance is read in the range from 100 ohms to 5 megohms.

DC polarizing voltages of 25, 150, 250, 350 and 450 are available for leakage tests on all types of condensers. For electrolytics a power factor control is provided to balance out inherent leakage and to indicate directly the power factor of a condenser under test. Proper balancing of the AC bridge is reflected in the degree of closure of an electron beam indicator tube. Model C-3 uses a transformer operated power supply, spring return leakage test switch and convenient combination panel scales for all readings. Test leads are furnished in addition to precision components for calibrating purposes. Quick and easy to operate, the Heathkit Condenser Checker will save valuable time and increase your shop efficiency.

LABORATORY EQUIPMENT for Shop - School - Laboratory

Heathkit "Q" METER KIT

MODEL QM-1
Shipping Weight 14 lbs. **\$44.50**



Do you realize the full capabilities of a "Q" meter? Think it over. TV sets are full of tuned circuits that can best be checked by simulating actual operating conditions. This is easily done with

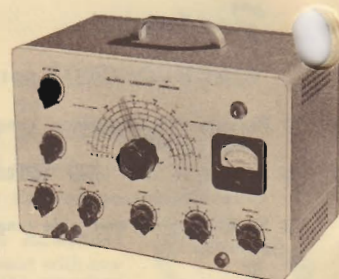
Model QM-1 and therefore it becomes useful in the service shop as well as in the lab. All readings appear clearly on the calibrated meter scale.

Operating frequencies (150 KC—18 MC) are provided by the very stable built-in oscillator. Check all characteristics of coils, chokes, yokes, condensers and tuned circuits. Calibrate capacitor is adjustable from 40 MMFD to 450 MMFD with a vernier of ± 3 MMFD. You can't beat it for versatility and accuracy.

Easy to build. Easy to operate. Priced well within the reach of everyone.

Heathkit LABORATORY GENERATOR KIT

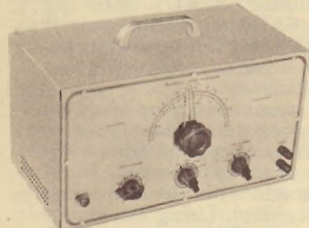
MODEL LG-1
Shipping Weight 16 lbs. **\$39.50**



Designed particularly for laboratory work, Model LG-1 is also used in the service shop in applications requiring extreme accuracy. The panel mounted 200 microampere Simpson meter, calibrated in both output voltage and percent of modulation, provides an accurately set level for service and development work. The fundamental operating frequency of the Colpitts oscillator is from 150 KC to 30 MC in 5 ranges. Oscillator, buffer, and output circuits are completely shielded. The carefully designed attenuator circuit operates into a 50 ohm output cable providing .1 volts output throughout the frequency range. Other features include provisions for metering internal and external modulation, AC line filter and regulated power supply. A thoroughly professional instrument that you will be proud to own.

Heathkit AUDIO GENERATOR KIT

MODEL AG-8
Shipping Weight 11 lbs. **\$29.50**



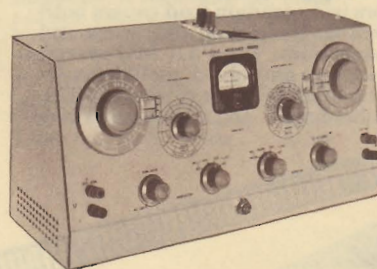
How many times in the past have you needed an accurate source of a perfect sine wave voltage? If the required frequency falls between 20 CPS and 1 MC, you need look no farther than the Heathkit Model

AG-8 Audio Generator. Its impedance is 600 ohms and its output of 10 volts (no load) will vary no more than ± 1 db from 20 CPS to 400 KC. At 600 KC it will be down 6 db and a maximum of 8 db at 1 MC. Total distortion from 100 CPS through the complete audible range will measure less than .4%.

The wide frequency range and the fact that the output voltage can be controlled both continuously and in calibrated steps, makes Model AG-8 especially useful in the investigation of wide band audio circuits. Its usefulness is almost unlimited and you will be continually amazed at its rock steady and accurate performance.

Heathkit IMPEDANCE BRIDGE KIT

MODEL IB-2
Shipping Weight 15 lbs. **\$59.50**



Looking for bargains? How about four complete precision instruments for the price of one. They are combined in the ultra-modern Heathkit Model IB-2 Impedance Bridge Kit. Use the Wheatstone

bridge for resistance measurements, Capacitance Comparison for capacities, Maxwell for low Q inductances and Hay for high Q inductances. Each bridge uses $\frac{1}{2}\%$ resistors and precision mica condensers for maximum accuracy.

Complete AC operation eliminates all batteries. The internal 1000 cycle phase shift generator uses battery type tubes for instantaneous operation with built-in detector and amplifier stages. Generator impedance is variable to match each bridge circuit. Q, D, and DQ are easily read on a combination dial and CRL adjustments are made on a unique step plus variable control. It's entirely new and no lab is complete without it.

Heathkit RESISTANCE SUBSTITUTION BOX KIT

MODEL RS-1 Lay aside those pliers and that handful of resistors and do it the easy way. Any one of 36 RTMA 1 watt values between 15 ohms and 10 megohms at an accuracy of 10% are at your finger-tips in Model RS-1 Resistance Substitution Box Kit.

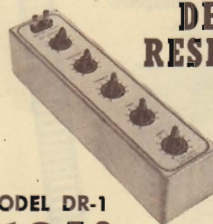
\$5.50
Ship. Wgt. 2 lbs.



This sturdy and attractive accessory will easily prove its worth as a time-saving device alone. Plan to have one or two available at all times and turn those tedious substitution jobs into a real pleasure.

Heathkit DECADE RESISTANCE KIT

MODEL DR-1
\$19.50
Ship. Wgt. 4 lbs.

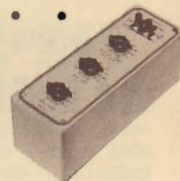


any value between 1 ohm and 99,999 ohms. Model DR-1 has found it's way into many of the country's leading electronic laboratories and educational institutions as a valuable aid in precision applications.

All parts are of the highest quality. Sturdy ceramic type switches with silver plated contacts will serve you long and faithfully. Use the Decade Resistance in bridge circuits, meter multipliers, calibration, or any application requiring a wide range of precision resistance values. This versatile instrument in its highly polished birch cabinet will be a welcome addition to your lab or shop. Only the ability of the Heath Company to purchase in large quantities makes it possible for you to secure such a collection of precision parts at a ridiculously low price.

Heathkit DECADE CONDENSER KIT

MODEL DC-1
\$16.50
Ship. Wgt. 4 lbs.



Serving a purpose similar to that of the Decade Resistance, the Heathkit Decade Condenser provides a ready source of capacity values from 100 MMFD to .111 MFD inclusive. Easy adjustment of the decade switches will vary the capacity in steps of 100 MMFD. Silver plated contacts on husky ceramic switches serve to make positive detent action assured for each switch position. Precision silver condensers result in an accuracy of $\pm 1\%$ for your close tolerance work.

With all normal values available for immediate use, you can now try those different couplings, by-pass and tone control capacities with no trouble or delay. Easy construction and convenient use makes Model DC-1 Decade Condenser an important part of your experimental or service lab.

Heathkit CONDENSER SUBSTITUTION BOX KIT

MODEL CS-1
\$5.50 Ship. Wgt. 2 lbs.



Use the new Heathkit Condenser Substitution Box with its companion, the Resistance Substitution Box, and increase your shop efficiency.

Eighteen standard RTMA values are available from .0001 MFD to .22 MFD. An eighteen position switch set in the panel of an attractive bakelite case allows quick changes without touching the 18" test leads. Invest a few minutes of time in building one or more of these kits and save hours of work later.

The Best of EQUIPMENT for the AMATEUR

IMPROVED *Heathkit* GRID DIP METER KIT



MODEL GD-1B

\$19⁵⁰

Shipping Weight
4 lbs.

Features:

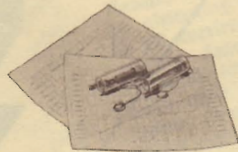
- Continuous Frequency coverage from 2 MC to 250 MC.
- Simpson 500 microampere meter with controlled sensitivity.
- Pre-calibrated dial scale-blank dials for hand calibration.
- Headphone monitoring jack for audible null indication.

For a quick and accurate frequency check of tuned circuits, the Heathkit Grid Dip Meter can't be beat. A highly sensitive microammeter, connected in the grid circuit of a 6AF4 or 6T4 high frequency triode, indicates definitely the strength of oscillation. By means of the diode switch, the Grid Dipper can be used as an oscillator or an absorption wave meter. This feature provides for the testing of both energized and de-energized tuned circuits.

This kit instrument will be invaluable to the ham, the TV service man and to the experimenter. It can be used to locate the source of spurious oscillations, to align TV tuned circuits, to measure C, L and components as well as many other uses. For the ham in particular, the Heathkit Grid Dip Meter will provide a relative indication of transmitter stage power, assist in correcting TVI and checking neutralization. Stability, accuracy, and ease of handling are only a few of the outstanding features.

As always, high quality parts are used throughout and the construction manual is complete in all detail. You take no chances when ordering this fine kit instrument.

The frequency range of the Heathkit Grid Dip Meter is extended down to 355 KC by the use of the two optional low frequency coils complete with dial correlation curves. Set No. 341-A for GD-1B and No. 341 for GD-1 and GD-1A. Shipping weight 1 lb. Price **\$3.00**



Heathkit ANTENNA IMPEDANCE METER KIT



MODEL AM-1

\$14⁵⁰

Shipping Weight
3 lbs.

Features:

- Sensitive 100 microampere Simpson meter
- Precision resistance type SWR bridge.
- Frequency range 0 - 150 MC.
- Impedance range 0 - 600 ohms.
- Headphone jack for phone monitoring.

Attention hams! Don't overlook the many possibilities of the Heathkit Antenna Impedance Meter. It is easily energized by any low power RF source such as the Heathkit Grid Dip Meter. The frequency and impedance ranges, ease of operation and high sensitivity make it extremely useful in your ham shack.

Determine antenna resonance and resistance, transmission line surge impedance and receiver input impedance. Works with half and quarter wave lines; half wave and folded dipoles; harmonic, mobile and parasitic beam antennas. Use it with headphones to monitor radio telephone transmissions. Match transmission lines for minimum SWR. Locate radiation from natural objects by using the AM-1 to obtain a relative indication of field strength.

Ruggedly built with shielded aluminum cabinet and substantial binding posts. The construction manual is a text book in itself. The Heathkit Antenna Impedance Meter is efficiently designed for long and useful service.

All metal parts are completely formed and punched. Each component carries the now famous Heathkit guarantee of good quality and dependable service. No longer must you purchase a battery of instruments when one inexpensive item can perform so many tasks.

Heathkit AMATEUR TRANSMITTER KIT



MODEL AT-1

\$29⁵⁰

Ship. Wgt.
16 lbs.

This is it; the ham transmitter that has been tried and enthusiastically accepted by hundreds of experienced operators as well as beginners. Power input up to 35 watts for the novice and suitable as a stand-by or exciter for your higher powered rig later on.

Model AT-1 can be crystal or VFO excited and operates on 80, 40, 20, 15, 11 and 10 meters. The prewound coils for the oscillator and amplifier are switched simultaneously by the rugged band switch. Meter switch allows the reading of grid and plate current on the panel mounted meter. Modulator input and VFO power sockets are provided as well as a key jack for CW operation.

Other features include a crystal socket, stand-by switch, key click filter, AC line filter, good shielding and a 52 ohm coaxial output. The 425 volt, 100 milliamperere power supply with 5U4 rectifier, is more than adequate for the 6AG7 oscillator-multiplier and 6L6 amplifier-doubler.

All parts including copper plated chassis are provided with the kit. Get on the air. Model AT-1 has passed the acid test with flying colors.

NEW *Heathkit* ANTENNA COUPLER KIT



MODEL AC-1

Ship. Wgt.
3 lbs.

\$14⁵⁰

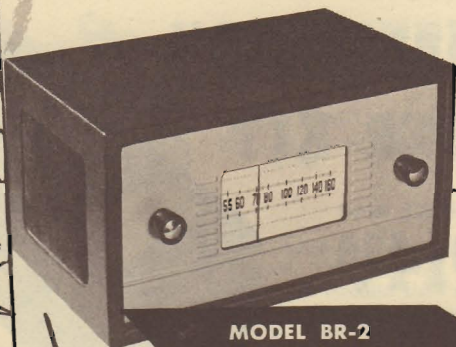
Designed especially for the Heathkit or a comparable amateur transmitter, Model AC-1 Antenna Coupler will handle a power up to 75 watts at its 52 ohm coaxial input. Matches a wide range of antenna impedances with its L type tuning network and neon indicator. A tapped inductance provides coarse adjustment and a transmitting type variable condenser sets it right on the nose.

Model AC-1 is complete with a 3 section low-pass filter cutting off at approximately 36 MC. It will feed the simple end-fed Hertz type antenna and will operate on the 10 through 80 meter bands. Longer antenna lengths or a loading coil in the antenna lead will allow operation at 160 meters.

This new Heathkit has been tried and tested. You can't afford to pass this one up.

Heathkit BROADCAST BAND

RECEIVER KIT



MODEL BR-2
\$17.50

Shipping Weight 11 lbs.

Now you can build your own radio receiver with complete confidence. Model BR-2 is designed especially for the beginner without sacrificing quality in any way. Your success is assured by the complete details contained in the construction manual which is an education for the novice. Efficient chassis layout and sound engineering maintains the high quality performance expected in Heathkits.

In addition to the trouble-free planetary tuning system, Model BR-2 features a transformer operated power supply, high gain miniature tubes, sharply tuned IF transformers and a new rod type built-in antenna. The result is high sensitivity, good selectivity and an unusually fine tone quality from the 5 1/2" PM chassis mounted speaker. Can be used as a receiver, tuner or phono amplifier. You receive complete instructions and all parts including 12BE6 mixer-oscillator, 12BA6 IF amplifier, 12AV6 detector, 12A6 beam power output and 5Y3 rectifier tubes.

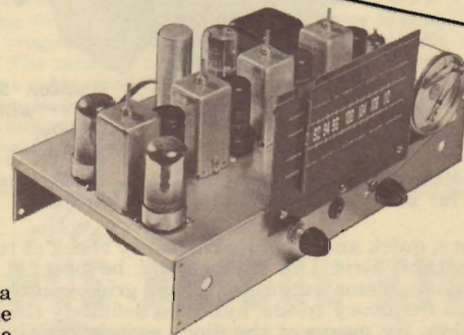
Proxylin impregnated fabric covered plywood cabinet available separately. Part No. 91-9. Shipping weight 5 lbs. Price **\$4.50**

Heathkit

FM TUNER KIT

The increasing popularity of home high fidelity systems has brought FM into its own. At a mere fraction of the cost of commercial tuners, you can construct your own with comparable results. The wide frequency response and low noise features make Model FM-2 popular in the home audio field as well as in schools and other beginner projects. It can be played into the high fidelity amplifier as well as through the phono section of the ordinary radio.

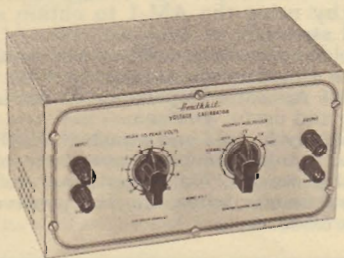
Completely AC operated, all AC-DC problems usually encountered in "economy type" tuners are eliminated. Model FM-2 features a tried and true 8 tube circuit with separate mixer and oscillator stages. 3 double tuned IF transformers followed by a carefully designed limiter-discriminator provide maximum sensitivity and selectivity across the full FM band of 88 MC to 108 MC. The tuning unit is factory built and adjusted, thus eliminating tedious "front end" alignment problems. The attractive slide rule dial and vernier tuning combine to make the Heathkit FM Tuner simple to operate and well suited for your music room.



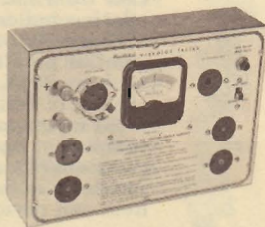
MODEL FM-2

\$22.50

Shipping Weight 9 lbs.



MODEL VC-2
Ship. Wgt. **\$11.50**
4 lbs.



MODEL VT-1 **\$14.50**
Ship. Wgt. 6 lbs.



MODEL PS-2 **\$33.50**
Ship. Wgt. 20 lbs.

Heathkit

VOLTAGE CALIBRATOR KIT

Peak-to-peak voltage measurements are very important in many TV and experimental circuits. After a simple calibration using an oscilloscope and VTVM, Model VC-2 Voltage Calibrator will accurately indicate peak-to-peak values from .01 to 100 volts without shifting of test leads.

In the signal position of the output multiplier switch, the signal by-passes the Voltage Calibrator. In any other position the output voltage is compared regardless of shape, to a known value for a direct peak-to-peak reading. No calculations are required.

Model VC-2 features an easy-to-read peak-to-peak scale, transformer operated and regulated power supply and very compact design. Physical size 8 1/2" wide x 4 3/8" high x 4 1/8" deep. Complete with instructions and all parts necessary for operation.

Heathkit

VIBRATOR TESTER KIT

This time saving device will quickly pay for itself in your auto radio service shop. 6 volt vibrators can be checked instantly on the good-bad type meter scale. It requires only a variable DC voltage from 4 to 6 volts at 4 amperes. Model BE-4 Battery Eliminator is highly recommended.

Five test sockets provide for the testing of hundreds of interrupter and self-rectifier types. Proper starting voltage is determined easily and accurately. Overall quality is then unmistakably indicated on the panel mounted meter.

Service time is an important factor to consider in the estimation of profit to be realized on a job. The Heathkit Vibrator Tester will reduce that time to a minimum by its ease of operation and accuracy in testing the major cause of auto radio failure.

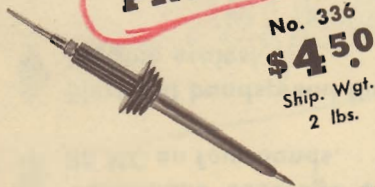
Heathkit REGULATED POWER SUPPLY KIT

Here is a source of regulated DC voltage for circuit development work. Power supply voltage and current drain to the circuit under test are constantly monitored by the 4 1/2" panel mounted meter. Model PS-2 also includes a 6.3 volt AC filament source at a rating of 4 MA.

Use the Heathkit Regulated Power Supply to furnish desired potentials for the plotting of tube characteristics, for many service problems as well as all types of experimental work. The regulated and variable output voltage will be constant over wide load variations as the ripple will not exceed .012% at 2 volts under a 50 MA load. Completely isolated circuit, stand-by switch and other desirable features make Model PS-2 extremely useful in a wide variety of applications.

Heathkit ACCESSORIES

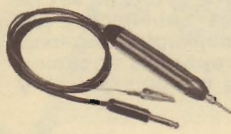
Heathkit 30,000 VOLT DC PROBE KIT



No. 336
\$4.50
Ship. Wgt.
2 lbs.

Measure up to 30,000 volts DC using the Heathkit VTVM and No. 336 high voltage probe. Voltage ranges are increased by a multiplication factor of 100 by the precision probe resistor valued at 1090 megohms. The handsome and functional probe assembly can be used with any Heathkit 11 megohm input resistance VTVM including the older 3 volt full scale models.

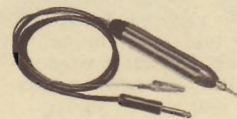
Heathkit PEAK-TO-PEAK PROBE KIT



No. 338-B
\$5.50
Ship. Wgt.
2 lbs.

Peak-to-peak values not exceeding 80 volts at a DC level of not more than 600 volts can now be read directly by using No. 338-B probe with the Heathkit VTVM. No conversion factors to consider. The frequency range of 5 KC to 5 MC makes No. 338-B probe extremely useful in TV service work. It features the new polished aluminum housings with polystyrene ends.

Heathkit R.F. PROBE KIT



No. 309-B
\$3.50
Ship. Wgt.
2 lbs.

The Heathkit R.F. Probe No. 309-B will permit the measurement of R.F. voltages up to 250 MC at an accuracy of $\pm 10\%$. The limits are 30 volts AC and a DC level of 500 volts. Designed for an 11 megohm input VTVM such as any one of the Heathkit models. The newly styled housing and the low capacity test lead readily adapts this important item to the modern service lab.

Heathkit LOW CAPACITY PROBE KIT



No. 342
\$3.50
Ship. Wgt.
1 lb.

An oscilloscope accessory, No. 342 probe permits observation of complex TV waveforms with no danger of distortion. An adjustable trimmer provides proper matching to any conventional scope input circuit. Excellent for high frequency, high impedance or broad bandwidth circuits. The attenuation ratio is variable and easily determined. You receive full instructions with the kit for its many uses.

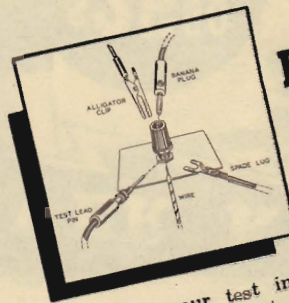
Heathkit SCOPE DEMODULATOR PROBE KIT



No. 337-B
\$3.50
Ship. Wgt.
1 lb.

Extend the usefulness of your oscilloscope by observing modulation envelopes of RF or IF carriers found in TV and radio receivers. Among other uses, the Heathkit Demodulator probe will be helpful in alignment work, as a gain analyzer and signal tracer. Applied voltage limits are 30 volts RMS and 500 volts DC.

Heathkit BINDING POST KIT



Modernize your test instruments. 20 complete binding post assemblies (10 red—10 black) will accommodate 5 different types of connections each. Takes alligator clips, banana plugs, test lead pins, hookup wire and spade lugs. Sold only in kits of 20. Shipping weight 1 lb. Binding Post Kit No. 362-A. Price \$4.00.

Heathkit TECHNICAL APPLICATION BULLETINS

TECHNICAL APPLICATION BULLETINS

Fifty-two 4-page bulletins prepared by recognized electronic writers are yours for a total price of \$2.00. The set includes loose-leaf binder and reference index. Normal and unusual uses for test instruments are fully described and illustrated. Strictly a customer service by The Heath Company. No C.O.D. orders for this item please. Shipping weight 3 lbs.



NEW Heathkit VARIABLE VOLTAGE ISOLATION TRANSFORMER KIT



MODEL IT-1
\$16.50
Ship. Wgt.
9 lbs.

Variable output between 90 and 130 volts AC. Rated at 100 volt-amperes continuously and 200 volt-amperes intermittently. Heavily protected against overload. Model IT-1 can be built in a few minutes and will provide a saving of countless work hours in the future. The principle function of the Heathkit isolation transformer is to isolate a circuit being tested from line interference caused by motors, appliances, etc. It works backwards too by isolating such devices from the line. Do not confuse Model IT-1 with the hazardous auto transformer type line voltage boosters. Use Model IT-1 at low and high voltages for customer demonstration of the effect of such conditions on TV receivers. Many other uses, especially with AC-DC type circuits will become apparent with the continued use of this fine instrument.

ALL HIGH QUALITY STANDARD BRAND COMPONENTS

HEATH company
BENTON HARBOR, MICHIGAN

precision electronic instruments in KIT form

Sec. 34.66, P. L. & R.

U. S. POSTAGE

PAID

Benton Harbor, Mich.

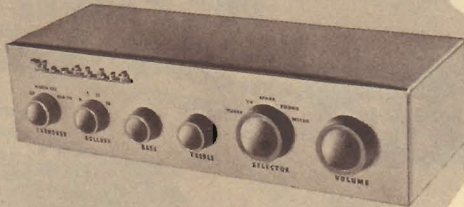
Permit No. 273

New

In this issue. Introducing the new Heathkit high fidelity Pre-amplifier Kit Model WA-P2.

5 Controlled inputs.
4 turnover and roll-off positions. 3 twin triode tubes. Here

is the greater versatility that you have requested. It's yours for the same old price. Makes your Williamson Type Amplifier better than ever.



FORM 3547 REQUESTED

MADE IN U.S.A.

Heathkit MODEL AR-2 COMMUNICATIONS RECEIVER KIT

What you get

- ▶ Continuous coverage 550 KC—35 MC on four bands.
- ▶ Electrical bandspread tuning with logging scales.
- ▶ R.F. gain control with AGC on-off switch.
- ▶ Phone-standby-CW panel switch.
- ▶ Separate BFO tube and circuit.
- ▶ Pre-wound coils in a shielded turret assembly.



\$25⁵⁰

LESS CABINET
Ship. Wgt.
12 lbs.

Best
BUY!

RECEIVER
CABINET

Proxilin impregnated fabric covered plywood cabinet available separately. Part No. 91-10. Shipping weight 5 lbs. Price . . \$4.50

A good example of the ability of the Heath Company to produce top quality kit merchandise at ridiculously low prices. In Model AR-2 Communications Receiver you enjoy all the advantages of much more expensive sets without the disadvantages usually found in economy-priced units. Model AR-2 is transformer operated which in itself is unusual in this price range.

In addition to the separately listed features, the Heathkit Communications Receiver employs high-gain, miniature tubes and IF transformers, chassis mounted 5½" P.M. speaker, headphone jack, slide rule dial with ham bands plainly identified and

easy tuning with direct planetary drive. The tube line-up as follows: 12BE6 mixer-oscillator, 12BA6 I.F. Amplifier, 12AV6 detector—1st audio, 12A6 beam-power output, 12BA6 BFO and 5Y3 rectifier.

Model AR-2 has been designed for extreme sensitivity and selectivity. A lettered control plate is provided for the cabinet of your choice or you can order the optional Heathkit cabinet featuring the full size aluminum panel.

High quality parts, sound engineering and simplified construction procedure assures complete satisfaction with this very popular Heathkit.

OUTSTANDING COMMUNICATIONS RECEIVER PERFORMANCE