

A. L. THOMPSON



Heathkit
**SPECIFICATIONS
and SCHEMATICS**



HEATH COMPANY... BENTON HARBOR, MICH.

HEATHKIT SPECIFICATIONS AND SCHEMATICS is intended to provide reference information and to answer your questions pertinent to Heathkit design.

The Heath Company has always freely offered schematics and technical information in the sincere belief that the material is interesting and will prove helpful to many.

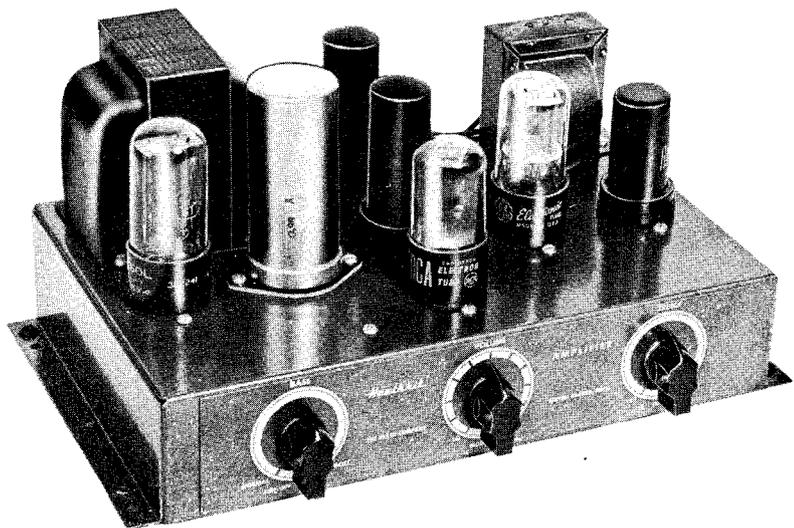
Heathkit pioneering in the electronic instrument kit field has resulted in the availability of a wide selection of useful well-designed, low cost electronic kit form equipment. Heathkits fulfill a major need in electronics and have been directly responsible for further stimulating interest particularly among electronics enthusiasts whose activity might be discouraged because of high equipment cost.

The combination of careful engineering, complete and detailed instruction manuals, use of highest quality components and exacting machine work in forming and punching of panels and chassis all combine to produce accurate, dependable test equipment which is a pleasure to construct and truly professional in appearance.

The advantages of constructing kit form test equipment are numerous. The builder saves the major portion of the cost of factory built equipment and becomes better acquainted with the circuitry and operation of the unit thereby gaining that important knowledge that will help him use the instrument far more intelligently over a wider range of applications. Should maintenance or repair ever be needed, the knowledge gained in construction will permit the kit builder to easily put the unit back into proper operating condition without delay.

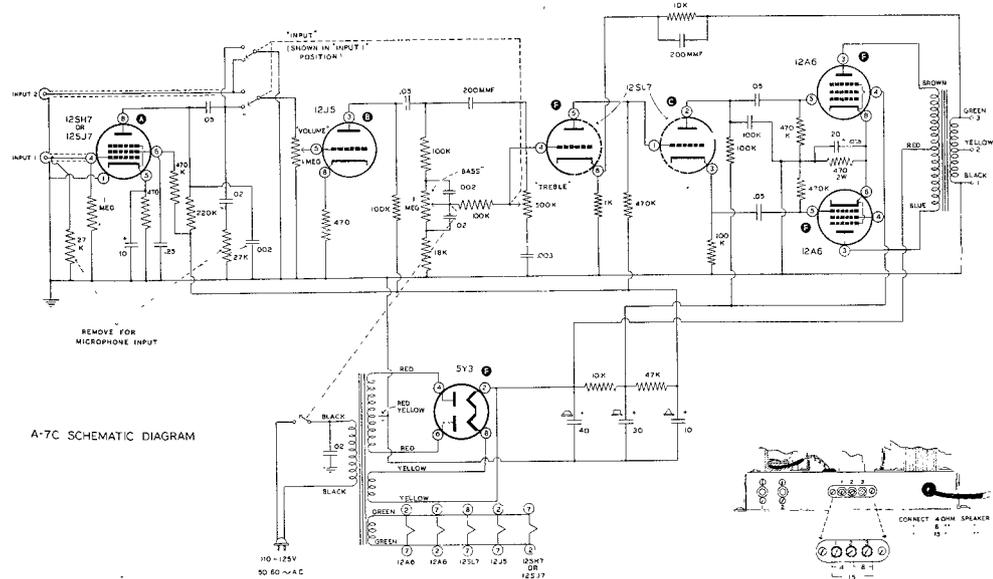
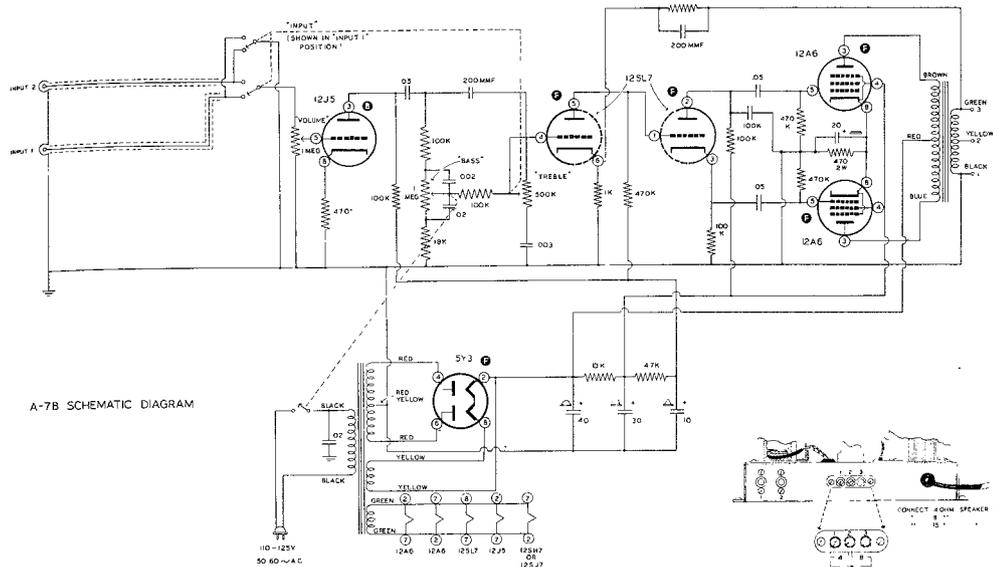
It always has been and it always shall be our sincere desire to produce the best possible kit form test equipment at the lowest possible cost. Furthermore, we are anxious to help the Heathkit user in any way and at all times for we want every Heathkit owner to receive the many years of excellent operation for which his kit was engineered.

HEATHKIT MODEL A-7B and A-7C AUDIO AMPLIFIERS



SPECIFICATIONS

Frequency Response.....	±1.5 db 20 to 20,000 cps
Power Output.....	6 watts
Tube Complement.....	1 - 12J5 First Amplifier 1 - 12SL7 Second Amplifier and Phase Splitter 2 - 12A6 Beam Power Output 1 - 5Y3 Rectifier 1 - 12SH7 or 12SJ7 Preamplifier (A-7C only)
Output Impedance.....	4, 8, or 15 ohms
Input Voltage.....	110-125 volts AC 50/60 cycles
Physical Specifications.....	11 1/2" wide, 5 1/4" high, 6 1/2" deep
Shipping Weight.....	10 lbs.



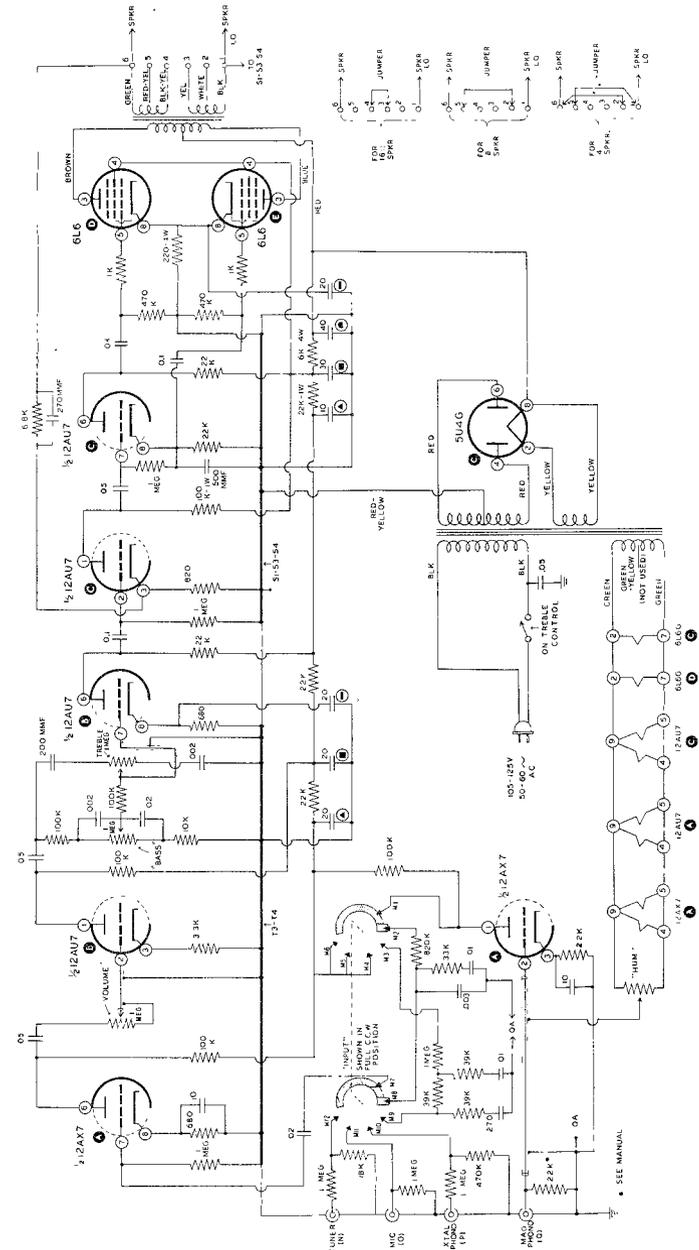
HEATHKIT AUDIO AMPLIFIER

MODEL A-9A



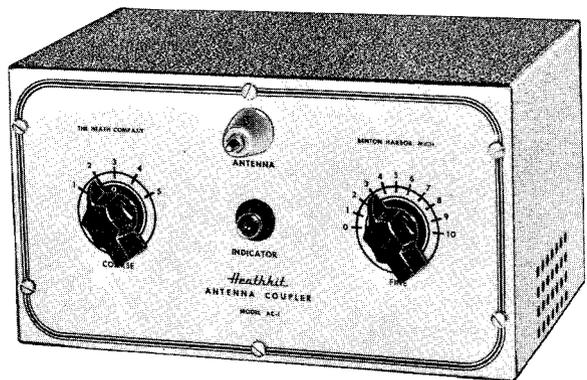
SPECIFICATIONS

Frequency Response.....	±1 db 20 to 20,000 cps
Power Output.....	20 watts
Total Harmonic Distortion.....	1% (at 3 db below rated output)
Input Requirements (for 15 watts output)	
Magnetic Phono Input.....	0.007 volts
Microphone Input.....	0.01 volts
Crystal Phono Input.....	0.08 volts
Tuner Input.....	0.6 volts
Tone Controls	
Bass (at 30 cps).....	15 db boost, 15 db cut
Treble (at 15 kc).....	15 db boost, 20 db cut
Power Requirements.....	100 watts, 105-125 volts 50/60 cycle AC
Tube Complement.....	12AX7 magnetic phono preamplifier and input amplifier 12AU7 voltage amplifier and tone control amplifier 12AU7 voltage amplifier and phase splitter Two 6L6G push-pull pentode power amplifiers 5U4G Rectifier
Dimensions.....	13 1/4" x 8 1/2" x 6 5/8" high
Shipping Weight.....	17 lbs.



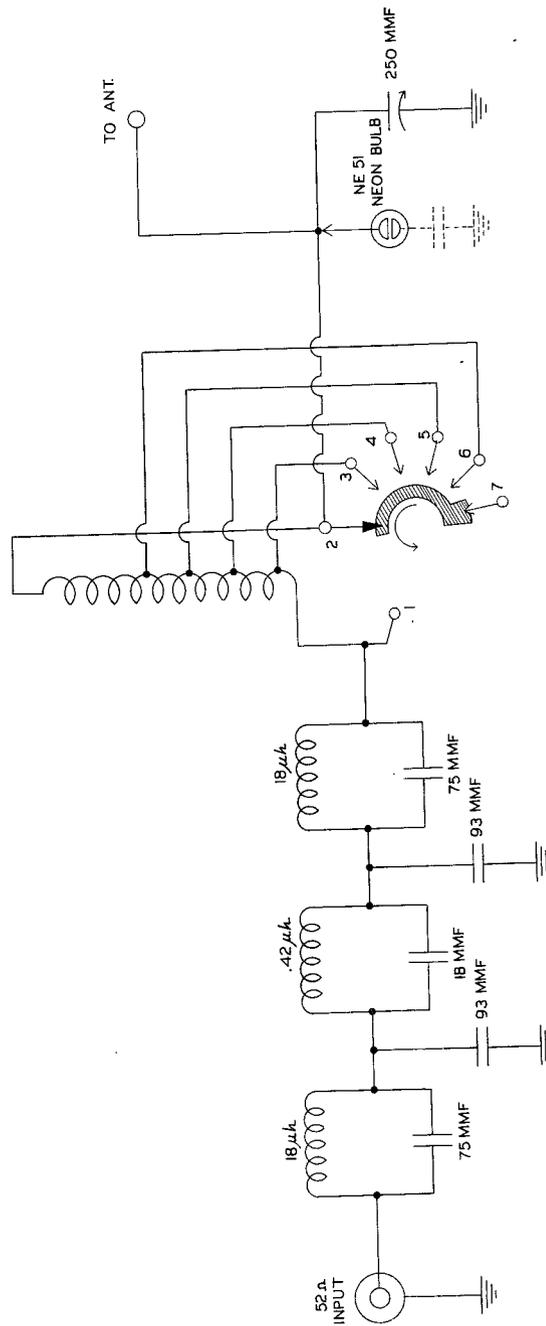
HEATHKIT ANTENNA COUPLER

MODEL AC-1



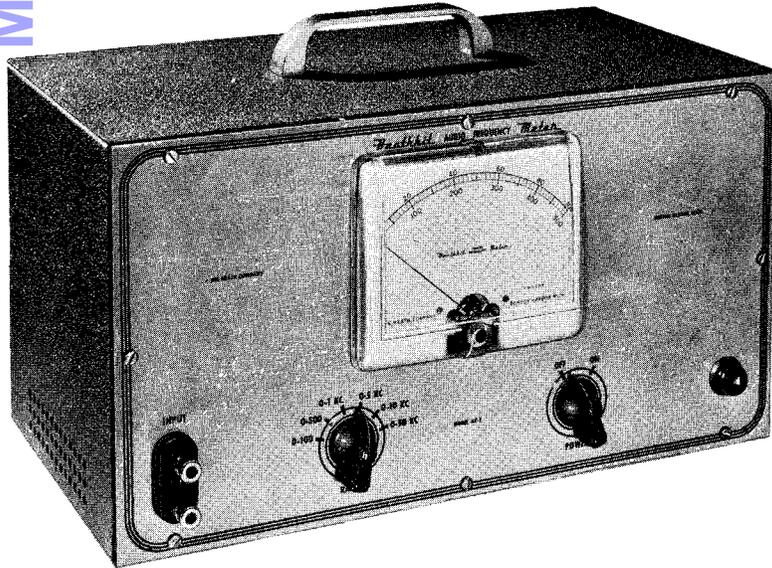
SPECIFICATIONS

Maximum RF Power Input.....	75 watt
Input Connection.....	52 ohm coaxial cable
Output Connection.....	Single-ended
Low Pass Filter Cut-off Frequency.....	36 megacycles
Dimensions.....	7 1/8" x 4 3/8" x 4 7/8"
Net Weight.....	2 lbs.
Shipping Weight.....	3 lbs.



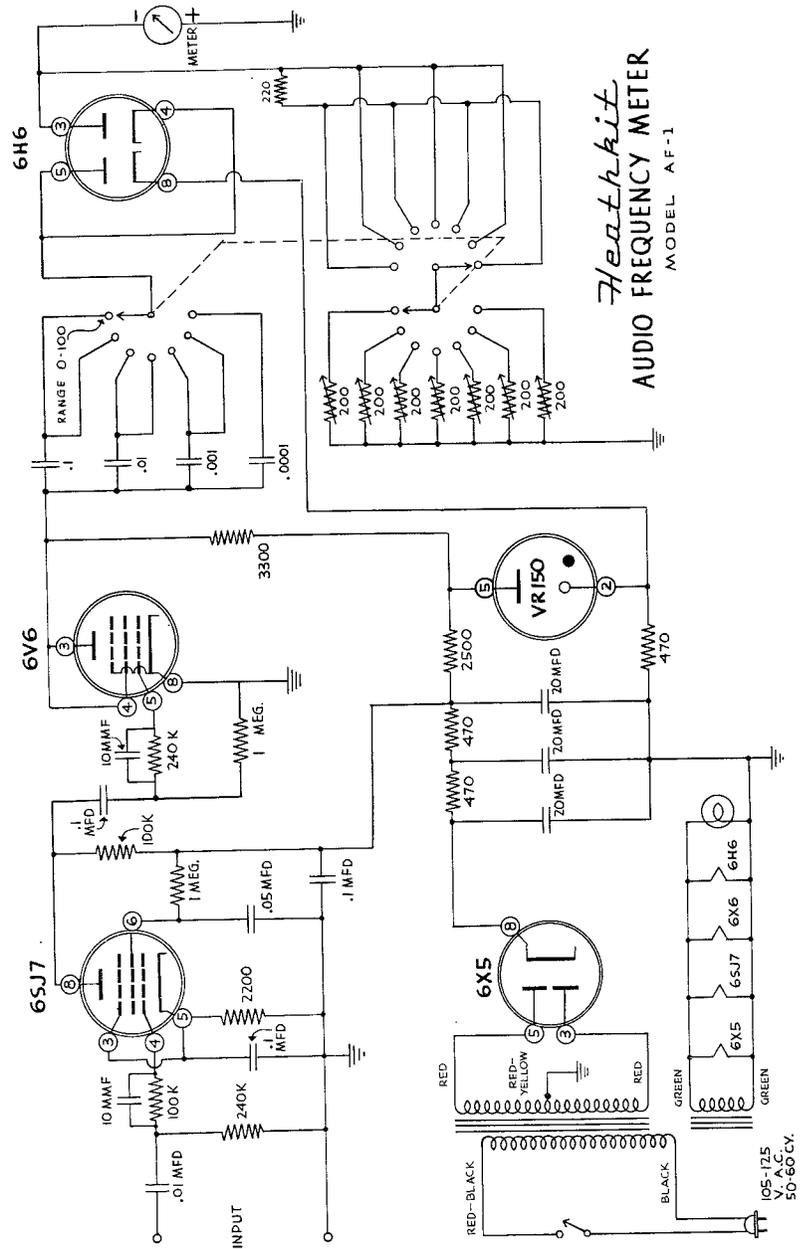
SCHMATIC ANTENNA COUPLER

HEATHKIT AUDIO FREQUENCY METER MODEL AF-1



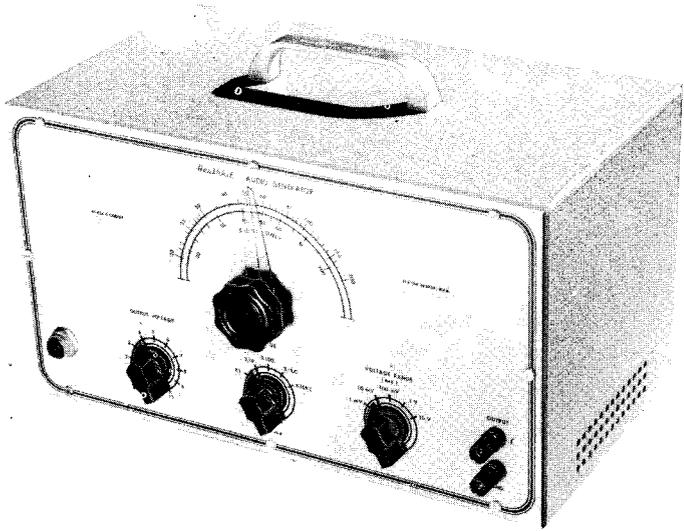
TECHNICAL SPECIFICATIONS

- Power Requirements: 105-125 V AC 50-60 cycles, 35 Watts
- Tube Complement: 1 - 6V6 1 - 6H6 1 - 6X5
1 - 6SJ7 1 - VR150
- Ranges: 0-100, 0-300, 0-1KC, 0-3KC, 0-10KC, 0-30KC, 0-100KC.
- Input: Impedance 250,000 Ohms at 1,000 CPS
Voltage 2-300 Volts RMS
- Physical Specifications: 12½" long x 7" high x 7½" deep, Shipping Wt. 12 lbs.



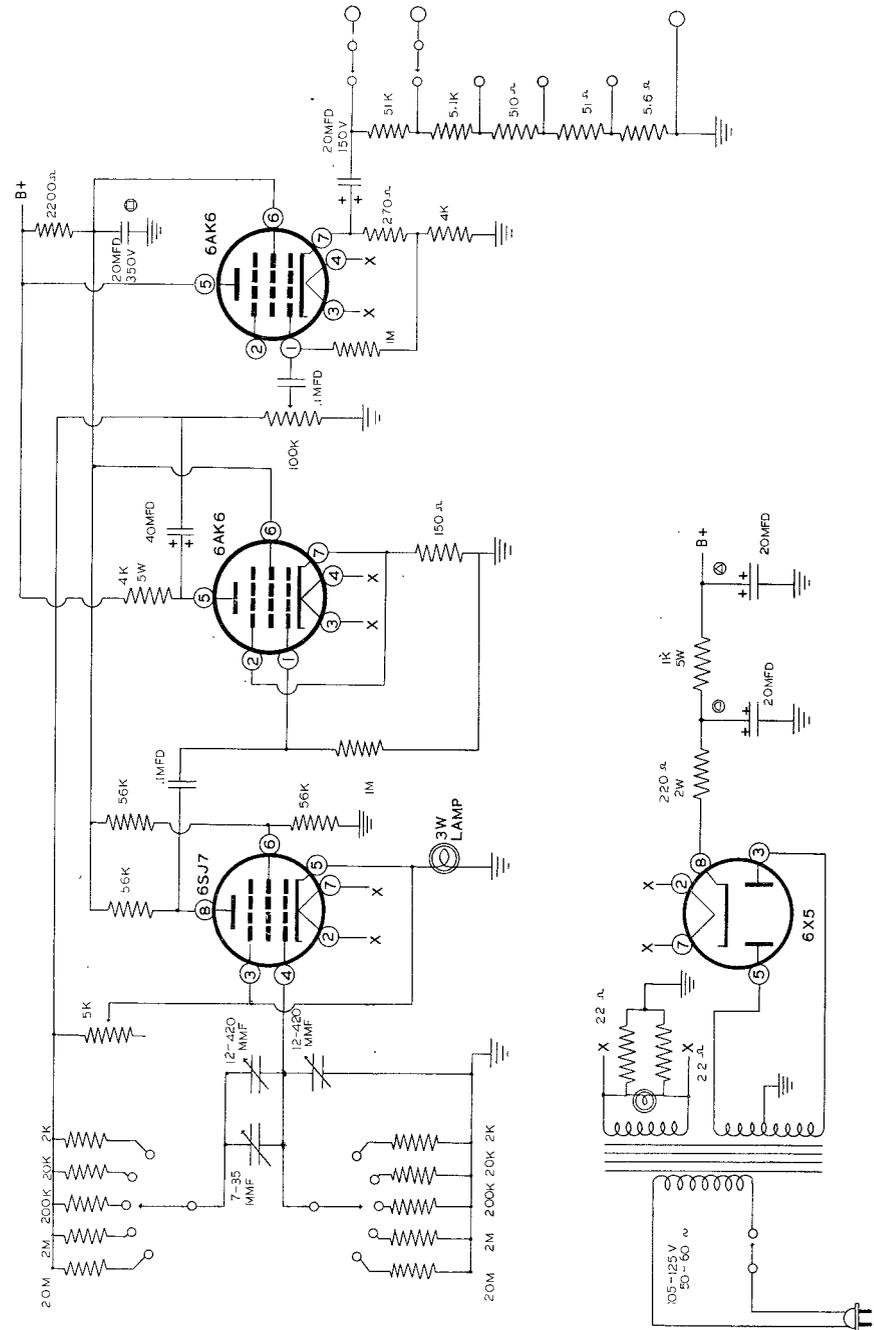
HEATHKIT AUDIO GENERATOR

MODEL AG-8

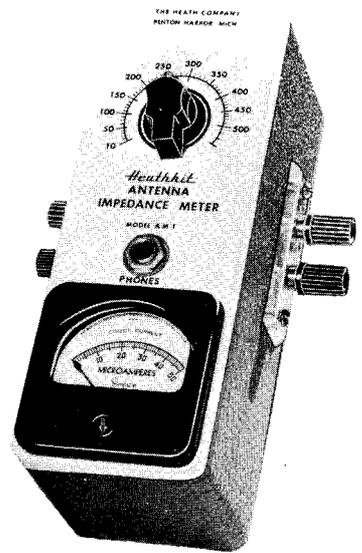


SPECIFICATIONS

Frequency range	20 cps to 1 mc in five ranges
Output voltage	10 volts (no load) plus or minus 1 db 20 cps to 400 kc; down 3 db at 600 kc; down 8 db at 1 mc.
Generator impedance	600 ohms
Distortion	less than 0.4%, 100 cps through audible range
Power requirements	30 watts, 105-125 volts 50-60 cycles AC
Dimensions	7½" high, 13¼" wide, 7½" deep
Shipping weight	15 lbs.

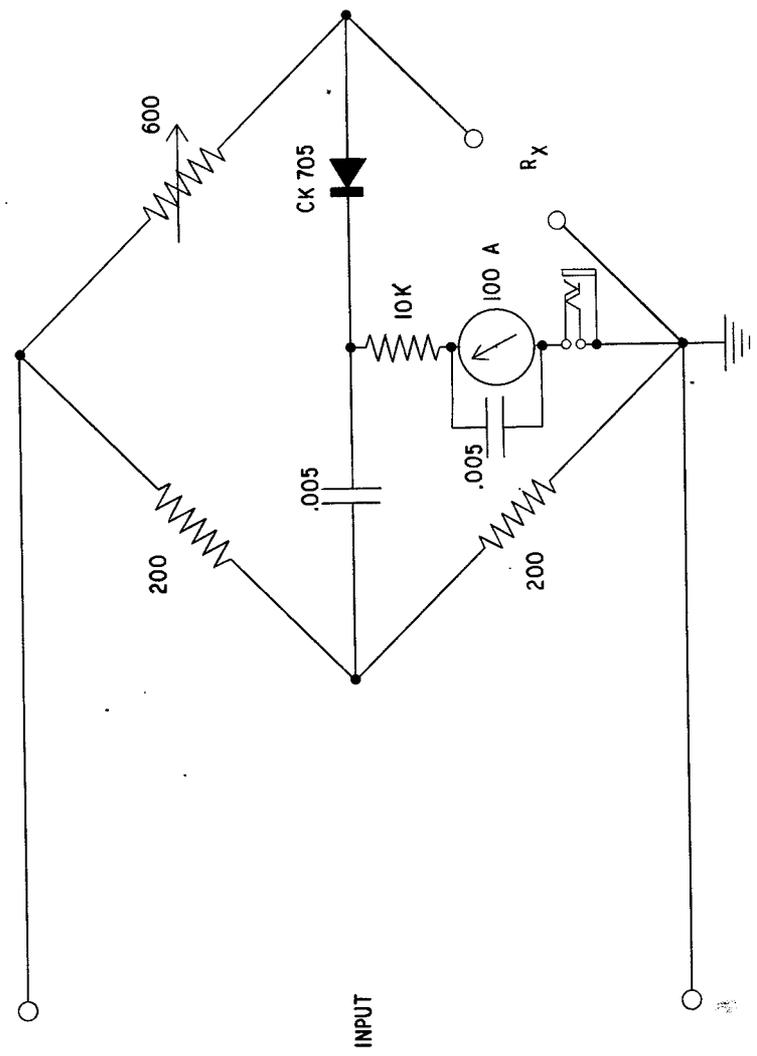


HEATHKIT ANTENNA IMPEDANCE METER MODEL AM-1



SPECIFICATIONS

- Frequency Range..... 0-150 megacycles
- Impedance Range..... 0-600 ohms
- Null Indicator..... 100 μ ampere meter
- Dimensions..... 2 1/2" x 3" x 7"
- Net Weight..... 1 lb.
- Shipping Weight..... .3 lbs.



ANTENNA IMPEDANCE METER SCHEMATIC

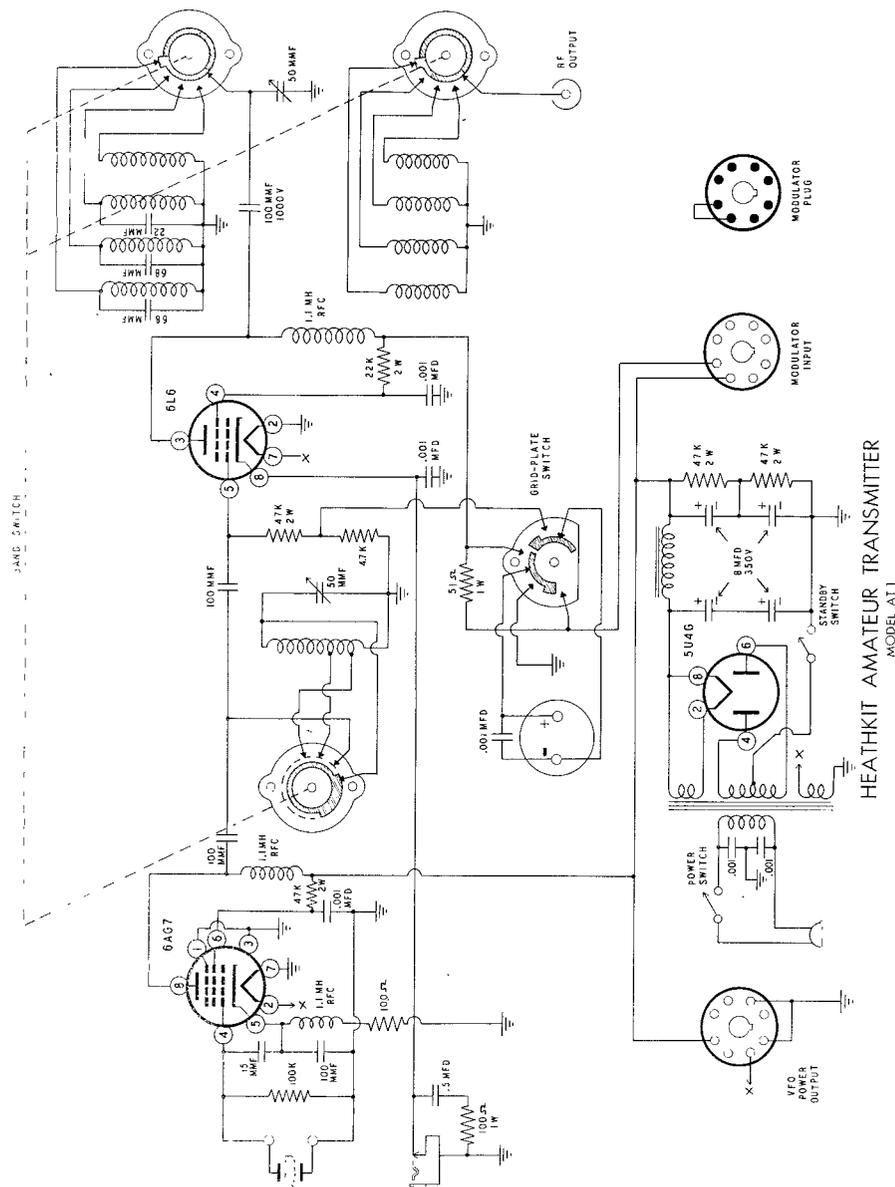
HEATHKIT AMATEUR TRANSMITTER

MODEL AT-1

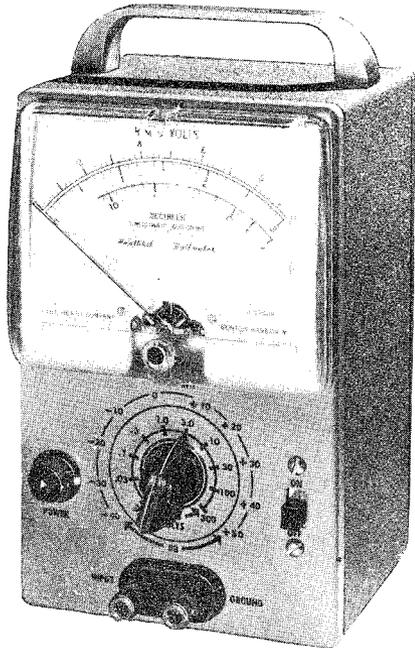


SPECIFICATIONS

RF Amplifier Power Input.....	25-30 Watts
Output Connection.....	52 Ohm Coaxial Cable
Oscillator Operation.....	Crystal, can be operated by a VFO
Amplifier Operation.....	CW, can be modulated for phone
Band Coverage.....	80, 40, 20, 15, 11, 10 Meters
Tube Complement	
5U4G.....	Rectifier
6AG7.....	Oscillator - Multiplier
6L6.....	Amplifier - Doubler
Power Requirements.....	105-125 50/60 Cycle, 100 Watts
Cabinet Size.....	8 1/8" high x 13 1/8" wide x 7" deep
Net Weight.....	13 lbs.

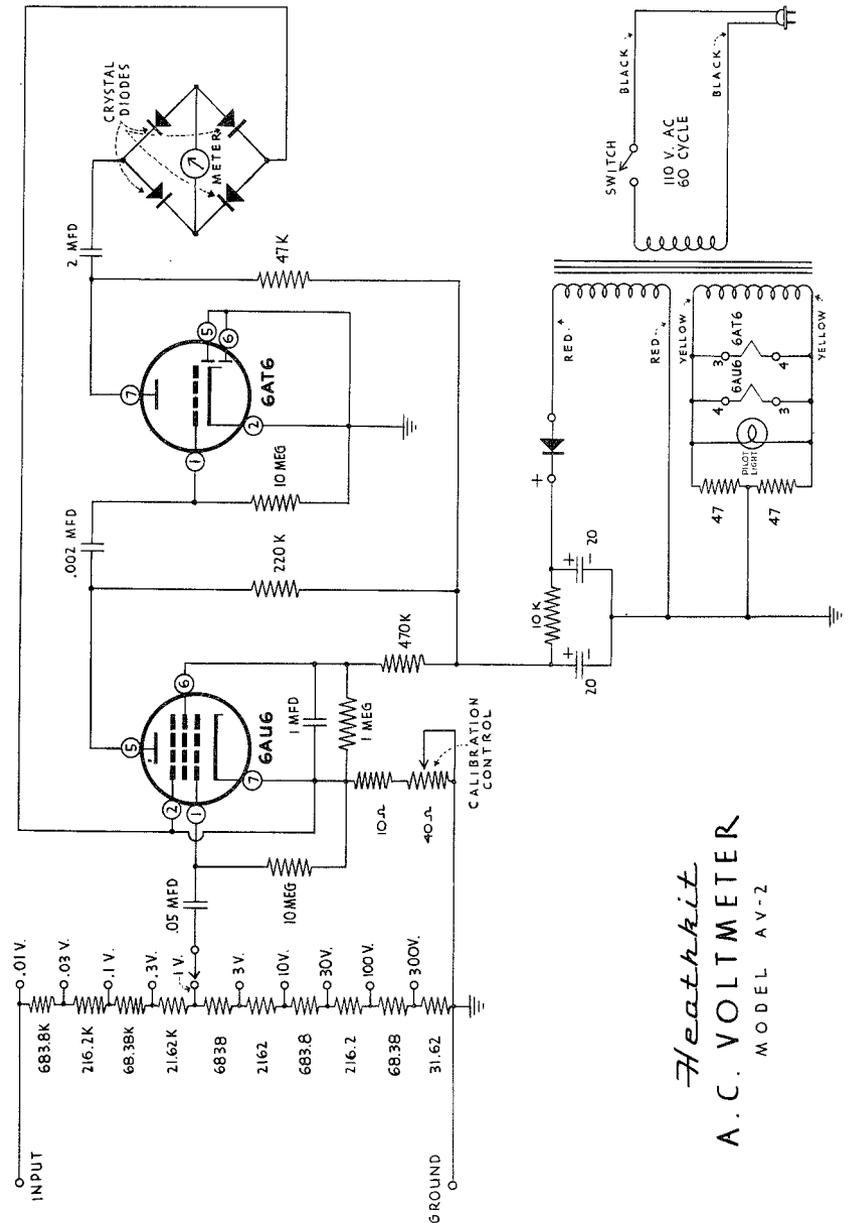
HEATHKIT AMATEUR TRANSMITTER
MODEL AT-1

HEATHKIT MODEL AV-2 A. C. VOLTMETER



Technical Specifications

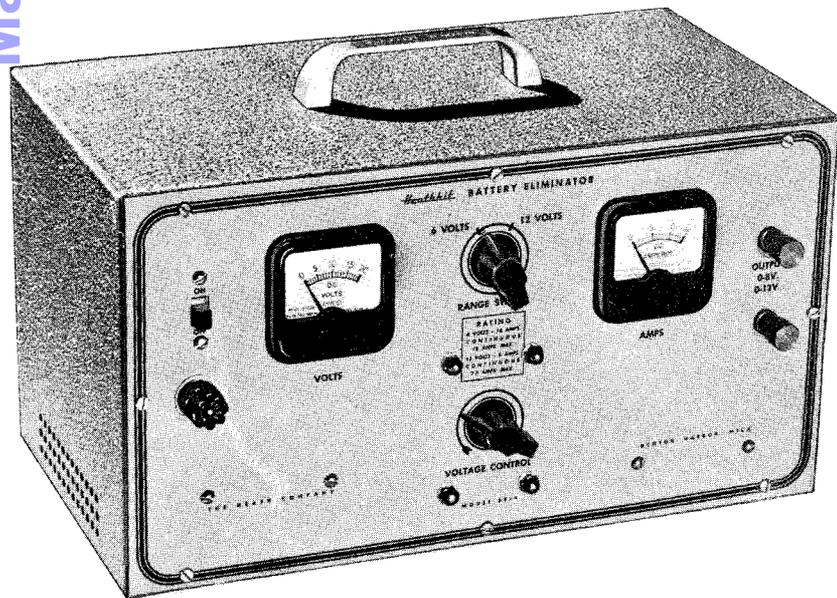
Power Requirement:	105-125V AC, 50-60 cycles, 10 Watts
Tube Complement:	1 - 6AU6 1 - 6AT6
Input Impedance:	1 Megohm at 1 KC
Ranges:	.01, .03, .1, .3, 1, 3, 10, 30, 100, 300 V RMS
Decibels:	Total range -52 to +52 db, scale -12 to +2 db. (1 MW - 600 ohm) ten switch selected ranges from -40 to +50 db.
Physical Specifications:	7-3/8" high x 4-11/16" wide x 4-1/8" deep
Net Weight 3 1/2 lbs.	Shipping Weight 5 lbs.



Heathkit
A.C. VOLTMETER
MODEL AV-2

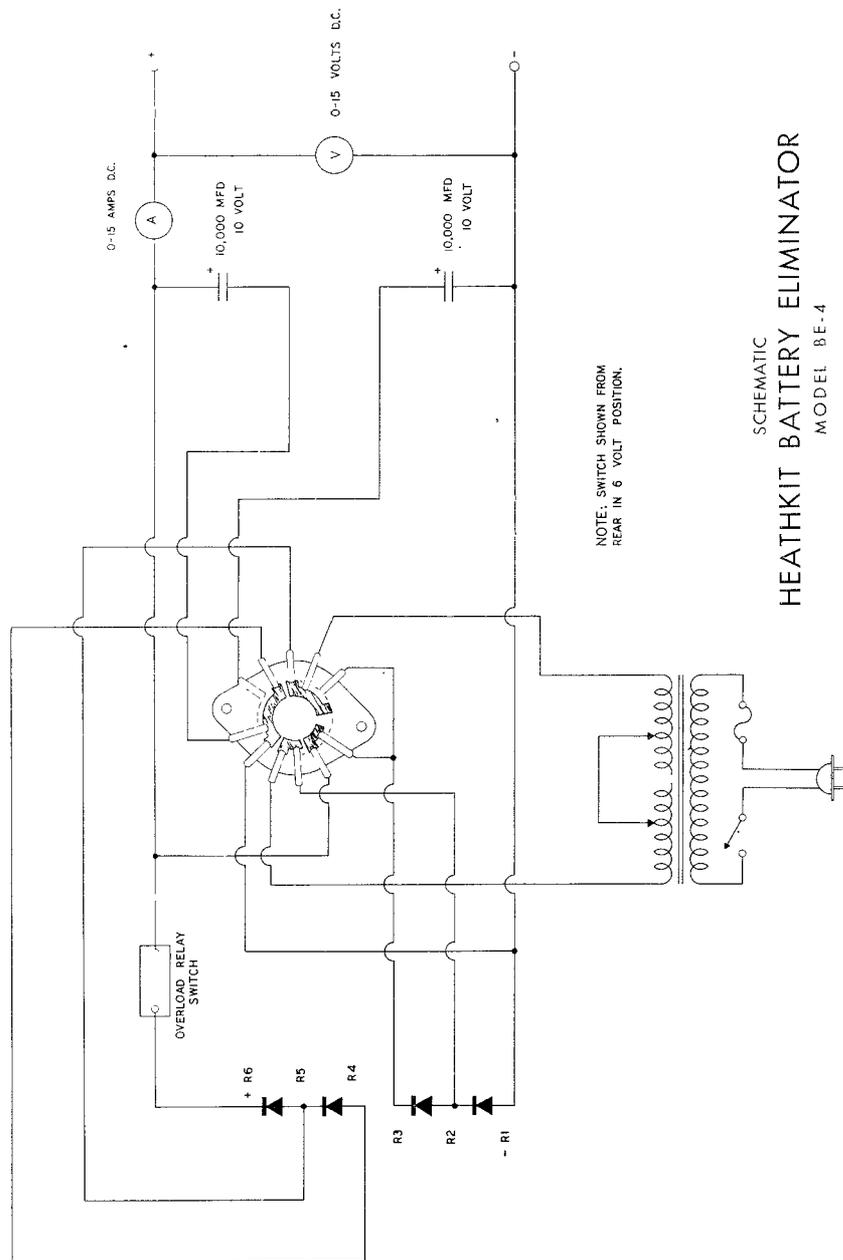
HEATHKIT BATTERY ELIMINATOR

MODEL BE-4



SPECIFICATIONS

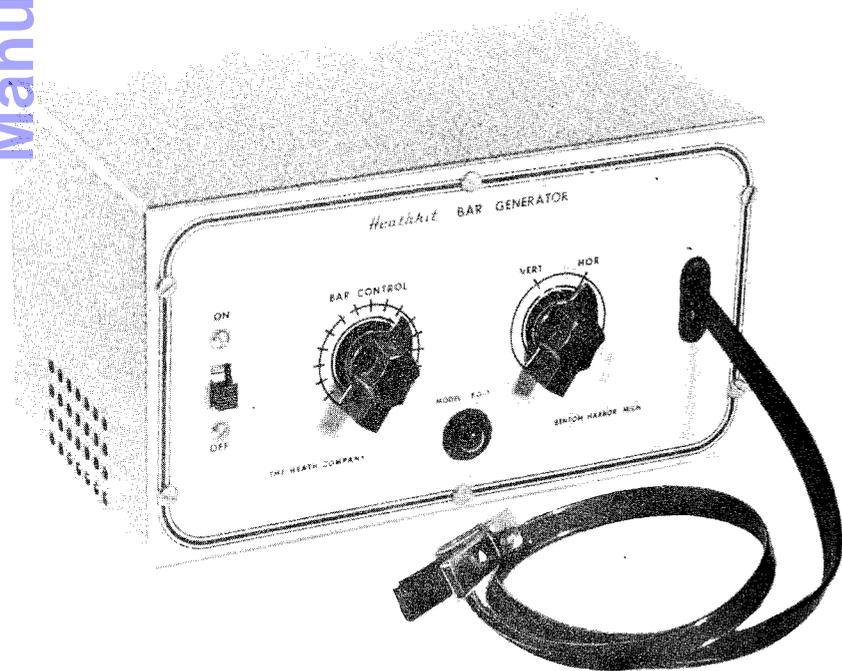
Continuously variable voltage output	
0-8 volts DC.....	10 amperes continuously
	15 amperes maximum intermittent
0-16 volts DC.....	5 amperes continuously
	7.5 amperes maximum intermittent
Power Requirements.....	105-125 V., 50-60 cycles AC at 175 watts
Dimensions.....	13 1/4" wide x 7 1/2" deep x 7 1/4" high
Approximate shipping weight.....	22 lbs.



SCHEMATIC
HEATHKIT BATTERY ELIMINATOR
MODEL BE-4

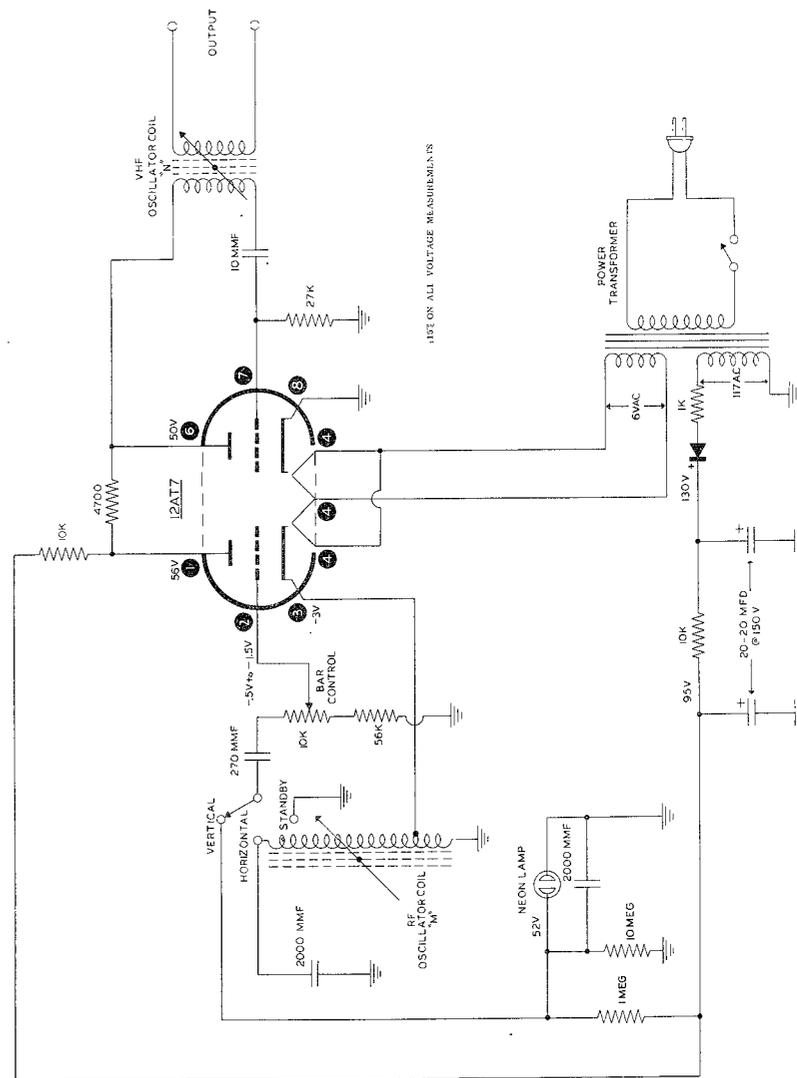
HEATHKIT BAR GENERATOR

MODEL BG-1

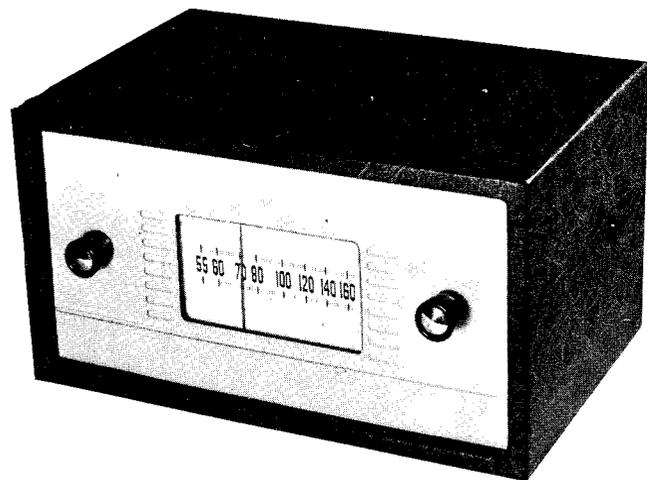


SPECIFICATIONS

Carrier Frequency.....	.60 to 80 megacycles
Modulating Frequencies	
Radio Frequency (Horizontal Linearity).....	113 to 172 KC
Low Frequency (Vertical Linearity).....	480 cps. (Approx.)
Output Voltage.....	100,000 microvolts
Tube.....	12AT7
Power Supply.....	Transformer operated half-wave selenium rectifier
Power Requirements.....	105-125 volts, 50-60 cycles AC
Dimensions.....	8 1/8" wide, 4 3/8" high, 4 7/8" deep
Shipping Weight.....	6 lbs.

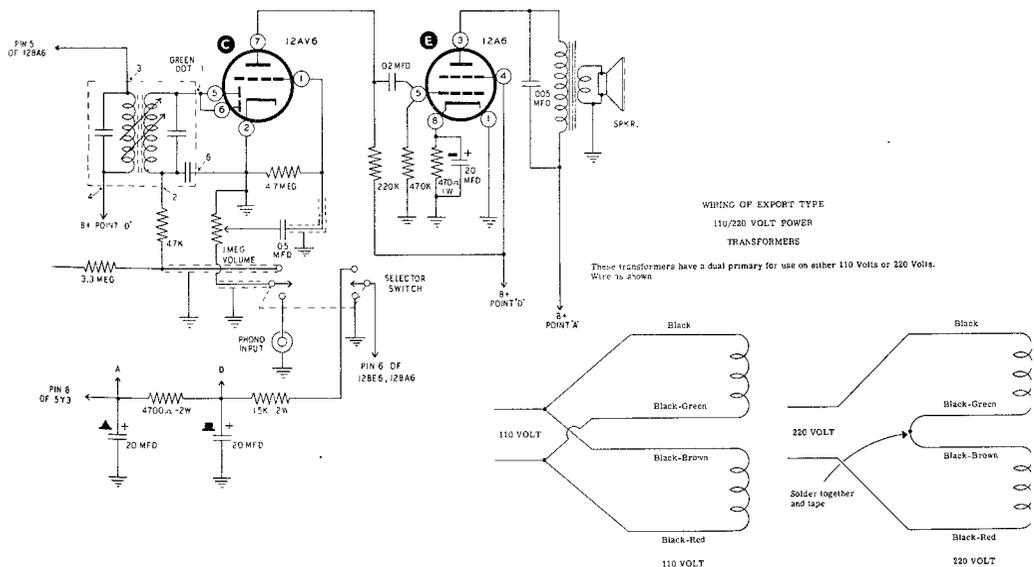
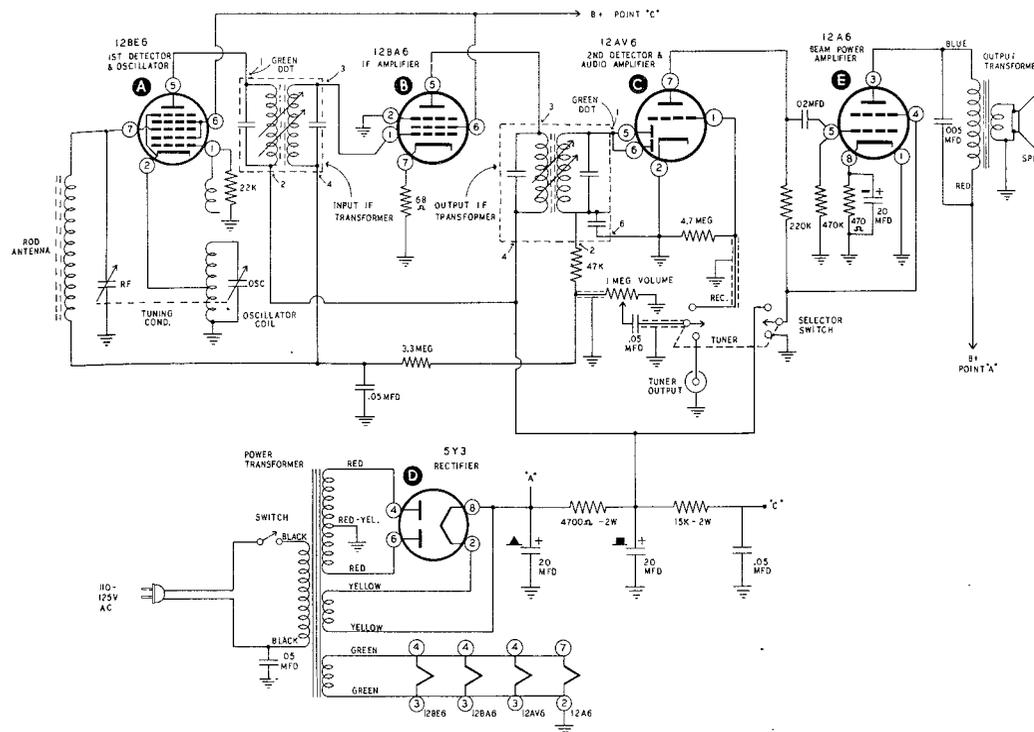


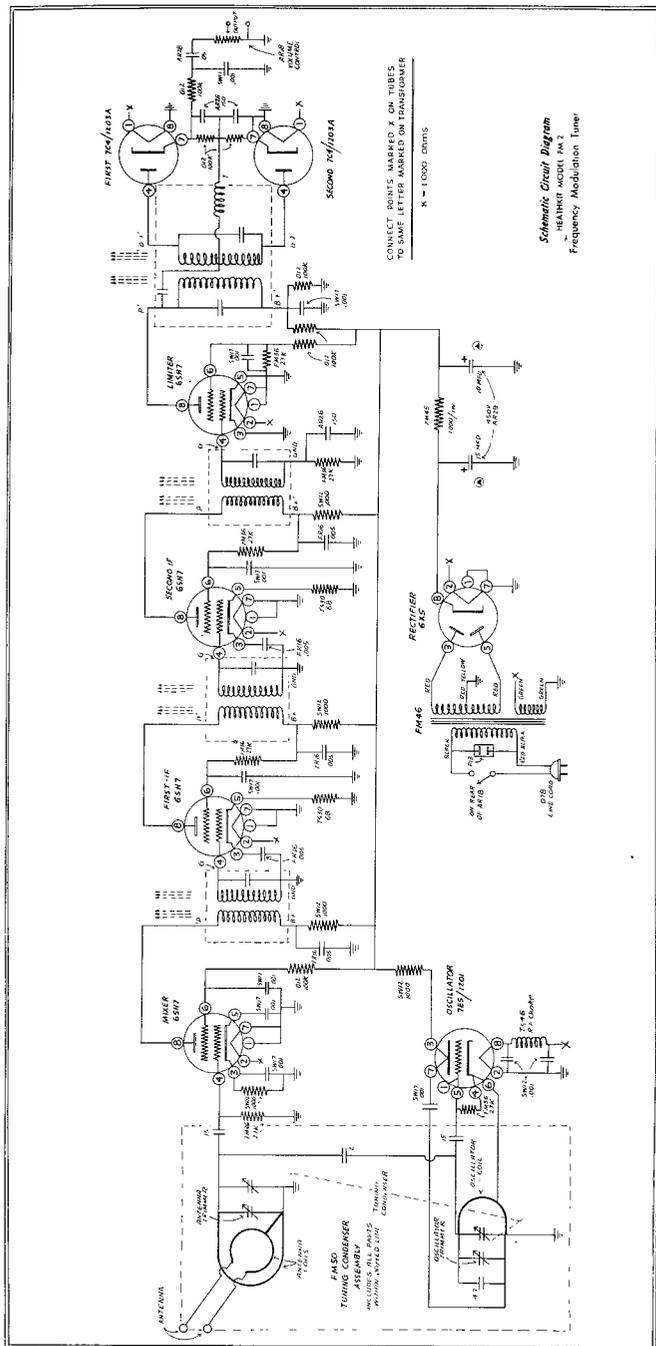
HEATHKIT BROADCAST BAND RECEIVER MODEL BR-2



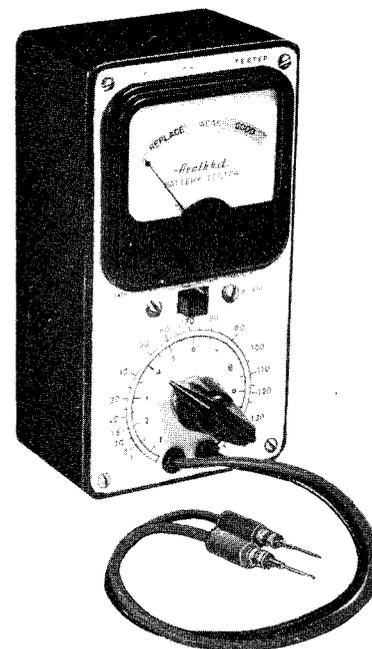
SPECIFICATIONS

Radio	
Tuning Range.....	550 kc to 1620 kc
I. F. Frequency.....	455 kc
Antenna.....	Built-in High Sensitivity Rod Type
Speaker (included).....	5 1/2" PM 4 ohm Voice Coil
Tuner Operation	
Output.....	High impedance to any amplifier input with resistance of 100,000 ohms or more. 110 V outlet provided for amplifier, phono player, etc.
Phonograph	
Input.....	1 megohm high impedance for optimum performance with any good quality crystal or ceramic phono pickup.
Tube Complement.....	
	1 - 5Y3 Rectifier
	1 - 12A6 Beam Power Amplifier
	1 - 12AV6 Detector, A.V.C. and Audio Amplifier
	1 - 12BA6 I. F. Amplifier
	1 - 12BE6 Pentagrid Converter
Power Requirements.....	105-125 V 50-60 cycles AC 40 watts
Dimensions.....	11 1/2" wide, 5 3/4" high, 6 3/4" deep





HEATHKIT MODEL BT-1 BATTERY TESTER

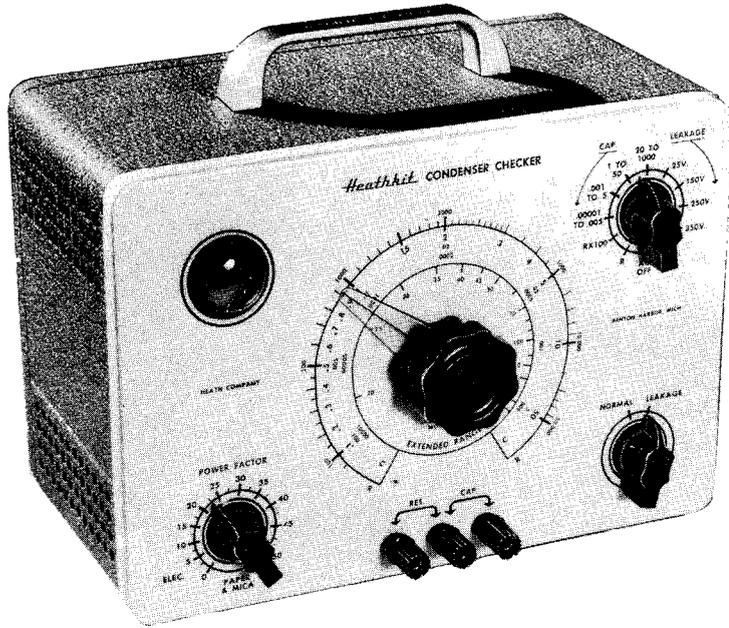


SPECIFICATIONS

HEATHKIT BATTERY TESTER MODEL BT-1

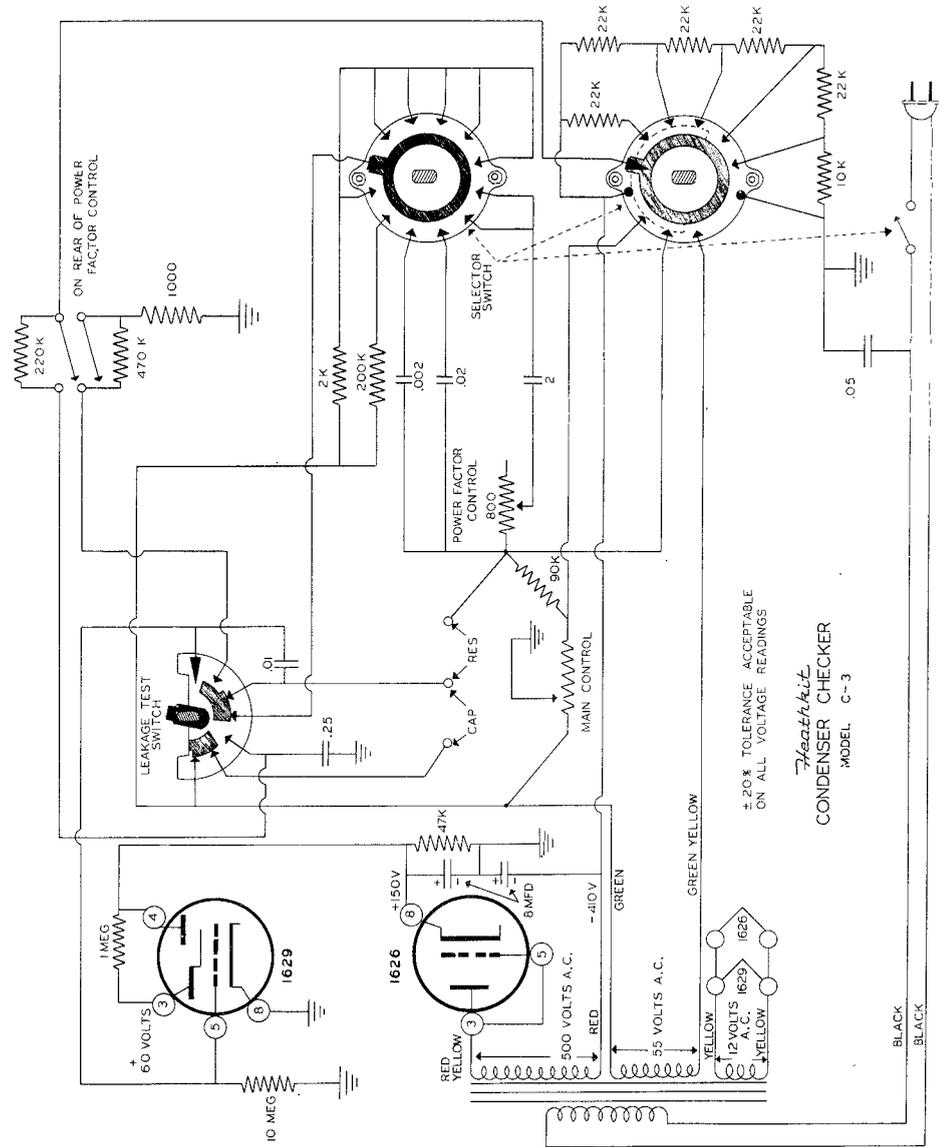
Test Ranges	0 to 15 volts 0 to 180 volts
Load Current	"A-Batt" Range 100 MA. "B-Batt" Range 10 MA.
Meter Indications	GOOD-WEAK-REPLACE
Size	Length 5 7/8", Width 3", Height 2 3/4"
Shipping Weight	3 Pounds

HEATHKIT CONDENSER CHECKER MODEL C-3



SPECIFICATIONS

Power Requirements:	110-125 volts, 50-60 cycles a-c
Cabinet Size:	9½" wide x 6½" high x 5" deep
Kit Shipping Weight:	7 pounds
Power Supply:	Power transformer—half wave rectifier
Capacity: 4 Ranges:	.00001 mfd - .005 mfd .001 mfd - .5 mfd .1 mfd - 50 mfd 20 mfd - 1000 mfd
D-C Leakage Test	
Polarizing Voltages: 5 Ranges:	25 volts d-c 150 volts d-c 250 volts d-c 350 volts d-c 450 volts d-c
Resistance Ranges: 2 Ranges:	100 ohms to 50,000 ohms 10,000 ohms to 5 megohms
Circuit:	A-c powered bridge for both capacitive and resistive measurements. Maximum opening of electron beam indicator denotes bridge balance.



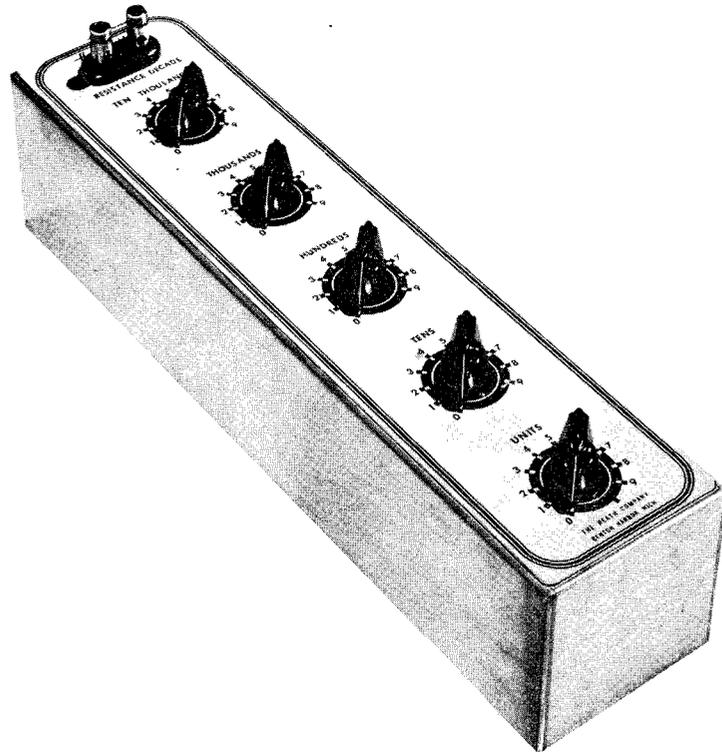
±20% TOLERANCE ACCEPTABLE
ON ALL VOLTAGE READINGS

Heathkit
CONDENSER CHECKER
MODEL C-3

HEATHKIT

MODEL DR-1

DECADE RESISTANCE KIT

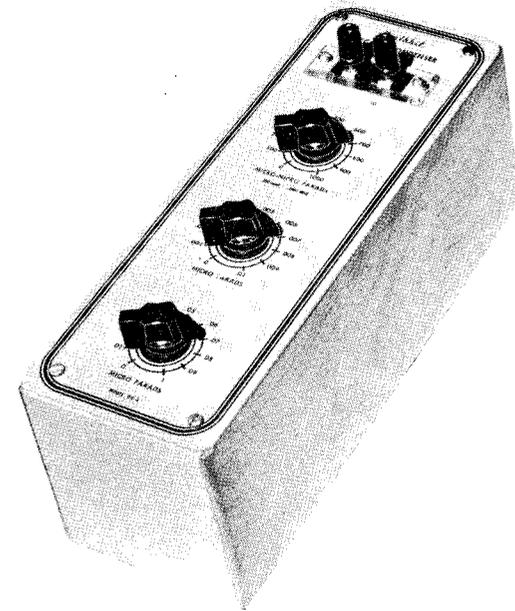


SPECIFICATIONS

Range.....	1 Ω to 99,999 Ω in one ohm steps
Components.....	Resistors: Precision - 1/2% accuracy Switches: Ceramic
Maximum Current.....	Units-----500 MA Tens-----150 MA Hundreds-----50 MA Thousands-----15 MA Ten Thousands-----5 MA
Dimensions.....	14 1/2" x 3 3/8" x 3 3/8" Birch Cabinet

HEATHKIT DECADE CONDENSER

MODEL DC-1

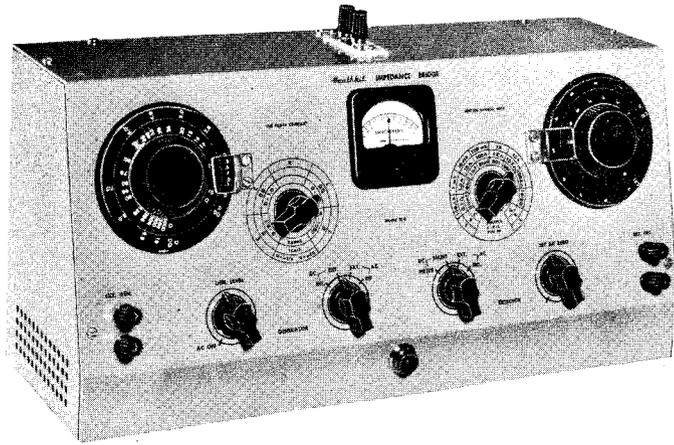


SPECIFICATIONS

Range.....	100 mmf. to 0.111 mfd. in increments of 100 mmf.
Voltage Rating.....	350 volts DC, continuous; 500 volts DC, intermittent, 1000 volts DC test.
Dielectric.....	Silver mica
Accuracy of Incremental Capacity.....	Plus or minus 1%
Zero capacitance.....	15 to 20 mmf. with all switches set at zero
Dimensions.....	3 3/4" wide, 4 3/4" high, 10 5/8" deep
Shipping Weight.....	4 lbs.

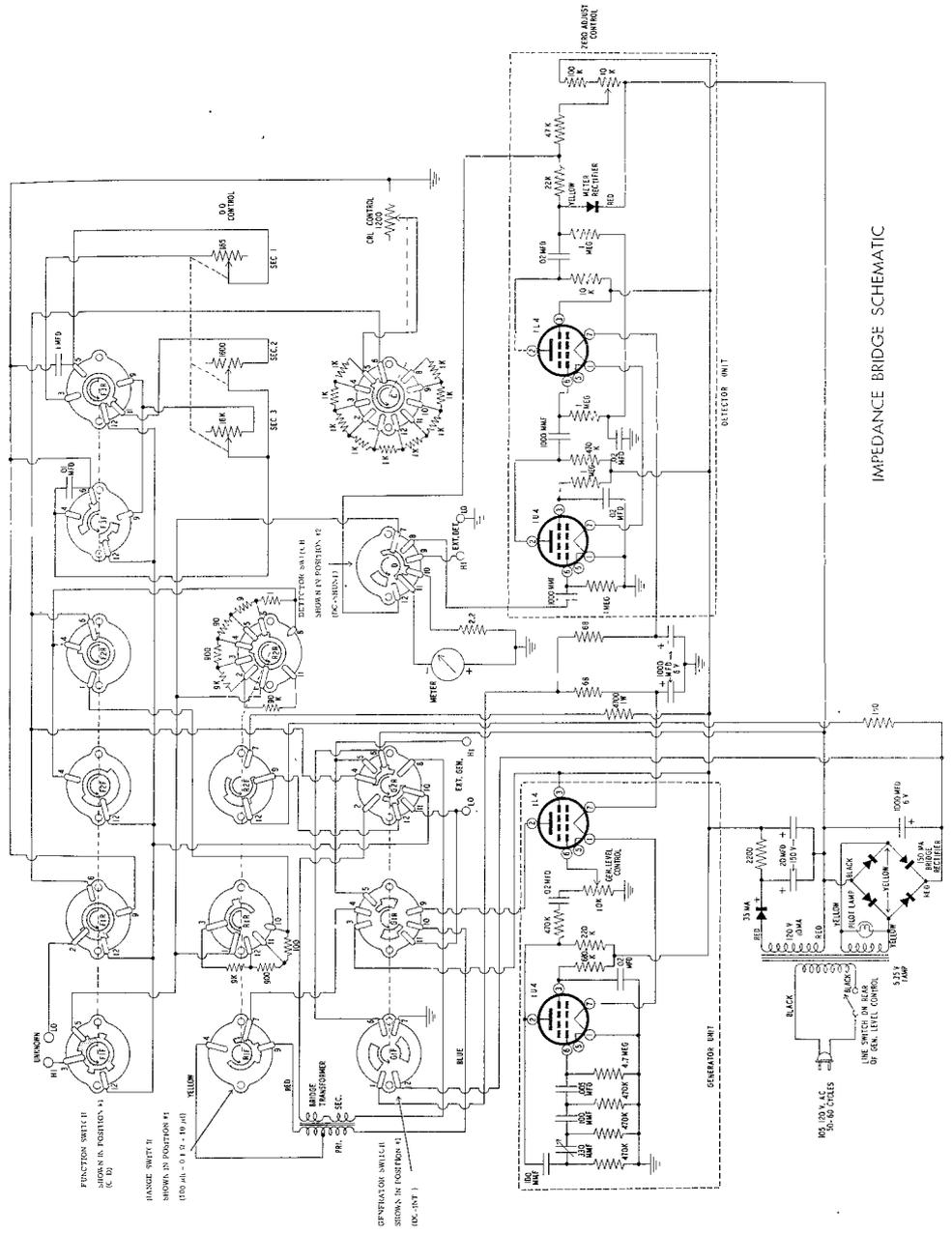
HEATHKIT IMPEDANCE BRIDGE

MODEL IB-2



SPECIFICATIONS

- Circuit..... 4-arm impedance bridge
- DC Measurements..... Built-in power supply operating directly from 110 V AC. Panel binding posts provide for use of external supply.
- Meter..... 100-0-100 microampere meter
- AC Measurements..... Built-in 1000 cycle vacuum tube oscillator. Terminals on panel provide for connecting an external generator for measurement at other frequencies.
- Detector..... Vacuum tube detector and rectifier make use of built-in meter. Panel binding posts provide for connection to external detector.
- Resistance..... 0.1 Ω to 10 megohm
- Capacitance..... 10 μmf to 100 μmf
- Inductance..... 10 μh to 100 h
- Dissipation Factor (D)..... 0.002 to 1
- Storage Factor (Q)..... 0.1 to 1000
- Accuracy..... 1/2 or 1% decade resistors used. 1/2 of 1% silver mica condensers used. Accuracy is limited more by interpretation of scales and workmanship of assembly. The following is normal:
 Resistance $\pm 3\%$
 Capacitance $\pm 3\%$
 Inductance $\pm 10\%$
 Dissipation Factor ($D=wCR$) $\pm 20\%$
 Storage Factor ($Q=wL/R$) $\pm 20\%$
 Accuracy will fall off at extreme outer limits.
- Power Requirements..... 105-125 volts, 50/60 cycles, 10 watts
- Tube Complement..... 2 - 1U4 and 2 - 11A
- Power Supply..... Power Transformer and Selenium Rectifier
- Cabinet Size..... 8" high x 17" wide x 6" deep
- Shipping Weight..... 15 lbs.



HEATHKIT ISOLATION TRANSFORMER

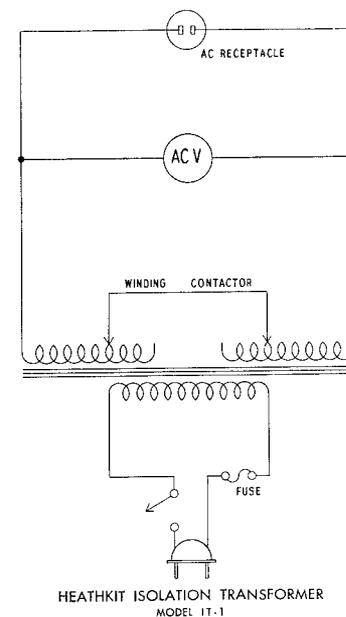
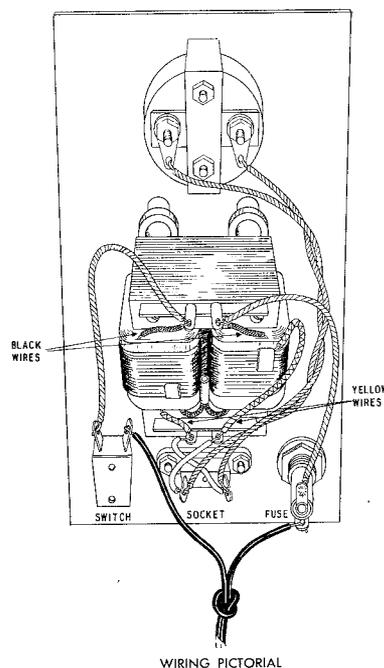
MODEL IT-1



APPLICATIONS

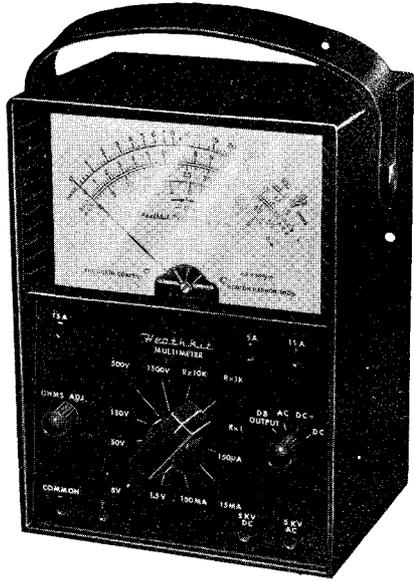
The Heathkit Isolation Transformer will fulfill a multitude of requirements in service shops. Not only will it provide isolation for universal or transformerless type radios and thereby eliminate shock hazard, it will also provide a means of increasing the AC voltage applied to the radio. In this manner, intermittent conditions of operation can be detected by applying higher than normal voltages and thereby inducing a breakdown in the component affected. While this does not necessarily represent the universal solution to intermittent operation difficulties, it will prove extremely helpful in eliminating some of the more common faults.

It is possible that many other applications of the Isolation Transformer will suggest themselves to the user; i.e. it can be used to isolate interference radiating devices from the AC line thereby reducing interference level. It can also be used in checking fluorescent lamp starters by determining the voltage level required for operation. Small motors or appliances may have their operating characteristics altered through the use of a variable voltage isolation transform-



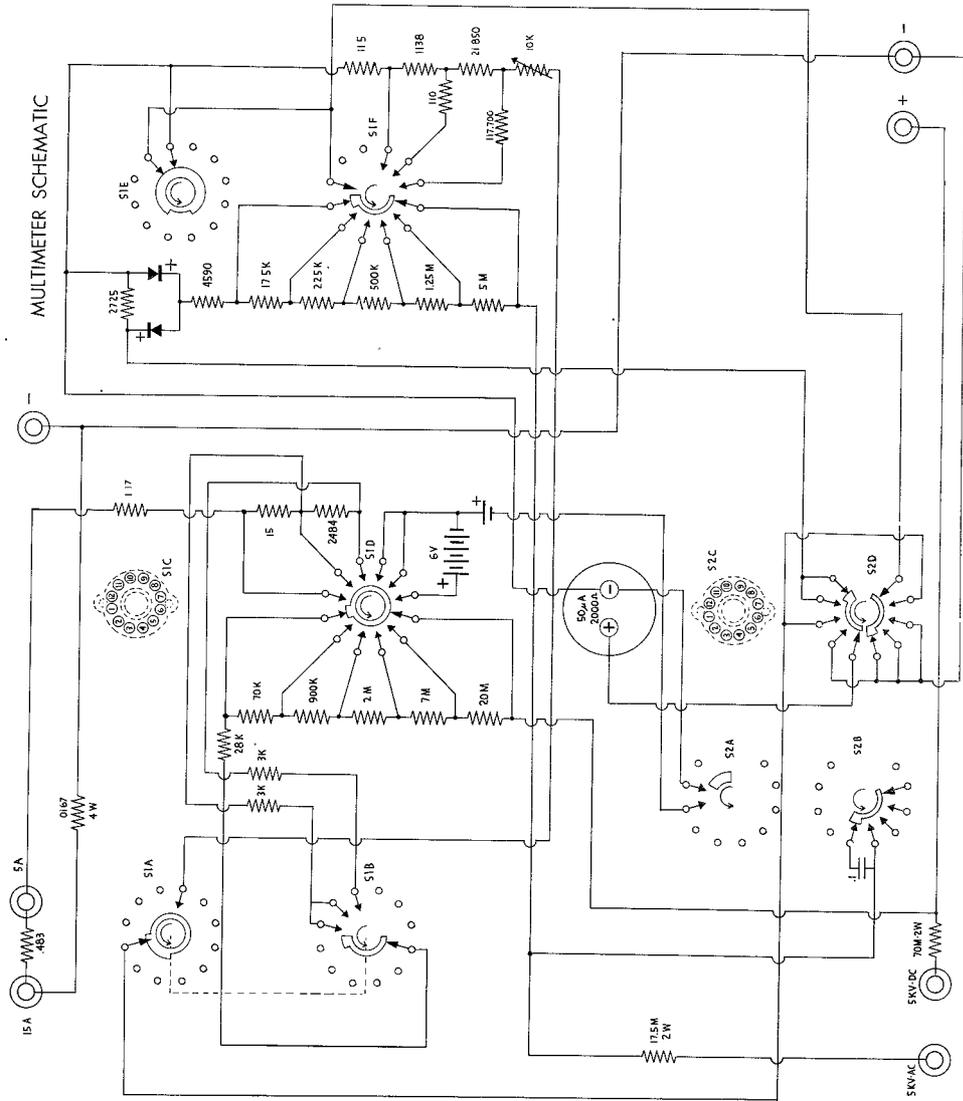
HEATHKIT MULTIMETER

MODEL MM-1

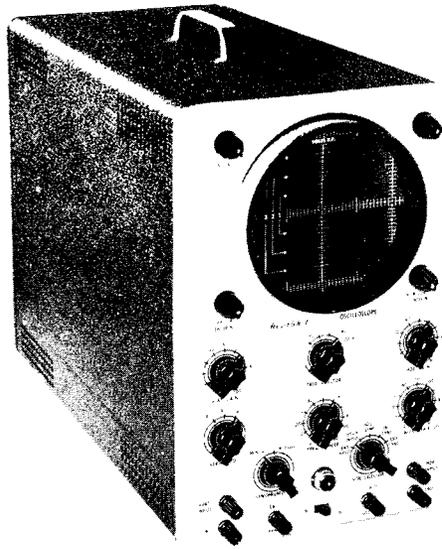


SPECIFICATIONS

Sensitivity.....	20,000 ohm/volt DC, 5000 ohm/volt AC
Range, DC Volts.....	1.5 - 5 - 50 - 150 - 500 - 1500 - 5000
Range, AC Volts.....	1.5 - 5 - 50 - 150 - 500 - 1500 - 5000
Range, Direct Current.....	150 microamperes, 15 - 150 - 500 milliamperes, 15 amperes.
Range, Ohmmeter.....	0.2 ohms to 20 megohms
Range, Decibels.....	-10 to +65 db
Resistors.....	1% precision type
Controls.....	Range switch, Output-AC-DC-Reverse DC switch, Ohms adjust control.
Batteries.....	1 type C cell, 4 Penlite cells
Cabinet.....	Black Bakelite
Dimensions.....	7 1/2" x 5 1/2" x 4"
Net Weight.....	4 lbs.
Shipping Weight.....	6 lbs.

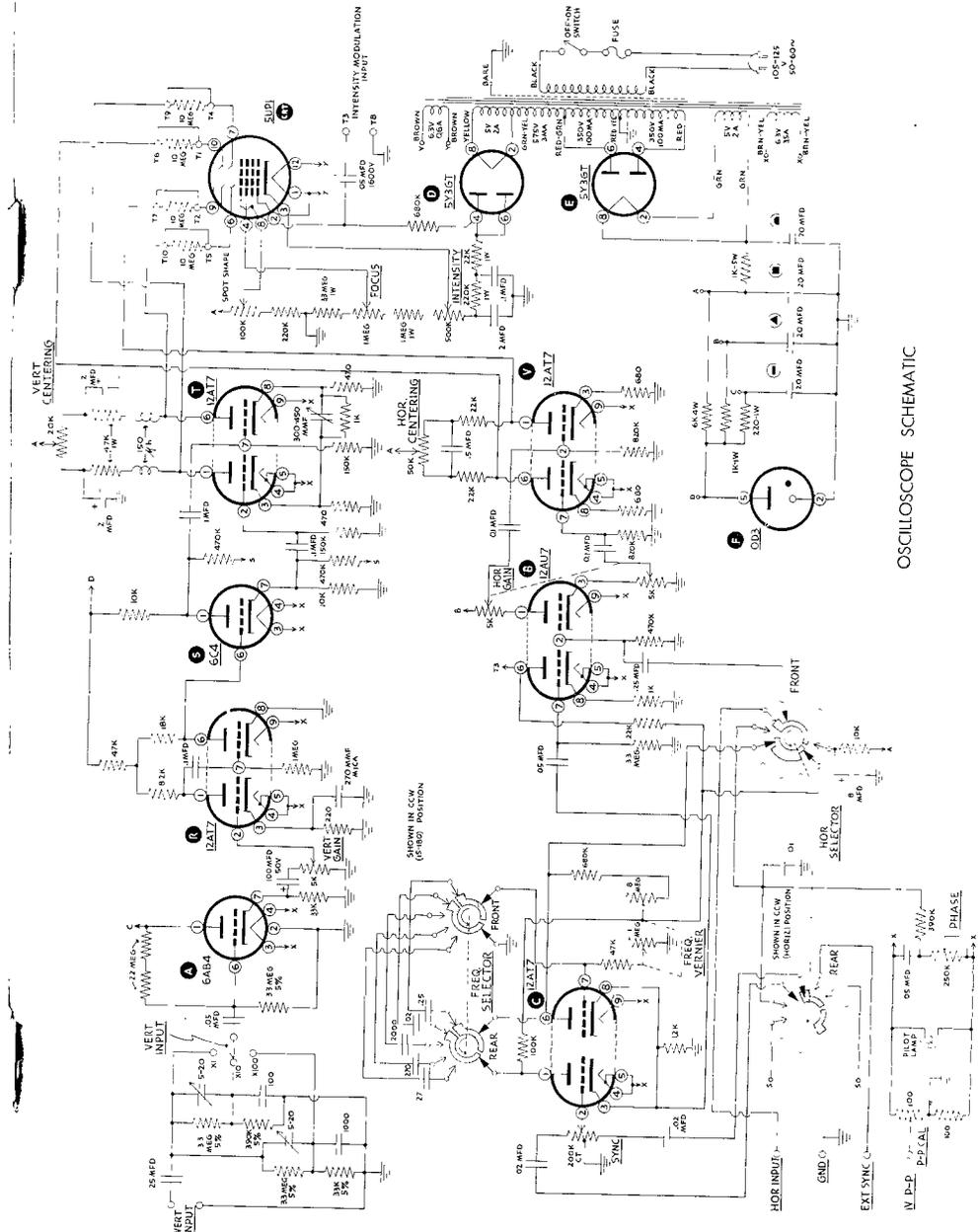


HEATHKIT OSCILLOSCOPE MODEL O-9



SPECIFICATIONS

Vertical: Frequency Response.....	±2 db 10 cycles to 2 mc
	±6 db 5 cycles to 3 mc
Sensitivity.....	0.025 volts per inch at 1 kc
Input Impedance.....	47 μmf shunting 2 megohm X1 position
	35 μmf shunting 2 megohm X10-100 position
Horizontal: Frequency Response.....	±6 db 10 cycles to 500 kc
Sensitivity.....	0.6 volts per inch at 1 kc
Input Impedance.....	25 μmf shunting 1 megohm
Sweep Generator.....	Multivibrator - frequency range of 10-50,000 cps
Tube Complement.....	1 - 5UP1 Cathode Ray Tube
	1 - 6AB4 Vertical Input
	1 - 12AU7 Horizontal Input and Blanking
	1 - OD3 Regulator
	1 - 6C4 Vertical Phase Splitter
	4 - 12AT7 Multivibrator, Vertical Cascade Amplifier, Horizontal and Vertical Deflection Amplifiers.
	2 - 5Y3GT Low and High Voltage Rectifiers
Power Requirements.....	105-125 volts 50/60 cycle, 70 watts
Dimensions.....	8 5/8" wide x 14 1/8" high x 16" deep
Net Weight.....	18 1/2 lbs.
Shipping Weight.....	26 lbs.



OSCILLOSCOPE SCHEMATIC

HEATHKIT RECORD PLAYER

MODEL RP-1

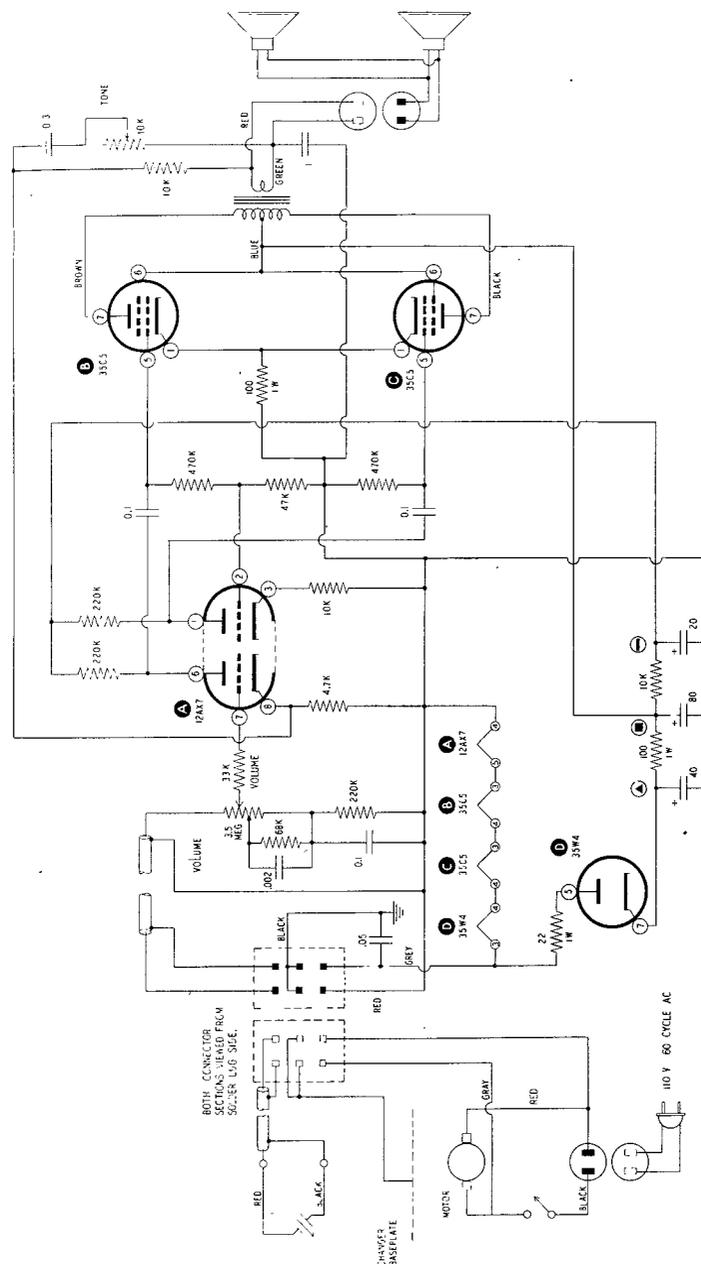


AMPLIFIER SPECIFICATIONS

Tube Complement.....	12AX7 Voltage Amplifier and Phase Splitter 2 - 35C5 Push-Pull Power Amplifiers
Controls.....	Compensated Volume Control Separate Tone Control
Power Requirements.....	117 volt 60 cycle AC, 45 watts

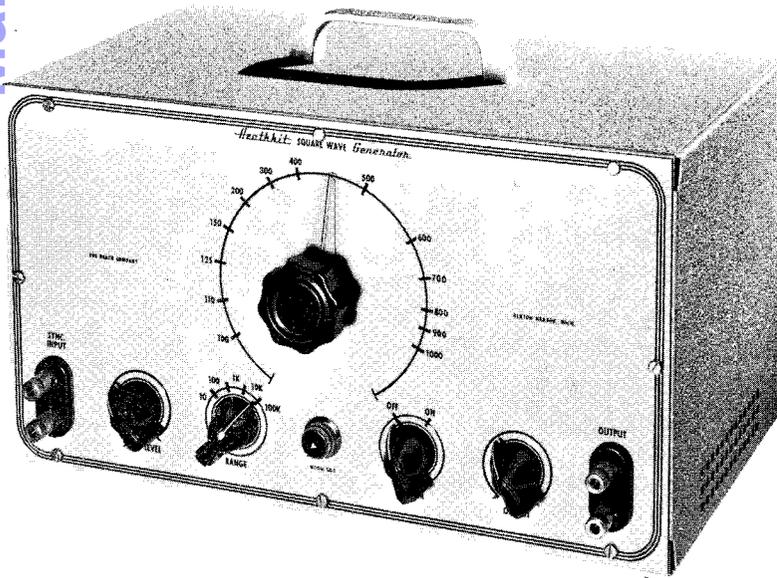
FEATURES

Record Changer.....	Three speed, Automatic shut-off
Speakers.....	2 - 6" matched
Cabinet.....	Proxilyn Impregnated Fabric Covered
Dimensions.....	16 3/4" x 12 1/4" x 10 1/2" high
Shipping Weight.....	30 lbs.



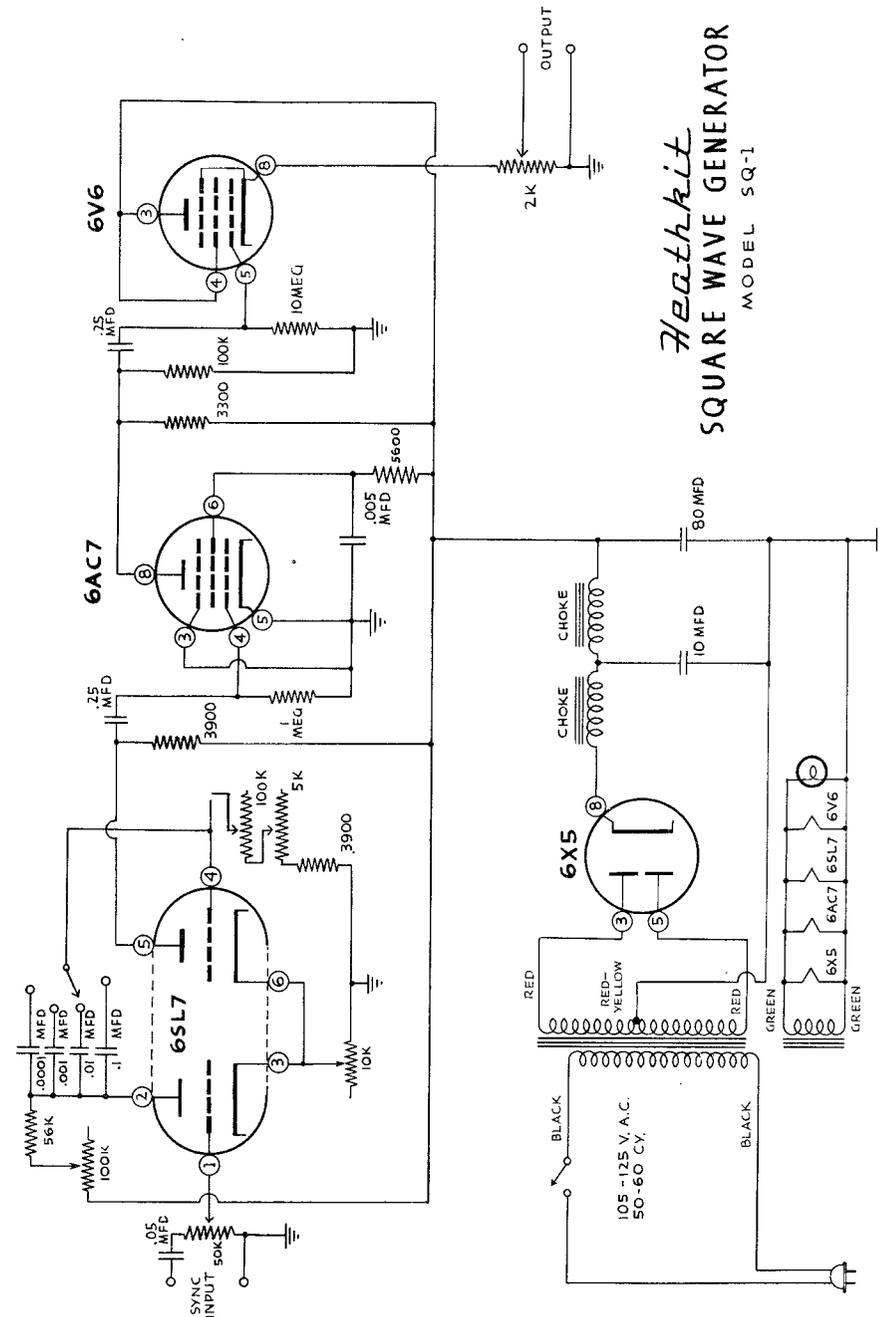
HEATHKIT RECORD PLAYER
MODEL RP-1

HEATHKIT SQUARE WAVE GENERATOR MODEL SQ-1



TECHNICAL SPECIFICATIONS

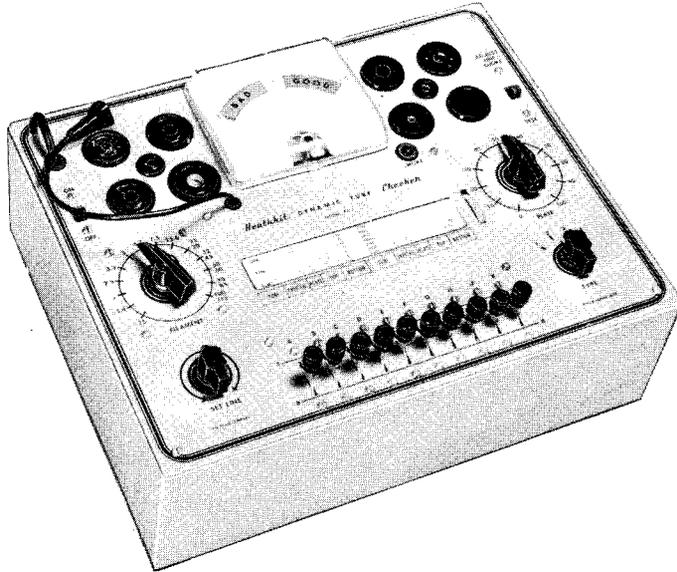
Power Requirements:	105-125 VAC, 50-60 Cycle, 10 Watts
Ranges:	100 - 1000 - 10 KC - 100 KC
Tube Complement:	1 - 6SL7, 1 - 6AC7, 1 - 6V6, 1 - 6X5
Physical Specifications:	12½" Long, 7" High, 7½" Deep
Shipping Weight 13 lbs.	Net Weight 11 lbs.



Heathkit
SQUARE WAVE GENERATOR
MODEL SQ-1

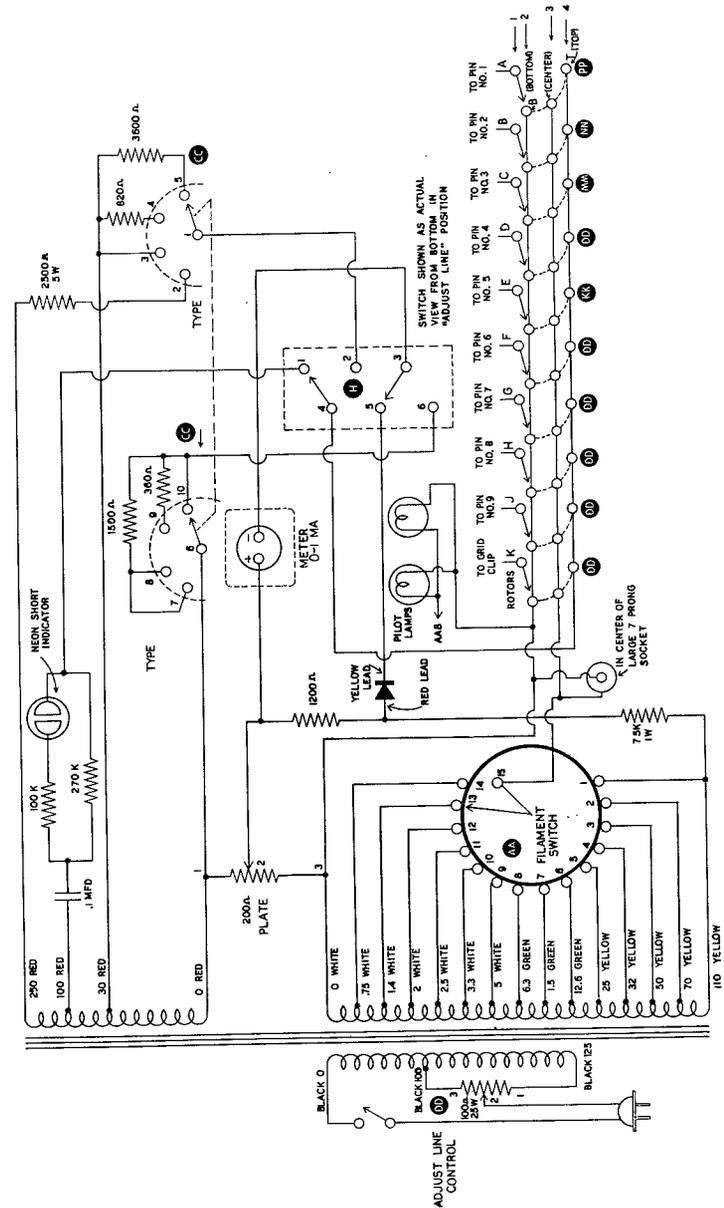
HEATHKIT TUBE CHECKER

MODEL TC-2



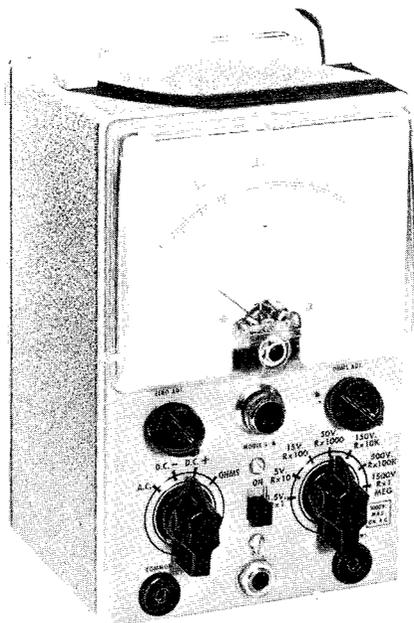
SPECIFICATIONS

- Simplified set-up procedure.
- Rapid switch selection of individual tube elements.
- Any combination of base pin connections.
- Check for quality, emission, shorted elements, open elements, and filament continuity.
- Checks 4, 5, 6, and 7 pin large, regular and miniature, octal, loctal, Hytron, 9 pin miniature and pilot lamps.
- Individual tests on multiple element tubes.
- Blank panel socket for obsolescence protection.
- Compensation for line voltage variation.
- New smooth rolling illuminated roll chart.
- Easy to read GOOD-BAD meter scale.
- Fourteen Filament voltages - .75 to 117 volts
- Element Test Voltages.....0-250 volts
- Dimensions.....14" wide x 11" deep x 4 1/4" high
- Power Requirements..... 105-125 volts 50/60 cycles AC



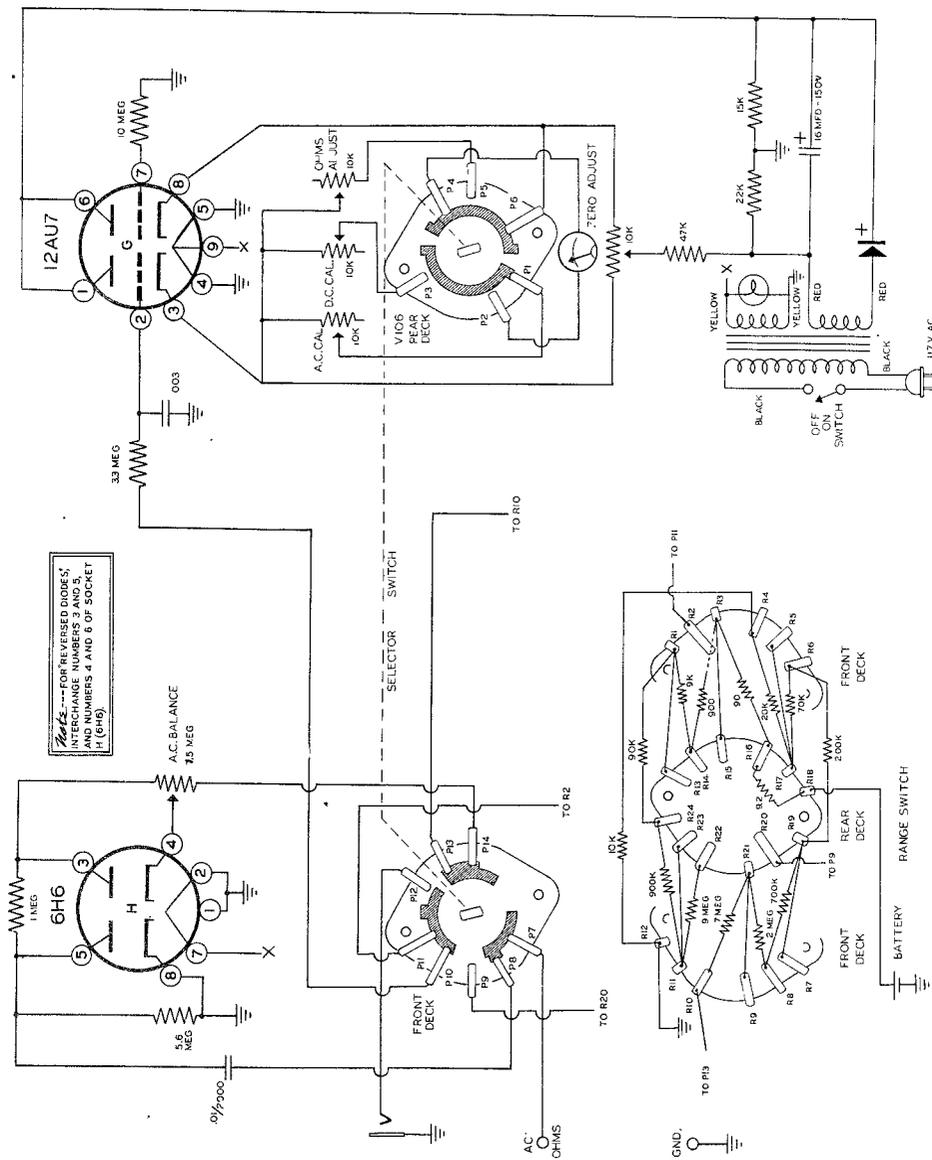
SCHMATIC
HEATHKIT TUBE CHECKER
Model TC-2

HEATHKIT VTVM MODEL V-6

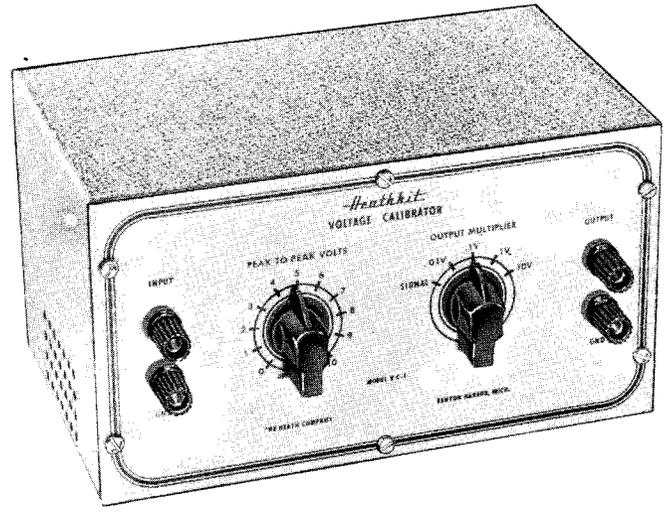


SPECIFICATIONS

- Power Requirements: 105-125V 50/60 Cycle AC, 10 Watts.
- Cabinet Size: 7 3/8" high x 4 11/16" wide x 4 1/8" deep.
- Kit Shipping Weight: 7 pounds
- Meter: 4 1/2" Streamlined case with 200 microampere movement.
- Multipliers: Precision type.
- Tubes: 1 - 12AU7 Twin triode meter bridge.
1 - 6H6 Twin diode AC rectifier.
- Power Supply: Power transformer and selenium rectifier.
- Battery 1 1/2 Volt flashlight cell
- D. C. Voltmeter: 7 Ranges: 0-1.5, 5, 15, 50, 150, 500, 1500 volts full scale.
With accessory probe to 30,000 Volts.
1,100 megohms with accessory probe.
- Input Resistance: 11 Megohms (1 megohm in probe) on all ranges.
- Sensitivity: 7,333,333 ohms per volt on 1.5 Volt range.
- Circuit: Balanced bridge (push-pull) using twin triode.
- Electronic AC Voltmeter: 7 Ranges: 0-1.5, 5, 15, 50, 150, 500, 1,500, (1000V Max.)
Scales reading R.M.S. (.707 of positive peak).
- Circuit: Diode with adjustable compensation.
- Electronic Ohmmeter: 7 Ranges: Scale with 10 ohms center x1, x10, x100, x1000,
x10K, x100K, x1 Meg. Measures .1 ohm to 1,000 megohms with internal battery.

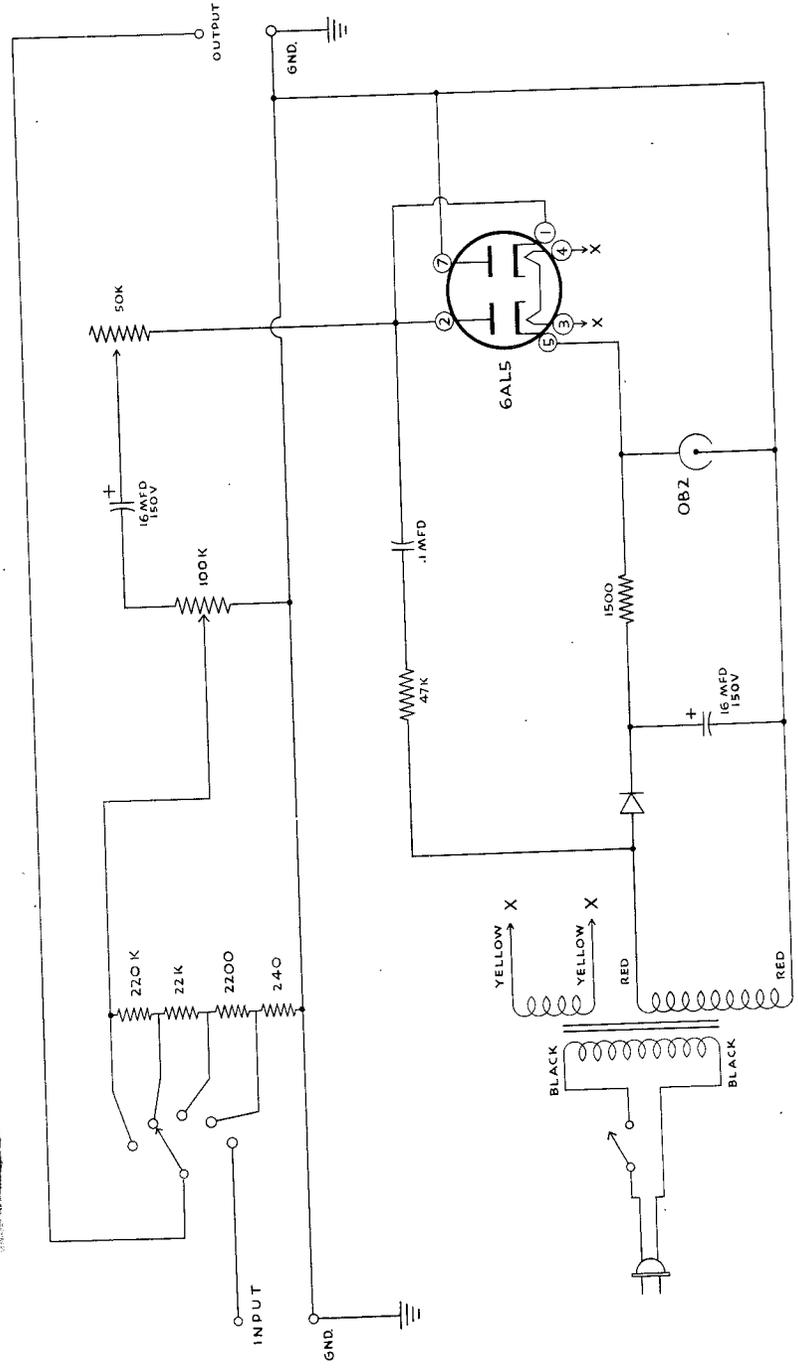


MODEL VC-2 VOLTAGE CALIBRATOR



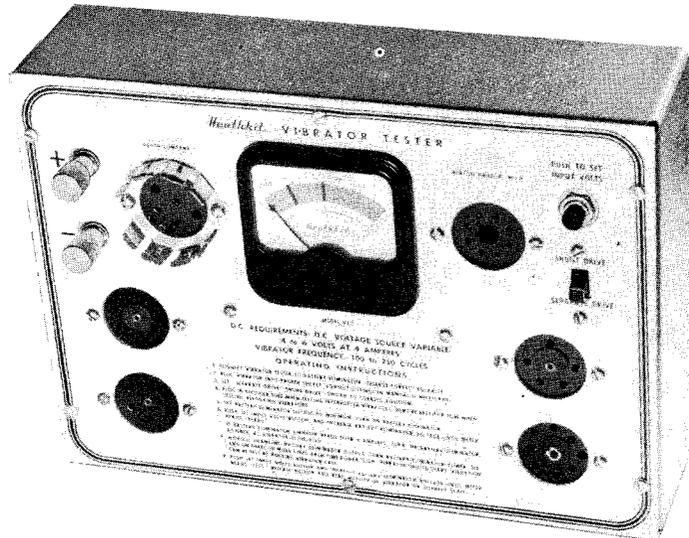
SPECIFICATIONS

- Power Requirements: 105-125V AC, 50-60 Cycles, 5 Watts.
- Tube Complement: 1 6AL5 Clipper, 1 OB2 Voltage Regulator.
- Input Impedance: Approx. 25 MMF with signal fed through calibrator
- Ranges: Using Peak-To-Peak Volts Control and Output Multiplier switch
 - 0 - 1 Volt
 - 0 - 1 Volt
 - 0 - 10 Volts
 - 0 - 100 Volts
- Cabinet Dimensions: 8 1/8" Wide x 4 3/8" High x 4 7/8" Deep



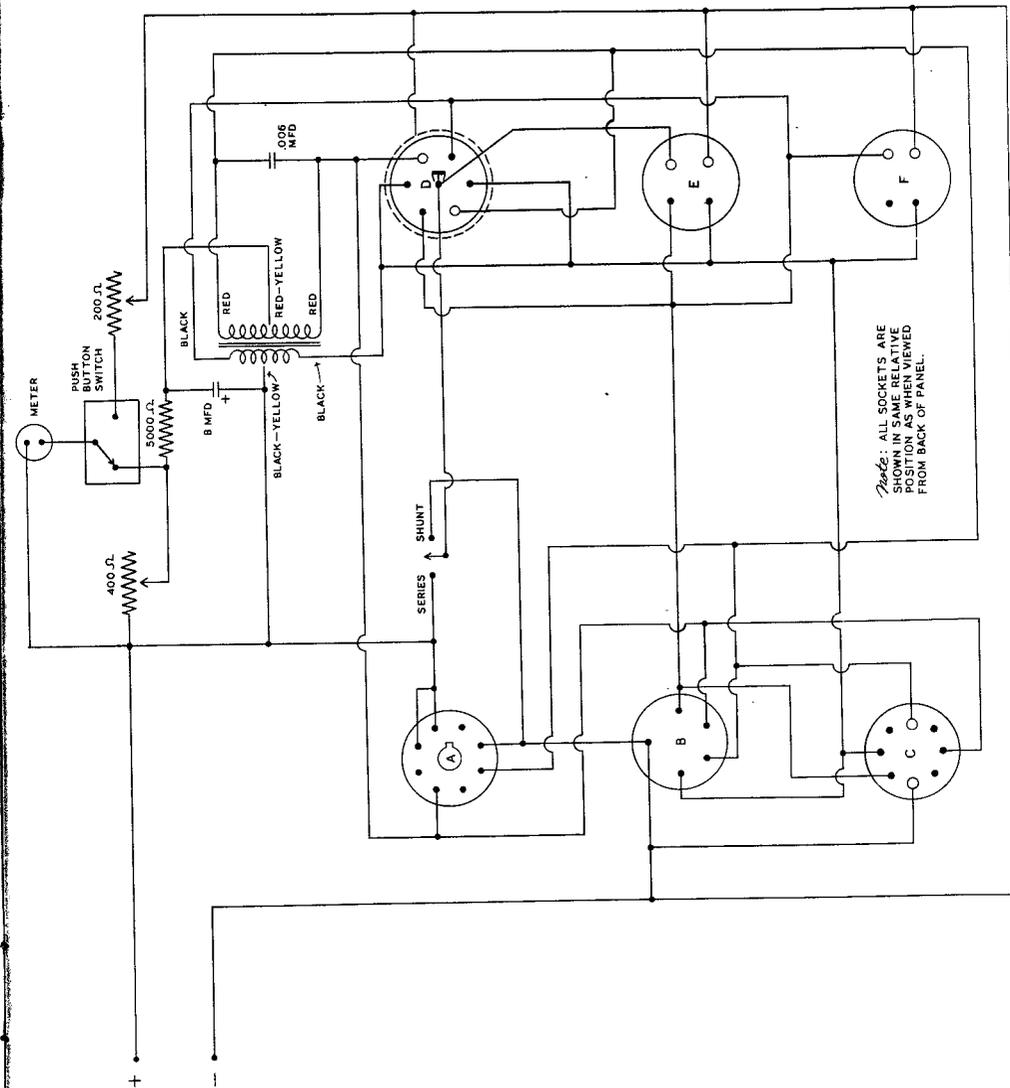
Heathkit
VOLTAGE CALIBRATOR
MODEL VC-2

HEATHKIT MODEL VT-1 VIBRATOR TESTER



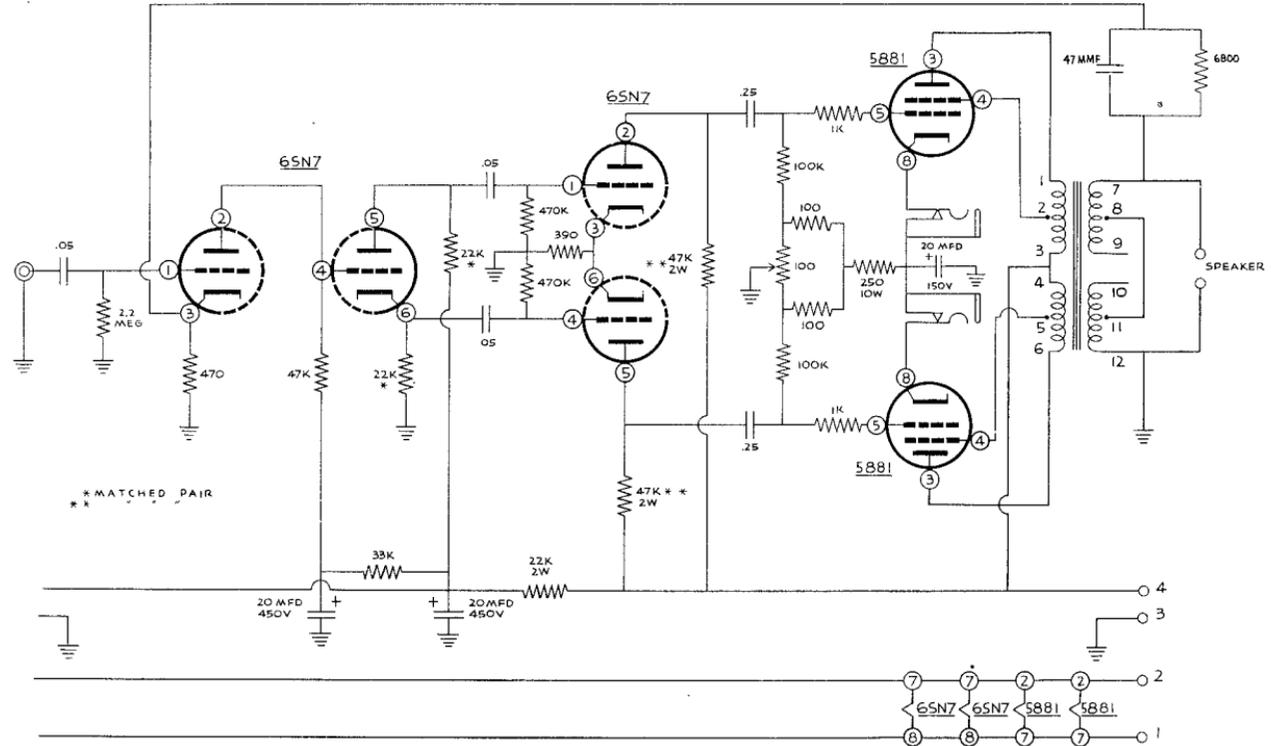
SPECIFICATIONS

Power Requirements	4 to 6 Volts DC (Variable)
Meter Indications	4 Amperes GOOD-BAD
Size	Length 10", width 7 1/8", Depth 3 1/2"
Shipping Weight	7 Pounds

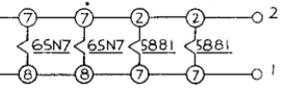


8
7
6
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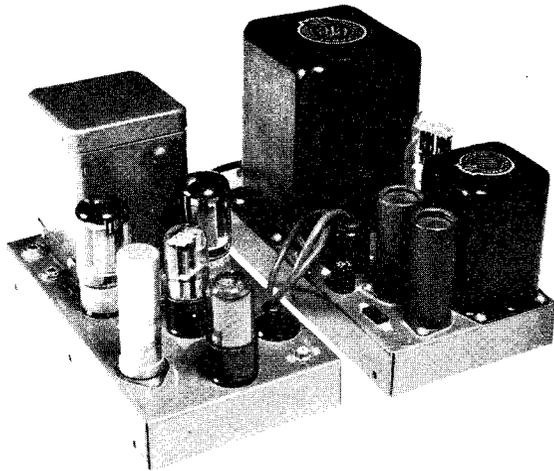
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Heathkit MODEL W-2
AMPLIFIER CIRCUIT DIAGRAM



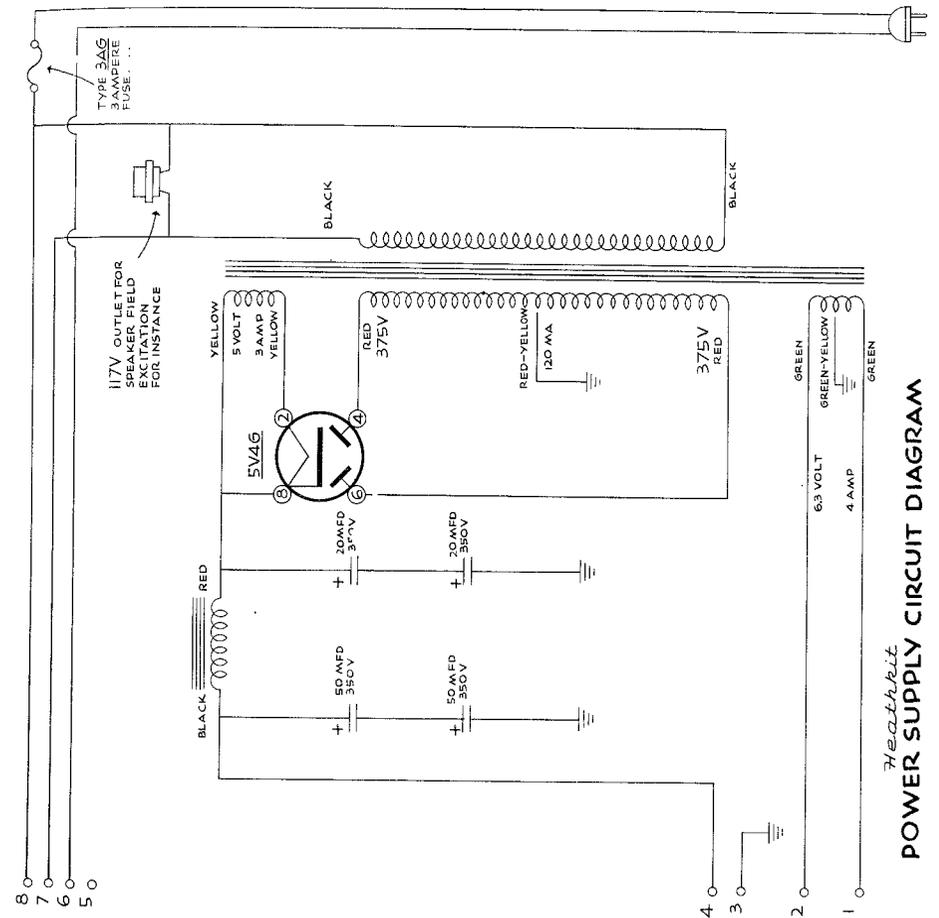
HEATHKIT "WILLIAMSON TYPE" AMPLIFIER MODEL W-2



TECHNICAL SPECIFICATIONS

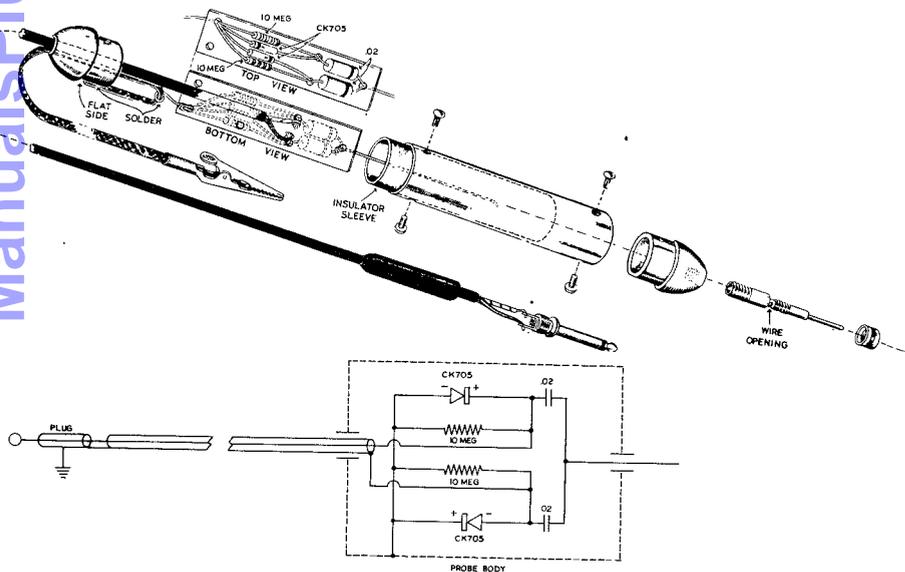
Amplifier and Power Supply (W-2M)

Tube Complement 2 - 6SN7GT; 2-5881; 1 - 5V4G
 Frequency response within 1 db from 10 cycles to 100 KC.
 Harmonic distortion at 5 watt output less than 0.5% between 20 cycles and 20 KC
 IM distortion at 5 watt equivalent output. 0.5% using 60 and 3000 cycles.
 Output impedance. 4, 8 or 16 ohms .
 Input voltage for 5 watt output75 volts across 2.2 megohms
 Power requirements. 105-125 volts 50/60 cycles 120 watts.
 Overall dimensions (each unit) 7" high x 5½" wide x 11" long.



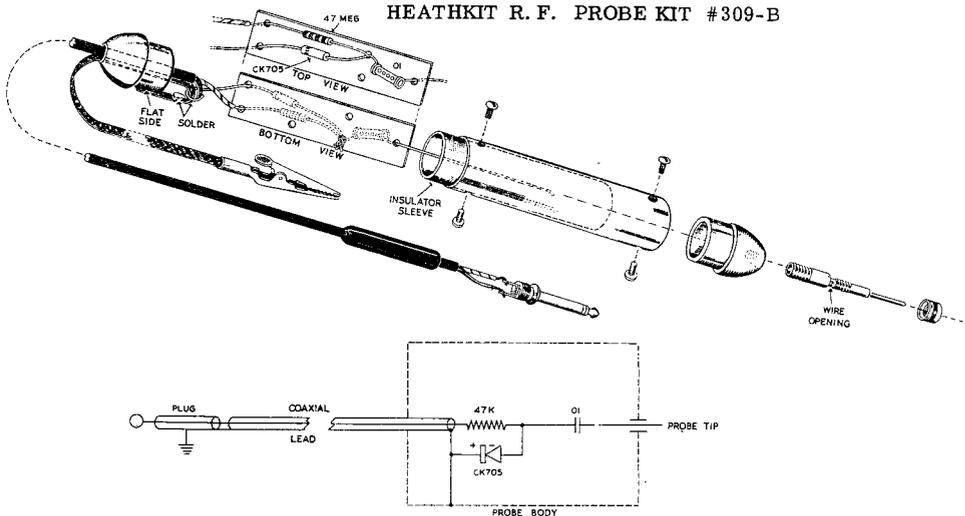
Heathkit
POWER SUPPLY CIRCUIT DIAGRAM

HEATHKIT PEAK-TO-PEAK VOLTAGE PROBE #338-B



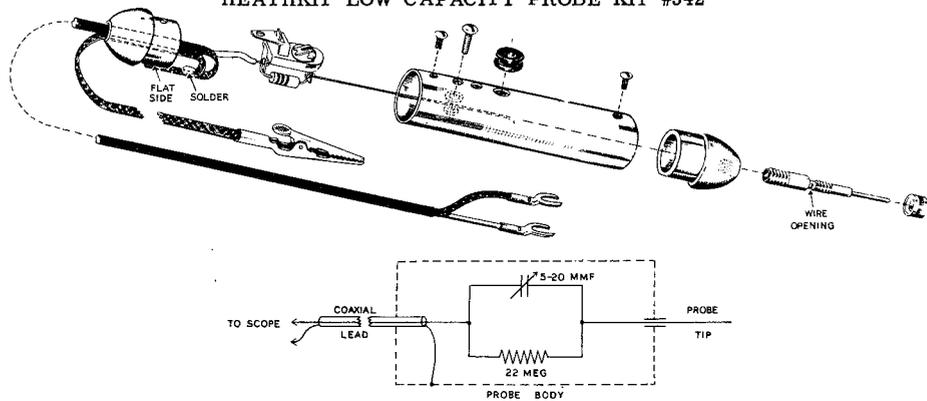
PEAK TO PEAK PROBE 338-B

HEATHKIT R. F. PROBE KIT #309-B

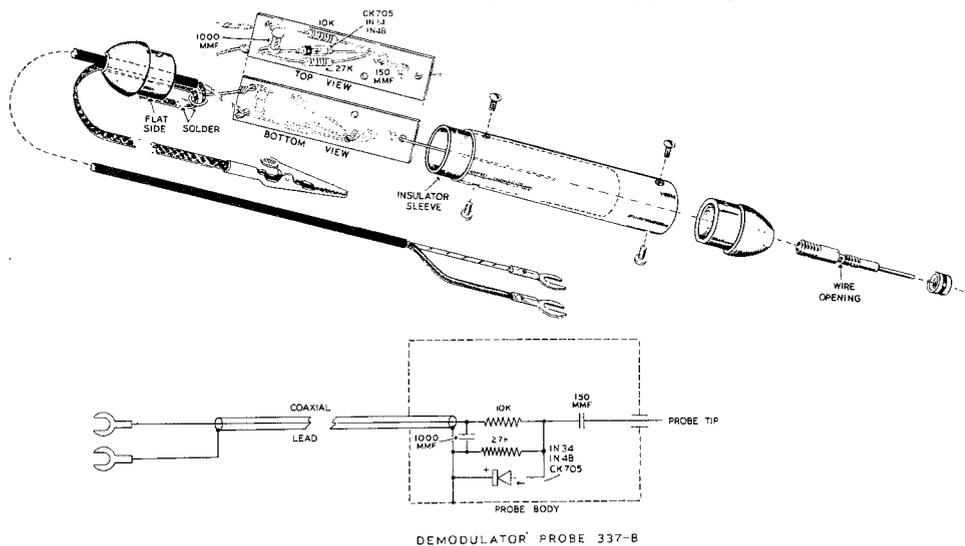


RF PROBE 309-B

HEATHKIT LOW CAPACITY PROBE KIT #342



HEATHKIT DEMODULATOR PROBE #337-B



DEMODULATOR PROBE 337-B

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"Always the leader and pioneer in kit form electronics."

Heath Company Benton Harbor, Michigan



Quality

ELECTRONIC
EQUIPMENT
IN KIT FORM