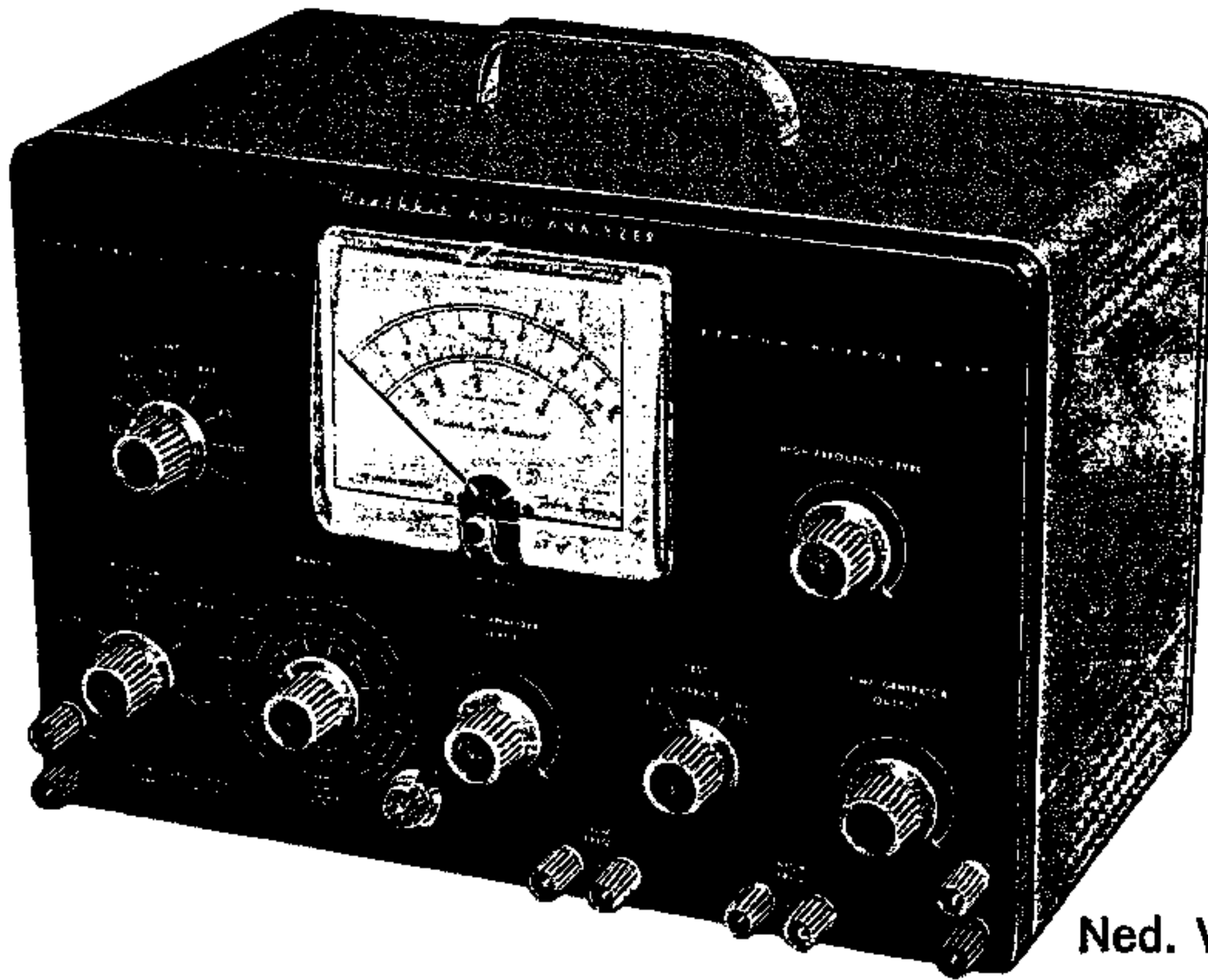


# ASSEMBLY AND OPERATION OF THE HEATHKIT AUDIO ANALYZER MODEL AA-1



Ned. Ver. v. Historie

## SPECIFICATIONS

### Frequency Response:

AC VTVM.....	10 cycles to 100 kc $\pm 1$ db.
Wattmeter .....	10 cycles to 50 kc $\pm 1$ db.
I.M. Analyzer High Pass Filter.....	2000 cps to 12000 cps.
I.M. Analyzer Low Pass Filter.....	10 cps to 600 cps.

### Sensitivity:

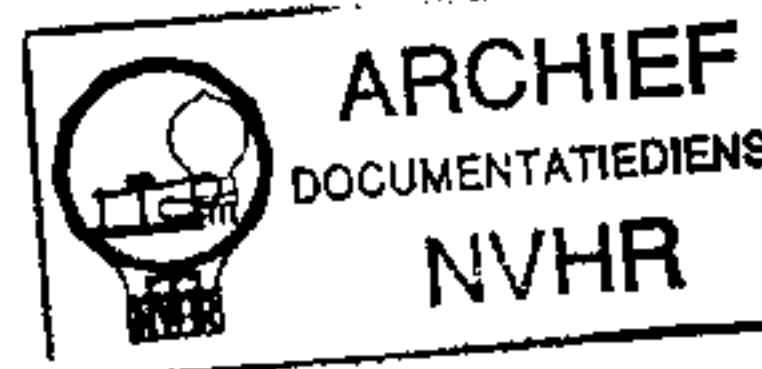
AC VTVM.....	10 millivolts full scale maximum.
Wattmeter .....	.15 milliwatts full scale maximum.
I.M. Analyzer .....	.04 volts minimum high frequency signal required or .17 volts of LF and HF energy mixed 4:1.

### Range:

AC VTVM.....	.01, .03, .1, .3, 1, 3, 10, 30, 100, 300 volts RMS full scale.
DBM.....	-40, -30, -20, -10, 0, +10, +20, +30, +40, +50 reads from -65 to +52 dbm.
Wattmeter .....	.15 mw, 1.5 mw, 15 mw, 150 mw, 1.5 w, 15 w, 150 w full scale. Maximum continuous power 25 watts, intermittent power to 50 watts.
I.M. Analyzer .....	1%, 3%, 10%, 30%, 100% full scale.

### Input Impedance:

AC VTVM.....	1 megohm or 4, 8, 16 or 600 $\Omega$ , switch selected.
I.M. Analyzer .....	1 megohm or 4, 8, 16 or 600 $\Omega$ , switch selected.
Wattmeter .....	4, 8, 16 or 600 $\Omega$ internal load, 10,000 $\Omega$ across external load.



**Output Impedance:**

Low and High Frequency Output..... 3000  $\Omega$  (600  $\Omega$  when shunted with 750  $\Omega$  resistor).

**Internal Generator Frequencies:**

Low Frequency..... 60 cycles.  
 High Frequency..... Approximately 6 kc.

**Accuracy:**

AC VTVM and Wattmeter..... Within 5% of full scale.  
 I.M. Analyzer..... Within 10% of full scale.

**General:**

Multipliers..... Precision type.  
 Meter..... 4 1/2" streamlined case with 200 microampere movement.

Meter Rectifier..... Germanium diode bridge.

Tube Complement .....  
 1 - 12AT7  
 1 - 12AU7  
 1 - 12AX7  
 1 - 6C4  
 1 - 6X4

Power Supply..... Transformer, full wave rectifier.

Power Requirements..... 105-125 volts 50/60 cycles 20 watts.

Dimensions..... 13" wide x 8 1/2" high x 7" deep.

Net Weight ..... 9 lbs.

Shipping Weight..... 13 lbs.

