

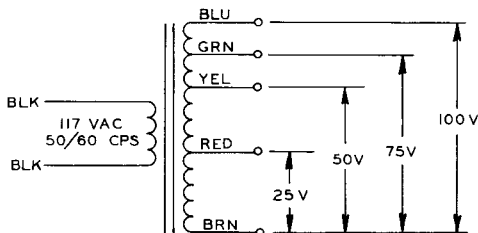
# SPECIFICATIONS

## EXPERIMENTAL PARTS

NOTE: All experimental parts are equipped with quick-connect clips.

Types Of Parts. . . . . 7 tubes, 3 transistors, 3 diodes, earphone, rotary switch, variable capacitor, and miscellaneous parts.

Voltage Reference Transformer. . . . . See drawing below.



Chopper. . . . . Oak type 14454.  
6.3 volt coil.  
50-70 cps drive frequency.  
Base fits standard 7-pin socket.  
SPDT contacts.

## AC UTILITY AMPLIFIER

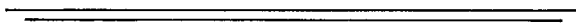
Tube Complement. . . . . 1 - 12AX7 voltage amplifier.  
1 - 6BQ5 power amplifier.

Total Current Drain. . . . . 44 milliamperes B+ current at 200 V DC.  
1.06 amperes filament current at 6.3 V AC.

Speaker. . . . . 4" round, PM type.

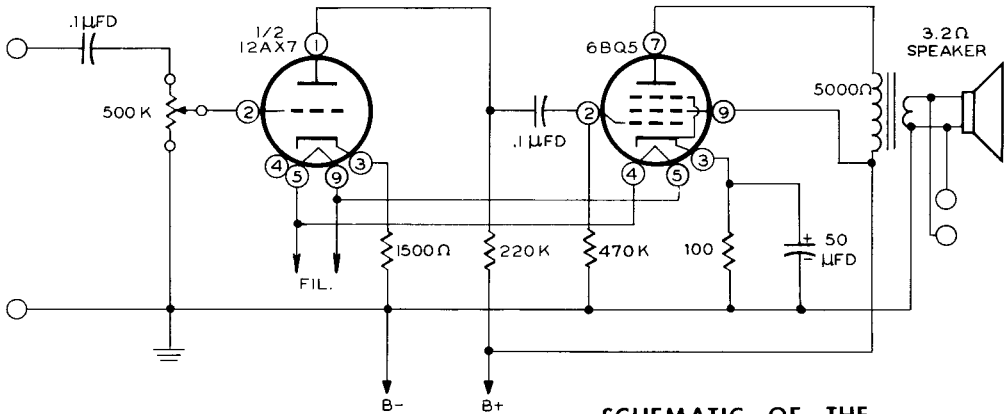
Dimensions. . . . . 6" high x 6-3/4" wide x 5-1/4" deep.

EU-14A Shipping Weight. . . . . 3 lbs.



All prices are subject to change without notice. The Heath Company reserves the right to discontinue instruments and to change specifications at

any time without incurring any obligation to incorporate new features in the instruments previously sold.



**SCHEMATIC OF THE  
HEATH SCIENCE SERIES  
AC UTILITY AMPLIFIER  
PART OF MODEL EU-14A**

## INTRODUCTION

The special parts supplied with this kit will be used with the Experimental Chassis (Model EU-13A) to complete the experiments in the book "Electronics For Scientists."

Common types of tubes and transistors are used in this kit. These same tubes can also be used as replacements in several other units in the EU-100A system, including the Servo Recorder and Operational Amplifier. The chopper in this kit can be used as a replacement for the chopper in the EUW-20A Recorder and in many experimental circuits.

Also included in this kit are all necessary parts for a Utility Amplifier, including the speaker. This Utility Amplifier is intended to give students

practice in soldering and layout of standard parts, as well as to provide an auxiliary amplifier for other experiments. The EUA-14-1 accessory kit, available separately, contains all parts listed in the Parts List for the Utility Amplifier.

This kit is one of the units included in the Malmstadt-Enke EU-100A Instrumentation Laboratory. It is available as an individual unit, or it can be purchased at a special group price when included with the total EU-100A System. The units of the complete EU-100A Laboratory Station are useful not only in learning electronic concepts, but also in research and development, and control instrumentation.