

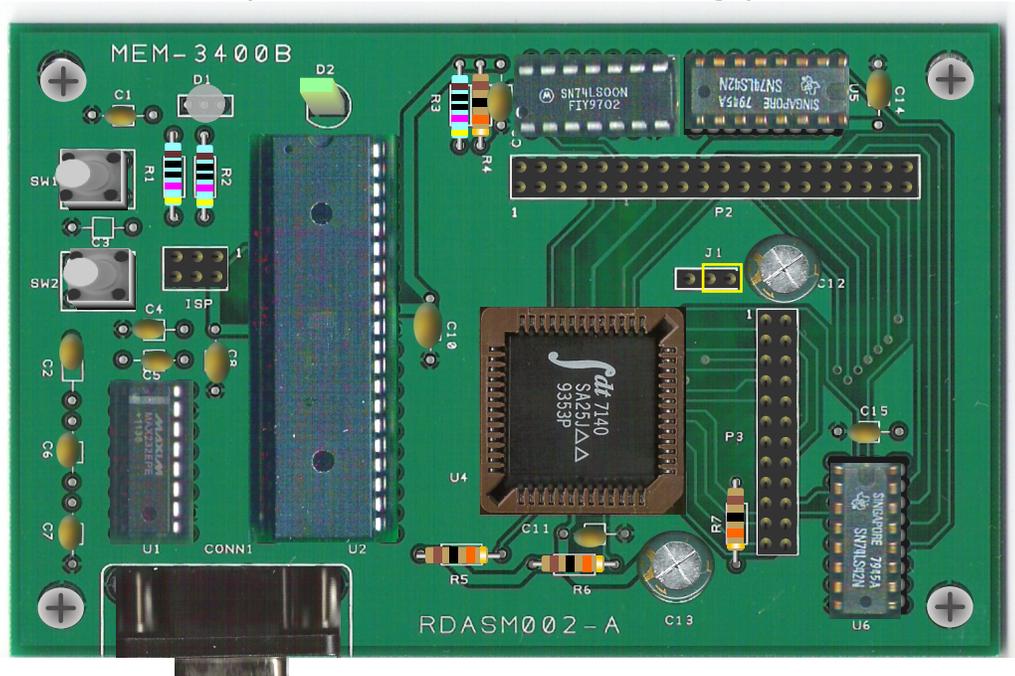
Non-volatile memory for ET-3400

More info at: KC9LGS.net

MEM-3400 PCB

MEM-3400 allows your Heathkit 3400 trainer to save your code to non-volatile ram.

(Photo corrected/enhanced image)



4.9 x 3.0 inches

Uses Atmel MEG324PA MPU and Dual port RAM.

- * Can be used as stand-alone memory saver.
- * USB to RS-232 cable will file transfer code to PC.
- * Assembler can then be used to generate code.

**NOTICE: This is an unassembled kit.
Only people skilled at soldering should
attempt building this kit.**

Still one of the best ways to learn CPU Architecture

Decades old Heathkit Microprocessor Course and ET-3400 Heathkit trainer is still one of the best ways to learn foundational concepts of CPU functions and architectures. The secret is Heathkit courses spoon fed step by step instructions for beginners.

Once a good foundation is laid the beginner is then encouraged to join the modern MCU world of design with processors such as Freescale HC08. These old Heathkit gems are still the best stepping stone for beginners.

The reason for the effectiveness of these old Heathkit courses lies in the fact that modern CPU/MCU manufactures just can't afford to develop painstaking step by step courseware for novice beginners in this fast paced world.

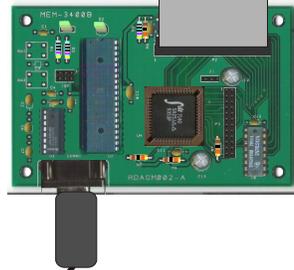
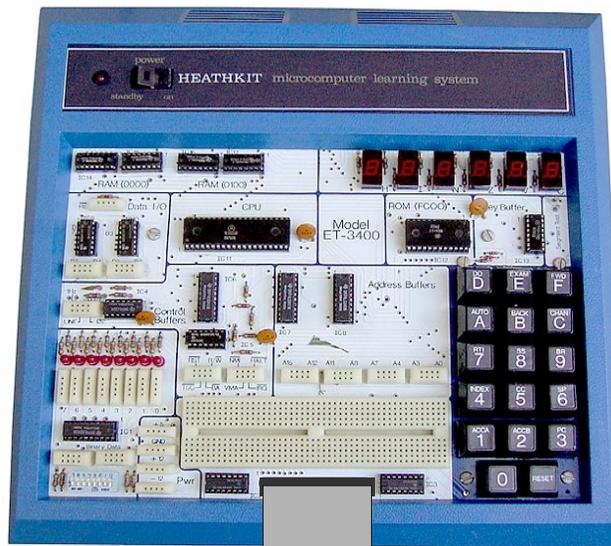


In the hobbyist spirit we have developed a small dual port memory card that fixes a major past issues of the ET-3400. The card we made (called the MEM-3400) allows you to replace the ET-3400's on board ram. The MEM-3400 then stores your HEX program in non-volatile ram.

ET-3400 by itself will keep only one program live during power off. Actually the ET-3400 only turns the display off. In the event of a brief power glitch the contents of ET-3400 would be lost.

The MEM-3400 not only saves your program indefinitely but allows file transfer via ASCII terminal software.

Download/uploading to a PC has the immense benefit of allowing 6800 assembly software to create edit and save code to the PC and ET-3400.



Use USB-RS232 and terminal software like Hyper Terminal to transfer files back and forth to your PC.

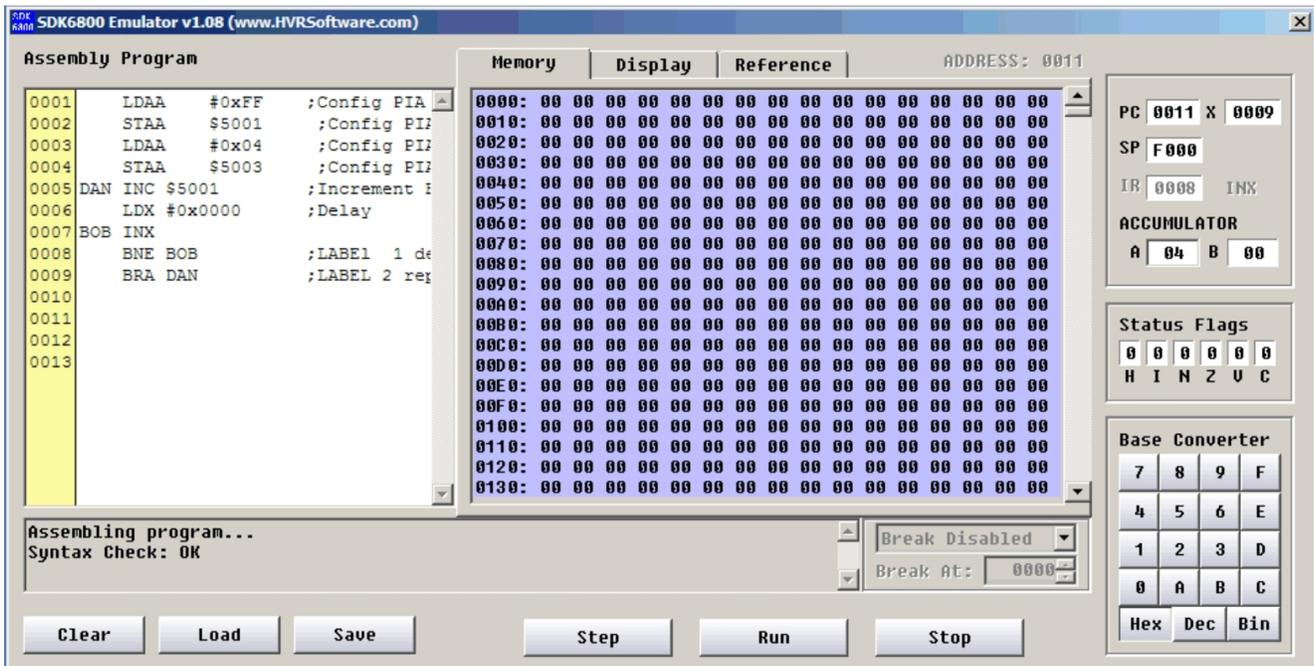
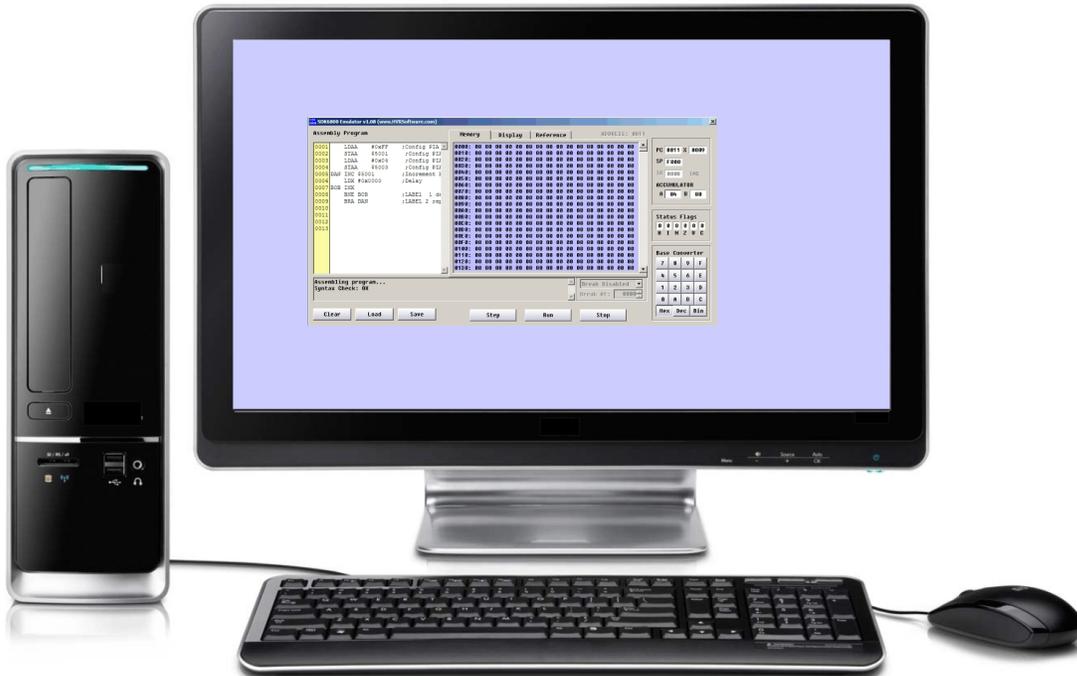
Save ET-3400 to ASCII files that can be directly imported to an assembly program such as SDK6800 !



There are several ASCII terminal programs on the web for free. We highly recommend from HyperTerminal. Download is initially free but author does require a fee after a time period.

There are several 6800 Assemblers and Cross Assemblers on the web for free.

We highly recommend SDK6800 from HyperVision Research for an assembler.



We highly recommend using SDK6800edit and debug 6800 code. Then use ASCII terminal software to transfer back to the HEX code back to ET-3400.

Free Assembler download at: <http://HVRsoftware.com>