Installation Manual For
EVENTIDE Memory Expansion Boards
For HP Language Processors

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INSTALLATION NOTE

EVENTIDE MEMORY EXPANSION BOARDS
FOR HP LANGUAGE PROCESSOR CARDS

This document covers configuration switch settings for Eventide
WVMB-40 series memory expansion boards for the HP 82300 series
Language Processor Cards. As a convenience, it also incorporates
data on the setting of switches on the HP Language Processors, so
that you need not search for this information when installing
your Eventide board.

The Eventide WVMB-40 series of memory expansion boards are direct
replacements for the HP 82305A RAM Expansion Board and are
available in 1, 2, 3 and 5 Megabyte configurations. In addition,
the 5 Megabyte WVMB-40 series board has 2 Megabytes greater
capacity than the fully populated 82305A. For your convenience,
a kit (WVMB-KIT) containing the four 1 megabit DRAMS needed to
fully populate the memory sockets on the HP Language processor
card is available and is a direct replacement for H.P. part no.
82303A. Please note that, just as with the HP 82305A, either the
WVMB-KIT or the 82303A must be installed for the memory expansion
board to function properly.

BOARD IDENTIFICATION

WVMB-40 series memory boards can be identified by counting the
number of DRAM chips installed on the board (the DRAM chips are
the narrower ones arranged in neat rows and columns). The chip
counts for these boards are as follows:

DRAM CHIPS	BOARD SIZE	TOTAL MEMORY
8	1 MB	2 MB
16	2	3
24	3	4
40	5	6

BEFORE YOU BEGIN

(THIS IS THE MOST IMPORTANT PART OF THE INSTALLATION PROCEDURE)

There are two keys to the SUCCESSFUL installation of expansion memory:

1. Follow the instructions (read them completely before you begin).

2. Watch out for what HP calls "Static Zap."

The first item is self-explanatory and here are some hints about accomplishing the second:

DEALING WITH THE STATIC ZAP PROBLEM

THEORY: If the parts on the board are at one potential (voltage) and they touch something at a different potential, they may be damaged. This damage may not always be immediately evident but it can affect reliability.

PRACTICE: Try to work in a static free environment. If you do not have an anti-static work station or a metal table, you can spread ordinary aluminum foil on a table.

Unplug the computer.
Put the computer on the metal.
Put the bagged board/chips on the metal.
Touch the metal at all times when handling the boards or chips.

The static situation is aggravated by low humidity or synthetic carpets. However, BOARDS CAN BE DAMAGED BY A "SHOCK" THAT YOU CANNOT FEEL!

INSTALLATION

Before memory installation can begin, the language processor card must be removed from the computer in which it is installed. This is accomplished by removing the cover of the computer, removing the screw holding the connector plate at the back of the card to the computer, and gently pulling up on the language processor card.

If you have already removed the card, or if you have not yet installed your language processor, you may skip the above procedure.

Place the language processor on the metal surface with the component side up and the HPIB connector to your right.

On the language processor card, approximately one inch from the edge facing you and about four inches from the left edge, is a bank of DIP switches labeled "SW1." Set these switches as shown in Figure 1A for the amount of memory you will have when installation has been completed.

If you have not previously installed a WVMB-KIT or HP 82303A ram chip set on the language processor (this is the case if there are four empty IC sockets in the upper left corner labeled "XU5" through "XU8") then you must now do so for the expansion memory to function properly. This is accomplished by installing the four IC's provided in the WVMB-KIT in the empty sockets. Be sure that the pins are straight and that the end of the chip with the dot or notch molded in is aligned toward the right. Push the chips into the sockets carefully to prevent any pins from bending.

Now that the tough parts of the installation have been completed, the only thing remaining is to install the WVMB-40 board, if you have purchased one. This is done by aligning the board, as shown in Figure 1B, over the memory expansion connector and standoff holes and firmly pushing the two boards together. Make sure that all of the pins of the connectors mate.

Check your installation as follows:

Are all memory sockets on the Language Processor populated?

Are the memory chips inserted correctly? (if applicable)

Are all the connectors mated properly? (no bent or unmated pins)

Are the memory size switches (SW1) set correctly?

If the answer to all of these questions is an emphatic "YES" then you may install the language processor in the computer and boot the system. After the Language Processor operating system completes its RAM test, it will display the amount of RAM installed. BE PATIENT! The RAM test takes several minutes with large memory. If the amount of RAM indicated by the system test does not agree with the amount of RAM you believe you have or if an error is reported, re-check your installation, the most common cause of problems is "cockpit error".
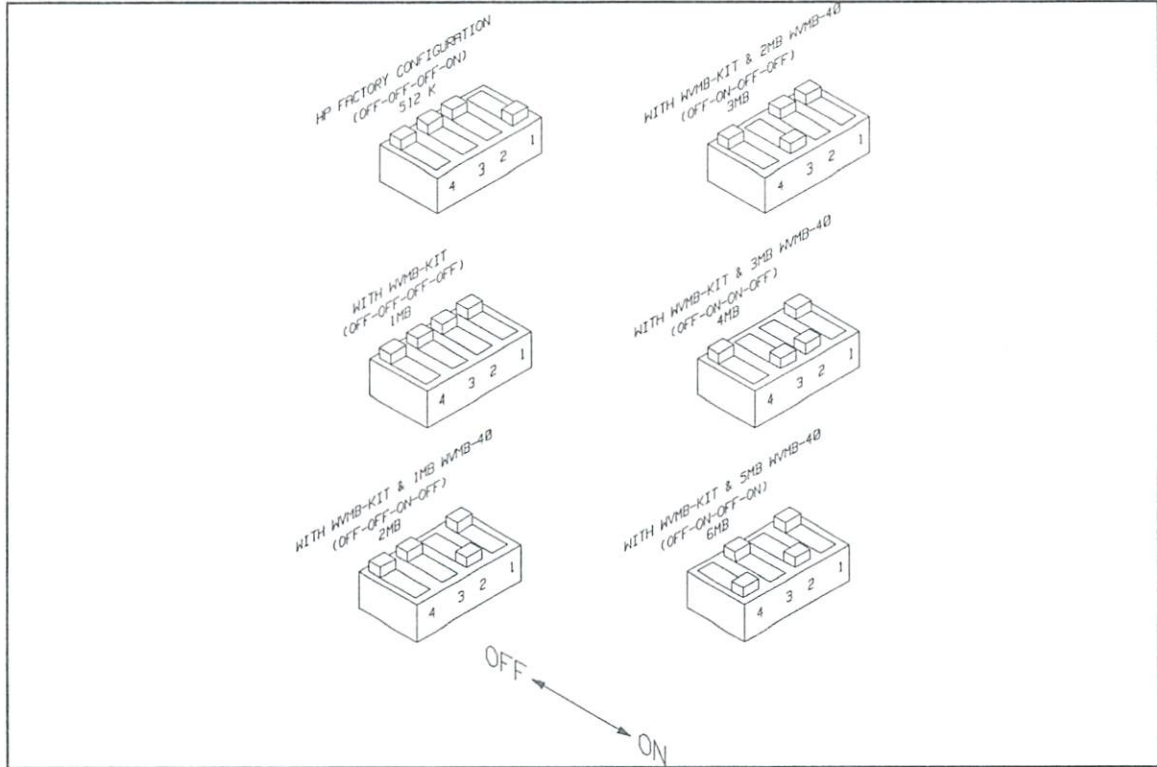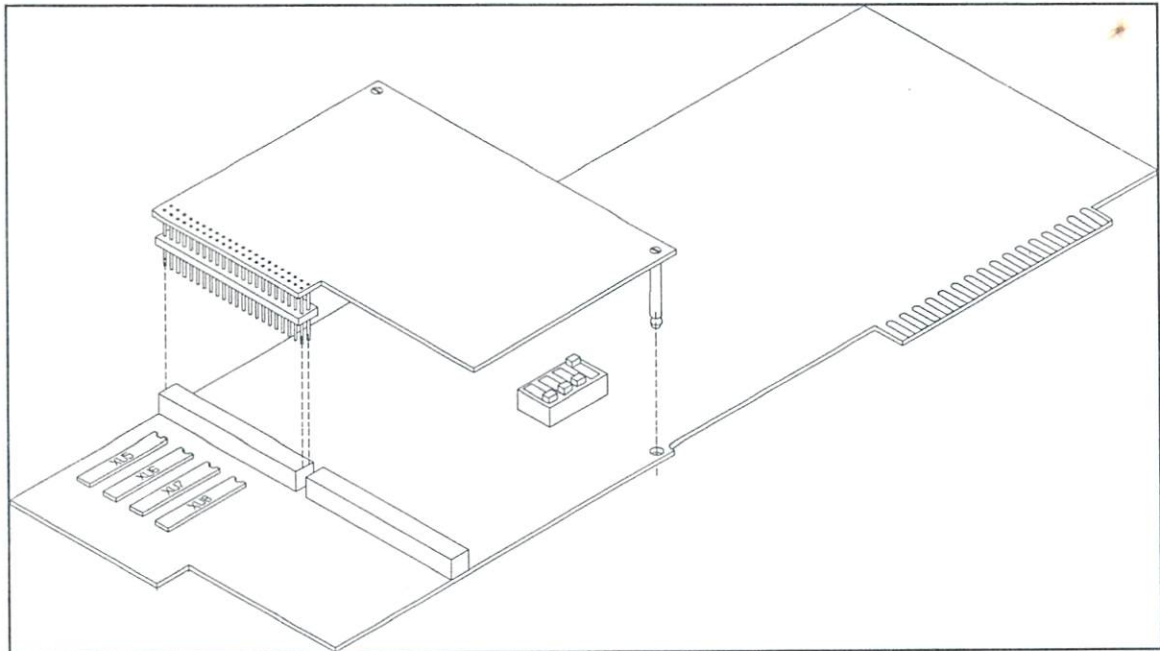
Figure 1A

Figure 1B

APPENDIX   1

WARRANTY INFORMATION

Eventide FANG memory boards are warranted for a lifetime against defects in materials and workmanship.

We will promptly repair or replace any board and ship it via UPS BLUE to any location in the United States, providing:

1.   Board was returned to us with shipping fully prepaid.
2.   The problem was not cause by physical or electrical abuse.
3.   Board was not electrically damaged by application of improper voltage.
4.   Board was shipped with proper static protection.

Alternative methods of return shipment can be arranged at customer request and expense.

When returning a board, make sure it is safely packaged and ship it by a traceable method, such as UPS BLUE .

NOTE TO INTERNATIONAL CUSTOMERS

We regret that we cannot be responsible for shipping or customs clearance charges of any kind. If you need to return a board to us, please make certain that all charges, INCLUDING CUSTOMS CLEARANCE, are prepaid to our door. Your freight forwarder will usually be able to arrange this. We can assist with customs clearance BY PRIOR ARRANGEMENT ONLY. Please contact us if you need further information.