H-89/90 Hardware Configuration
For Z-67 Co-existing with H-17 or H-37

Before the software installation, we need to configure the hardware so the software can do its magic.

To install the Z67-IDE into an H-89/90 we have to decide where the boards will run. The two most common configurations with which we will be dealing are: H17/Z67-IDE and H37/Z67-IDE.

H17/Z67-IDE:

The H-17 controller MUST run in the right position (P-506/P-512) at address 7Ch, therefore the Z-67 card moves to the left (P-504/P506) slot at address 78h. For the Z-67 card to be able to run in either the left or right position, we must have a way of telling it which address to use. This is accomplished by jumpers J1 and J2 located near to the board bus connectors. If the board is to live in the left position (78h) then J1 and J2 must short pins 1 & 2 where pin 1 is the pin closest to the connectors. Now the card will know its address.

Likewise, the computer needs to know what complement of cards are installed and the address of those cards. This is accomplished by SW-501 on the CPU card. For the H-17/Z-67 combination, the switch setting would be:

0 1 2 3 4 5 6 7 – Switch Digit
0 0 0 1 0 1 0 0 – SW-501 Setting

where digit zero is at the top of the switch.

H37/Z67-IDE:

When the Z-67 card co-exists with the H-37 card, it will occupy the right hand slot (P-506/P-512) at address 7Ch and the H-37 card will take the left position (P-504/P506) at address 78h. In this position, we need to set the Z-67 jumpers J1 and J2 to short pins 2 & 3. Now that the complement of cards and their position has changed, we need to set SW-501 to reflect the current situation. For the H-37/Z-67 combination SW-501 is set to:

0 1 2 3 4 5 6 7 – Switch Digit
0 1 0 0 0 1 0 0 – SW-501 Setting

where digit zero is at the top of the switch.