

USING THE APLCC32HB COMBINATION ADAPTER

The APLCC32HB combination adapter is designed to support two 32 pin PLCC (Plastic Leaded Chip Carrier) memory device groups. These are the standard 32 pin DIP parts when manufactured in a PLCC package and the motherboard BIOS parts also known as firmware hubs. The adapter supports these two device families using a single top assembly. The top assembly is installed in the base with one of two orientations. Refer to the illustrations below. Use the standard 32 pin PLCC mode for standard and low voltage memory devices. Use the FIRMWARE HUB MODE (#AFWH) for bios parts. The top assembly includes a six position dip switch. This switch is used to reroute connections based on the device family. Set all switches to **OFF** for the **STANDARD MODE**. Set all switches to **ON** for the **FIRMWARE HUB MODE**.

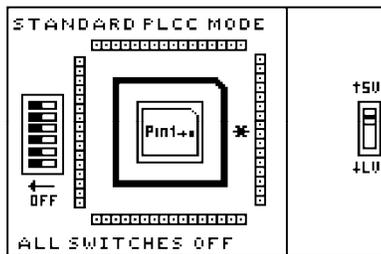


CHANGING THE ORIENTATION OF THE TOP ASSEMBLY

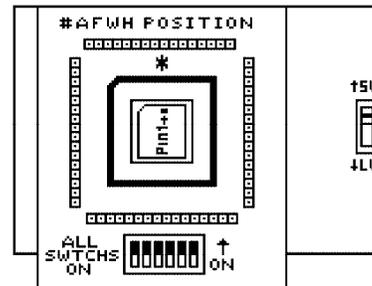
To separate the top assembly from the base, grasp the base with one hand and the top with the other. Gently pull the two assemblies apart while keeping both boards parallel. Be careful not to bend the pins at the point of separation. Rotate the top assembly to the desired orientation (refer to the figures below). Align the pins in the top assembly with the mating socket strips on the base. Keeping both parallel, gently press the top and bottom assemblies together until the top assembly pins are fully inserted into the base socket strips. **WARNING: Never position the top socket assembly with PIN 1 LEFT or DOWN.**

NOTE: If an adapter is required, the EPROM+ software will indicate the required adapter part number. If a FIRMWARE HUB device is selected, the software will display **REQUIRES FIRMWARE HUB ADAPTER (PART#AFWH)**.

ORIENTATION FOR STANDARD 32 PIN DEVICES



ORIENTATION FOR FIRMWARE HUB DEVICES



INSERTING AND REMOVING PLCC DEVICES FROM THE SOCKET

The 32 pin PLCC socket installed on the adapter is a Zero-Insertion-Force (ZIF) design. If used with care, this socket will provide many years of trouble free service. To insert a device into the socket align pin 1 with the indicator (*) on the socket board. Be certain that the chip is parallel to the socket, not tilted. Gently press down on the chip. The socket collar will rise as the chip is inserted: press until the chip is flush against the socket base. To remove a chip from the socket simultaneously press both sides of the collar until the chip is ejected.

PROGRAMMING LOW VOLTAGE DEVICES

The APLCC32HB adapter supports both standard 5 volt devices and low voltage (LV) parts. The voltage range is selected using the small slide switch on the base board. Set the switch to the 5V position for standard parts. Set the switch to the LV position for low voltage parts including **all firmware hub devices (AFWH)**. A low voltage part is normally identified by the letters L, LF, LV, V, BV or W in the part number. EXAMPLE: 29LV010 or 29W040 are both low voltage flash memory parts. Normal EPROM and flash memory parts use the 5V setting.