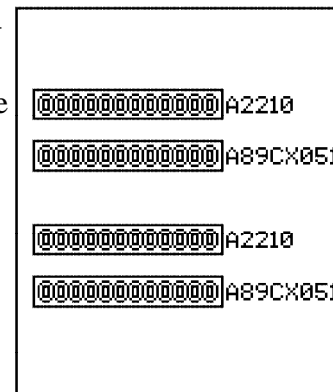


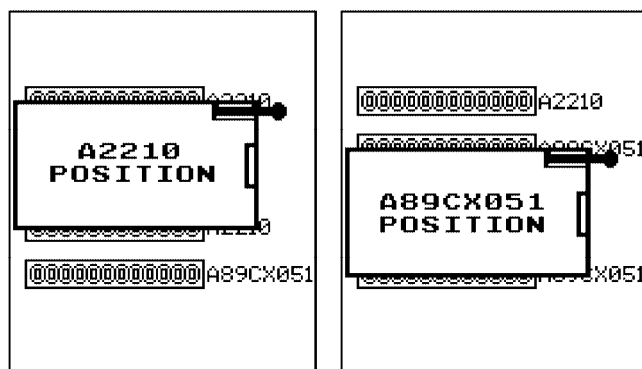
USING THE A2210/A89CX051 COMBINATION ADAPTER

The A2210/A89CX051 adapter allows the Andromeda Research EPROM+ programming system to support both the X2210/2212 NVRAM devices plus the ATMEL AT89CX051 family of microcontrollers. As both of these parts require non-standard connections, the adapter addresses this by allowing the user to position the 24 pin adapter socket such that it aligns with two of four rows of receiving sockets on the adapter base (see illustration at right).



To configure the A2210/A89CX051 adapter for proper operation, carefully align the pins on the bottom of the 24 pin socket with the corresponding rows of receiving sockets on the adapter base. The adapter base is marked to show which rows of receiving sockets must be used. Once the 24 pin socket pins are aligned with the proper two rows, firmly press the socket into place. **Note:** Be careful not to bend the 24 pin socket pins. To remove the 24 pin socket from the receiving pins, slightly lift one end of the 24 pin socket, then slightly lift the opposite end in a rocking motion until the socket is free from the adapter base. **Note:** If you lift one end of the 24 pin socket too an extended angle you will bend the bottom pins. Use care when removing the socket.

The illustrations below show the adapter base configured for the A2210/12 (left) and the A89CX051 (right). Note the position of the 24 pin socket for each device.



Installing the adapter into the programming unit

The A2210/A89CX051 adapter has a 28 pin base. To insert the adapter into the 32 pin socket on the programming unit, lift the handle on the 32 pin ZIF socket to about a 45 degree angle. This will release the socket mechanism. Align the pins on the adapter base such that they are fully left justified (open pins on the 32 pin socket on the right). Gently press the adapter base into the 32 pin socket until it is flush with the top. Release the 32 pin ZIF socket handle to lock the A2210/A89CX051 adapter in place.

Installing parts into the adapter socket

Both the X2210/2212 (18 pins) and the AT89CX051 (20 pins) parts are inserted into the 24 pin socket on the adapter fully left justified (open socket pins on the right). Orient pin 1 on the chip such that it faces the handle or red dot on the socket.