

California Computer Systems (CCS) 2718A as Altair 88-2SIO

The CCS 2718A board has two serial ports. Port A (the 40 pin IC) can be made to look like the first port on an Altair 88-2SIO. Follow these steps:

- 1) Set SPR (Serial Ports Reverse) to the "N" position to have the 40 pin UART selected when A1=0.
- 2) Set SAI (Serial A Invert) to the "N" position so that A0=0 selects the status register and A0=1 selects the data register.
- 3) Set Serial Address jumpers A7-A2 to 000100. This setting in combination with SPR="N" (step 1) addresses the UART at I/O addresses 10h and 11h.
- 4) Set the UART format jumpers as follows: PS=x (parity select is don't care), WLS2 and WLS1 both set to 1 (8 bits), SBS=0 (one stop bit), PI=1 (no parity).
- 5) Set Serial A Baud Rate Jumpers to 1000 (top to bottom order) for 9600 baud.
- 6) Wire the Serial A Status Header to connect DR to D0 (pin 1 to pin 14), and THRE to D1 (pin 8 to pin 13).
- 7) Make sure U22 is a 74LS244 (not a 74LS240).

IMPORTANT: The silkscreen on some 2718A boards is incorrect next to the address jumpers for the parallel ports, the serial ports, and for the EPROM. For all three of these jumper blocks, the "1" position is towards the top of the board and the "0" position is towards the bottom (edge connector) of the board.