

Assembling the FDC-1 perSYMone

Assembly of the FDC-1 is quite straightforward and should take about two to three hours to complete. The following notes include our suggestions for the assembly sequence:

- A) Separate the components, leaving the chips in the foam until all the other components have been mounted.
- B) Mount all sockets on the board, with the notches properly oriented.
- C) Mount the five resistors as follows:

R1, R2:	200 ohm	(Red-Black-Brown)
R3, R4:	10 K	(Brown-Black-Orange)
R5 :	1 K	(Brown-Black-Red)
- D) Mount the resistor pack (RP1), orienting it with the end marked "B" adjacent to the "+" marking on the board.
- E) Mount the electrolytic capacitor (C1), observing polarity.
- F) Mount the two tantalum capacitors (C4, C6), observing polarity.
- G) Mount the three ceramic capacitors (C2, C3, C5), no polarity.
- H) Build-up the 34-pin and 50-pin drive cable connectors (P3, P4) from the dual pin header strips supplied. Use a straightedge or a strip of cardboard to hold the pins aligned while soldering.
- I) Mount the crystal (Y1), using bare jumper wire as a tie-down.
- J) Install jumpers for the options desired, as described in the manual. See also Note 1 below.
- K) Solder the two turret pins (T1, T2) into the board, each with the proper length of cable to reach your power source.
- L) If desired, you may solder one of the two 44-pin edge connectors provided (with polarizing keys) to the edge fingers at the end of the board with the P/N 700014-D marking. See also Note 2.
- M) Insert the chips, with care (in the correct orientation!), and go!

Note 1: We suggest that J4 (double) and J5 be hardwired, since they offer unlikely options (an alternate controller chip, the SY6591, and a smaller sized EPROM). Jumper J4 for a 1791, and jumper J5 for a 2732, as clearly marked on the board.

J1, J2, and J3 (double) may also be hardwired, or, you may install the supplied 12 jumper posts and four jumper clips to make reconfiguration between 8" and 5" drive systems easier. All (four) of the jumper clips (or wires) should go from the center posts (or holes) to the outer posts (or holes) marked 5, for 5 1/4" systems, or to the unmarked posts (or holes), for 8" systems. Jumper clips (4) are taped to an index card.

Note 2: The two connectors may also be soldered together, back-to-back, or wired together with a short length of cable to permit greater flexibility in mounting. Polarizing keys are also on the index card.