GND

PICkit

SW1 SW2 SW3 SW4   1bit CPU
A   B   Go   Hold   MC14500B

J1   C1
C2
R1   R2   R3 R4 R5 R6   OUT
R7   J4 J5
J2   R8
C   C3   C4   R9
                                      R10
Clock   4001 IC1   4099 IC2   R11
S   F   DT   R13
D3   D2 J3   WR   R12
D4   D1   R14
D5   PIC D0 14500   R15
D6   IC3 A0
D7   A1   R17 R16   D1 D2 D3 D4
          A2   C5 IC4 b0 b1 b2 b3
          A3   R18   D5 4049
          A4   CK   MON
          A5 R19   A   D
          A6   DT C6   D6   D
          A7 R20   WR   D7   RR
                       R21   +V
                  IC5   C8   R22   0
                                      J6 +V
          ROM   IC6   R25 C9 R24
          C10   R23 R28 R30
                                R27 R29
C11 R31 R32   R26 R33 R36 SW5
J7   J8   R34 R35
     A8   A9   4011 IC7   IN

J9   R41 GND   R38 R39
C12 D8   POW   R37 R40
          IC8 4520   IC9 4512   R42 R45 RR
                      DT RD   R43 R44 J10 J11
C13   C14   C15   2024.1 JK1MLY

b4 b5 b6 b7

MC14500B Instruction Set

#0 NOPO	#4 ANDC
#1 LD	#5 OR
#2 LDC	#6 ORC
#3 AND	#7 XNOR

#8 STO	#C JMP
#9 STOC	#D RTN
#A IEN	#E SKZ
#B OEN	#F NOPF

MEM Format
4bits   4bits
7 6 5 4 3 2 1 0
OP Code I/O Adr
1 Code Adr3
0 Adr2 Adr1

Ref(Not Impl)
CLK 12bits

W ADR I/O
1 8-F 4099 WR
1 0-7
0 8-F
0 0-7 4512 RD

4001 NOR x4
4011 NAND x4
4049 INV x6
4099 Adr Lat
4512 Dat Sel
4520 Bin Cnt

S-PIC
A RB6
B RB7
C RE3

ROM
upper
FF

Power
CPU 3-15V
EPROM 5V
PIC 3-5V