

dev4hs-1.bmp

dev4hs-2.bmp

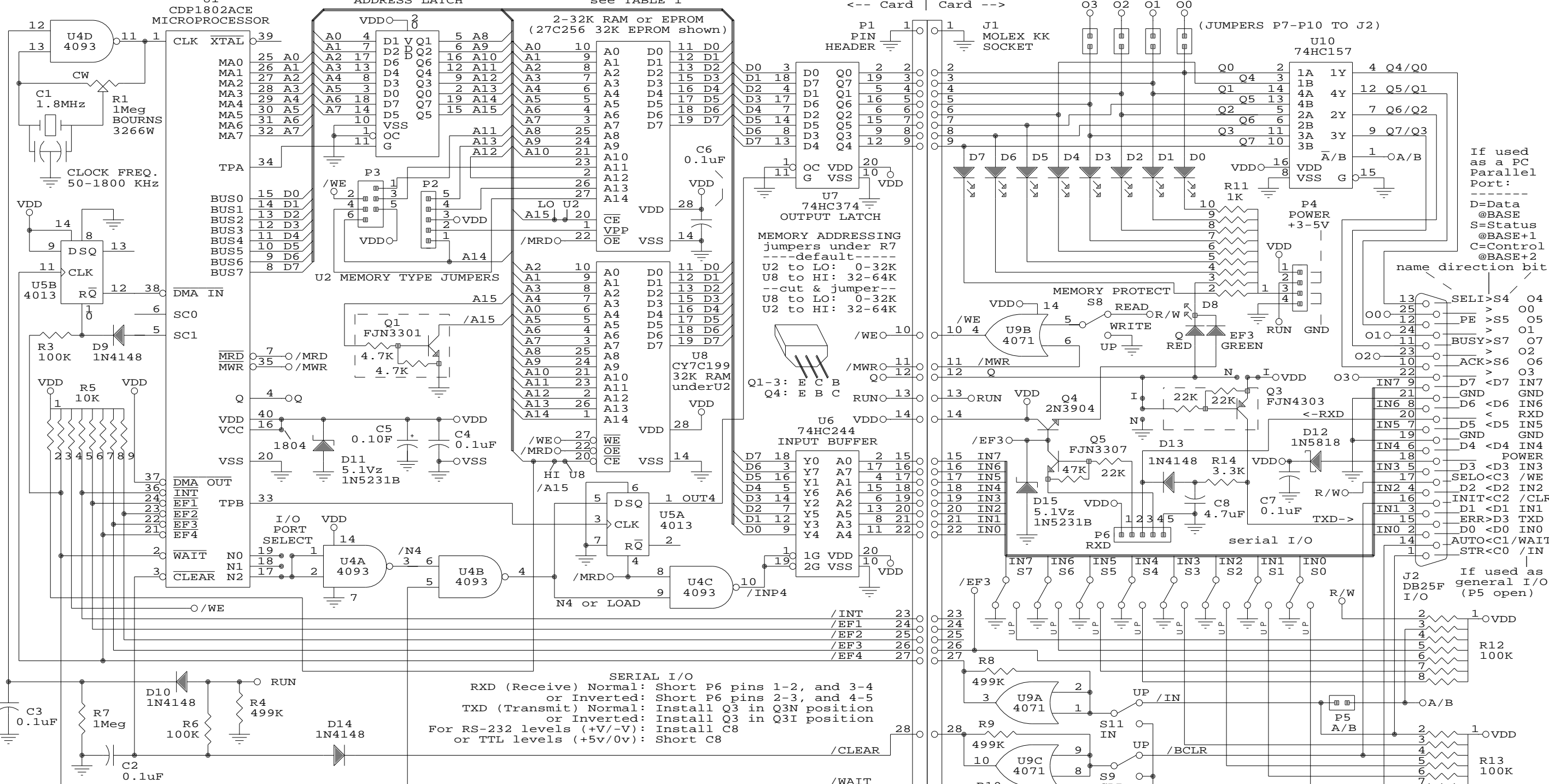


TABLE 1: U2 Memory Type Jumpers

U2 part#	type	Pin Numbers	Jumpers
		1 23 26 27	P2 P3
62256	32K RAM	A14 A11 A13	/WE 1-2,4-5 1-3,2-4
6264	8K RAM	A11 VDD	/WE 3-4 1-3,2-4
* 6116	2K RAM	/WE VDD	3-4 2-3
27256	32K EPROM	VDD A11 A13 A14	2-3,4-5 1-3,4-6
27128	16K EPROM	VDD A11 A13 VDD	2-3,4-5 1-3,4-5
2764	8K EPROM	VDD A11 NC VDD	2-3 1-3,4-5
* 2732	4K EPROM	A11 VDD	3-4 1-3
* 2716	2K EPROM	VDD VDD	3-4 3-5

Notes:
 For PC Parallel Port, set S0-7 & S9-11 UP, S8 DOWN.
 Rev.B: Add Q1 to set U2 /CE=0 when TPB=1 & A15=0.
 R8-10 was 100K, now 470K. Add RUN on P4-13.
 Add C6=82pF. Add feedthru "O" (drill for 1804 to open VCC). I/O port was 5 or 7, now 4-7.
 Rev.C: R4, 8-10 was 470K, now 499K. C6 was 82pF, now 100pF.
 Rev.D: R2 was 15K, now 6.8K. Add R14 for RS-232 input. Add D12. Add J2 signal names. Swap P1-J1 designators. Add jumpers A/B, Q0-Q3 for 8 outputs on J2. Add N0-N2 & Q1 options to stack 2 Membership Cards w/o memory or I/O conflict.
 Rev.E: Add room for larger C5 (up to 0.22F).
 Rev.F: Remove R2; use R1 in its place. Replace C1 with 1.8 MHz ceramic resonator.
 Rev.G: Add U8. Change C6 to bypass cap. Add serial I/O to J2 using Q and EF3.
 D8 is red for Q=1 (TXD active), green for EF3 pin=1 (RXD active).
 Rev.H: Add D14, move R4. Replace "O" with jumper (open for 1804). R5 was 100K now 10K. Q1 was 2N7000, now FJN3301 (faster /A15 pullup). Front Panel: remove R15, add P6.

TMSI c/o Lee Hart
 814 8th Ave N
 Sartell MN 56377
 leeahart@earthlink.net

Title
 1802 Membership Card and Front Panel Card

Size Document Number
 B C:\ORCAD\SHEET\1802\DEV4HH.SCH HH

Date: April 18, 2015 Sheet 1 of 1