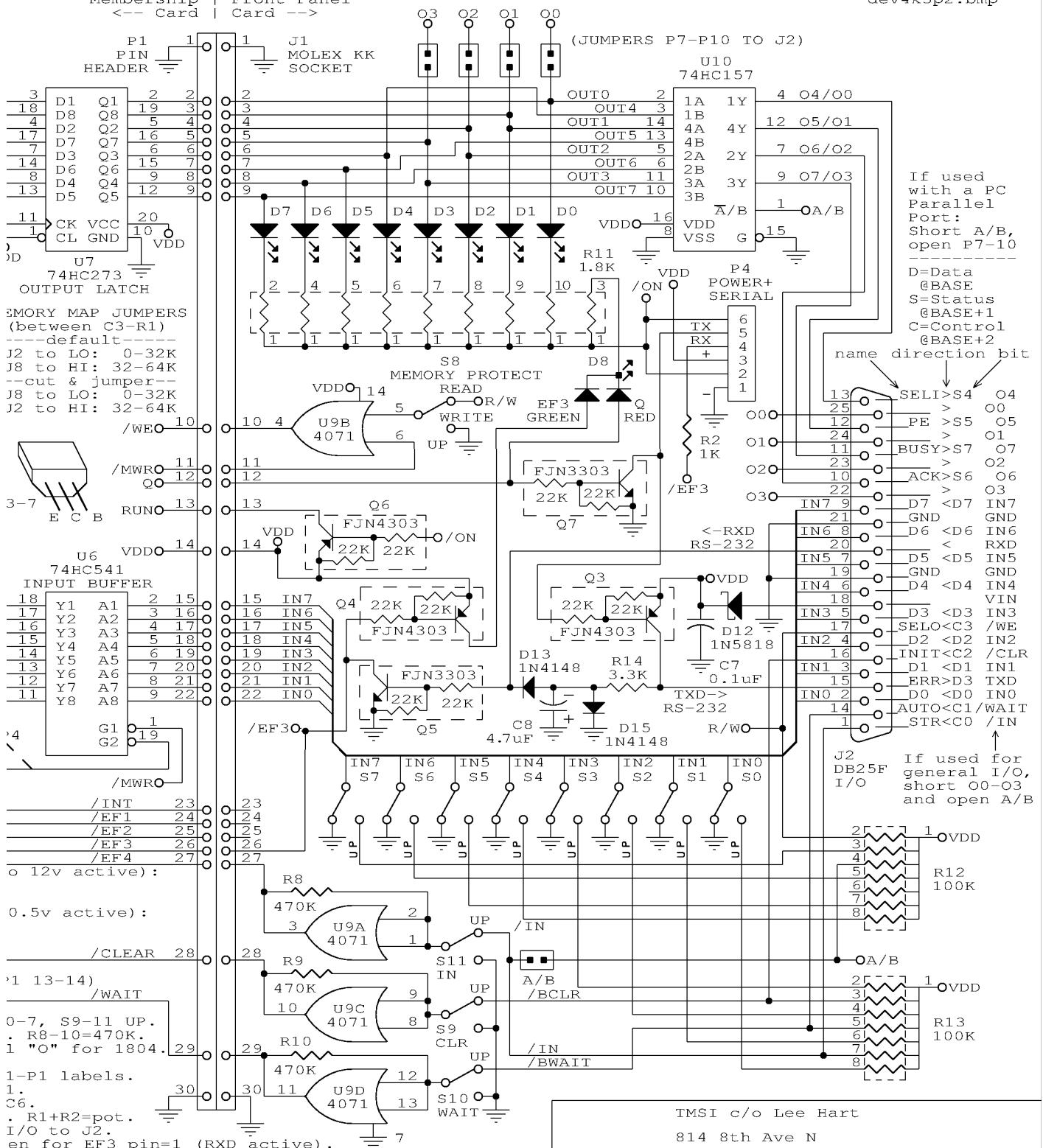


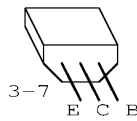
TABLE 1		Pin Numbers				Jumpers	
U2 part#	type	1	23	26	27	P2	P3
62256	32K RAM	A14	A11	A13	/WE	1-2, 4-5	1-3, 2-4
6264	8K RAM	A11	VDD	/WE		3-4	1-3, 2-4
* 6116	2K RAM	A11	VDD	/WE		3-4	2-3
27256	32K EPROM	VDD	A11	A13	A14	2-3, 4-5	1-3, 4-6
28C256	32K EEPROM	A14	A11	A13	/WE	1-2, 4-5	1-3, 2-4
27128	16K EPROM	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
28C64	8K EEPROM	VDD	A11	NC	/WE	2-3	1-3, 2-4
* 2732	4K EPROM	A11	VDD			3-4	1-3
* 2716	2K EPROM	VDD	VDD			3-4	3-5

* is a 24-pin IC: put its pin 1 into socket pin 3.
 pin 6 /ON: GND to Run, Open for Standby.
 pin 5 TX: TTL serial out.
 pin 4 RX: TTL serial in.
 pin 3 VDD: +3 to +5 VDC (3 AA cells etc)
 pin 1 GND: Common for power (VSS).

For PC Parallel Port: Set S8 DOWN, S0-7
 Rev.B: Add Q1 /CE=TPB & /A15. Add C6. R
 Add RUN on P4-2. I/O port=4-7. Drill "
 Rev.C: R4,8-10=499K, C6=100pF.
 Rev.D: R2=6.8K. Add R14, D12. Swap J1-P
 Add jumpers for Q0-Q3, A/B, N0-2, Q1.
 Rev.E: C5=0.22F, was 0.047F. Delete C6.
 Rev.F: C1=1.8MHz resonator, was 20pF. R
 Rev.G: Add U8, C6. Add Q/EF3 serial I/O
 D8 is red for Q=1 (TXD active), green
 Rev.H: Add D14. R4 was /CLEAR now GND.
 Rev.H2: Add Q1+Q2 for /A15 inverter. Re
 Rev.I: P4 now 6-pin (use Sparkfun #9718
 PCB across C8. P4 /ON is RUN+LED: GND=
 Rev.J: Fix Q4 silkscreen. Add D15. Add
 Rev.K: R1=10meg, was trimpot. U4=74HC00
 controls U8 /CE. U8 unscramble A0,2,3,
 Rev.K2: U6=74HC541, was 74HC244. R8-10=4
 Rev.K3: U7=74HC273, was 74HC374. Add si



MEMORY MAP JUMPERS
 (between C3-R1)
 -----default-----
 J2 to LO: 0-32K
 J8 to HI: 32-64K
 ---cut & jumper---
 J8 to LO: 0-32K
 J2 to HI: 32-64K



o 12v active):
 0.5v active):
 '1 13-14)
 /WAIT
 0-7, S9-11 UP.
 . R8-10=470K.
 1 "0" for 1804.
 1-7
 1-P1 labels.
 1.
 C6.
 . R1+R2=pot.
 I/O to J2.
 en for EF3 pin=1 (RXD active).
 D. Q1=FJN3307, was 2N7000. R5=10K, was 100K.
 Replace R15 with P6 serial RXD jumper. Add D15.
 718 USB-serial cable). Add D15 UNDER
 ND=run clock, 1802, LEDs; VDD or open=standby.
 dd Q7 to invert serial out (Q=0 is idle, LED off).
 C00, was 4093. Eliminate C6, R7. U4D was osc, now
 ,3,4 & add jumpers to swap pins 1-27 for EPROM.
 0=470K,was 499K. D11=1N4734,was 1N5231. C5=0.33F.
 signal names to P1/J1.

If used with a PC Parallel Port:
 Short A/B, open P7-10

D=Data @BASE
 S=Status @BASE+1
 C=Control @BASE+2

name direction bit

SEL1>S4 O4
 > O0
 PE >S5 O5
 > O1
 BUSY>S7 O7
 > O2
 ACK>S6 O6
 > O3
 IN7 9 D7 <D7 IN7
 IN6 8 D6 <D6 IN6
 < RXD
 IN5 7 D5 <D5 IN5
 IN4 6 D4 <D4 IN4
 IN3 5 D3 <D3 IN3
 SELO<C3 /WE
 IN2 4 D2 <D2 IN2
 INIT<C2 /CLR
 IN1 3 D1 <D1 IN1
 ERR>D3 TXD
 IN0 2 D0 <D0 IN0
 AUTO<C1 /WAIT
 STR<C0 /IN

If used for general I/O, short O0-O3 and open A/B

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Title 1802 Membership Card and Front Panel Card		
Size	Document Number	REV
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