



For RS-232 serial (TXD and RXD normal i.e. not inverted):
Install C8, R15. Leave out Q2. Install Q3 at Q3N position.

For TTL serial (TXD and RXD inverted): Install Q2.
Short C8. Leave out R15. Install Q3 at Q3I position.

TABLE 1

U2 part#	pin#s:	1	23	26	27	P2	Jumpers	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	

* is a 24-pin chip: put its pin 1 into socket pin 3.
P4 power pin 1 VDD: +3 to +5 VDC (3 AA cells etc.)
connector pin 2 RUN: to pin 1 to run, open stops osc.
pin 3 LED: to pin 4 enables LEDs, open=off.
pin 4 COMMON for power (GND, VSS).

- Notes:
- Boards stack; Front Panel on top, Membership Card on bottom, both component side up.
 - PC Parallel Port: Set S0-7, S9-11 UP, S8 DOWN.
 - Uses C1-8, D0-13, J1-2, P1-9, Q1-4, R1,3-15, S0-11 and U1-10.
 - Rev.B: Add Q1 to gate U2 /CE w. TPB & A15. R8-10=470K, was 100K. Add RUN on P4-13. Add C6=82pF. Add feedthru "O"; drill for 1804 to open VCC. I/O port 4-7, was 5or7.
 - Rev.C: R4 and R8-10 were 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. Replace C1 with 1.8 MHz ceramic resonator.
 - Rev.G: Add U8, C6. Add serial I/O using Q, EF3. D8 now red for Q=1 (TXD active), green for EF3 pin=1 (RXD active). R5 was 100K now 10K. Q1 was 2N7000 now FJN3301.

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
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