



# Tynemouth Software

## RAM TESTS

The RAM tests show results per bit of RAM. This differs for each board type. The results are laid out according to the layout of chips on the board, so you can see from the results which chip is at fault.

### 2001

If your board is a 2001 with 2114 or 6550 RAM, each chip provides 4 bits of 1024 bytes.

Address range	Bits 7654	Bits 3210
0000-03FF	J1	I1
0400-07FF	J2	I2
0800-0BFF	J3	I3
0C00-0FFF	J4	I4
1000-13FF	J5	I5
1400-17FF	J6	I6
1800-1BFF	J7	I7
1C00-1FFF	J8	I8

### 2001N (3008/3016/3032/4008/4016/4032 9" (NO CRT))

If your board is a 2001N series board, 16K and 32K machines use 4116 chips which provide 1 bit each in 16384 bytes. 8K machines use 4108 chips which provide 1 bit each of 8192 bytes.

Address Range	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0000-3FFF	I2	I3	I4	I5	I6	I7	I8	I9
4000-7FFF	J2	J3	J4	J5	J6	J7	J8	J9

### 4016/4032/8032 12" (CRT)

If your board is a 4000 or 8000 series board with a CRCT, this uses 4116 chips which provide 1 bit each in 16384 bytes.

Address Range	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0000-3FFF	UA5	UA7	UA9	UA11	UA13	UA15	UA17	UA19
4000-7FFF	UA4	UA6	UA8	UA10	UA12	UA14	UA16	UA18

## ROM TESTS

ROM chips are tested several times and the resulting CRC compared to a list of known PET ROM chips. The chip locations are displayed on the screen during the test results. If the results show 'inconsistent CRC', this means the CRC changed during testing, indicating a faulty or intermittent ROM chip. This can be caused by one of the ROM chips being enabled over a wider address range than it should be due to faulty enable line or decoding logic.

## BURN IN TEST

The tests will cycle for as long as you want.