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Apple III Hardware: 12-volt Confidence RAM Test

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A Confidence RAM Test for Apple IIIs is on the Confidence Disk and the Dealer Diagnostic Disk. With this test, you can locate bad chips on a 12-volt board.

--> NOTE: Before running the Confidence RAM test, remove all peripheral cards from the Apple III, especially any ProFile interface cards and Grappler printer cards.

The test results show the bank, address, and test expectations and actual performance. For example, after the test, say the console displays:

BNK 82, ADR 67AF, EXP 40, GOT 48.

To locate the bad chip, you must translate these results into a map that corresponds to the 3 banks of 16 chips on the memory board.

1. The bad chip is in bank 2. The bank number comes from the last digit of the BNK field.

```

BANK: 0      x x x x x x x x x x x x x x x x
BANK: 1      x x x x x x x x x x x x x x x x
BANK: 2      X X X X X X X X X X X X X X X X

```

2. The bad chip is in the right side of the bank. The side is determined by the range that the address, 67AF, the number in the ADR field, falls into.

```

                ADDRESS RANGE:          ADDRESS RANGE:
                2000-3FFF                4000-7FFF
                8000-9FFF
BANK 0          x x x x x x x x x x x x x x x x

```

```

                ADDRESS RANGE:          ADDRESS RANGE:
                0800-0FFF                0000-07FF
                1800-1FFF                1000-17FF
                C000-C7FF                A000-BFFF
                D000-D7FF                C800-CFFF
                E000-FFFF                D800-DFFF
BANK 1          x x x x x x x x x x x x x x x x

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