A microprocessor No-Op fixture allows us to test a logic board with signature analysis. With a 68000 No-Op fixture, you can use the Atari Cat Box to do signature analysis on the Atari logic boards for Quantum and Food Fight.

A No-Op fixture consists of an IC socket for the CPU, a header or component carrier, and wire and other parts used to interconnect the two. Wire is used to make the fixture output a microprocessor instruction for the logic board by having a special instruction output out of the CPU fixture, we are able to get the same signatures from board to board.

The header has the CPU socket mounted on top of it. The socket recommended is a low-insertion socket like the TEXTOOL 264-4493. The bottom of the CPU socket has the wiring done to it. After the CPU socket is wired, certain pins of the CPU socket are then wired to the header. The header is plugged into the CPU socket on the logic board.

The wiring for a 68000 No-Op fixture appears below. Signatures for the Atari Quantum logic board appears on the following pages.

68000 NO-OP FIXTURE (CPU SOCKET)
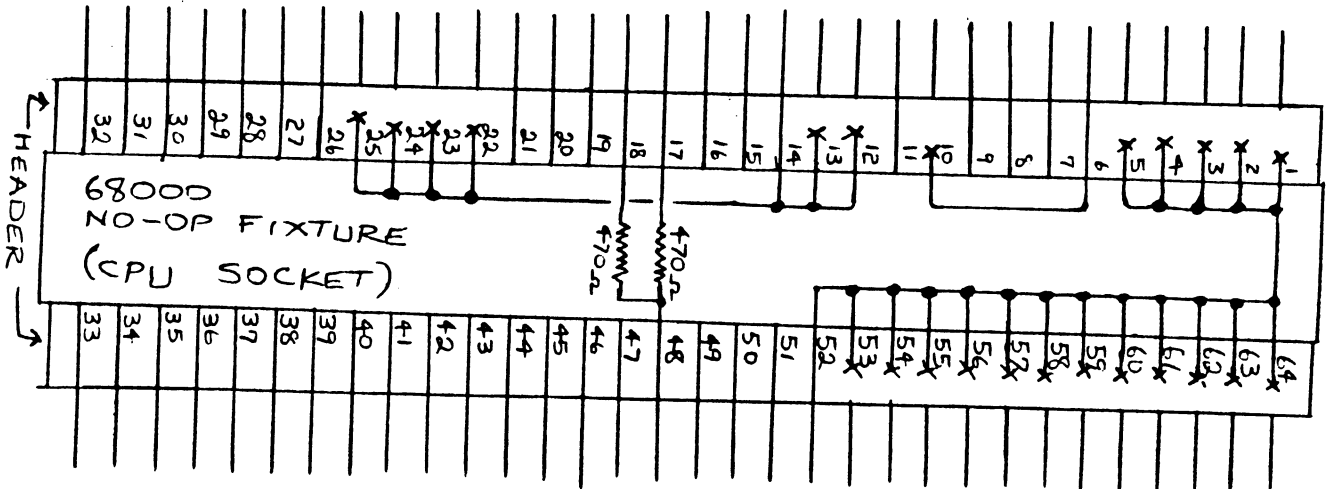
QUANTUM

PROBLEM: The game will occasionally give 4 credits on the left coin mech and 12 credits on the right coin mech.

SOLUTION: Obtain the following Rom update:

NEW ROM PART#	LOCATION	REPLACES ROM#
136016-201	2E	136016-101
136016-203	2H/J	136016-103
136016-206	3E	136016-106
136016-208	3H/J	136016-108

These Roms correct a timing problem concerning the Pokey Chip, in location 2/3D, that reads the option switches.