

## Memorex 801 Tester

### General Description

The Memorex 801 Tester is a compact and convenient test instrument which is intended to be used for functional analysis of the Memorex 601 Disc Storage Drive. The 801 consists of a preprogrammed microprocessor and associated logic, an operator control and display unit and appropriate cables. The entire unit is carried in a small case to protect against damage and as a convenience in handling.

To operate the tester, it is simply inserted into either I/O connector of the 601 and a test routine is entered via the keyboard. A hexadecimal display on the operator control indicates the routine entered and the results of the test. Test routines allow checking 601 basic functions such as servo channel operations, read/write channel performance and measurement and adjustment of access time.

The 801 is a simple, easy-to-operate diagnostic tool for both factory and field use.

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**Characteristics**

The 801 will perform the following routines:

**Servo Routines**

Alternate Seek—Continuous between cylinder x and cylinder y.

Random Seek—Random seek between cylinder x and cylinder y.

Incremental/Decremental Seek—To cylinder x, incrementally to cylinder y; decrementally to cylinder x and repeats.

Forward and Reverse Offset—Performs offset reset followed by offset forward or reverse.

**Read/Write Routines**

Read Continuous—Write for one revolution then read continuously—Error count displayed.

Write Continuous—Continuous on selected head and data pattern.

**Miscellaneous**

Index—Checks for latency.

Tach Gain—Checks servo velocity and access time (average).

Fault Operation and Detection—Simulates up to five faults and verifies write circuits are inhibited when fault repeats.

Dual Port Selection—Exercises Select, Release, Force Release, and Reserved signals.

Drive Check Routine—One continuous routine checking servo and read/write systems allowing identification of area of fault (servo or read/write).

**Physical Characteristics**

Size: 15<sup>3</sup>/<sub>4</sub>" x 7<sup>1</sup>/<sub>2</sub>"

Weight: 2 pounds

Power: Power derived from 601

6msec./track          6 msec/track

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