

Memorex 652 Flexible Disc File

A low cost, highly reliable, IBM compatible OEM subsystem with product enhancement capabilities, the Memorex 652 stores up to 3.2 megabits on interchangeable flexible disc cartridges.

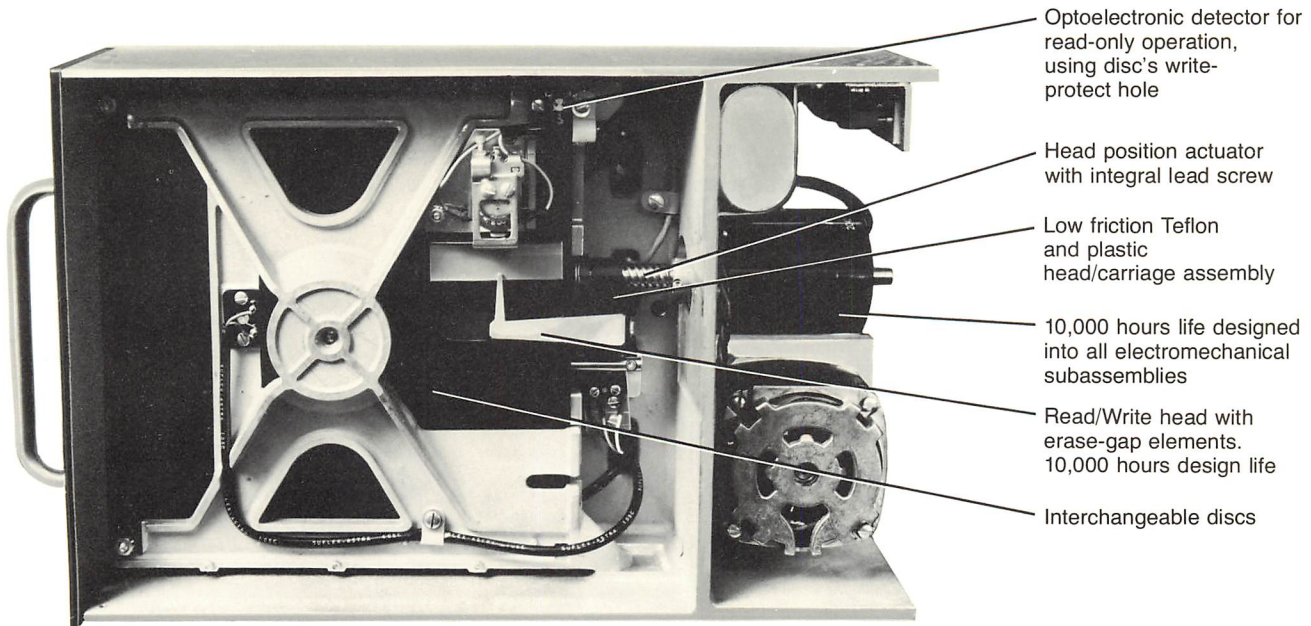
Memorex Markette I cartridges, IBM Diskettes, and other physically similar cartridges, may be used on the 652. Discs may be written and read on the 652, with an appropriate host system, and the IBM 3740 Data Entry System interchangeably. The

Markette I is initialized for 3740 use, but may be used with other formats for new applications.

The Memorex 652 unit connects to the host system through two cables, one for TTL compatible control and data signals, the other for power. The unit provides all mechanical and electrical functions, required for on-line data storage and retrieval, except for addressing, function requests, data formatting, and power supplied by the user.

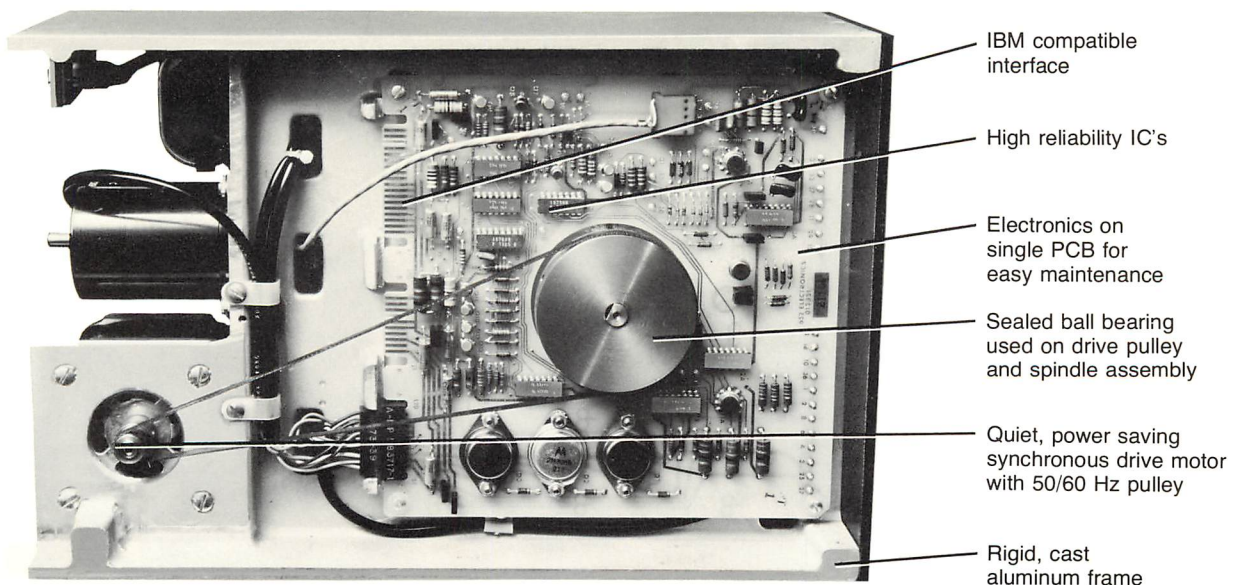
Compatibility with 3740 features, such as low-current writing on inner tracks, is assured by the head, drive and electronics design. The unit also offers considerable flexibility in host controller design, particularly when interfacing to minicomputers and microprocessors.

Read-only operation is provided by the write-protect hole in the disc cartridge and an LED-phototransistor circuit in the 652.



MEMOREX

652 Flexible Disc File



Key Features

- IBM compatible
- 10 ms track-to-track access
- Capable of high speed slewing
- 250 kilobits/second data transfer
- Write protect
- High reliability
 - 10⁹ bits read/soft error
 - 10¹² bits read/hard error
- 10,000 hours design life
- Superior, low-cost media
 - Markette I disc (or equivalent)

Typical Applications

- 3740 Compatible systems
- Control store loading
- Auxiliary storage
- Data logging
- Key entry recording
- Programmable calculator peripherals
- Accounting machine storage
- Point of sales systems

Specifications

Capacity and format specifications below refer primarily to unique OEM formats. When the format is that of the IBM 3740 Data Entry System, the Markette's nominal capacity is 1.9 megabits with 26 sectors per data track.

Capacity (unformatted)

41 kilobits per track
3.2 megabits per disc

Format

77 tracks per disc
1 index per track
Sectors per track, user selected and formatted

Recording Mode

Frequency modulation

Recording Density

3268 bits per inch (inside track)

Operating Rates

360 RPM rotational speed
83 ms average latency
10 ms step rate, track to track access time
10 ms access settling time
250 kilobits per second data transfer

Operational Environment

60° to 100°F
20% to 80% RH with maximum wet bulb 78°F

Power Requirements

AC Power
100 to 132 VAC, 1.0 amp, single phase
50/60 Hz \pm 1.0 Hz

DC Power

+24 VDC, 1.5 amp
+5 VDC, 0.8 amp
-5 VDC, 0.05 amp (or -12 VDC or -15 VDC)

Heat Dissipation

346 BTU per hour, nominal

Physical Dimensions

9" high x 4½" wide and 14" deep

Weight

17 pounds

Options

208/230 VAC, single phase, 50/60 Hz
Chassis slide mounting hardware

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