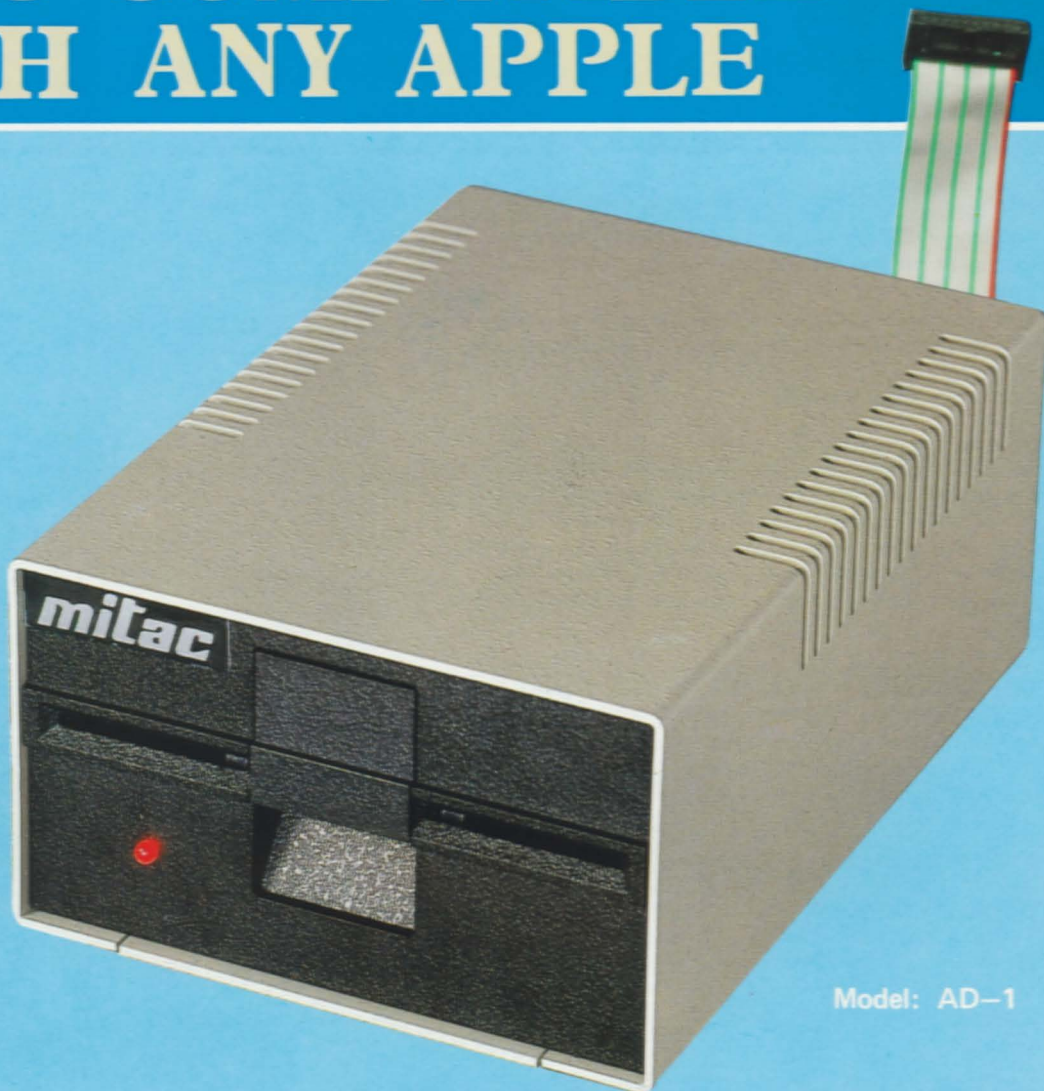# PLUG COMPATIBLE WITH ANY APPLE

Model: AD—1

Get A MATE–I™ for Your Apple

MITAC's 5¼ inch disk drive MATE-I is perfectly compatible with your Apple II® computer system. It matches in quality, functions, and even cabinetry, but at less cost to you. The track format and storage capacity of your MATE-I DRIVE are identical to those of Apple II's disk drive. There's no need for resectoring or software modification of existing programs.
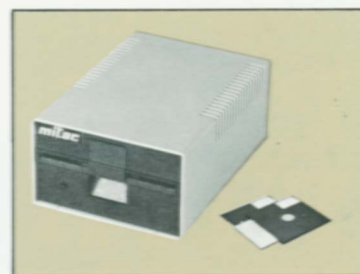
MATE-I can easily fit in Drive 1 thru. Drive 6 on either an Apple or Apple compatible disk interface card.

MATE-I is engineered and built to the most demanding industrial standards of reliability, availability, and maintainability. With a mechanism so super that all I/O errors are virtually eliminated, and having passed through the crucial 48 hours of the burning-in test, you can be sure of its reliability. When you own a MATE-I DRIVE, your Apple is enriched. For further information, please contact us today. International Dealer/Distributor inquiries welcomed.

- INSTANT INSTALLATION
- MORE RELIABLE
- FULLY COMPATIBLE
- SOFTWARE TRANSPARENT
- LESS EXPENSIVE
- WARRANTY PROVIDED

mitac

MATE-I ™

THE MOST COST-EFFECTIVE ADD-ON DISK DRIVES FOR YOUR APPLE II ® COMPUTERS

1. INSTANT INSTALLATION

Installation of your MATE-I drive is simply a matter of plugging the ribbon connector of the disk drive to the interface card of your Apple Computer.

Apple DOS is automatically loaded into the computer after the system is switched on provided the system diskette is in the drive.

No external DC or AC power is required.

2. MORE RELIABLE

Since there is no substitute for the performance and reliability of MITAC's products, our proven quality controlled manufacturing and State-Of-The-Art design ensures you of receiving a unit which passes our strictest of tolerance, calibration and final inspection programs. Thereby providing a truly reliable disk drive for your computer system.

3. FULLY COMPATIBLE

The MATE-I Disk Drive is a fully compatible unit with the Apple II Computer System, having the same track formatting, storage capacity, cabinetry, color, and related functions as the Apple II Disk Drive. It can therefore be used on ANY Apple System, or Apple compatible interface.

4. SOFTWARE TRANSPARENT

Since MATE-I is fully compatible with the Apple II Disk Drive, all software such as Apple DOS, PASCAL, CP/M... etc. can run on MATE-I with no modification. Hence, your software needs can be met by the enormous amount of available software for applications ranging from games to business.

5. LESS EXPENSIVE

Compare our performance and then compare our price, you'll see that although our MATE-I sells at a highly competitive price, our quality and functions are unsurpassed.

6. WARRANTY PROVIDED

MATIC Inc. warrants all of the hardware of MATE-I against defects in materials and workmanship for THREE MONTHS from the date of purchase. During the warranty period, MITAC will repair, or at its election, replace a defective drive or part at NO CHARGE to the original purchaser provided the products is returned freight prepaid to MITAC or an authorized repair station and under MITAC's limited warranty terms on the warranty card.

Model: AD-1

PERFORMANCE SPECIFICATIONS

Capacity	
Unformatted-	
per disk:	218.8 kbytes
per track:	6.26 kbytes
Formatted (soft sectoring)-	
per disk:	143.4 kbytes
per track:	4096 bytes
per sector:	256 bytes
sectors per track:	16
Transfer Rate:	250 k bits/sec
Latency (average):	100 ms
Access Time –	
track to track:	20 ms
average:	275 ms
settling time:	10 ms
Disk Motor Start Time:	1 sec

FUNCTIONAL SPECIFICATIONS

Rotational Speed:	300 RPM
Recording Density (inner track):	5162 bpi
Flux Density (inner track):	5162 fci
Track Density:	48 tpi
Tracks:	35
Media:	Industry Compatible 5¼ inch diskette

PHYSICAL SPECIFICATIONS

Environmental Limits –	
Ambient Temperature (exclusive of media)	
Operating:	10°C to 44°C (50°F to 112°F)
Non-operating:	-22°C to 47°C (-8°F to 117°F)
Relative Humidity (exclusive of media)	
Operating:	20% to 80% (Non-condensing)
Non-operating:	5% to 95% (Non-condensing)
DC Voltage Requirements –	
+12VDC + 5%:	0.6 Amp (typical use)
+5VDC + 5%:	0.2 Amp (typical use)
Mechanical Dimensions –	
Width:	6.13 in. (155.6mm)
Height:	3.99 in. (101.5mm)
Depth:	8.63 in. (219.3mm)
Weight:	2.0 kg (4.4 lb)

RELIABILITY SPECIFICATIONS

MTBF (Mean Time Between Failure):	8000 Power On Hours (typical usage)
PM (Preventive Maintenance):	Not Required
Error Rates	
Soft errors:	1 per 10^8 bits Read
Hard errors:	1 per 10^{11} bits Read
Seek errors:	1 per 10^6 Seeks
Component Design Life:	5 Years
Media Life:	3.0×10^6 passes per track

PHYSICAL SPECIFICATIONS

Dimensions	Cabinet 4"x6.2"x8.7" (HxWxD) Packing 6"x8"x10.5"
Weight	Net 1.5kg Packing 2.3kg

- Mate-I ™ is a trade mark of MITAC Inc.
- Apple II, and Disk II are registered trade marks of Apple Computer, Inc.
- CP/M is a registered trade mark of Digital Research Inc.
- Pascal is a trade mark of UCSD.

American mitac Corp.

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