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APPLIED ENGINEERING®

A DIVISION OF AE RESEARCH CORPORATION

AE 3.5" Disk Drive

3Q 1991-3891

Installation Instructions

Introduction

These instructions include information about the installation and use of both the AE 3.5" Drive for Macintosh and the AE 3.5" Drive for Apple II and Macintosh.

The Applied Engineering 3.5" Disk Drive allows you to store and retrieve up to 800K of information on double sided, double density floppy disks. The drive lights keep track of the drive's activity; **red** when the drive is **writing** to a floppy, **green** when it is **reading** from a floppy. The drive's DB-19 type connector plugs directly into the back of an Apple Macintosh, IIGS or Apple //c Plus. It also has the capability of daisy-chaining to a daisy-chain connector of another 3.5" Drive. The 3.5" Disk Drive can also be connected to an Apple //e or][Plus with an AE 3.5/5.25 Controller Card installed. (The UniDisk Controller card will not work.)

Requirements

Locate your computer in the following list to determine what you need in order to use the AE 3.5" Drive:

- ❑ **Macintosh**

  Finder v5.1: Macintosh users must use Finder version 5.1 or later. Earlier versions do not work with 800K drives. See your Apple dealer for the latest system version.

  Mac II and IIfx: If you're using a Macintosh II or IIfx, you'll need the external drive adapter available from AE.

- ❑ **Apple IIGS & //c Plus**

  You don't need anything special in order to connect an use the AE 3.5 drive with the IIGS and the //c Plus.

- ❑ **Apple //e or][Plus**

  Controller Card: Apple //e and][Plus users need an AE 3.5" Controller Card installed. (The UniDisk Controller Card will not work.)

Installation

Macintosh

With power to the computer turned OFF, connect the DB-19 cable from the disk drive to the DISK PORT on the back panel of the computer.

IIGS and //c Plus

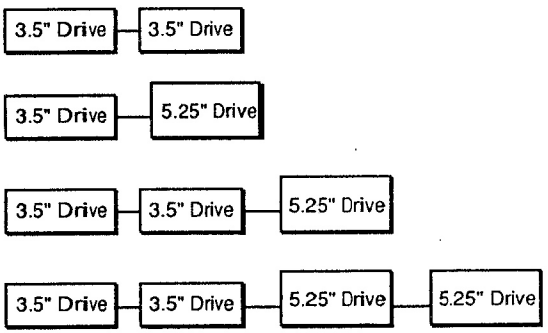
With power to the computer turned OFF, connect the DB-19 cable from the disk drive to the DISK PORT on the back panel of the computer or daisy-chain it to an external 3.5" Drive that is already connected to the computer.

Daisy-Chaining (IIGS and //c Plus only)

Daisy-chaining is connecting drives attached to a IIGS to each other. This is made possible by the female connector on back of the drive.

Macintosh users cannot daisy-chain drives. While it is physically possible to connect the drives, only the one connected to the CPU will work.

When daisy-chaining, always keep the 3.5('s) first in the chain. Some possible daisy-chain configurations are shown below:



Configuration Examples

Turn off the computer before daisy-chaining.

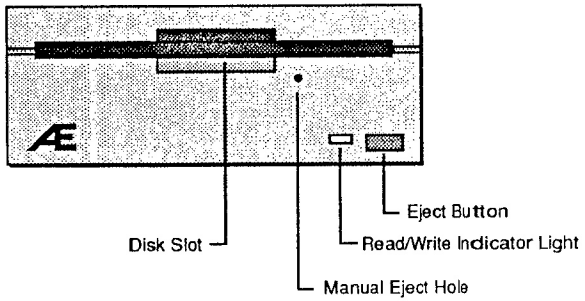
Do not daisy-chain more than two 3.5" drives and two 5.25" drives. The strain on the power supply will be too great.

Installation for the Apple //e and][+

To connect the AE 3.5" Drive to the //e or][Plus, you must have a 3.5" drive controller card installed. Once the controller card is installed, *with power to the computer turned OFF*, connect the AE 3.5" Drive cable to the card's DB-19 connector you've attached to the back of the computer.

Turn Off Computer When Connecting or Disconnecting

When connecting or disconnecting the drive, turn the computer off. If power is left on, the drive and the computer will possibly be damaged.



Ejecting the Disks

You can eject the disks while the computer is on by pressing the eject button. After pressing the button, the disk will eject when it is not being read from or written to. When using the Finder on the Macintosh or IIGS, eject the disk by dragging its icon to the trash can.

When the power is off, you can eject the disk by inserting a straightened paper clip into the small manual ejection hole to the left of the eject button and then pushing the internal lever. This will not harm the disk or the drive but, when possible, eject the disk while the computer is on by dragging the disk icon on the Finder to the trash icon or by using the eject button.

Applied Engineering

Telephone Numbers

Technical Support
Macintosh - (214) 241-6084
Apple II - 1-900-369-2323
9 AM to 5 PM (CST) Monday - Friday
Do not return any product for service without a
Return Material Authorization (RMA) number.
An RMA number can be obtained by calling Technical Support.

Bulletin Board System - (214) 241-6677
300/1200/2400 baud
8 Bit, No Parity, Full Duplex, MNP-5, 24 Hours, 7 Days a Week

Sales
(214) 241-6060
9 AM to 6 PM (CST), Monday - Friday

Federal Communications Commission
Radio Frequency Interference Statement

The equipment described in this document generates and uses radio frequency energy. If it is not installed and used properly, that is, in strict accordance with these instructions, it may cause interference to radio or television reception.

FCC I.D. Number: EYWAE-3.5

This equipment has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of the FCC Rules. These rules are designed to provide reasonable protection against radio and television interference in residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ❑ Reposition the receiver's antenna. Also make sure the antenna wires are making good electrical contact.
- ❑ Use a roof-mounted antenna rather than a "rabbit-ear" antenna or antenna mounted in the attic.
- ❑ Make sure that all electrical connections on the computer are secure and any shielded I/O cables that are required for compliancy are properly fastened.
- ❑ Move the computer away from the receiver.
- ❑ Plug the computer and receiver into separate electrical circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

Warning: This equipment has been certified to comply with the limits for Class B computing device, pursuant to Subpart J of Part 15 of FCC Rules. Only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this computer. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Finally, any unauthorized changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Limited Warranty and Disclaimer

Applied Engineering warrants the AE 3.5" Disk Drive purchased from Applied Engineering against defects in material and workmanship for a period of 1 year from the date of original retail purchase. Any misuse, abuse, or non-AE authorized alteration, modification and/or repair to the Applied Engineering product will void the warranty. This warranty will also be void if you use the AE product for any other purpose than its intended use. If you discover a defect, Applied Engineering will, at its option, repair or replace only the Applied Engineering product, provided you return the product during the warranty period, transportation prepaid, to Applied Engineering.

This warranty applies to the original retail purchaser only. Therefore, please include a copy of the original invoice or a small service charge may be applied. If the product is to be sent to Applied Engineering by mail, the purchaser will insure the package or assume full responsibility for loss or damage during shipping. Prior to returning the product for warranty consideration, call Applied Engineering Technical Support for a Return Material Authorization (RMA) number and shipping instructions.

In no event will Applied Engineering be liable for loss or damages of any kind caused either directly or indirectly by the use or possession of its products, even if advised of the possibility of such damages. The Applied Engineering Warranty is for the Applied Engineering Product itself. In particular, Applied Engineering shall have no liability for any other equipment used in conjunction with Applied Engineering products nor for programs or data stored in or used with Applied Engineering products, including the costs of recovering such equipment, programs, or data.

The warranty and remedies set forth above are exclusive and in lieu of all others, oral or written, express or implied. No Applied Engineering dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

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