

ViewMaster 80TM

Addendum

AppleWorks ExpanderTM
Utility

 APPLIED ENGINEERING

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Introduction

This addendum is a supplement to the ViewMaster 80 User's Manual and contains the instructions for the ViewMaster 80 AppleWorks Expander utility disk. These instructions will tell you how to modify AppleWorks to run on an Apple II Plus computer with a ViewMaster 80 installed.

The AppleWorks Expander™

AppleWorks is a best-selling program from Apple Computer that combines a word processor program, a data base program, and a spreadsheet program into one integrated software package. Its popularity is well deserved. It is extremely versatile and easy to learn and use.

Until now, one of the drawbacks of AppleWorks was that it would not run on an Apple II Plus. AppleWorks was originally written for the Apple //e, not its predecessor, the Apple II Plus. The AppleWorks Expander is a menu-driven utility program that will patch (modify) the AppleWorks startup disk to compensate for the differences between the Apple //e and the Apple II Plus. It also adds some features that the standard AppleWorks does not have. Here's what the AppleWorks Expander will do:

- Enable AppleWorks versions 1.2 or 1.3 to run on the Apple II Plus.
- Patch AppleWorks to support lower-case character set input and display.
- Support alternate keyboard commands to emulate Apple //e keys not available on the Apple II Plus keyboard.
- Allow On-screen AppleWorks time display. (Option, for Applied Engineering TimeMaster or any ProDOS compatible clock card.)

Requirements

This is what you will need to use the AppleWorks Expander:

- AppleWorks, version 1.2 or 1.3.

Version 1.3 is recommended. Contact your authorized Apple Dealer for an upgrade to the latest version.

- An Apple II Plus computer with 64K of Random Access Memory (RAM).

An Apple II won't do! It has to be an Apple II Plus with Applesoft BASIC in ROM, 48K of RAM on the main board and:

- A 16K Language Card in slot 0; (or an Applied Engineering TransWarp accelerator card!)
- A ViewMaster 80 installed in slot 3;
- A video monitor capable of displaying 80 column text;
- At least one disk drive.

Modifying AppleWorks

IMPORTANT: Use the AppleWorks Expander utility only on backup copies of your AppleWorks disks. Refer to your AppleWorks Reference manual for instructions on copying the AppleWorks disks.

This is how to use the AppleWorks Expander utility to modify AppleWorks:

1. Boot the AppleWorks Expander in your startup drive (drive one.)
2. Select option 1, "Modify AppleWorks for use on 64K Apple II Plus system."

Only the STARTUP disk will be modified.

Select option 2 only if you are modifying AppleWorks 1.3 and have a RamFactor or Apple II Memory Expansion card installed in your system. The additional features are documented on the Expander's information screens. Option 2 will modify both the STARTUP and PROGRAM disks.

3. The Applied Engineering copyright screen will appear. Press the space bar to advance to the next information screen. Read each screen carefully.
4. If you have a ProDOS compatible clock card installed in your system and wish to have the current date and time displayed on the AppleWorks screen enter Y when this prompt appears:

INSTALL THE APPLIED ENGINEERING TIME DISPLAY OPTION? (Y/N)

5. You will then be prompted to remove the AppleWorks Expander disk from drive one and insert a COPY of the AppleWorks STARTUP disk. Be sure the WRITE PROTECT tab has been removed from the disk. Press the space bar to continue or "Q" to quit.

The AppleWorks Expander expects to find the AppleWorks STARTUP file, "APLWORKS.SYSTEM," on the AppleWorks disk in drive one. If, at this point, the program displays this message:

```
Cannot find correct file
Please enter the prefix of the AppleWorks program
?
```

press return to scan the available drives for a ProDOS volume named "/APPLEWORKS" or enter the complete ProDOS pathname of the AppleWorks STARTUP disk. Be sure to include the (/) slashes.

Note: If you have selected option 2, you will be prompted to remove the STARTUP disk and insert the PROGRAM disk. Press the space bar to continue.

6. When the modification to the AppleWorks STARTUP disk has been completed, the program will beep the speaker and exit to Applesoft BASIC, displaying the message, "AppleWorks Configuration Complete." The modified AppleWorks disks can now be booted in the normal manner.

Note: When you "Quit" the AppleWorks program modified by option 1, it does not automatically return to 40 column mode, resulting in a blank screen. Just press Control-Reset to deactivate the ViewMaster 80.

Alternate AppleWorks Keyboard Commands

The Apple II Plus does not have many of the special keys available on the Apple //e keyboard, some of which are required by AppleWorks. Through the magic of software, the AppleWorks Expander utility has patched AppleWorks to support the emulation these special keys.

To enter an Open-Apple command on the Apple II Plus keyboard, press and release the Esc key, then press the appropriate letter or number key. For example, ⌘ A would be entered as Esc A; ⌘ 4 would be Esc 4. Control commands are entered by holding the Control key down while pressing the appropriate letter key.

| Apple //e Keyboard | Apple II Plus Equivalent |
|--------------------|--------------------------|
| Return | Control M or Return |
| Cursor Up ↑ | Control K |
| Cursor Down ↓ | Control J |
| Cursor Right → | Control U or → |
| Cursor Left ← | Control H or ← |
| Tab | Control I |
| Caps Lock | Control A |
| Escape | Esc Esc |
| Delete | Esc # |
| @ | Esc " |
| ^ | Esc = |
| _ | Esc - |
| \ | Esc & |
| | Esc ! |
| ' | Esc ' |
| ~ | Esc \$ |
| [| Esc < |
|] | Esc > |
| { | Esc (|
| } | Esc) |

Lower Case Characters

When the modified AppleWorks is booted, it automatically enters lower-case mode. To toggle this shift lock feature between upper and lower case, use Control-A. (Press the A key while holding the Control key down.)

Optional Shift Key Hardware Modification

Using the modified AppleWorks with this one wire modification, the shift key becomes a real shift key, eliminating the need to constantly toggle Control-A. The instructions for this modification are in your ViewMaster 80 User's Manual.

Applied Engineering Technical Support

If you have a technical question relating to your ViewMaster 80, please contact the dealer from whom you purchased the card. In the event that the dealer cannot answer your question, Applied Engineering has a staff of technicians dedicated to answering specific technical questions about Applied Engineering products and software. Technical Support representatives are available between the hours of 9 AM to 5 PM CST, Monday through Friday. The Technical Support telephone number is (214) 241-6069. Please call only this number for technical support, as our sales office cannot transfer calls to the support lines.

The support representatives are experienced in the applications and uses of Applied Engineering products, but in order to provide a quick and effective answer to your question, they will need to know as much as possible about the hardware and software specifically related to your question. Please provide the technical support representative with the following information:

- ◇ The Applied Engineering product related to your question.
- ◇ The model and configuration of your computer. (What peripherals are being used.)
- ◇ The name, version, and revision level of the software related to your question.
- ◇ The results of any test programs or diagnostics that you may have run.
- ◇ The results of any troubleshooting done by you or your dealer.

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