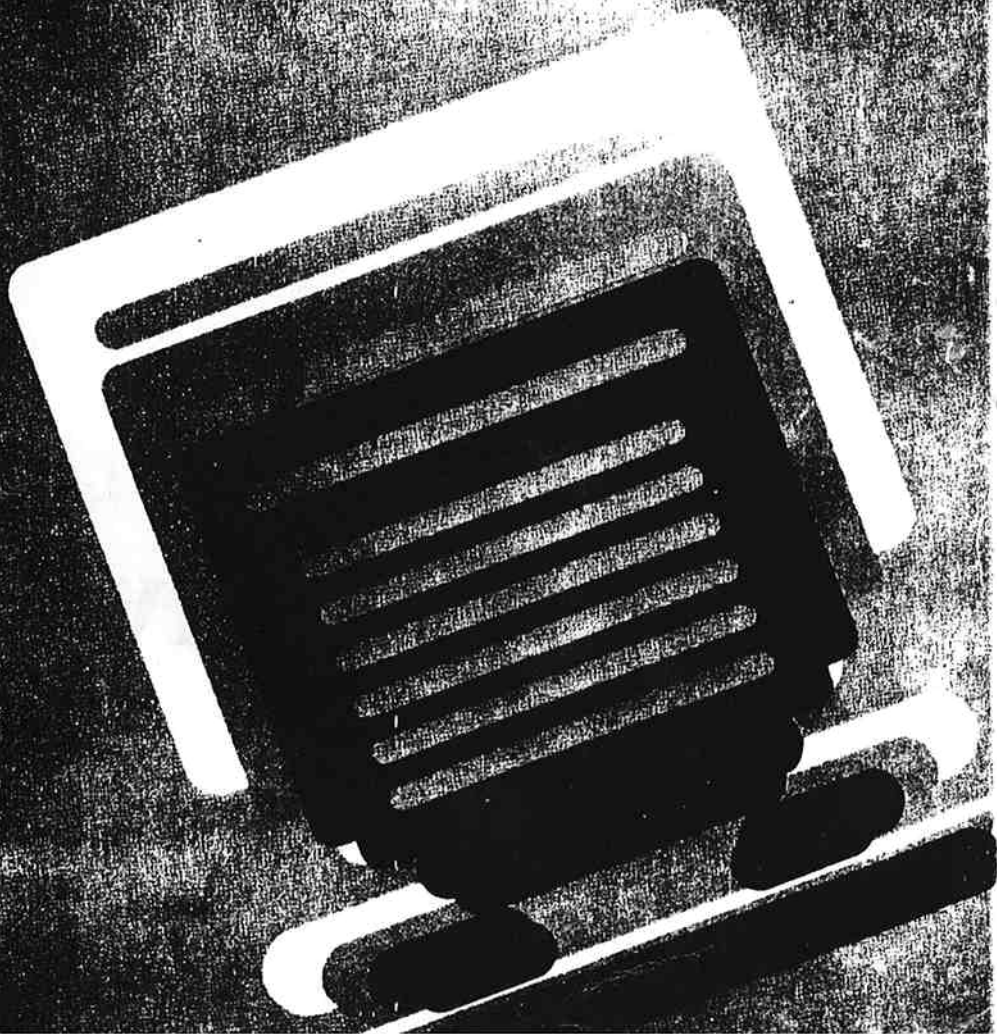


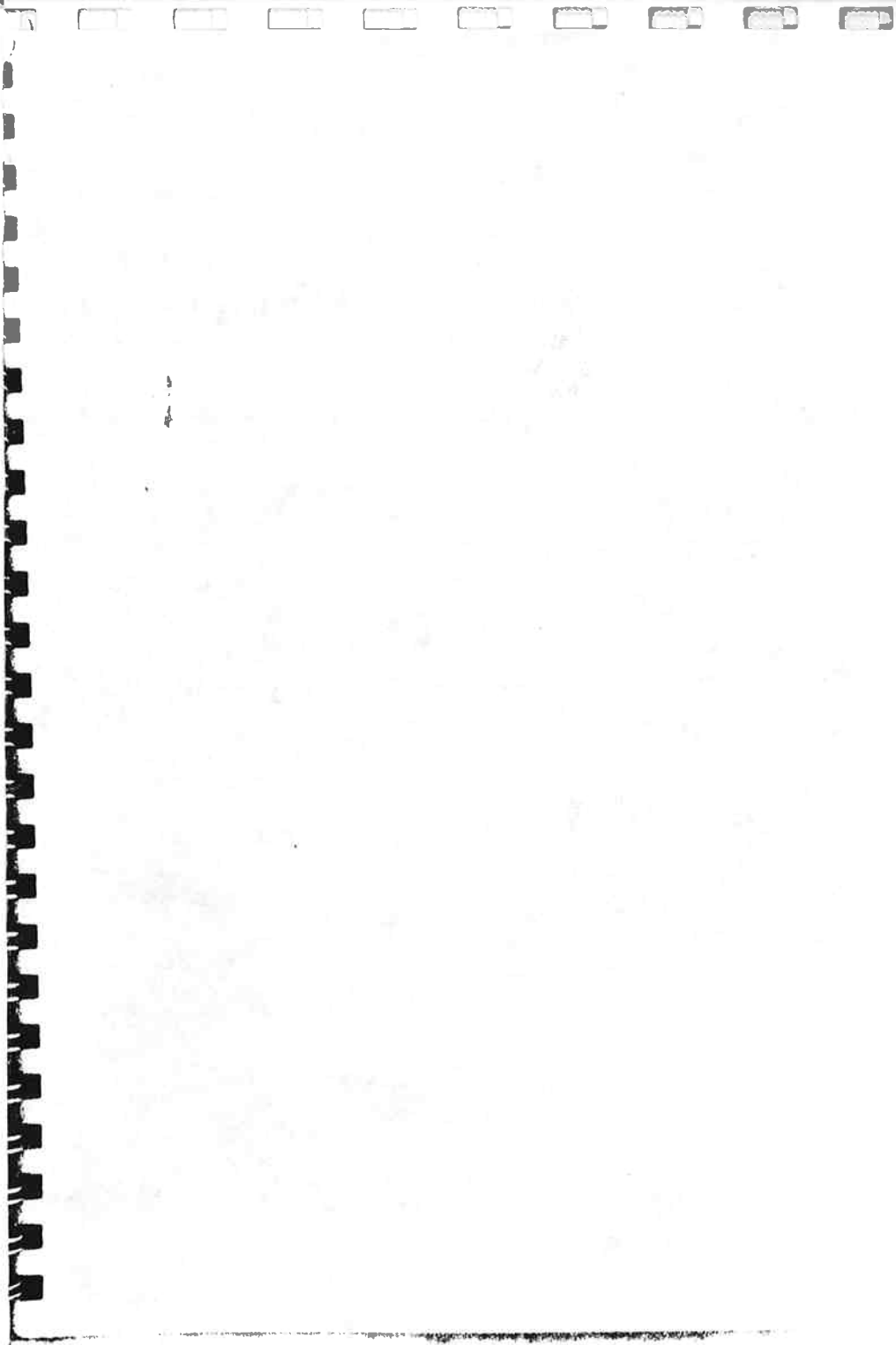


**Personal Computer
Products, Inc.**

APPLI-CARD™

Installation and User's Manual
FOR APPLE II COMPUTERS





APPLI-CARD™ 2.0

Installation and User's Manual

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San Diego, California 92127 U.S.A.
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WARRANTY

Personal Computer Products, Inc. offers a 90 day warranty on the APPLI-CARD. If your APPLI-CARD should fail to operate properly within 90 days from the date of purchase, Personal Computer Products, Inc., will either repair or replace it at no charge. On any request for warranty service, please include the serial number. Please follow these steps in requesting warranty service.

1. Complete the Personal Computer Products, Inc. Warranty Registration Card and return it to Personal Computer Products, Inc. as soon as possible. Once your completed card is received, processing a request for warranty service can be handled promptly.
2. If you believe your APPLI-CARD is defective, you should FIRST call Personal Computer Products, Inc. to obtain a Return Merchandise Authorization (RMA). Merchandise will not be effectively processed without having first obtained an RMA number prior to returning the merchandise.
3. You should then send the APPLI-CARD and its **original** disk, postage prepaid, to Personal Computer Products, Inc. Please be sure your name, return address, and telephone number are enclosed with the APPLI-CARD as well as a complete description of the symptoms observed. Personal Computer Products, Inc. will either repair or replace your APPLI-CARD and disk and return them to you.

Your request for warranty service may be delayed if you do not complete the Warranty Registration Card or if you send your APPLI-CARD directly back to Personal Computer Products, Inc. without having first obtained a Return Merchandise Authorization.

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All screens illustrated in this manual are meant to be representations, not exact duplicates.

The files on your disk are described in more detail in Chapter 2.

YOUR MANUAL

This manual tells you how to install the APPLI-CARD and how to take advantage of its advanced features. It also describes the basic CP/M skills that are required to run the CP/M software.

YOUR PRIMER

If you want to use the additional CP/M features you now have available, you can learn about them by reading the CP/M Primer Provided as part of your APPLI-CARD package.

**YOUR SHIFT
MODIFICATION
DEVICE**

Unless your Apple can produce upper- and lowercase characters, you need to install this connector to use the SHIFT key on your Apple keyboard. If you have an Apple II or II Plus, the SMD or an equivalent device must be installed, or you will not be able to use all of the APPLI-CARD's software.

WHAT YOU NEED

In order to take full advantage of the features of your APPLI-CARD, you need the following:

- an Apple II, II Plus, or IIe (not an Apple III)
- two disk drives
- a video monitor

HOW TO USE THIS MANUAL

This manual was designed to be read selectively; You Decide what to read, depending on your needs. The chapters and appendices contain the following information:

- Chapter 1, "Installing APPLI-CARD," provides the instructions you need to install your APPLI-CARD and to get started using your APPLI-CARD.
- Chapter 2, "Overview of CP/M," describes a few important aspects of the CP/M operating system and tells you where you can get more information.
- Chapter 3, "Additional Features for Apple II and II Plus Owners," explains some features that make it possible for you to use the APPLI-CARD without an 80- column card.
- Chapter 4, "Advanced Features: Customizing the APPLI-CARD," defines and describes how to use the Apple function keys, Apple memory as a printer buffer, and the SoftVIDEO driver.
- Chapter 5, "Advanced Features: Modifying Drivers with Your APPLI-CARD," describes the APPLI-CARD drivers and offers instructions for tailoring them to your needs.
- Chapter 6, "Using APPLI-CARD with Apple DOS," explains how to use your APPLI-CARD to transfer files between CP/M and Apple DOS and how to use your APPLI-CARD as a RAM disk for additional memory.
- Appendix A, "Soldering to Activate Your Shift Key," gives additional instructions to Apple II owners who do not have a Keyboard Encoder card. This appendix does not apply to the Apple IIe or most Apple II Plus models.

INTRODUCING APPLI-CARD

PCPI's APPLI-CARD greatly expands the capabilities of your Apple microcomputer. When you install the APPLI-CARD, your Apple becomes two computers. Not only can you continue to use your Apple just as you always have, but you can also run the CP/M operating system. Through your APPLI-CARD and CP/M, you can use the thousands of CP/M-based programs.

Your Apple is versatile; you can add many different types of peripherals to it. Among these, the APPLI-CARD is one of the most powerful additions you can make. Although the APPLI-CARD is designed to be compatible with many peripherals, it does not work with all of them. You should ask your dealer whether the particular combination of devices you have will work with the APPLI-CARD.

WHAT YOU HAVE

You have received a package containing the APPLI-CARD, a disk, an installation manual, a textbook on CP/M, and a shift modification device (SMD).

YOUR APPLI-CARD The APPLI-CARD is a printed circuit board that contains a 6 MHz Z-80B microprocessor and 64K of Random Access Memory (RAM). The APPLI-CARD uses the Apple as an input/output processor only, borrowing the Apple keyboard, monitor (video display), disk drives, and various ports. The APPLI-CARD works with the Apple II, II Plus, and IIe, but not with the Apple III.

YOUR DISK The disk with your APPLI-CARD has files on both sides and is actually two disks in one: one side is labeled **CP/M Disk**, the other side is labeled **Utility Disk**. The "two disks" contain the following files:

CP/M Disk

ADOSXFER.COM
ASM.COM
CLRPBUF.COM
COPYFRMT.COM
DDT.COM
DOSRDSK
DRIVERS
DUMP.ASM
DUMP.COM
ED.COM
LOAD.COM
NRDRDSK
PIP.COM
STAT.COM
SUBMIT.COM
XSUB.COM

Utility Disk

APLFLPY.DVR
BUFFER.DVR
CONFIGSV.COM
DLDRIVER.COM
DRIVERS
ETXBUF.DVR
FAST2E80.DVR
FUNCTION.COM
HIRESIO.DVR
INSTALL.COM
SFTVIDEO.DVR
PCPICPM

Although it is not listed, the CP/M operating system (version 2.2) is written on both sides of the disk. Notice that each side (or disk) also contains a DRIVERS file used by CP/M to communicate with the devices on your Apple. To start up (boot) your system, use the CP/M Disk for 80- or 40-column screen mode and the Utility Disk for 70-column screen mode. You would only want to use the 70-column mode if your Apple does not have an 80-column card.