KP800
Super EGA
800 × 600

Operation Manual

PREFACE

This manual contains detailed instructions for installing and operating the KP800 card for the IBM and its compatible personal computers.

We have made every effort to document all necessary information which will allow users to install and operate the card without special training.

All product information provided in this manual is based on the latest information available at the time of printing. We have carefully reviewed the accuracy of product information. However, the manufacturer cannot be held responsible for any inadvertent omissions or errors that may appear in this document.

The manufacturer's products are warranted against defects in material and workmanship. The warranty period for the hardware supplied by the manufacturers is one year including parts and labor. For additional information on warranty refer to Appendix A.

Note: IBM PC, XT and AT are trademarks of International Business Machines Corporation.

AGENDA

1. FEATURES 5

2. COMPUTER and MONITOR COMPATIBILITY 7

3. INSTALLATION GUIDE 9

4. OPERATION MODES 17

5. USING YOUR CARD WITH THE EGA800

UTILITY DISKETTE 21

ADDENDUM (USER MANUAL) 25

1.0 FEATURES

This KP800 Card is fully compatible with IBM Enhanced Graphics Adapter hardware and software. It supports functions of IBM Color/Graphics Display Adapter and IBM Monochrome Display Adapter and comes equipped with 256K bytes of on-board video memory, providing 16 colors out of a palette of 64 possible display colors.

THE KP800 CARD

Supports Standard EGA Features:

- 640 x 350, 16-color graphics on the IBM Enhanced Color Display.
- 320 x 200 and 640 x 200, 16-color graphics on the IBM Color Graphics Monitor.
- 640 x 350, 4 shade graphics on the IBM Monochrome Display (black, normal, intensified and blink).
- Soft scrolling, panning and windowing.
- Flicker-free display.
- Split mode screen display.
- Bit-mapped graphics in four planes.
- Up to 512 characters that can be user-defined.
- Up to 43 lines of 80 column text.
- Virtual Device Interface (VDI).

Provides:

- Light pen interface compatible with IBM adapters.
- IBM compatible EGA "feature adapter" that combines EGA signals with external sources and turns this card into a video graphics generator system.

Advanced Features:

- 800 x 600 maximum resolution.
- Fully IBM Enhanced Graphics Adapter compatible (down to the register level)
- Supports 132 columns x 44/32/29/25 lines.
- Fully IBM Color/Graphics Adapter compatible (down to register level).
- Fully IBM Monochrome Display Adapter compatible (down to register level).
- Fully Hercules Monochrome Graphics compatible (down to register level).
- Supports CGA 640 x 400 advanced high resolution graphics mode with programmable double scan capability.
- Supports Plantronics color graphics, 640 x 200 in four colors, 320 x 200 in 16 colors.
- Supports 640 x 480 on Magnavox Multimode, Mitsubishi AUM 1371A, NEC MultiSync and Sony Multiscan monitors.
- Supports 80 x 66 full-page desktop publishing applications.
- Supports programs that have to boot from disk by using BOOTGAME utility.
- Supports 132 columns.

2.0 COMPUTER AND MONITOR COMPATIBILITY

2.1 Computers

This Card can be plugged into any available system expansion slot of your IBM PC, XT, AT or fully compatible computer.

2.2 Displays

2.2.1 Monochrome Display

a. IBM Monochrome Display

b. Compatible IBM Monochrome Display

Before you select your display we suggest that you check the following compatibility specifications (Table 2-1):

Table 2-1

. Compatibility Specifications

	Monochrome Display	Color Display	Enhanced Color Display	Multisync Type Display
Horizontal Scan Rate	18.432KHz	15.750KHz	21.850KHz	16-36KHz
Vertical Scan Rate	50Hz	60Hz	60Hz	50-60Hz
Video Band Width	16.257MHz	14.318MHz	16.257MHz	39MHz or higher
Maximum Resolution	720 x 350	640 x 200	640 x350	800 x 600

2.2.2 Color Display

a. IBM Color Display

b. Compatible IBM Color Display

Before you select your display we suggest that you check the compatibility specifications listed in Table 2-1

2.2.3 Enhanced Color Display

a. IBM Enhanced Color Display

b. Compatible IBM Enhanced Cclor Display

Before you select your display we suggest that you check the compatibility specifications listed in Table 2-1.

2.2.4 Variable Frequency Displays

a. Magnavox Multimode Display.
b. Mitsubishi AUM 1371A Display.
c. NEC MultiSync Display.
d. Sony Multiscan Display.
e. Taxan 770

Before you select your display we suggest that you check the compatibility specifications listed in Table 2-1.

3.0 INSTALLATION GUIDE

Use the following procedure to install your KP800 Card:

1. Power off your personal computer and unplug the power cord.
2. Take off the system unit top cover by removing the mounting screws from the back of the system unit. (Refer to Figure 3-1)

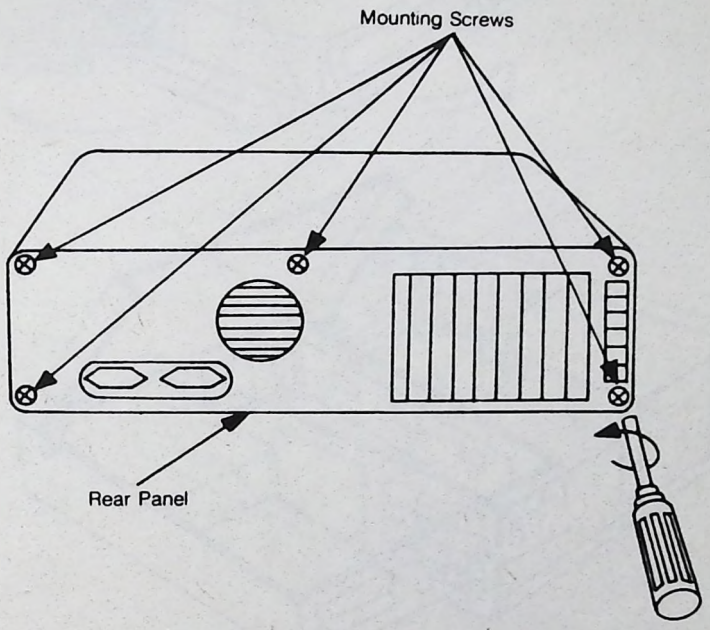


Figure 3-1. Remove Rear-Panel Mounting Screws

3. Remove the cover by sliding it toward you until it stops and then tilt it up. (Refer to Figure 3-2-1 and Figure 3-2-2)

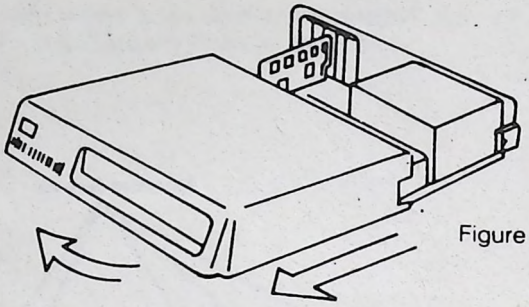
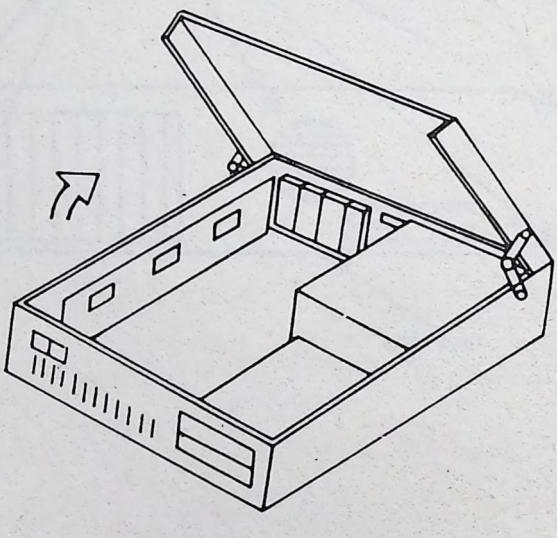


Figure 3-2-1



(Remark) please review your PC's user manual

Figure 3-2-2 Removing IBM PC Top Cover

4. For PC, PC/XT users: Set switches 5 and 6 of your switch block 1 to ON. (Refer tof Figure 3-3).
   Note that other switches are set as usual.
   For PC/AT users: Go directly to Step 5.

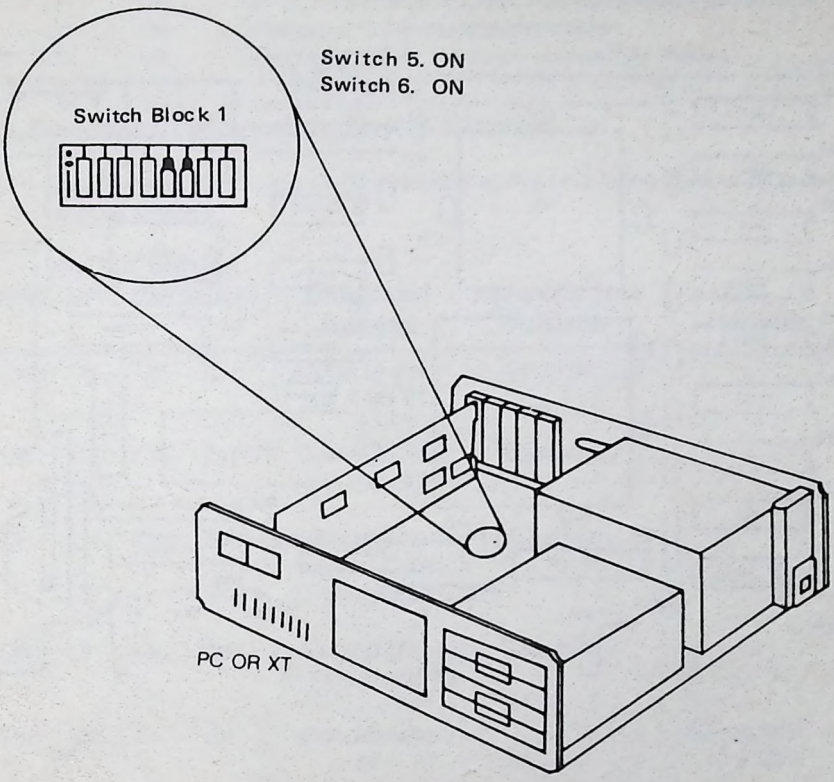


Figure 3-3. IBM System Switch

5. Install your Card jumpers according to Table 3-1.
   Refer to Figure 3-4 for locations of the switches and jumpers.

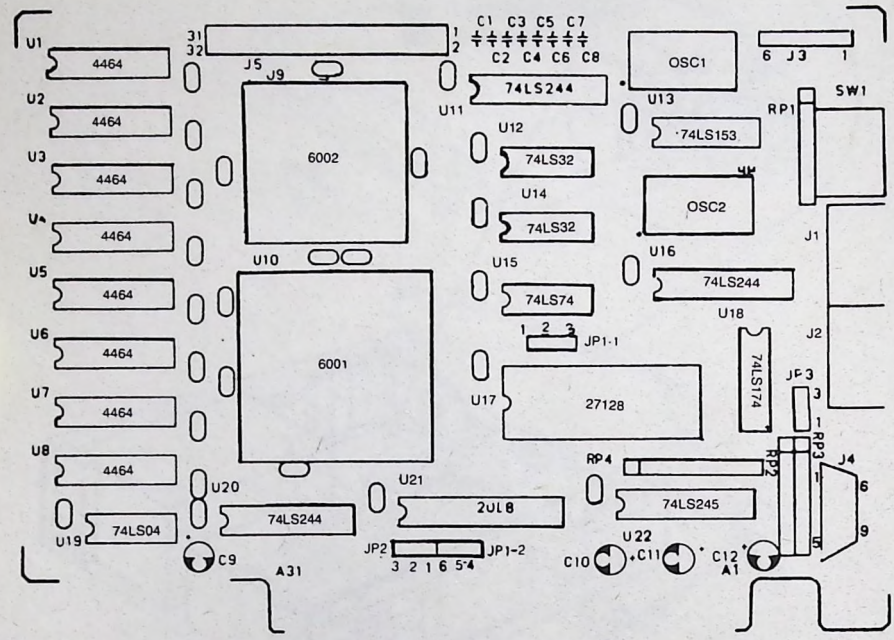


Figure 3-4. Enhanced Color Graphics Card
Jumpers, Switch and Connectors

Table 3-1
Card Switch Settings
and Jumper Installation

(a) Card Mode Type Select Switch

SW5	SW6	Configuration
On	On	For Standard EGA modes and advanced EGA modes
Off	On	Downward CGA compatible modes
Off	Off	Downward MDA, Hercules compatible modes

(b) Standard Configuration Switch Settings

(b.1) Switch settings for Card when it is used as the only video card or as primary display adapter.

Switch Setting SW1	SW2	SW3	SW4	Enhanced Adapter	Monochrome Adapter	C/G Adapter
On	Off	Off	On	Color Display 40 x 25 #1	Secondary	—
Off	Off	Off	On	Color Display 80 x 25 #1	Secondary	—
On	On	On	Off	Enhanced Display Normal Color Mode #2	Secondary	—
Off	On	On	Off	Enhanced Display Hi Res Mode #3	Secondary	—
On	Off	On	Off	Monochrome #4	—	Secondary 40 x 25
Off	Off	On	Off	Monochrome #4	—	Secondary 80 x 25

#1 Use this setting if a Color Display is connected to the Card.

#2 If an Enhanced Color Display is connected to the Card, this setting selects 640 X 200 text resolution.

#3 If an Enhanced Color Display is connected to the Card, this setting selects 640 X 350 text resolution.

#4 Use this setting if a Monochrome Display is connected to the Card.

(b.2) Switch settings for KP800 Card when it is used as secondary display adapter

Switch Setting SW1	SW2	SW3	SW4	Enhanced Adapter	Monochrome Adapter	Color/Graphics Adapter
On	On	On	On	Color Display 40 x 25	Primary	—
Off	On	On	On	Color Display 80 x 25	Primary	—
On	Off	On	On	Enhanced Display Normal Color Mode	Primary	—
Off	Off	On	On	Enhanced Display Hi Res Mode	Primary	—
On	On	Off	On	Monochrome	—	Primary 40 x 25
Off	On	Off	On	Monochrome	—	Primary 80 x 25

Card Jumper Installation (c)	Jumper		Setting Environment
JMP1-1	1&2	On	When using 27128
JMP1-2	4&5	On	Eprom BIOS
JMP1-1	2&3	On	When using 27256
JMP1-2	5&6	On	Eprom BIOS
JMP2	2&3	On	I/O Add = 3xx
JMP2	1&2	On	I/O Add = 2xx
MJP2	2&3	On	IBM Color display or IBM Monochrome display is attached
JMP3	1&2	On	IBM Enhanced Color display is attached

6. Locate an unused expansion slot in your system unit and remove the screw and the cover as shown in Figure 3-5.
   Be sure to place your SMART EGA card two slots away from the disk controller card.
7. Firmly press this Card downward into the selected system expansion slot and connect your monitor to the card.

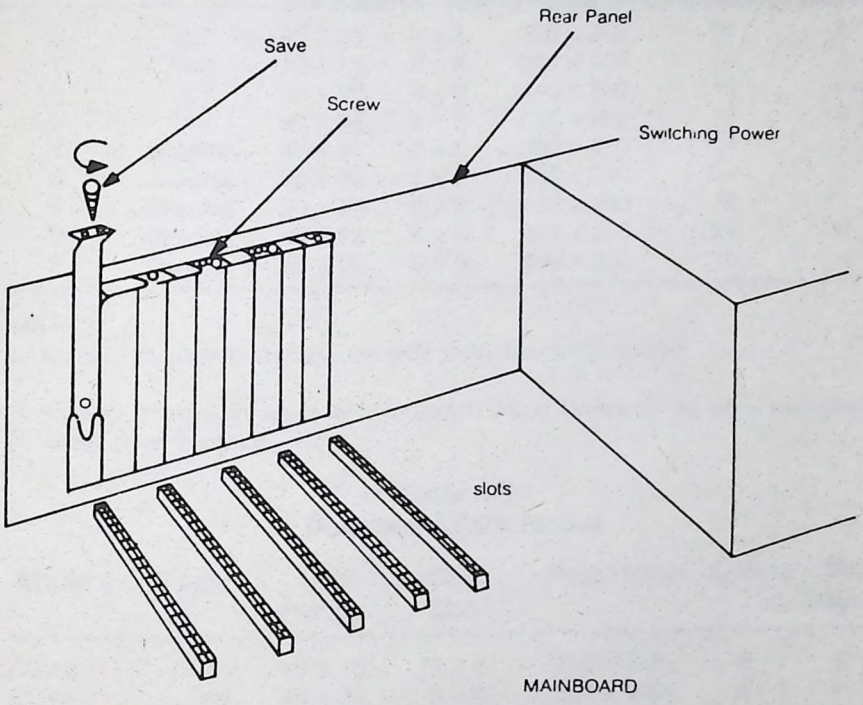


Figure 3-5. IBM Chassis

8. Install light pen, if any, according to the manufacturer's instructions. (Note that pin 2 on the socket may need to be cut before connecting to some light pens.)

   DUE TO HIGH PERSISTENCE PHOSPHORS OF THE MONOCHROME DISPLAY, LIGHT PENS WILL NOT WORK ON MONOCHROME MONITORS.

9. Replace the system unit cover and fasten the screws.

10. Plug in computer's power cord.
    This completes the installation of your KP **800** Card.

4.0 OPERATION MODES

4.1 IBM Color Display and Its Compatibles

The following tables describe the modes supported by this KP800 Card on the IBM Color Display and its compatibles.

Table 4-1
Standard EGA Modes

Mode #	Type	Text Format	Box Size	Resolution	Colors	Max Pages
0	Text	40 x 25	8 x 8	320 x 200	16	8
1	Text	40 x 25	8 x 8	320 x 200	16	8
2	Text	80 x 25	8 x 8	640 x 200	16	8
3	Text	80 x 25	8 x 8	640 x 200	16	8
4	Graphic	40 x 25	8 x 8	320 x 200	4	1
5	Graphic	40 x 25	8 x 8	320 x 200	4	1
6	Graphic	80 x 25	8 x 8	640 x 200	2	1
D	Graphic	40 x 25	8 x 8	320 x 200	16	8
E	Graphic	80 x 25	8 x 8	640 x 200	16	4

NOTICE:

a. Mode 0 through 6 emulate the IBM Color/Graphics Display.

b. Mode 0, 2 and 5 are identical to modes 1, 3 and 4 respectively, per the adapter's direct drive interface.

Table 4-2
Downward CGA Modes

Mode #	Type	Text Format	Box Size	Resolution	Colors	Max Pages
CGA0	Text	40 x 25	8 x 8	320 x 200	16	8
CGA1	Text	40 x 25	8 x 8	320 x 200	16	8
CGA2	Text	80 x 25	8 x 8	640 x 200	16	8
CGA3	Text	80 x 25	8 x 8	640 x 200	16	8
CGA4	Graphic	40 x 25	8 x 8	320 x 200	4	1
CGA5	Graphic	40 x 25	8 x 8	320 x 200	4	1
CGA6	Graphic	80 x 25	8 x 8	640 x 200	2	1
Plantronic 1	Graphic	40 x 25	8 x 8	320 x 200	16	1
Plantronic 2	Graphic	80 x 25	8 x 8	640 x 200	4	1

4.2 IBM Monochrome Display and Compatibles

This Card supports two modes on the IBM Monochrome Display and its compatibles.

Table 4-3
Standard EGA Modes

Mode #	Type	Text Format	Box Size	Resolution	Colors	Max Pages
7	Text	80 x 25	9 x 14	720 x 350	4	8
F	Graphic	80 x 25	8 x 14	640 x 350	4	2

Table 4-4
MDA, Hercules and
EGA Monochrome Modes

Mode #	Type	Text Format	Box Size	Resolution	Colors	Max Pages
MDA	Text	80 x 25	9 x 14	720 x 350	4	8
Hercules	Graphic	80 x 25	8 x 14	720 x 348	4	2
GBW1	Text	80 x 29	9 x 12	720 x 348	4	8
GBW2	Text	80 x 32	9 x 11	720 x 352	4	8
GBW3		80 X 44	9 X 8	722 X 352		8

4.3 IBM Enhanced Color Display

4.3.1 Standard EGA Modes

The Enhanced Color Display is compatible with all modes listed on 4.1. When the display is in the high resolution mode the KP**800** Card provides enhanced text character support. This enhanced text support not only transforms the 8 X 8 character box into an 8 X 14 character box, but it also provides 16 display colors out of a palette of 64 colors.

The following table lists additional modes supported by the KP**800** for Enhanced Color Display.

Table 4-5
Standard EGA Modes

Mode #	Type	Text Format	Box Size	Resolution	Colors	Max Pages
0	Text	40 x 25	8 x 14	320 x 350	16/64	8
1	Text	40 x 25	8 x 14	320 x 350	16/64	8
2	Text	80 x 25	8 x 14	640 x 350	16/64	8
3	Text	80 x 25	8 x 14	640 x 350	16/64	8
10	Graphic	80 x 25	8 x 14	640 x 350	16/64	2

4.3.2 Advanced Video Modes

This Card can display the following advanced video modes.

Table 4-6
Advanced Video Modes

Mode #	Type	Text Format	Box Size	Resolution	Colors	Max Pages
GE1	Text	132 x 25	8 x 14	1056 x 350	16/64	8
GE2	Text	132 x 29	8 x 12	1056 x 348	16/64	8
GE3	Text	132 x 32	8 x 11	1056 x 352	16/64	6
GE4	Text	132 x 44	8 x 8	1056 x 352	16/64	5

4.4 Multisync Display Modes

The KP800 Card supports seven modes on Multisync type displays

Table 4-7
Multisync Display Modes

Mode #	Type	Text Format	Box Size	Resolution	Colors	Max Pages
GA1	T/G	40 X 25	8 X 16	640 X 400	16	8
GA2	T/G	80 X 25	8 X 16	640 X 400	16	8
GA3	BGAME	80 X 25	8 X 8	640 X 400	16/64	8
GA4	TEXT	80 X 60	8 X 8	640 X 480	16/64	8
GA5	GFX	80 X 60	8 X 8	640 X 480	16/64	8
GA6	TEXT	80 X 66	8 X 8	640 X 528	16/64	8
GA7	GFX	80 X 66	8 X 8	640 X 528	16/64	8
GA8	TEXT	94 X 29	8 X 12	752 X 410	16/64	8
GA9	GFX	94 X 29	8 X 12	752 X 410	16/64	8
GA10	TEXT	100 X 75	8 X 8	800 X 600	16/64	8
GA11	GFX	100 X 75	8 X 8	800 X 600	16/64	8
GA12	TEXT	114 X 60	8 X 8	912 X 480	16/64	8
GA13	GFX	114 X 60	8 X 8	912 X 480	16/64	8

5.0 USING YOUR CARD WITH THE EGA800 UTILITY DISKETTE

The UTILITY Program Diskette includes the following programs:

KP800 EXE
FNT8X11.FNT
FNT8X12.FNT
Application Display Drivers*
Installation procedures are included on addemdum sheets.
These procedures offer detailed instructions to install the available drivers.

The KP800 program allowsyou to select among Standard EGA, Downward CGA, MDA, Hercules and Advanced Video modes without changing the hardware switch on your card.

KP800 is menu-driven. Everything you need to know about using the program is shown on the menu. There is also a batch mode you can use.

NOTE: Make a copy of the UTILITY Program Diskette before procedding any further. To run utility programs use the backup diskette.

The KP800 EXE and the Font Files FNT8X11.FNT and FNT8X12.FNT can be copied to any directory as long as they reside in the same directory. If they do not reside in the same directory, an Error Message is returned to the screen when certain fonts are called. The error message disappears after four seconds, and you are returned to the previous menu-your mode choice is not activated.

5.1 KP800 .EXE Program

KP 800 is a powerful mode change program. At the system prompt type:

KP800 then press [RETURN]

This program is written in a menu-driven as well as command-driven manner.

5.1.1 Menu-Driven

There are four menus. Display status is displayed in a "window" format. The menu that appears first depends solely upon the system display status. That is, if the system display status is configured for the KP800 display, the display menu is displayed first. If the system display status is configured for CGA display, then the CGA menu is displayed first.

Choosing Menus

To access your selections directly, toggle between menus using the appropriate Function Key ([F1], [F2], [F3] or [F4]). To access the menus sequentially use the right or left arrow keys. Each menu has a selection marked as default. (You can choose a different selection by using the [up arrow] and [down arrow] cursor keys and pressing [RETURN].) The [ESC] key can be used to exit this program at any time. The one exception is when a warning message is present on the screen. In this case the function Key [F10] (UNDO) erases the warning message and returns the previous menu.

Using BOOTGAME Utilities - EBOOT, CBOOT, MBOOT and ABOOT

You will find a BOOTGAME selection on all menus. Selection of this function serves as a substitute for the "warm boot" procedure ([CTRL]-[ALT]-[DEL]). This program is required since the system's "warm boot" procedure resets the video environment according to its hardware settings.

The BOOTGAME option for each menu is:

EBOOT - KP **800** display menu
CBOOT - CGA display menu
MBOOT - MONOCHROME display menu
ABOOT - ADVANCED display menu (double-scan)

For example, after using KP**800** to switch mode you decide to execute a CGA Game that has to boot from disk (boot-read). Doing a "warm boot" at this time changes your current video mode. To avoid the mode change:

1. Enter the proper display menu according to the game.

2. Select the BOOTGAME item and press [RETURN].

3. Insert game diskette in drive A, close the door, press any key (except [ESC] or [F10]) to start.

This procedure will execute your game without destroying the current video mode.

If the game does not require a boot-read, you can switch modes if necessary and execute it directly. BOOTGAME is not needed.

The Command Status Line
A Command Status line appears on the 24th line for your convenience. This status line includes the following:

[up arrow] These two Keys are used to move the mark (in reversed video)
[down arrow] the desired selection.

[F1] is used to select the EGA DISPLAY MENU.
[F2] is used to select the CGA DISPLAY MENU.
[F3] is used to select the MONOCHROME DISPLAY MENU.
[F4] is used to select the ADVANCED DISPLAY MENU.

Each Menu Screen and its corresponding function key can be distinguished by color.

[F10] This function key is used to undo the current selection when a warning message appears on the screen.

[ESC] This key-is used to exit to DOS.

5.1.2 Command-Driven Modes

To use the command-driven mode simply type KP800 followed by the desired Keyword. A Keyword (found on all display menus) is composed of prefix character and corresponding alpha or numeric code. These prefix characters are:

[E] which stands for Advanced EGA Modes
[CE] which stands for EGA Low Resolution Display Modes 0-3
[C] which stands for CGA Modes
[M] which stands for MONOCHROME DISPLAY Modes
[H] which stands for HERCULES Modes
[A] which stands for ADVANCED DISPLAY Modes

Each menu has a Keyword column displaying the possible Keyword choices. For example, if you want to select EGASTAR Text 132 X 25-E25 is shown in the Keyword column. To select this mode in a command-driven manner from the DOS prompt you would simply type:

KP800 E25 then press [RETURN]

If the Keyword is correct, the Command-Driven mode is activated automatically.

USER'S MANUAL ADDENDUM

APPLICATION DEVICE DRIVERS

The following pages are a guide to installing the drivers that are necessary to use specific software applications with the KP800 card. The drivers included with this release are:

AutoCAD - Version 2.5A

DSADI.EXE, ADILOAD.BAT, ACAD. MNU, DSADI. DVP
For using the high resolution capabilities of the KP800 with AUTODESK'S AutoCAD Version 2.5A or greater.

GEM - Version 2.1

GEMCOPY'BAT, GEMSETUP.TXT, GEN800.SYS, GEM528.SYS, GEM480.SYS For using the 800x600 capabilities of the KP800 with Digital Research Inc.'s GEM version 2.1 or greater.

Windows - Version 1.0
WIN640.BAT, WIN800.BAT, 800X600.DRV, 800x600.LGO, 800x600. GRB, 640x480.DRV, 640x480.LGO, 640x480.GRB.
For using the 640x480 OR 800x600 capabilities of the EGASTAR with MicroSoftw Windows version 1.0 or greater.

Lotus - Version 2.0
132x25.DRV, 132x29.DRV, 132x32.DRV, 132x43.DRV
For using the respective modes of the KP800 with Lotus Development's 1-2-3 application version 2.0 or greater.

Framework II - Version 1.1

FW800.SC, FW480SC, FW350.SC, FW MONO.SC
For using the 640x480 or 800x600 capabilities fo the KP800 with Ashton-Tate's Framework II Version 1.1 or greater.

Ventura Publisher Version 1.1
VENCOPY.BAT, VENSETUP.TXT, VEN528.SYS, VEN480.SYS, VEN800. SYS
For using the 640x480 or 800x600 capabilities of the KP800 with Xerox's Ventura applications version 1.1 or greater.

AUTOCAD DRIVER

Version 2.5A or Greater

In order to take full advantage of the higher resolutions provided by the KP800 card, you MUST use a MultiSync type of monitor. Standard EGA monitors do not work properly in the higher resolution modes of the KP800. However, if you use the standard EGA resolution settings, you can use all of the advanced features of the AutoCAD Display Driver (ADI).

Please use the following steps for easy software installation.

1. Copy these files from your KP800 Utility diskette to the AUTOCAD subdirectory:
   DSADI*
   ACAD.MNU
   ADILOAD.BAT

2. Choose standard color settings
   type DSADI 0 <RETURN>
   This file must be loaded BEFORE loading AutoCAD. It makes good sense to place this file in your AUTOEXEC.BAT file.

3. Configure AUTOCAD to use the ADI drivers. Do this by typing the following keyboard entries at the C> prompt.

   ACAD <RETURN>
   5 (Configure Autocad)
   3 (Configure Video Display)

   Specify the ADI driver as the desired display driver. This configuration process needs to be done only once. AutoCAD will use this driver each time it is accessed in the future until you change it.

4. *Utilize the Window Feature if you want to select your own color configuration.
   Do this by replacing Step #2 with:
   C>DSADI C

*optional

DSADI C is simply a batch file. It will ask you a series of questions concerning color selection. You can change the attributes desired and skip the rest as the default settings. Previous settings are used instead. You can also terminate the command by typing ^C (Ctrl-C), the standard DOS "terminate a command" key sequence. Once terminated the driver accepts all the changes.

Note that all changes take effect once the AutoCAD redraw command is executed. The colors available, together with their numbers, are displayed in the command screen area. It is acceptable to enter the same color for both the foreground and background for all settings. By doing so, you turn off the menu, the coordinates and the Command screen areas. This way only the drawing will be showing. This setting might be desirable if you need to take a picture of the display drawing alone.

NOTE: The color selections made in DSADI C must be re-entered any time the system is rebooted. Upon re-boot the system reverts to the default settings.

OPTIONAL COMMANDS

The ACAD.MNU command will offer a Window Utility. This Window feature is available only in the 640 x 480 resolution and will display the Window in a 640 x 480 resolution. In order to utilize these extra features:

Load AutoCAD by typing ACAD <**RETURN**>

The Extra features available under the Window option follow :

AutoCAD COMMAND DESCRIPTIONS

The commands described below are the extensions that you will see under the WINDOW FEATURE when using our ACAD.MNU file. Remember you must have AUTOCAD version 2.5A or above.

STRVIEW

The STRVIEW command saves major portions of the current screen in memory for later recall. The area of the capture screen extends from the center toward the outer limits of the drawing area.

Please note that due to memory limitations only two-thirds of the drawing screen is captured. Also, previous captured views are replaced by the image of the current drawing screen at the time the STRVIEW command is executed.

RCLVIEW

The RCLVIEW commands lets you display the stored view on the graphics screen area. The displayed window does not effect the drawing below it. AutoCAD does not know of the presence of the Window.

The view window is preserved if you enter the text screen and is recovered upon your returning to the graphics screen.

NONE

The NONE command removes the window with the view from the screen. The stored view still remains in memory and can be recalled, if desired, using the RCLVIEW command.

In addition, the viewport may be toggled on or off by typing ^L(Ctrl-L).If the viewport is displayed, the viewport will be turned off and vise versa.

TOPLEFT

The TOPLEFT command lets you place the display viewport on the top left part of the graphics screen area.

TOPRT

The TOPRT command lets you place the display viewport on the top right part of the graphics screen area. Note that the viewport does not extend over the menu area.

BOTLEFT

With the BOTLEFT command you can place the displayed viewport on the bottom left part of the graphics screen area.

BOTRT

With the BOTRT command you can place the displayed viewport on the bottom right part of the graphics screen.

UP

The UP command pans the display view inside the window up once. You can repeat this command to scroll the desired amount. The scroll resolution can also be set, as it will be described later. The view will scroll up to the limit of the drawing area saved. In order to include the whole graphics area in the viewport you must zoom out so that the drawing to be displayed in the viewport window is inside the two thirds of the graphics area.

DOWN

The DOWN command pans the view inside the viewport down at the resolution specified by you.

LEFT

The LEFT command pans the view left at a resolution set by you.

RIGHT

The RIGHT command pans the view right at a resolution set by you.

FINE

The FINE command sets the scroll resolution of the viewport to the smallest increment. If you want to scroll to a far part of the view you might want to use lesser scroll resolution in order to reach the desired view faster, and then, as described later, use fine scroll resolution to pinpoint the desired view.

Please note that this, and the following two commands, do not change in any way the view displayed on the viewport. They only set the scroll resolution for any scrolling commands issued. If the scroll resolution is never set, it defaults to fine, otherwise it defaults to the most recent setting.

MEDIUM

The MEDIUM command sets the scroll resolution of the viewport to a medium resolution. This makes it possible to scroll faster through a displayed view.

COARSE

The COARSE command sets the scroll resolution at the least possible resolution. When selected any subsequency scroll command pans the displayed view a page at a time.

SCREEN

With the SCREEN command you can completely reconfigure all the current display settings without exiting AutoCAD. Once selected, a series of prompts appear in, the Command prompt area. The prompts are the same as the ones seen when the DSADI program was loaded at the DOS command level.

GEM DRIVER

Version 2.1 or Greater

In order to take full advantage of the higher resolutions provided by the KP800 card, you MUST use a Multisync type display. Standard EGA monitors do not work properly at the higher resolution modes of the KP800

Please use the following steps for easy software installation.

NOTE: The GEM working diskette is required.

1. Insert the utility diskette into drive A and use the DOS copy command to copy GEMCOPY.BAT onto the hard disk.

2. Log onto the hard disk:
   type. **GEMCOPY[RETURN]**

3. Follow the prompts on the screen to continue.

This completes the driver installation process.

WINDOW DRIVER

Version 1.0 or Greater

In order to take full advantage of the higher resolutions provided by the KP**800** card, you MUST use a Multisync type display. Standard EGA monitors do now work properly at the higher resolution modes of the KP**800**

Please use the following steps for easy software installation.

1. Insert the Utility Diskette in drive A and use the DOS copy command to copy WIN800.BAT or WIN640.BAT onto the hard disk.

2 Log onto the hard disk and type WIN800 or WIN640 and press [return].

3. Follow the prompts on the screen to continue.

This completes the driver installation process.

LOTUS DRIVER

Version 2.0 or Greater

Four 132-column drivers are available for use with LOTUS. These drivers allow all LOTUS functions to take place in the 132 column display mode. (Note: The TRANSLATE and INSTALL functions MUST be performed in the 80 column mode).

If you attempt to use either of these functions in 132 column mode, LOTUS does not properly execute these functions. The difference among the four drivers is the number of lines displayed on the screen.

Please use the following steps for easy software installation.

1. Copy from the KP**800** Utility diskette all the 132*.DRV files to the LOTUS subdirectory.
2. Delete the LOTUS SINGLE.LBR file. If it does not exist go to step #3.
3. Access Lotus and choose the INSTALL option for the Lotus Selection screen, and follow the screen prompts to the Main Menu.
4. Move the cursor to ADVANCED OPTIONS and press [return].
5. Move the cursor to ADD NEW DRIVERS TO LIBRARY and press [return].
6. Follow the screen prompts to return to the ADVANCED OPTIONS menu.
7. Move the cursor to MODIFY CURRENT DRIVER SET and press [return].
8. Move the cursor to TEXT DISPLAY and press [return].
9. Move the cursor to the driver to be loaded and press [return].
10. Move the cursor to RETURN TO MENU and press [return].
11. Move the cursor to SAVE CHANGES and press [return].
12. Type the name of the driver and press [return]. We STRONGLY SUGGEST that you use the numeric designation of the driver being loaded as the name.
13. Follow the screen prompts to continue loading drivers or exit the INSTALL process.

Th completes the LOTUS driver installation process.

To access a driver once it has been installed from the DOS prompt, type LOTUS and the driver name entered in Step #12 above.

FRAMEWORK II DRIVER

Version 1.1

The screen driver for Framework II Release 1.1 utilizes Framework's Desktop "view" to take advantage of the 132 column capability. It requires only one installation unless there is a change in the system configuration, e.g. a different monitor is used.

The following steps should be taken to install the driver:

1. Select IBM Enhanced Graphics Adapter as the Video display and complete the software installation. Run SETUP from the Framework floppy disk or hard disk directory where Framework resides. There is not a separate installation program.

2. Select 2 for "all other uses of the setup program."

3. Select 2 under "CHANGE CONFIGURATION."

4. Select 1 under "PRIMARY HARDWARE."

5. Select 1 under "SCREEN DRIVER."

6. Select 7 under "SELECT DRIVER." This choice allows you to choose a specific driver.

7. Enter one of the following under "NEW SETTING".
   fw350.sc for normal EGA 640 x 350 resolution
   fw480.sc for 640 x 480 EGA resolution
   fw800.sc for 800 x 600 resolution

8. Press "M" to go to the main menu.

9. Press "7" to save the changes.

10. Insert the Utility Diskette #2 into the A drive.

11. Select either floppy or hard disk depending upon your system configuration.

12. Exit from the SETUP program.

This completes the installation. For subsequent Framework sessions KP**800** ; does not need to be run.

VENTURA DRIVERS

Version 1.1

In order to take full advantage of the higher resolution provided by the KP800 card, you MUST Use a MultiSync type display. Standard EGA monitors do not work properly at the higher resolution modes of the KP800

1. Insert the Utility Diskette in drive A and use DOS copy command to copy VENCOPY. BAT file onto the hard disk.

2. Log onto the hard disk and type VENCOPY and press [return]

3. Follow the prompts on the screen to contunue.

This completes the driver installation process.

WORDSTAR PROFESSIONAL

Wordstar Professional allows the user to select the height (row) and Column (width) of a text mode. Using the KP800 utility you can select various text modes, such as 80 x 66 which requires a MultiSync type monitor, 132 x 32, 132 x 44, etc.

An example of how to set this up for the 132 x 32 text mode follows:

1. Install Wordstar Professional. Release 4 according to the Wordstar manual.

2. With the KP800 utility diskette #1 in drive A:, copy KP800.EXE, FNT8X11.FNT, and FNT8X12.FNT to the Wordstar subdirectory.

3. Create a batch file and data file in the Wordstar subdirectory. Begin from the Wordstar subdirectory and proceed as follows:

   type: COPY CON: Space WS13232.BAT <RETURN>
   type: KP800 E32< IN KP800 DOT <RETURN>
   type: WS <RETURN>
   type: KP800 E3 <RETURN>
   press: F6

   The screen will display, "One file is copied"

   type: COPY CON: Space IN KP800 DOT <RETURN>
   press: <RETURN>
   press: F6

   The screen will display, "One file is copied"

4. Set Wordstar to the appropriate text mode. Begin at the DOS prompt from the Wordstar Subdirectory and proceed as follows:

type: WSCHANGE WS	<RETURN>
select: <A> console	<RETURN>
select: <A> monitor	<RETURN>
select: <A> IBM Compatible using Video RAM directly	<RETURN>
select: <C> screen sizing	<RETURN>
select: <A> height	<RETURN>
type: 32	<RETURN>
select <B> width	<RETURN>
type: 132	<RETURN>
press: X	

The Wordstar subdirectory will be returned. This completes the installation. This procedure does not need to be repeated for subsequent Wordstar sessions.

5. To subsequently run Wordstar in 132 x 32 text mode from the Wordstar subdirectory:
   type: WS13232 <RETURN>

NOTE: When you are in the Wordstar program you can set the right margin to 132 by selecting AO On-screen format.

select: R set right
enter: 132 <RETURN>

WORDPERFECT

WordPerfect allows the user to select the height (rows) and width (columns) of a text mode. Using the KP800 utility you can select various text modes, such as 80 x 66 which requires a MultiSync type monitor, 132 x 32, 132 x 44, etc.

An example of how to set this up for the 132 x 32 text mode follows:

1. Install WordPerfect Release 4.1 according to the WordPerfect manual.

2. With the KP800 utility diskette #1 in drive A:, copy KP800 EXE,

3. From the WordPerfect subdirectory type: KP800 E32 <RETURN>

4. Press <RETURN> a second time to return to the DOS prompt and type: WP/S

5. While the screen will still dipslay 80 x 25, proceed as follows:

   Press: 3 <RETURN>
   type: 32 <RETURN>
   type: 132 <RETURN>

6. Select the 0 (zero) option accepts the configuration and returns to WordPerfect.

7. Create a batch file as follows in the WordPerfect subdirectory:
   type: COPY CON: Space WS13232.VAT <RETURN>
   type: WP <RETURN>
   type: KP800 E3 <RETURN>
   press: F6
   The screen will display, "One file is copied"
   type: COPY CON. Space IN KP800 DOT <RETURN>
   press: <RETURN>
   press: F6

8. To subsequently run WordPerfect in 132 x 32 text mode from the Wordstar subdiectory type WS13232 <RETURN>

PAGEMAKER

Pagemaker can be run under Microsoft Windows. The Windows driver must be installed as previously described. After running WIN.EXE, Pagemaker may be run as an application.

MEMO