

January/February 1988

- PageMaker
- Microsoft Windows
- HP SketchPro
- Data Transfer

FOR DETAILS OF  
HP PERSONAL COMPUTER  
PRODUCTS



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## Late-breaking news on HP personal computer products

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If you have a copy of U.S. **PageMaker version 1.0a** (HP 45964A) which has not yet been installed, please take a moment to check it--you may have received a copy which has an incorrect **INSTALL** program and therefore will not print when initially installed.

How to check your copy: If the label on your PageMaker **INSTALL** disc reads "Version 1.0" it is correct. If the label reads "Version 1.0a," insert the **INSTALL** disc in your flexible disc drive and type **A:DIR**; if the file **INSTALL.EXE** has a date of 6-19-87 or later, your copy is correct. If the date is prior to 6-19-87, it is incorrect.

Explanation of the problem: Some PageMaker 1.0a packages include defective copies of two ancillary programs, **INSTALL** and **PCLPFM**:

- o The incorrect PageMaker **INSTALL** program assumes that you are using a run-time version of Windows--rather than the complete Windows.

The workaround:

1. Install Windows following the Windows installation instructions.
2. Run PageMaker **INSTALL**, disregarding the messages which refer to the "run-time" Windows discs.
3. After installation is complete, do a **DIR** of the PageMaker subdirectory.
4. Delete **CONTROLE.EXE**, **CLIPBRD.EXE**, and **SPOOLER.EXE** from that subdirectory.

PageMaker will then use the Windows utilities which you installed with your copy of Windows.

- o The incorrect **PCLPFM** program works correctly but displays irrelevant "debugging" messages.

The workaround: Disregard these messages.

If you have a copy with these problems, you can either 1) follow the workaround instructions given above, 2) obtain the revised **INSTALL** and **PCLPFM** programs from the Aldus PageMaker Forum on CompuServe, or 3) contact your dealer or HP Response Center to obtain correct **INSTALL** and **PCLPFM** programs.

By the way, be sure to return the Aldus registration card from the User Manual. Registered owners receive the "Aldus Guide to Basic Design," the "Desktop Publisher" newsletter, upgrade offers, and other important information.

\* \* \*

A new Hewlett-Packard LaserJet Series II Printer End-User Videotape is now available. This two-hour videotape helps you to better understand and use your LaserJet Series II printer. Much of the material presented in the video was developed based on user inputs to the LaserJet Customer Assistance Group. The video program is comprised of the following sections:

- Product overview
- Hardware guided tour
- Configuring your hardware
- Using the right paper
- Maintenance of your printer
- Servicing your printer
- Accessories
- Fonts
- Using software with your printer
- Printer commands
- Software support
- Common tasks
- Learning to use popular software (Lotus 1-2-3, WordPerfect, MultiMate, MicroSoft Word)

The LaserJet Series II video (HP 33440-90025) is available in the U.S. for \$29.95 from the following sources:

- HP Corporate Parts Center, (916) 786-8000
- LaserJet Journal, (312) 498-0920

The videotape will soon be available also from HP DIRECT. For HP DIRECT phone numbers, see the article "How to Order" in the green pages of this issue.

\* \* \*

HP is discontinuing the HP PC-308M Controller (HP 82314A) and the HP PC-308C Controller (HP 82315A), as they are being replaced with the HP PC-308ML and PC-308CL Controllers (see article in this issue) based on the Vectra ES/12 PC. Following standard HP policy, support for the discontinued products will be provided for five years.

\* \* \*

The latest release of **AdvanceLink**, version B.01.00, now supports the new HP family of PCs (Vectra ES, CS, and Portable CS). These new PCs use a different keyboard. The keyboard does not have a 10-function key keypad on the left side; instead, there are 12 function keys across the top.

To accommodate the new keyboard, as well as the older Vectra keyboard, AdvanceLink incorporates the use of a help screen to explain the layout of function keys. To access the help screen, press ALT H at anytime, in any screen. A help screen will appear, explaining all the keystrokes available to you. If you use the graphics terminal emulator, a help screen is available to explain the graphics keypad; press ALT G to access this screen when the graphics keypad is activated (CTRL -).

\* \* \*

HP's new ThinkJet printer paper catcher (HP 92261R) can keep your printer output folded into neat stacks, undisturbed by printer cords. The catcher attaches directly onto the back of the HP ThinkJet printer stand (HP 92261S) or the terminal-top HP ThinkJet printer stand (HP 92171X); a connecting chain enables it to hang at a 30-degree angle or lie flat on a desk.

To order, contact your dealer or HP. HP DIRECT phone numbers are given in the article "How to Order" in the green pages of this issue.

\* \* \*

Disc technology has advanced to the point where twice as much data can be stored on one 3 1/2-inch flexible disc. HP now offers such a disc, designed to provide you with 1.44 Mbytes of formatted capacity for reliable data storage and more simplified backup.

You can use this 1.44-Mbyte disc with most industry-standard high-density drives, including the new HP Portable Vectra CS PC. You should not use the discs in lower capacity drives, including the HP 150/Touchscreen PC drives.

To order the 1.44 Mbyte discs, contact your dealer or HP. HP DIRECT phone numbers are given in the article "How to Order" in the green pages of this issue. Ten high-density double-sided, unformatted 1.44-Mbyte discs are included in each box (HP 92192X).

\* \* \*

HP also has supplies for the new **HP RuggedWriter 480 printer**.

- o Printer Ribbons (HP 92156S). Each ribbon guaranteed to print up to 3,000 double-spaced pages of black text in draft mode. Each box contains three ribbons.
- o Printer Stand (HP 92166A). Store as much as 250 sheets of continuous-feed paper under this stand, or use it to feed paper directly from the carton.
- o Sheet Feeder Accessory (HP 12239A). Holds up to 100 sheets at a time, and once it's snapped into the printer, it's an integral part.
- o Font Cartridge Accessory (HP 12235A). Includes Prestige Elite 12, Letter Gothic 12, TmsRmn PS, and Helv 10, plus 16 Kbytes of RAM to allow for downloading, and to act as a buffer.

To order, contact your dealer or HP DIRECT. HP phone numbers are given in the article "How to Order" in the green pages of this issue.

\* \* \*

HP has announced a new software-application environment that incorporates object-management technology, artificial-intelligence (AI) principles, and a common graphic user interface for improved personal-computer integration and ease of use.

The **HP NewWave environment** allows PC users to work across applications and to access data and files seamlessly from multiple sources. Based on the emerging Microsoft Windows 2.0 standard, it provides PC users with a single view into an organization's entire network of HP and other computer resources.

The HP NewWave environment will be released in two phases.

- o Phase One, scheduled for February 1988, will be the shipment of the HP NewWave Developer Kit for value-added businesses (VABs), independent software vendors (ISVs) and HP's major customers.

o Phase Two, scheduled for the second half of 1988, will include the end-user release of the HP NewWave environment as well as the first software applications from HP and other vendors.

Users can continue to use current MS-DOS software from HP and other vendors with the HP NewWave environment.

If you would like to find out more about becoming a developer, contact your local HP sales office.

\* \* \*

The manual *Getting Started with LaserJet II* has an omission in the section on HP 150s. Section 3, page 38, item 17 instructs the user to "refer to the settings listed below" to set the FULL DUPLEX HARDWIRED Port 2 for use with the LaserJet II, and then neglects to list them. Here are the proper settings which can be found on page 2-22 of the LaserJet and LaserJet Plus Printers operator's reference manual.

Baud Rate-9600  
Parity-NONE  
Databits-8  
Clock-INT  
Asterisk-OFF  
Stop Bits-1  
EnqAck-NO  
TR(CD)-HI  
Check Parity-NO  
SR(CH)-LO  
RecvPace-None  
SRRXmit-NO  
RR(CF) Recv-NO  
XmitPace-None\*  
SRRInvert-NO  
CS(CB) Xmit-Yes\*  
DM(CC) Xmit-NO

\*For X-ON/X-OFF operation, change the XmitPace field to X-ON/X-OFF and the CS(CB) Xmit field to NO.

\* \* \*

New language versions of **HP Vectra MS-DOS 3.2** on **3 1/2-inch** discs become available February 1, 1988. These new products are for use with the Vectra Portable CS. The additional country versions include:

Country (HP Product Number)

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Spain (45951CE)  
Norway (45951CN)  
Switzerland-German (45951CP)  
Switzerland-French (45951CQ)  
Denmark (45951CY)  
Italy (45951CZ)

## Welcome to the *HP PC Communicator*



The *HP PC Communicator* is the heart of HP's support program for personal computers and software. The magazine contains programming techniques, information on software updates, notes on using applications, and corrections for manuals. The *HP PC Communicator* also lists known software problems and their solutions, and introduces new members of the HP PC family.

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### **Subscriptions and Back Issues**

In many countries, you can order subscriptions and back issues by telephone. For details, see the "Ordering *HP PC Communicator* Subscriptions" and "Ordering Back Issues" articles in the Current Information insert.

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### **Becoming a Contributor**

Much of the material in this issue was submitted by users and HP field-support people. If you'd like to contribute an article, program, question, or suggestion, please send it to us at the following address:

Editor, *HP PC Communicator*  
Hewlett-Packard Company  
P.O. Box 486  
Sunnyvale, CA 94086 U.S.A.

By submitting information, you agree that the material will not be considered confidential, and that HP may use, copy, edit, modify, publish, or sell it without any liability and without any obligation to you or to anyone else. If we publish your contribution in the *HP PC Communicator*, your name will appear on the by-line. If you'd like us to return the material you submit, please enclose a stamped, self-addressed envelope with it.

We look forward to sharing your ideas with HP PC users throughout the world.







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**The Encyclopedia**

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Cumulative Encyclopedia Index	
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**Current Information**

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(See page *Current Information-3* for *Table of Contents*.)

# The Default Gallery Palette



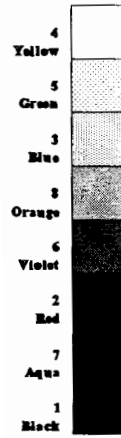
*Black Red Blue Yellow Green Violet Aqua Orange*



# The Default Gallery Palette



*Black Red Blue Yellow Green Violet Aqua Orange*



When you use the new release of Graphics Gallery 2.0 with the HP LaserJet family of printers, you have a choice of gray scales. Gray scale patterns are used in Gallery to simulate colored, solid-filled areas for printing on an HP LaserJet printer. In the Drawing Gallery or Charting Gallery Device Control menu, if you select the default option for Color = Yes, the gray scales used to simulate color will be the same as those printed in earlier versions of Gallery (see the top picture at left). However, if you change the option to be Color = No, then Gallery will print to a LaserJet using the finer gray scale patterns shown in the bottom picture.





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If you would like to know how to send more than one Drawing Gallery or Charting Gallery picture file to your plotter—and be able to walk away from it while it plots—this article will show you how.

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**Caveats**

Drawing Gallery, both for the HP Vectra PC and the Touchscreen II PC, has a command that can be issued from the Drawing Gallery subdirectory that will send all of your specified picture files to your attached plotter, one by one. There are a few caveats, however, in this process:

- All pictures that you send to plot at any one time must be either in landscape or portrait orientation, as Drawing Gallery is unable to switch orientation between plots.
- You must have a form-feed plotter directly connected to your PC (i. e., either an HP ThinkJet, LaserJet, or 7550A plotter). If you're using an HP 7550A plotter, it must have auto feed ON.
- Prior to issuing your plotting command, you must go into Drawing Gallery, set the correct orientation, turn auto form feed ON, and make sure the correct device is specified.
- You must know the name of your Drawing Gallery subdirectory, as that is where you need to be (not inside the application) in order to execute the command. Typically, the subdirectory is either GAL or GALLERY. On an HP 150 this is easy to figure out, as it is in the box on your P.A.M. screen, the word just below DRAWING GALLERY. On the Vectra, you will need to do a DIR in MS-DOS or go into Manage Applications in P.A.M. in order to see which subdirectory has Drawing Gallery.
- If you are sending many transparencies to plot, you may want to stay close by to ensure the supply of ink. To ensure the automatic loading of the transparency film it is a good idea to separate all the sheets of film before placing them in the feed tray, thus removing static cling.
- If you will be plotting Charting Gallery charts, first save them as pictures. You can do this in Charting Gallery, in the File Save screen with Save Picture (F4). When you save a picture, it will give your file the .GAL extension that Drawing Gallery requires to plot.

- The easiest way to set up your drawings to plot is to keep all the files in the same subdirectory on your hard disc, or on the same flexible disc, so that you can use the wildcard command (see below). If you have an HP 150 and a version of Drawing Gallery prior to B.03.00, you can not utilize this wildcard command.

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## Plotting

To issue the plotting command on an HP Vectra PC:

1. Go into MS-DOS.
2. Change to the subdirectory in which HP Gallery is installed.
3. Type in (for example) >DRAWGAL A:\*.GAL (this would plot all the files on your A diskette that have the file extension .GAL).

To issue the plotting command on an HP 150:

1. Go into MS-DOS and type DRAWGAL.IN\$ and find a file in your Drawing Gallery subdirectory that is named DRAWGAL.\*\*\*, where \*\*\* are a letter and two numbers. Write down the filename.
2. Go into Executive MemoMaker and create a file that has this line (type as one line with a space only after the number 52):

```
RUN52 DRAWGAL.***;LIB=DGLIB.V70;
DYNAMIC;SAVE;INFO="?B:FILENAME.GAL"
```

Please note: The \*\*\* will be the letter and numbers from the filename you wrote down in step 1. above. Also, the ? MUST BE THERE—don't delete it. In addition, you will replace B:FILENAME.GAL with the first filename (and subdirectory, if it's in one) that you wish to plot.

If you have the newest version (B.00) of Drawing Gallery, your run statement in your Executive MemoMaker file will be (type as one line with a space only after .EXE):

```
GAL64.EXE DRAWGAL.B00;LIB=GAL2.V75,
150AIOS.G04;INFO="?FILENAME.GAL"
```

3. Do a COPY BLOCK in the BLOCK KEYS of Executive MemoMaker, and copy this line as many times as you have files to plot. Edit the end of each line to include the next filename you wish to plot.
4. Save your file as DRAW.BAT, in your Drawing Gallery subdirectory as an ASCII file.

5. Exit Executive MemoMaker, go into MS-DOS, change your directory to your Drawing Gallery directory, type in DRAW.BAT, and press Return.
6. You can save this file in your Drawing Gallery subdirectory, and simply edit the filenames each time you're plotting a new set of pictures.

---

**Execution**

What to expect when you execute the DRAWGAL or DRAW.BAT command:

- First, you will see Drawing Gallery load.
- Then, you will see it attempt to find your file, based on the information you've given it in the DRAWGAL command or batch file.
- The picture will plot, then the next picture will be called onto the screen and plotted, and so on, until all of your pictures have been plotted.

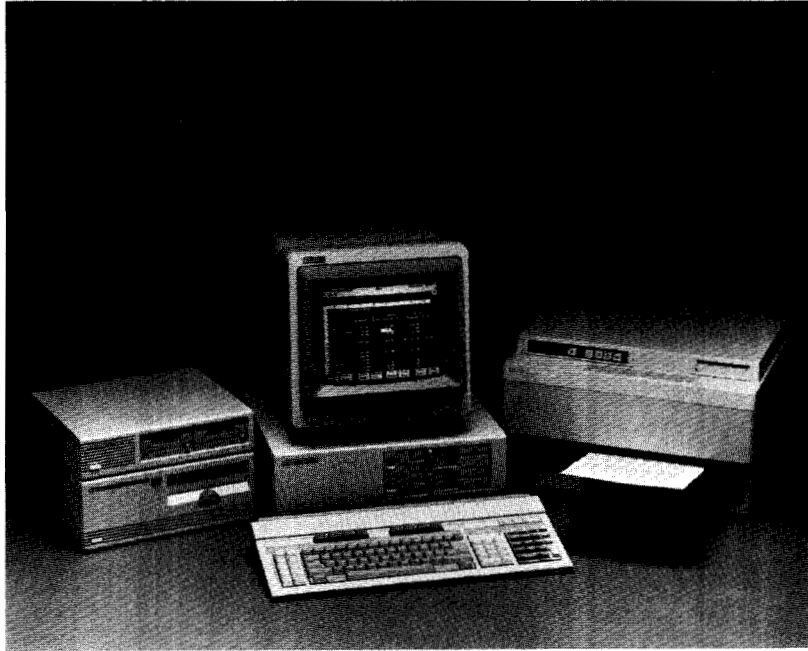
Note: If you want to know how to run the batch file without restarting the program every time, see Section 5 of the Gallery Collection Fast Trak.

**If you get error messages:**

Check that you followed the above instructions exactly. If Drawing Gallery won't load, you may not be in the correct subdirectory; if it can't plot a picture, you may have typed the filename incorrectly; if it plots in the wrong direction, your print screen is not set up correctly in Drawing Gallery. If it fails to load paper to plot, you may not have turned on auto feed in the Drawing Gallery printer menu, or you may not have turned on autofeed on the plotter.







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Scenario: You've just scanned an image, saving it to a filename with a .TIF extension on a flexible disc in Drive A: You then PLACE the .TIF into a PageMaker document (a .PUB file) on Drive C:. A few days later you try to use the .PUB but get the error message: "Cannot file <filename.tif> in Drive A:" What can you do?

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If the .TIF is small (less than 64K), it may be incorporated fully into the .PUB.

With .TIF files 64Kbyte or greater in size, the .TIF is still required. The .PUB file maintains a pointer to the .TIF that includes the path. In other words, an image PLACEd from a .TIF in Drive A: will always expect to find that .TIF in Drive A:. Since the .TIF in the scenario above was in Drive A: when it was PLACEd in the .PUB, the .PUB will always expect to find the .TIF in Drive A:.

To overcome this, you have to:

1. Keep the .TIF file. Insert it in Drive A: whenever you want to use the .PUB file in which you've PLACEd it.

**OR**

2. Make sure the .TIF file is on Drive C: before you PLACE it in the .PUB.

In general, do NOT delete your .TIFs; as long as you have a PUB that incorporates the .TIF, you will need it. Also remember that the .PUB saves the path, so the .TIF must be in the same sub-directory.

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This article explains how you can produce AdvanceWrite Plus documents with integrated text, images and graphics.

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**Select Image or  
Graphic Size and  
Resolution**

First, decide on the size and resolution for the image or graphic.

Read the appropriate AdvanceWrite Plus Printer Documentation file for the printer you intend to use. These files are held on the Printer Documentation discs, HP 27546-15009 or 27546-15011. The files tell you whether or not the printer supports graphics, and if so, which different resolutions are supported. For example, if you are going to use one of the family of HP LaserJet printers, these resolutions are available:

<u>AdvanceWrite Plus Resolution</u>	<u>Dots per inch (dpi)</u>
1	75
2	100
3	150
4	300

Remember that the higher the resolution, the better the printed image quality. However, at higher resolutions the graphics file will be larger; it will require more disc space and will take longer to print. The scaling is roughly proportional: At 300 dpi the file will be four times the size as at 75 dpi. Also, at high resolution the graphics file may be too large for the memory buffer in your printer; a full page graphic at 300 dpi requires about one megabyte of memory.

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**Create the Graphic File**

Next, create the graphic file that you will include in your AdvanceWrite Plus document. This must be a TIFF format file, which is compatible with Graphics Gallery (A.01.00 with the update for Desktop Publishing) and Scanning Gallery (up to A.01.02). [Note: TIFF (Tag Image File Format) is a standard format for raster graphics files that has been adopted by Hewlett-Packard, Microsoft and Aldus Corporation.]

Note that when you create the TIFF file you will be asked to specify the resolution (in dots per inch) and the size (height and width in inches or centimeters) of the graphic that you are producing. Remember that in general you cannot alter these values with AdvanceWrite Plus (though see below for more details). Furthermore, you cannot easily determine from the TIFF file what these values are, so you may need to jot them down, as this example illustrates:

<u>Filename</u>	<u>Res (dpi)</u>	<u>Width (Inches)</u>	<u>Height (Inches)</u>	<u>Subject</u>
c:\TIFF\gt001.tif	150	5	3	House
c:\TIFF\gt002.tif	300	4	4	Map
c:\TIFF\gta01.tif	150	3	3	Graph

**Create the AdvanceWrite Plus Document**

Create your document file with AdvanceWrite Plus. When you want to include an image or graphic, start a new line and press DO followed by G. A window opens at the top of the screen, with fields for you to fill in with the information already described:

- The full filename of the graphic file
- The resolution (not in dpi but the AdvanceWrite Plus resolution for your printer that corresponds to the required dpi)
- The width and height of the graphic

After following the guidelines in the rest of this section and filling in the fields, press Enter.

[Note: AdvanceWrite Plus creates a Graphics Area, consisting of a Start Protect and a Graphics Mark, followed by a number of blank lines, and an end Protect Mark. It is helpful to have these Marks clearly displayed (press MARK M Enter). At the top of the Graphics Area will be the Graphics Mark which has the TIFF Filename (exactly as you entered it) followed by three numbers. The first is the resolution (1 to 9) that you specified; the others are the width and height in internal units with which you need not be concerned.]

It is important to understand the significance of the resolution, width and height that you specify here. The resolution that you enter in the field is NOT that of the TIFF file, but the resolution that AdvanceWrite Plus will select on the Printer to print the graphic. If you select the same resolution that you used to create the graphic file, the graphic will be printed with the same dimensions that you specified when you created it. If you specify a DIFFERENT resolution, then the graphic will be printed at this new resolution and will be scaled in size accordingly.

For example, imagine a graphic created with a resolution of 100 dpi and a size of one inch by one inch. Printed at various resolutions the size will vary as follows:

<u>Printed at Resolution</u>	<u>Size</u>
75 dpi	1.333 inches by 1.333 inches
100 dpi	1 inch by 1 inch
150 dpi	0.666 inches by 0.666 inches
300 dpi	0.333 inches by 0.333 inches

If you print at a higher resolution the graphic appears smaller, and vice versa.

In the same way, the width and height that you specify to AdvanceWrite Plus does NOT control the size that the graphic will be on the paper—that is controlled by the contents of the graphic file and the resolution that you have just specified. The width and height should describe the size that you expect the graphic to have. AdvanceWrite Plus ignores the width value, but uses the height to create a “Graphics Area” with the appropriate number of lines. This is a Protected Area which will not be split across a page break.

Again it is worth considering the effect of choosing an incorrect value here. If the height you select is too large, then AdvanceWrite Plus opens up a larger white space than is necessary for the graphic, which will appear on the page with empty white space below it. If you choose a height that is too small, subsequent text may be printed over the graphic because the graphic will be too large (in height) for the space. This will indeed happen with HP LaserJet printers; on printers (such as the HP ThinkJet family) which cannot overprint text and graphics the text below the graphic will be forced down, adversely affecting the pagination of the document.

---

**Positioning the Image or Graphic**

The image or graphic will normally be aligned with the left margin of text. Remember, however, that the graphic itself may contain white space which may appear to alter this alignment. There are several ways to control the position of an image or graphic on the page:

1. Use the MARK R (Right) L (Left) U (Up) or D (Down) commands. These cause text or a graphic to be shifted by the specified number of character or line spaces in the given direction. Following the graphic you should insert the opposite Mark to reposition the text. For example, if you used a MARK R 15 command to shift the graphic 15 character positions to the right, you would need to follow the graphic with a MARK L 15 to ensure that the following text is printed in the correct position.
2. Insert a Format Line and move the left margin to the correct place. Note that the number of Format Lines in a document is limited to 57.
3. Use Multiple Columns. Side-by-side columns enable you to position a graphic or image alongside some text. This is effective with HP LaserJet printers which can print text and graphics side-by-side, but is not suitable for printers which cannot accommodate this capability, such as the HP ThinkJet printer.

---

**If the Image  
or Graphic  
Does Not Print**

If a problem occurs with the graphic or image, the document will be printed with a blank space in its place. Some possible reasons for this are:

- The Graphic file could not be found.

If you provided a fully qualified filename (for example C:\TIFF\Filename.tif), check that the details are correct and the file exists on the disc. If you provided a partial filename (for example filename.tif), try specifying a fully qualified one, which is more secure.

Did you specify the correct filename extension? If the filename includes an extension, you must enter it in the filename field when you use the DO G command. The use of the ".TIF" extension to denote TIFF files is a useful convention. In some environments (for example PageMaker) it may be required.

- The graphic file was present but it was not a valid graphic file.

Where was the file generated? Is it one of the supported file types? AdvanceWrite Plus supports all TIFF Formats generated by Drawing Gallery A.01.00 and Scanning Gallery A.01.02 or earlier.

- You may have placed graphics and text side-by-side (for example by using multiple columns). Is your printer capable of printing side-by-side text and graphics? If it is not, the graphic will not be printed.

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**Modifying the  
Graphic Mark**

If you want to change the Graphic Mark in your document, simply place the cursor on the Graphics Mark itself (where the filename is displayed) and press DO G Enter. The Graphics Window will open up just as it did when you first created the Graphics Mark, but this time the information will already be displayed in the fields by AdvanceWrite Plus. Simply tab to the field that you want to change, type the new value over the old one, and press Enter. The old Graphics Area will be removed and a new one will be generated.



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**Deleting a Graphic Area** To delete a Graphic Area, simply delete the area from the Graphic Mark to the following End Protect Mark.

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**AdvanceWrite Plus and Scanning Gallery** Scanning Gallery, the software provided with the HP ScanJet document scanner, allows pictures to be scanned and stored in the HP Vectra PC as TIFF Files. As long as the particular TIFF format you select is supported, the picture can be printed as a graphic by AdvanceWrite Plus. The table below shows the different TIFF file formats that can be created with Scanning Gallery, and shows which formats are supported by AdvanceWrite Plus.

TIFF File			Scanning Gallery (A.01.00)	AdvanceWrite Plus (F.02.00)
Dithered	No Grey	Uncompressed	Y	Y
		Compressed	Y	Y
Dithered	Grey	Uncompressed	Y	Y
		Compressed	N	N
Greyscale	No Grey	Uncompressed	Y	Y
		Compressed	Y	Y
Greyscale	Grey	Uncompressed	Y	Y
		Compressed	N	N

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**Key:**

**Dithered** Includes the four dither patterns supported by Scanning Gallery

**Grey/No Grey** The state of the option flag in Scanning Gallery which states whether the image contains shades of grey or not

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	<p>Corrupted data usually occurs without warning and the only available course of action is to copy the last backup and re-enter the transactions that have been entered since the backup was made. To protect your BPI data files, use the following tips on making an adequate backup and minimizing the risk of corrupting data.</p>
<b>Backups</b>	<p>Making backups of BPI data files is very important. Here are some steps that can be taken to ensure an adequate backup.</p> <ul style="list-style-type: none"><li>■ Make backups on HP discs that are in good condition.</li><li>■ Use several discs and rotate them (disc 1, then disc 2, and back to disc 1 again) so that there are several generations of backup including last month-end.</li><li>■ Make backups frequently. A good rule of thumb is to make a backup after each posting.</li><li>■ Test the Backup. Print some reports from the backup data. Use the MS-DOS CHKDSK command regularly. See the HP 150/MS-DOS User's Guide for an explanation of the syntax and use of the CHKDSK command.</li><li>■ Handle and store discs prudently. Keep discs away from magnetic sources such as magnetic sculpture and paper clip holders, and electric pencil sharpeners.</li><li>■ Always backup to a different disc than the one being used for storing regular data files.</li></ul>
<b>Avoid Corruption</b>	<p>Here are some steps that can be taken to minimize the risk of corrupting data.</p> <ul style="list-style-type: none"><li>■ Observe the capacities and limitations of each BPI module. Capacities and limitations are listed in the manual for each module under the section titled "Managing Data."</li><li>■ Handle and store discs carefully.</li><li>■ Treat the disc drives gently.</li><li>■ Use the MS-DOS CHKDSK command regularly.</li><li>■ Use a surge protector on the computer's AC power line.</li><li>■ Don't use the computer when electrical power is fluctuating or during electrical storms.</li></ul>

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Here's how to obtain the best printing results from AdvanceWrite Plus and Print Central, using these printers:

- HP LaserJet Printers (including the HP LaserJet Series II and the HP LaserJet 2000)
- HP 2932 and HP 2934

What you need:

- AdvanceWrite Plus (F.02.00) and the DOS keyboard
- Print Central—UB Delta 2 or onwards

Make sure you choose the DOS keyboard when installing AdvanceWrite Plus. This will enable printing to take place without having to access the file system (for example, performing a directory listing or editing another file) after each print.

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**Printing**

**In AdvanceWrite Plus**, select "Path for Output" (in the Defaults Page) as PRN, and choose the appropriate printer directory. By selecting PRN you tell AdvanceWrite Plus to send buffered output to the chosen printer (the fastest method of output).

**In Print Central's REDIRECT** (PC software), make sure that you select the "DIRECT" mode of print. This tells Print Central to pass the print file to the printer as it is, so all the AdvanceWrite Plus features in the file are retained. You can also use Print Central to print from AdvanceWrite I, II and III, and AdvanceWrite Plus (Envoy (old) keyboard version). The only difference between using AdvanceWrite Plus (DOS or new keyboard version) and the above versions is that with these versions you must access the file system (for example to display a directory, edit a file, etc.) or you have to exit AdvanceWrite before the print will take place.





The HP 82973A HP-IL Card for the HP Vectra PC and IBM PC/XT/AT is a useful product for users who want to transfer files between the HP Portable or Portable PLUS and the personal computer. I often use the HP-IL card for file transfers.

Below are answers to the most frequently asked questions about the card.

**Q: What is the latest version of the card?**

A: The latest version of the card is Rev. C, and the latest version of the software is Rev. D. Many users have versions of the Rev. C software with the Rev. B card. HP has been shipping the Rev. D software with the Rev. C card since July 1987.

The drivers and programs on the Rev. D disc are the same as on the Rev. C disc. All that changed on the software disc was the manual. No upgrade is required for users of the Rev. C software.

**Q: Wasn't there also a revision B of the software?**

A: Yes, but that had some problems that were overcome with Rev. C of the software. A free upgrade from Rev. B software to Rev. C software is still available. If you need the upgrade contact either the HP HelpLine Response Center or your local HP sales office.

**Q: What changes were made to the card in July 1987?**

A: A hardware change was made to the card to provide a wider variety of I/O addresses from which to choose. The Rev. B card had only four selectable addresses, one of which was an important system address. Therefore, with only three alternative addresses available, it was sometimes difficult to avoid an address conflict with other I/O cards in the PC.

The new card allows you to select from many possible addresses so that it is much easier to avoid conflicts with other cards. Also, the documentation was changed to reflect the new addressing scheme for the card. It now shows users the switch settings for five different addresses, and gives instructions for selecting other addresses.

Documentation for Interrupt 54H was added to the disc for programmers who wanted assembly-level access to the card.

**Q: What software is included with the card?**

A: The software disc includes the following:

- HP-IL Controller Software
- HPLINK program (makes the PC an HP-IL device)
- Online manual
- Printable version of the manual
- Documentation for INT 54H
- Disc format utility
- Diagnostic utility

**Q: Can I use an HP 9114 disc drive with my PC?**

A: You can use up to eight HP 9114A or 9114B disc drives with the HP-IL card and controller software. The HP drives are treated as regular DOS drives by the PC. Additionally, you can format discs in an HP 9114 from the PC using the HPILFOR utility on the software disc. However, you can't format or use an IBM-type disc, such as those formatted with the Portable Vectra CS.

**Q: I can't find the electronic disc on my PC. Where is it?**

A: The HP-IL driver (HPIL.SYS) reserves eight disc drive designations for HP-IL disc drives. The designations reserved depend upon the order in which the device drivers are referenced in the CONFIG.SYS file. For example, the following lines in a CONFIG.SYS file (assuming the PC has two internal floppy drives and an internal hard disc drive), declare the electronic disc as drive D and HP-IL discs as drives E, F, G, H, I, J, K, and L.

```
DEVICE = ANSI.SYS
DEVICE = VDISC.SYS 64
DEVICE = HPIL.SYS
```

If you transpose the last two lines, the ordering becomes different—HP-IL drives are D through K and the electronic disc is drive L. Even if you have less than eight disc drives connected on HP-IL, the HP-IL driver still reserves eight disc drive designations. Often when you seem to have “lost” an electronic disc or external disc drive, it might simply have a different drive designation than you expected.

**Q: Can I use an HP ThinkJet (HP 2225B) printer with my PC?**

A: You can use any HP-IL printer with the HP 82973A HP-IL Card and controller software. However, the controller software recognizes the first printer on the loop only. You can print reliably to the HP-IL printer from DOS or PAM only. Since the software included with the HP-IL card was designed primarily for transferring files between a Portable or Portable PLUS computer and a PC, the drivers included with the card served that purpose. The drivers supplied with the card are not useful for general-purpose HP-IL operations. Therefore, many HP Vectra PC or other PC applications do not print reliably to an HP-IL printer. One way to print output from an application on an HP-IL printer is to route printer output from the application to a file and then print that file from DOS using the PRINT command.

Drivers are supplied on the software disc to make the HP-IL printer the HPILPRN, PRN, or LPT1 device. This allows flexibility for DOS users who are accustomed to a particular printer designation.

**Q: How do I transfer files between my HP Portable or Portable PLUS and the PC?**

A: The HP Portable and Portable PLUS PCs have the HP-IL drivers and the HPLINK utility built into them. I prefer to connect my HP Portable PLUS to the HP Vectra PC and run HPLINK on the HP Portable PLUS. The HP Portable PLUS becomes another disc drive for the PC. I then easily copy files between my PC and the HP Portable PLUS.

Alternatively, I can connect the HP Portable computer and the PC and run the HPLINK utility on the PC. The PC's disc drives become accessible to the portable. Additionally, I can use the PC's display as a printer, or I can route information from the portable to the PC's printer.



**Q: What versions of DOS are supported?**

A: The HP-IL software will run in PCs using MS-DOS 2.0 or later.

**Q: How can I access the PC hard disc from a portable?**

A: PC hard disc drives formatted with MS-DOS version 3.0 or later cannot be successfully accessed from an HP portable computer. PC hard disc drives formatted with versions of MS-DOS previous to 3.0 are accessible to the HP Portable and Portable PLUS computers. To access a PC hard disc formatted with MS-DOS 3.0, run HPLINK on the HP Portable computer and access it from the PC.

For technical users, the reason you cannot successfully access hard disc drives formatted with 3.x (where x means 0, 1, etc.) is that MS-DOS 2.x formats hard disc drives with 12-bit file allocation table (FAT) entries and MS-DOS version 3.x uses 16-bit FAT entries. (Sixteen-bit FAT entries enable you to use higher-capacity hard disc drives.) Since the HP Portable and Portable PLUS computers run MS-DOS 2.x, they don't know about MS-DOS 3.x formats. They will therefore act as though any hard disc used 12-bit FAT entries. When writing to a hard disc formatted with 3.x, an HP Portable will write to the wrong disc sectors and corrupt the file allocation table. Fortunately, the HP Portable PLUS computer cannot access a hard disc formatted with MS-DOS 3.x.

**Q: Can I use the card in any PC clone?**

A: Although the HP 82973A HP-IL card works in various PC clones, it is supported in the HP Vectra and IBM PC/XT/AT computers only.

**Q: Can I use two HP-IL cards in one PC?**

A: You can use more than one HP-IL card in your PC. To do this, follow the instructions in the manual for setting the I/O address of each card. The I/O address for each card must be different. You will want to install the HPIL.SYS driver at each address and set up an HPLINK.BAT in a different directory for each card (you can't have two HPLINK.BAT files in the same directory).

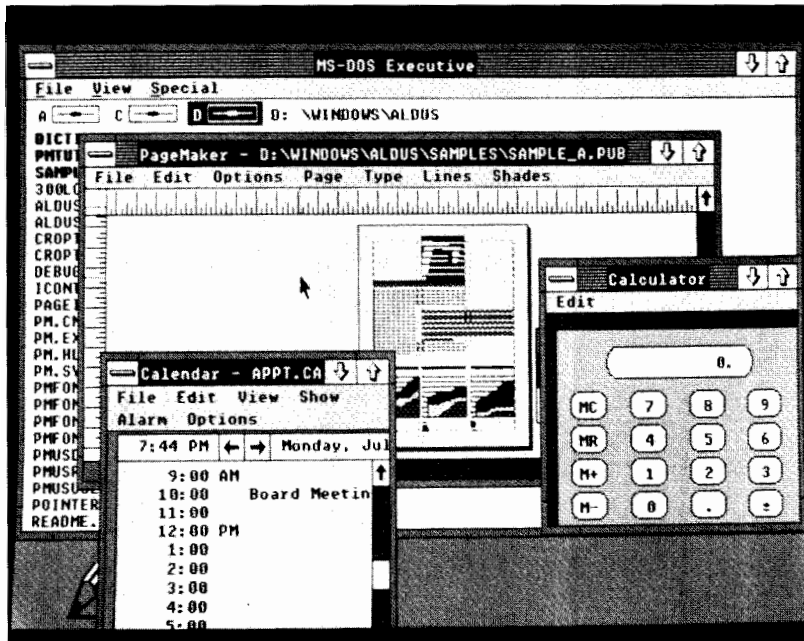
**Q: Can I transfer programs from an HP-41 to a PC?**

A: You can use your PC as a printer device for your HP-41 handheld computer. Simply run HPLINK on the PC and select printer or display. Then, using an HP 82160A HP-IL Interface Module, execute PRP on the HP-41. The output from the HP-41 will go to either the PC printer or display as selected.

**Q: Can I control instruments with this HP-IL interface?**

A: You can control instruments with the HP-IL card, but you must write your own controller software using assembly language using Interrupt 54H.





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If you are like me, and like working with MS-DOS commands, opening two windows may be a nice solution to a problem all of us have. For example, when the time comes to go through your directories and do some house cleaning, it's hard to remember what all the files contain or many of their names. Before using Microsoft Windows for the HP Vectra PC, I had to look at the directory listing, try to remember the names of a few files with which I wanted to work (DELEte or TYPE out), and do what I wanted with them. Then I would have to look at the directory again, and so on until I was done.

Using Microsoft Windows, there is a much better way of doing this: Open two windows for MS-DOS commands side by side. In one window, you can keep the directory listed, and in the other, do the TYPEs, DELS or whatever you want.

---

Here are the steps to go through to open two MS-DOS command windows:

1. To open the first MS-DOS command window, display the directory or subdirectory of your disc that contains COMMAND.COM in the "MS-DOS Executive" window (in case you hadn't noticed, that is the name of the window that comes up first when you run Windows).
2. Then double-click on the filename COMMAND.COM. This will open a window over the full screen allowing you to use the standard MS-DOS commands. (If you have a PROMPT command in your AUTOEXEC.BAT file, that will be reflected in the window.)
3. To open the second window, position the mouse on the MS-DOS Executive icon (the flexible disc), and push down on the mouse button. While holding down the mouse button, drag the icon halfway up the screen and all the way to the left. When you let go of the mouse button, the screen will split in half. The right half is the MS-DOS command window; on the left is the MS-DOS EXECUTIVE.
4. In the left window, double-click on COMMAND.COM as before, and just like that you have two MS-DOS command windows open side by side, for example:

```
COMMAND
A:\> dir *.bak
Volume in drive A has no lab
Directory of A:\
AUTOEXEC BAK      24   9-08
INSTALL  BAK      32   3-26
MEMO     BAK     209   3-20
PICTURE  BAK    4072   2-23
4 File(s) 802816 bytes
A:\>
```

```
COMMAND
A:\> type autoexec.bak
prompt $P$G
path = $P$G
pamcode

A:\>_
```

To switch keyboard control between windows you can either position the mouse in the window you want and click, or you can use the Alt key and the Tab key together to move control from window to window. If you use the second method, you will also move control and icons loaded at the bottom of the screen, i.e., the MS-DOS EXECUTIVE flexible disc.

That's it. Now you just jump back and forth between the windows and do your house cleaning.

In order to close these windows (you cannot end your session without first closing them) issue the EXIT command at the DOS prompt in each window.



---

There's another great way to run COMMAND.COM under Microsoft Windows for the HP Vectra PC—create a PIF for it! You may want to do this if you don't need multiple sessions of MS-DOS running from Windows, for example, you just want to copy a disc for someone and then return to your Windows Write document. If any of you have tried to run COMMAND.COM extensively under Windows, you know that it can be a little slow. Executing a "DISKCOPY" command might take you a while, unless you create a PIF for this file.

---

Here's how you do it:

1. Run Windows.
2. Go into the PIF subdirectory under Windows (C:\WINDOWS\PIF).
3. Run PIFEDIT.EXE (double-click with your mouse).
4. On the screen you will see the default settings for a PIF. In the Program Name field type:  
**COMMAND.COM**
5. In the Initial Directory field type:  
C:\  
(assuming that your COMMAND.COM file is in the root directory of drive C:)
6. Leave all other settings as they are.
7. From the FILE menu, select "Save." Save this file as COMMAND.PIF. COMMAND.PIF should now be in your \WINDOWS\PIF subdirectory.
8. Exit PIFEDIT.EXE.
9. Double-click on COMMAND.PIF from your PIF subdirectory. You should see what normally appears from MS-DOS.
10. Type "exit" to return to Windows, or use the [Alt]-[Tab] keys to context switch back to Windows.

You'll see a positive performance change in the way COMMAND.COM runs under Windows; it will now run as you normally expect from DOS.  
Happy Windowing!

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This article provides the instructions to install the Logitech C7 or Bus Mouse when you are using the runtime Windows version of Scanning Gallery.

Currently, the runtime Windows version of Scanning Gallery does not include the choice of a Logitech C7 (serial) or Bus Mouse. If you wish to install this Mouse, follow these instructions.

1. Make a copy of the Windows Setup Disc. (I will refer to the copy as the new setup disc.)
2. Copy the file "LMOUSE.DRV" from the Logitech "Driver 3.2" disc to the new setup disc.
3. Copy the file "MOUSE.SYS" from the Logitech "Driver 3.2" disc to the root directory of the system disc.
4. Alter the "CONFIG.SYS" file of the system disc to include the line:  
DEVICE = \_:\MOUSE.SYS  
(\_ is the drive letter of the system disc,  
for example, C:\MOUSE.SYS)
5. Reboot your system.
6. Install the runtime Windows version of Scanning Gallery using the new setup disc in place of the old one. When the window for choosing your mouse comes up, there should be a selection for the Logitech (serial or Bus) Mouse.

Note: This installation is for the most basic use of the Logitech Mouse. There are some advanced features of this mouse that require installation of additional files and further alteration of other files. If you are having problems with Scanning Gallery and are using the advanced features of this mouse, refer to the Logitech User's Manual.

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Hewlett-Packard now offers an industry-standard graphics tablet solution that supports AutoCAD, Versacad, CADKEY, and other major PC CAD packages.

The HP SketchPro tablet will work with virtually all major PC CAD and graphics packages because it can emulate two popular tablets, the Hitachi HDG-1111B and Summagraphics Bit Pad Two, as well as the Microsoft® Mouse.

Standard RS-232-C interfacing allows easy connection to the HP Vectra PC and all IBM PC/XT/AT and compatible computers. New patent-pending technology (Permuted Trace Ordering) means fewer parts, improved reliability, and lower cost.

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**Everything  
in One Box**

Ordering the HP SketchPro Graphics Tablet is easy because there are no options or accessories. Everything you need is in the box:

- Stylus (pen)
- Four-button cursor (puck)
- Serial cables for HP Vectra PC/IBM AT plus IBM PC/XT
- Software set-up instructions
- Microsoft® Mouse emulation driver files
- Overlay hold-down/protector

The HP SketchPro Graphics Tablet comes with both a stylus and cursor, so you can choose the device you prefer or change devices as you move to different applications. Two cables are provided; one to connect to HP Vectra PC/IBM AT compatible computers, plus an adapter for IBM PC/XT and compatibles. Software set-up instructions provide all the information necessary to configure the HP SketchPro Graphics Tablet with major PC CAD packages.

The included mouse driver disc provides everything you need for full Microsoft Mouse emulation. This benefits PC-CAD users who have additional applications (such as windows or business graphics) that support a mouse but not a graphics tablet. The HP SketchPro tablet's built-in softkeys make it easy to switch from tablet mode to mouse mode as different applications are selected.



Most users employ a tablet menu overlay or template with their PC CAD package. The HP SketchPro tablet's attached overlay holder eliminates the need to tape these menus onto the tablet. The holder also protects the overlays, which are often difficult or expensive to replace when scratched or torn.

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**Ordering  
Information**

The HP SketchPro Graphics Tablet has been attractively priced against its major competitors, and there is a special price break for quantity purchases of six HP SketchPro tablets.

To order, contact your dealer or HP sales representative.

Product Number	Description
HP 7060A	HP SketchPro Graphics Tablet includes stylus, four-button cursor, cables, mouse driver disc, overlay holder, and manual.
HP 7061A	HP SketchPro Graphics Tablet six pack includes quantity of six of HP 7060A.



Now available: Five pre-configured instrument controllers based on the new HP Vectra line of personal computers. The HP PC-305 and new PC-308 instrument controllers are systems that include either an HP Vectra CS (8086-class) or Vectra ES/12 (80286-class at 12 MHz) PC, an HP BASIC Language Processor, HP BASIC 5.0 in read-only memory (ROM) and PC-DOS. These new systems are designed for engineers and scientists who want the flexibility and power of HP's instrumentation BASIC and an IBM PC compatible personal computer ... all in one package.

**Features**

With its dual-processor design and built-in HP-IB (IEEE-488) interface, the HP PC-305 and PC-308 instrument controllers allow you to move data collected via HP BASIC into popular PC-DOS software applications—such as 1-2-3® from Lotus® Development Corp.—for statistical or graphical analysis.

All five controller configurations include a single 3.5-inch 1.44 Mbyte flexible disc drive and have the ability to run HP BASIC 5.0 and Vectra DOS 3.2 software applications. The enhanced HP Language Processor Emulator (Viper 1.5) is bundled with the five controllers. An installation disc that allows you to bypass Vectra DOS 3.2 and automatically load HP BASIC 5.0 is also included.

The entry level HP PC-305M instrument controller is based on the new HP Vectra CS (8086 compatible) PC. The HP 305M includes a single 1.44 Mbyte 3.5-inch flexible disc drive, HP Language Processor Board (MC68000, HP-IB (IEEE-488) interface, 512 Kbyte RAM expandable to 4 Mbyte RAM), serial/parallel interface, HP BASIC 5.0 in ROM, and a Multimode video adapter with monochrome display. The HP model PC-305ML adds a 20 Mbyte hard disc drive. The third model, HP PC-305CL, includes a 20 Mbyte hard disc and an enhanced color-graphics (EGA) display.

The HP PC-308ML and PC-308CL controllers are higher-performance models based on the HP Vectra ES/12 (12 MHz 80286) PC. They include the same options as the HP PC-305ML and CL controllers described above.

Both the PC-305 and new PC-308 controllers can also optionally run HP Workstation Pascal 3.2. The software only option uses the same HP Language Processor Board as HP BASIC 5.0.

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**Ordering  
Information:**

82316A PC-305M Controller (Mono/Floppy Sys)  
82317A PC-305ML Controller (Mono/HD Sys)  
82318A PC-305CL Controller (Color/HD Sys)  
82314B PC-308ML Controller (Mono/HD Sys)  
82315B PC-308CL Controller (Color/HD Sys)  
82311B HP Pascal 3.2 Software Only—Option

To order contact your dealer or HP sales  
representative.

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	HP's new PaintJet printer combines the advantages of a printer and plotter into one machine, allowing you to produce colorful overhead transparencies, detailed engineering drawings, and near-letter-quality text quickly and easily. You can get the supplies you need for this new printer from HP.
<b>Desktop Stand</b>	For example, HP offers a streamlined, acrylic desktop stand designed expressly for HP's new printers and plotters. This stand increases work surface space while providing handy paper storage. What's more, it controls paper flow by routing cables out of the paper flow and enhancing the flow of fanfold paper over its edge. The stand also accommodates our HP QuietJet printer paper catcher. This paper catcher attaches easily to the back of the stand to automatically fold output into neat stacks, with a connecting chain enabling it to hang at a 30-degree angle or lie flat on a desk.
<b>Printer Dust Cover</b>	Our HP PaintJet printer dust cover protects your equipment from dirt, dust, and spills. Tailored to fit the exact dimensions of the HP PaintJet printer, it's constructed of durable, 100-percent cotton fabric that's water-repellent, yet light enough to discourage moisture from becoming trapped inside. Even when folded or rolled for storage, it resists wrinkles.
<b>Cartridges</b>	We offer black and color print cartridges you can use together to produce an array of 330 shades of color. The color cartridge contains yellow, magenta, and cyan ink. They're long lasting, disposable, and designed for easy maintenance.
<b>Paper</b>	Our HP PaintJet printer paper was designed to intensify ink colors and help them dry instantly. Because its surface is virtually dust free, there's no floating paper dust to clog print cartridges and cause printing problems.
<b>Slides</b>	HP PaintJet printer transparency film is also specially designed—it's coated to enhance controlled dot spread.  Slides can be used after only five minutes, but when left to "ripen" for one or two hours, colors intensify. Plastic sleeves are provided to protect images from fingertips and control color development.

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**To Order**

These products are available from your dealer or HP. HPDIRECT phone numbers are given in the column "How to Order" in the green pages of this issue.

<b>HP Product Number</b>	<b>Description</b>
92269A	Desktop printer/plotter stand
92261G	HP QuietJet printer wire paper catcher
92250Z	HP PaintJet printer dust cover
51606A	HP PaintJet printer black print cartridge
51606C	HP PaintJet printer color print cartridge
51630P	Z-fold HP PaintJet printer paper, 8.5 x 11 in. (216 x 279 mm) finished size. 250 sheets per pack.
51630Y	Cut-sheet HP PaintJet printer paper, 8.5 in. x 11 in. (216 x 279 mm) finished size. 250 sheets per pack.
51630Q	HP PaintJet printer transparency film, 8.5 x 11 in. (216 x 279 mm) finished size. 50-sheet box includes 50 plastic sleeves. Required film for HP PaintJet printer.



**Encyclopedia**





## Welcome to the Encyclopedia

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Welcome to the "Encyclopedia" section of the *HP PC Communicator*—bringing together all the news you need on each of the software packages and systems that you use.

Coupled with the manuals, your *HP PC Communicator* back issues and subscription provide everything you need to make the best use of your personal computer.

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### What's in the Encyclopedia?

- The HP PC Bugline—the information about HP PC questions, problems, and solutions too late to classify.
- The Encyclopedia Index—an index of Encyclopedia articles for all issues, listed by system.

Encyclopedia articles containing:

- Product Description—a one- or two-sentence explanation of what the product does.
- Encyclopedia Articles—a reference to any other Encyclopedia articles in previous *HP PC Communicator* issues covering this product.
- Most Frequent Questions—with answers, based on the experience of HP's Response Centers around the world.
- Software Problem Reports—a list of the major problems which have been reported.
- Manual Corrections or Updates—a list of corrections to the manuals for the product.
- Data Files—a description of the files used by the product, to aid in data transfer.
- Integration Features—a summary of any features built into the product to facilitate data transfer to other products.
- Data Transfer Procedures—specific techniques which have been discovered for data transfer to specific products.

The Encyclopedia entries are arranged so that you can remove them for insertion in your manuals or a separate binder.

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### Which Products are Covered?

The Encyclopedia Table of Contents, given at the front of the section, is updated in every *HP PC Communicator* . . . directing you to the issues containing the latest articles for each product.

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TDP .....	Issue 18, Issue 13
Word .....	Issue 18



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	<p>This article describes how to save files from HP Word/PC for placement in PageMaker.</p> <p>Because HPWord/PC can convert a file to ASCII text, you can convert your HPWord/PC text files into ASCII files to place in PageMaker.</p> <p>To convert a file, you can perform the "Keep to ASCII" conversion from within HPWord/PC or you can use the HPWord/PC utility WORDUTIL.</p> <p>From within HPWord/PC, enter the document name in the Task Selection (main) menu; then go to the Convert Menu (press "Other Keys," then press "Convert File.") Enter the name you want for the converted file, giving it a .TXT extension and an appropriate subdirectory name, and press "Keep To ASCII."</p> <p>The conversion process enters a fixed end-of-line character at the end of each line in a paragraph. Delete these characters after you place the file in PageMaker.</p>
<b>User and System Variables</b>	<p>Since they are determined at print time, user and system variables in an HPWord/PC file are not substituted when you convert the file to ASCII text.</p>
<b>Headers and Footers</b>	<p>PageMaker ignores HPWord/PC headers and footers. Fixed position and note paragraphs transfer to PageMaker as normal text.</p>
<b>Extended Characters</b>	<p>If your HPWord/PC document contains any extended characters, use the ASCII command in WORDUTIL to check that HPWord/PC is configured for the PC8 character set.</p> <p>PC8 is the default character set used by HPWord/PC on the HP Vectra PC for external files.</p>
<b>Tabs, Indents and Alignment</b>	<p>Tabs and indents are transferred into PageMaker as the appropriate number of spaces. Use PageMaker to recreate tabs and to specify the left and right margins for your text. (PageMaker ignores left margins set in HPWord/PC.)</p> <p>PageMaker also ignores any page breaks and line centering you specify in HPWord/PC.</p>



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**Fonts, Style,  
and Size**

Bold, italic, underline, double underline, superscript, and subscript formatting in HPWord/PC do not transfer to PageMaker. The text will appear in the current PageMaker font, regardless of the HPWord/PC document pitch setting.

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**Graphics  
Integration**

To enhance your publication with Gallery pictures, use PageMaker to place the Gallery-created TIFF image files into your publication. Note that pictures merged into your HPWord/PC document with the Figure Space function will transfer into a PageMaker publication as an appropriate-sized gap.

In other words, HPWord/PC's graphics-integration features are not relevant to the use of HPWord/PC and Gallery with PageMaker—PageMaker provides a more powerful text- and graphics-integration capability, but requires you to place text and graphics files separately.

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This article describes how to save files from HP Graphics Gallery for placement in PageMaker.

Charts and pictures from HP Graphics Gallery can be included in PageMaker publications if you output them as TIFF (tag image file format) files.

Before you create a TIFF file, be sure that you have installed the Graphics Gallery Update Kit (HP 68352-65022), or verify that you have Gallery 2.0 (which is version B.03.00 or newer)—both of these provide the TIFF output capability.

You draw your Gallery graphics to a TIFF file the same way you draw to a printer:

1. Create a Drawing Gallery picture or Charting Gallery chart. Then save it as usual for future use.
2. Go to the Gallery Device Control screen, then scroll through the choices for the Device/Port field until TIFF is displayed.

The field name changes to "File Type," and the rest of the fields on the screen change as well.

3. Enter the desired file name (with an appropriate subdirectory name), height, width, units, picture scaling, and resolution on the Device Control screen. Use "best fit" for the picture scaling, and always specify the exact size and resolution you will be using in PageMaker.
4. Press "Draw to TIFF" to draw the graphics to the TIFF file. Gallery automatically appends the .TIF extension to the file name.

To place the Gallery graphics into PageMaker, use the "Place" command from PageMaker's File menu. In the dialog box, select the name of the TIFF file you created in Graphics Gallery. If you type the file name, be sure to include the .TIF file extension. The size and resolution of the graphics will be those specified on the Device Control screen in Graphics Gallery.

If you want to resize the graphics, return to Gallery and change the height and width for the TIFF file. Rescaling raster images within PageMaker may cause jagged lines, uneven patterns, and illegible text.





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	<p>This article describes how to save files from HP AdvanceWrite for placement in PageMaker.</p> <p>Since PageMaker supports DCA-format files, you can place your HP AdvanceWrite text file directly in PageMaker.</p> <p>Convert your AdvanceWrite document to DCA-revisable form, using the "Filing Translate" function within AdvanceWrite. Use the .DCA file extension (with an appropriate subdirectory name) when naming your destination file, so that PageMaker can immediately recognize and process the file type.</p>
<b>Indents and Alignment</b>	<p>Adjustments to the left and right margins carry over when you place the file in PageMaker. However, PageMaker ignores paragraph indents. Justification carries over to PageMaker, but centered text does not.</p>
<b>Tabs</b>	<p>Text tabs and numeric tabs carry over to PageMaker; indent tabs do not.</p>
<b>Extended Characters</b>	<p>Some extended characters in AdvanceWrite are converted to different characters in passing through the DCA format to PageMaker. You can correct them in PageMaker.</p>
<b>Required Spaces</b>	<p>Any AdvanceWrite required spaces are converted to "~" characters in PageMaker. Convert them to spaces after placing the file in PageMaker.</p>
<b>Style, Size, and Leading</b>	<p>Underlining in AdvanceWrite carries over to PageMaker. Bold text in the AdvanceWrite document appears as bold overstruck in PageMaker. To remove the overstrikes, select the overstruck text and uncheck "Strikethru" on the Type Menu in PageMaker.</p> <p>Pitch change marks in AdvanceWrite carry over to PageMaker as changes in point size. Point size = 120/pitch.</p> <p>Wheel/font change marks in AdvanceWrite are ignored by PageMaker.</p> <p>Changes to line spacing in AdvanceWrite carry over to PageMaker as changes in leading (leading = 72/lines per inch).</p>

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**Current  
Information**

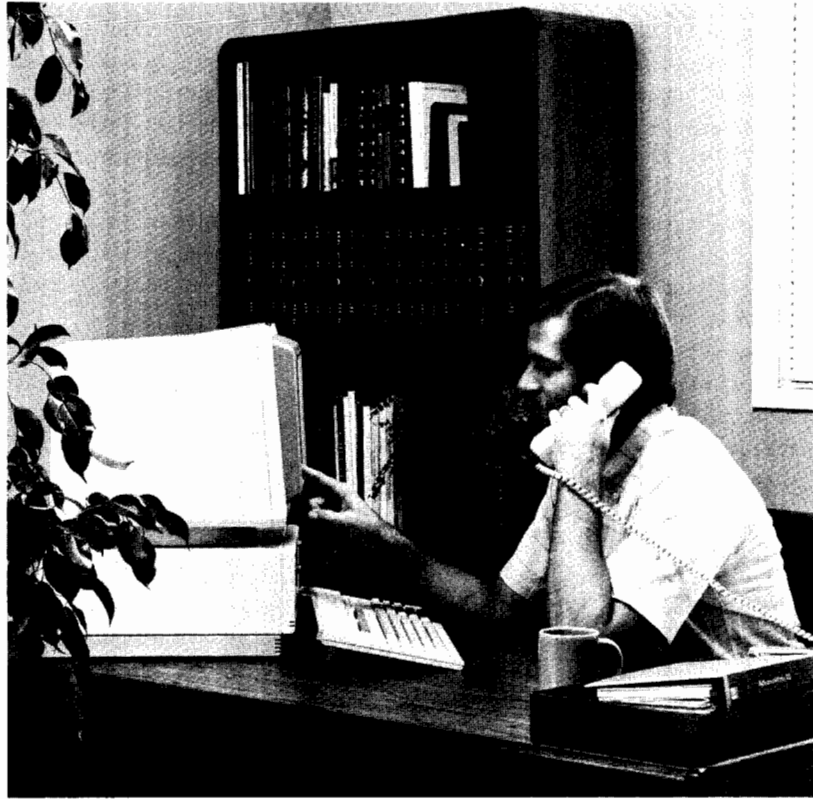




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The level of capability provided by advanced personal computer software—together with the rapid evolution of this field—means that you may sometimes have questions that are not answered in the product manuals. Depending on where you purchased the specific software or hardware product, the best source of assistance for that product may be your own organization, your dealer or value-added reseller, an independent vendor, or Hewlett-Packard.

This section is designed to guide you through the process of obtaining the most rapid resolution of any question that you have. It is organized in a series of steps:

Step 1: Is the answer in the *HP PC Communicator*?

Step 2: Is the answer available through CompuServe?

Step 3: Is support provided from within your own organization?

Step 4: Was this product purchased from a dealer or value-added reseller?

Step 5: Was this product provided by an independent vendor?

Step 6: Telephone assistance from Hewlett-Packard

Step 7: Training or consulting

By following these steps, you can rapidly and inexpensively get the answer you need.

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**Step 1: Is the answer in the *HP PC Communicator*?**

The *HP PC Communicator* is the heart of our support program. This magazine brings you applications information, operational tips, programming techniques, information on software updates, manual corrections, and data on known software problems and their solutions.

The Encyclopedia section provides detailed, easily-accessed information on each major hardware and software product. Many of these sections are written by people from our HP HelpLine Response Centers, reflecting the most common questions and problems.

Refer to the article "Ordering *HP PC Communicator* Subscriptions" in the Current Information section of this issue for ordering details.

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**Step 2: Is the answer available through CompuServe?**

HP maintains a database on the CompuServe™ on-line information service called HP OnLine—it contains product news, answers to frequently-asked questions, and other information. HP also facilitates user interaction by hosting an open forum where users may post messages for general user response. Periodically, HP may respond to selected user questions.

To gain access to HP OnLine, you must have an account with CompuServe (you are billed for CompuServe connect time and network services) and you must have a 300- or 1200-baud modem.

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**Step 3: Is support provided from within your own organization?**

If you work in an organization which has several HP personal computers, there is often one person who coordinates the purchase, set-up, and training for your company or institution. In a large organization, this function is often provided by the central MIS, office-automation, or data-processing department. (For example, each Hewlett-Packard division or office has an Office Automation Coordinator, usually part of the information systems department, who provides personal computer training and assistance.)

Your internal support personnel have full knowledge of your organization's overall system: your internally developed programs, your particular operating and networking procedures . . . and your specific hardware and software configuration. Your experts, in turn, have access to special resources within Hewlett-Packard. HP support services, such as training courses, are purchased to supplement your internal capabilities.

With centralized support within your organization, your support is localized and customized to your particular needs.

If you do not have an internal support capability, support for a product generally comes from the organization that sold you the product—the dealer, value-added reseller, or Hewlett-Packard.

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**Step 4: Was this product purchased from a dealer or Value-Added Reseller?**

If this product was purchased from a dealer or Value-Added Reseller (VAR), they have worked with you to define your application and configure your system—perhaps selecting software or hardware not supplied or supported by Hewlett-Packard. Here, your dealer or VAR is the best source of assistance—knowing you, your needs, and your configuration well.

Authorized dealers and VARs are backed up by special support resources within HP... and, of course, the full range of Hewlett-Packard software and hardware support services may be purchased as a supplement to those provided by your dealer or VAR.

By buying your hardware, software, accessories, and supplies from an Authorized Hewlett-Packard Dealer or VAR who provides full support, you build up a continuing relationship—providing a local, personal, and uniquely-responsive support program customized for your business.

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**Step 5: Was this product provided by an independent vendor?**

Many products which run on HP personal computers are developed and marketed by independent organizations—referred to in the personal computer industry as “Independent Software Vendors” (ISVs) or “Independent Hardware Vendors” (IHVs).

Hewlett-Packard publishes catalogs and directories listing certain classes of software and hardware products that ISVs and IHVs have tested for operation on our systems. We refer to these as “verified” or “listed” products. Because of the specialized knowledge required, your support for one of these products comes either directly from the original developer or through the dealer or value-added reseller from whom you purchased it.

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**Step 6: Telephone assistance from Hewlett-Packard**

Telephone assistance is available from the worldwide network of Hewlett-Packard Response Centers for most products distributed by HP. (For certain specialized non-HP-developed products which are distributed by HP under our product number, we have made arrangements for support to come directly from the original developer. This is indicated in the product data sheet and the documentation supplied with the product.)

For telephone assistance outside the U.S. and Canada, call your HP Sales and Service Office and ask for the Personal Computer Response Center.

In the U.S. and Canada, the telephone assistance program is called HP HelpLine.

Here is how the U.S./Canada HP HelpLine program works:

- The toll-free HP HelpLine number is:

1-800/858-8867

HP HelpLine is open Monday through Friday from 7 A.M. to 9 P.M. Eastern Standard Time (to 6 P.M. Pacific Standard Time).

- Calls to the HP HelpLine are paid for by one of three means:

-By quoting a unique "certificate number" from a Call Certificate. Certificate packs are ordered by mail or telephone from HP's Direct Marketing Division.

-By providing a VISA, MasterCard, or American Express charge authorization.

-By identifying yourself as the Authorized Caller under a specific annual Software Support Agreement.

- When you call, a coordinator arranges for the appropriate HP support representative to return your initial call within two hours. Using a full set of software and documentation— together with computer knowledge, problem-solving skills, and access to further assistance via HP's worldwide telecommunications network—the support representative works with you to answer your question.
- HelpLine support does not extend to program development, program coding, isolation of coding errors, and implementation assistance. These areas are most economically resolved through on-site consulting and training, as described in Step 7, below.
- A call-incident is defined as a discussion of moderate duration focusing on one specific topic to resolve an inquiry or problem. A call-incident includes the time on the telephone discussing the question, time to research the solution, plus any additional call-backs required to clarify the question.
- The actual charge for a call-incident is not initiated until the call is closed. There is no charge if the call is the result of a specific documentation defect or software design problem ... or if an answer cannot be found.

[Of course, this is only a summary of the new Personal Computer Assistance program. For details, please call the National Response Center at (800) 858-8867.]

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**Step 7: Training or consulting**

Perhaps your need for support is most efficiently and economically met by training or consulting:

- Classroom training is available to supplement the documentation that accompanies your product. Courses can help first-time computer users rapidly build confidence and gain new skills away from the distractions of the day-to-day job. As HP training courses are developed, they are listed in the *HP PC Communicator*.

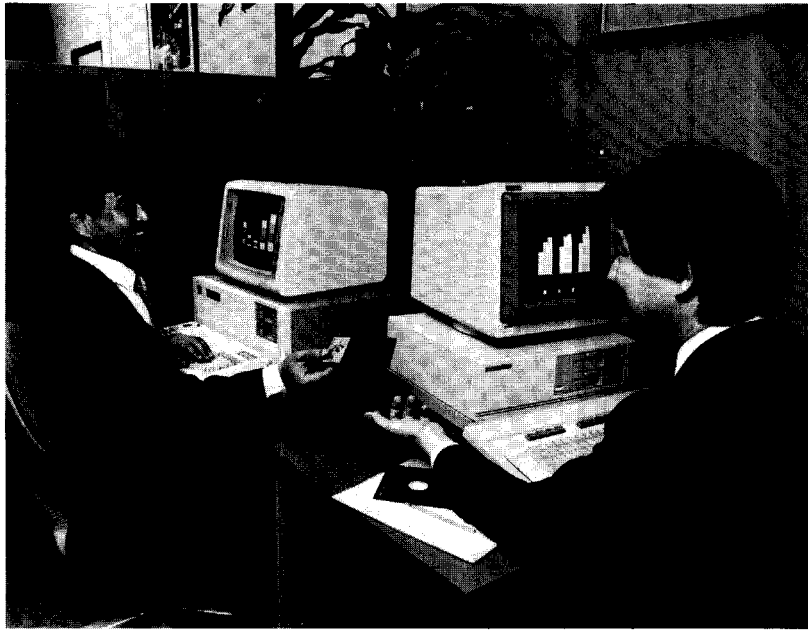
These courses can be taught at your facility using your own systems. Also, training to suit your specific needs can be designed and given through HP's computer consulting service.

Many dealers and value-added resellers teach similar courses or can arrange for Hewlett-Packard to teach a course in your area. To discuss training, call your local dealer, VAR, or HP office.

- Consulting service, available from Hewlett-Packard by the hour or by the day, provides personalized assistance in system operation, recommendations for improved performance, or suggestions on application design. Your dealer or value-added reseller may also have consulting services available. To discuss consulting, call your dealer or HP office.







**Get in Touch**



To get in touch with Vectra PC, Touchscreen/150, HP 12x, and Portable owners in your area—and worldwide—join Interex, the International Association of Hewlett-Packard Computer Users. Interex is an independent group of HP computer users, with chapters and regional groups in 40 countries. If you join Interex, you will receive, at no cost, an assortment of *HP PC Communicator* back issues which pertain to your computer model. (There is a limited supply for some computer models.)

**Start a Local Chapter**

Local Interex Personal Computer chapters are now forming. For details on joining or starting a group in your area, contact Interex headquarters and ask for the pamphlet "Starting a Regional User Group."

**Member Services**

**Standard Users Support Service** includes a subscription to *INTERACT* Magazine, a subscription to the *Interrupt* newsletter, and an annual diskette from the Interex Contributed Software Library.

**Standard Users Support Service:**

- North America . . . . . \$70
- Outside North America . . . . . \$95

**How to Join**

To join, fill out the form on the next page.

For more information, contact:

Interex Member Services Department  
680 Almanor Ave.  
Sunnyvale, CA 94086  
U.S.A.  
Telephone 408/738-4848  
Telex #4971527





Computer:             The Portable (HP 110)             HP 120 or HP 125  
                          Portable Plus                             Vectra PC  
                          HP Touchscreen/150

Disc Format:  3½" single-sided    3½" double-sided    5¼"  
Please send my free *Communicator* back issues

Are you currently receiving Interex services for HP 9000, HP 1000, or  
HP 3000 computers?

No     Yes: ID # \_\_\_\_\_

Please send more information about Interex's other activities:

\_\_\_\_ HP 1000    \_\_\_\_ HP 3000    \_\_\_\_ HP 9000

I understand that payment will not be refunded after the contributed  
software library disc has been sent from Interex.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Send this page with your full payment to:**

Interex  
Bank File #61054  
P.O. Box 60000  
San Francisco, CA 94160  
U.S.A.

The HP Vectra Personal Computers are a family of high-performance PCs designed to provide hardware and software compatibility with industry standards. Members of the Vectra PC family include:

**The Vectra CS PC:** a 7.16 MHz 8086-compatible, is the entry-level member of the Vectra PC family that delivers exceptional value for basic office computing needs.

**The Vectra ES PC:** an 8 MHz Intel 80286 IBM PC/AT compatible that offers mainstream business users growth to the next generation operating systems (OS/2) at an economical price.

**The Vectra ES/12 PC:** based on the 12 MHz Intel 80286 processor, this system provides superior performance and IBM PC/AT compatibility for the demanding business user.

**The Vectra RS/16 PC:** combines the powerful performance of a 16 MHz Intel 80386 microprocessor with the flexibility of a floor-mount package.

**The Vectra RS/20 PC:** provides premium performance and expandability to meet the needs of the most demanding PC user with a 20 MHz Intel 80386 microprocessor in a floor mount design.

HP's Vectra PCs can also be purchased as a complete system in two popular configurations: the HP Vectra Publisher PCs for desktop-publishing applications and the HP StarLAN PCs which provide all the elements needed to link to a StarLAN network as a workstation or a server. Both preassembled systems offer ordering and assembly ease.

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**The HP Vectra  
Publisher PC**

Three configurations of the Vectra Publisher are available. Order the product number D1200A and three "Must Order" options to select a complete Vectra Publisher workstation based on either the Vectra ES PC or the Vectra ES/12.

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**Vectra Publisher PC D1200A**

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**Option 011: Vectra Publisher ES Model 21**

Includes 8 MHz 80286 processor, 640KB RAM, 1.2 Mbyte flexible disc drive, a 20 Mbyte internal hard disc, and a Multimode Video Adapter.

**Option 051: 12-inch Monochrome Monitor**

**Option ABA:** U.S. personality pack includes HP Vectra DOS 3.2, PC Kit with terminal emulation software, Enhanced Vectra PC Keyboard, MS Windows for the Vectra PC, Aldus PageMaker software, HP Mouse and customized user documentation.\*

**Option 017: Vectra Publisher ES/12 Model 22**

Includes 12 MHz 80286 processor, 640KB Ram, 1.2 Mbyte flexible disc drive, a 20 Mbyte internal hard disc and an Enhanced Graphics Video Adapter.

**Option 052: 13-inch EGA Video Display**

**Option ABA:** U.S. Vectra Publisher PC Personality Pack

**Option 014: Vectra Publisher ES/12 Model 42**

Includes 12 MHz 80286 processor, 640KB Ram, 1.2 Mbyte flexible disc drive, a 40 Mbyte internal hard disc and an Enhanced Graphics Video Adapter.

**Option 052: 13-inch EGA Video Display**

**Option ABA:** U.S. Vectra Publisher PC Personality Pack

\*International language versions are available. See your dealer or HP sales representative for more information.

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**The HP Vectra  
StarLAN PC**

There are four HP Vectra StarLAN PC configurations available depending upon your system price/performance and video requirements. Order the product number D120XA and three "Must Order" options to select a complete Vectra StarLAN PC solution based on either the Vectra ES PC or the Vectra ES/12 PC.

### **Vectra CS StarLAN PC Product Number D1201A**

**Option 001: Vectra CS StarLAN PC—  
Monochrome**

Includes the Vectra CS SPU with 640KB RAM, 360 Kbyte flexible disc drive, a 20 Mbyte internal hard disc, HP StarLAN Interface and a Multimode Video Adapter.

**Option 051: 12-inch Multimode Monitor**

**Option ABA:** U.S. personality pack includes HP Vectra DOS 3.2, PC Kit with Terminal Emulation Program, Enhanced Vectra PC Keyboard, HP StarLAN user software and customized user documentation.

**Option 002: Vectra CS StarLAN PC—EGA**

Includes the Vectra CS SPU with 640KB RAM, 360 Kbyte flexible disc drive, a 20 Mbyte internal hard disc, HP StarLAN Interface, an Enhanced Graphics Video Adapter.

**Option 052: 13-inch EGA Video Display**

**Option ABA:** U.S. Vectra StarLAN PC Personality Pack

### **Vectra ES/12 StarLAN PC Product Number D1202A**

**Option 015: Vectra ES/12 StarLAN PC—  
Monochrome**

Includes the Vectra ES/12 SPU with 12 MHz 80286 processor, 640KB Ram, 1.2 Mbyte flexible disc drive, a 20 Mbyte internal hard disc, HP StarLAN Interface and a Multimode Video Adapter.

**Option 051: 12-inch Multimode Monitor**

**Option ABA:** U.S. Vectra StarLAN PC Personality Pack

**Option 016: Vectra ES/12 StarLAN PC—EGA**

Includes the Vectra ES/12 SPU with 12 MHz 80286 processor, 640KB Ram, 1.2 Mbyte flexible disc drive, a 20 Mbyte internal hard disc, HP StarLAN Interface and an Enhanced Graphics Video Adapter.

**Option 052: 13-inch EGA Video Display**

**Option ABA:** U.S. Vectra StarLAN PC Personality Pack



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**The Vectra CS PC**

The Vectra CS may be purchased in a variety of configurations for flexibility in assembling specific systems.

Each of the following models includes a 7.16 MHz processor, compatible with the Intel 8086, 640 Kbytes RAM, both a serial and parallel I/O interface, the HP Terminal Program, HP Vectra Disc Cache Program, the Enhanced Vectra PC keyboard, user documentation, and video adapter cards and disc storage as indicated.

**D1110A Vectra CS Model 10\***

Includes one 5.25-inch 360 Kbyte flexible disc drive.

**D1111A Vectra CS Model 11\***

Includes two 5.25-inch 360 Kbyte flexible disc drive and Multimode Video Adapter (monochrome).

**D1112A Vectra CS Model 12\***

Includes two 5.25-inch 360 Kbyte flexible disc drive and Enhanced Graphics Video Adapter (color).

**D1120A Vectra CS Model 20\***

Includes one 5.25-inch 360 Kbyte flexible disc drive and a 20 Mbyte hard disc.

**D1121A Vectra CS Model 21\***

Includes one 5.25-inch 360 Kbyte flexible disc drive, a 20 Mbyte hard disc and Multimode Video Adapter.

**D1122A Vectra CS Model 22\***

Includes one 5.25-inch 360 Kbyte flexible disc drive, a 20 Mbyte hard disc and Enhanced Graphics Video Adapter.

\*Must Order Language Option. Option ABA is U.S. English. International language versions are available. See your dealer or HP sales representative for more information.

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**The Vectra ES PC**

The Vectra ES may be purchased in a variety of configurations for flexibility in assembling specific systems.

Each of the following models includes an 8 MHz Intel 80286 processor, 640 Kbytes RAM, a flexible and hard disc controller, both a serial and parallel I/O interface, an HP-HIL port, the HP Terminal Program, HP Vectra Disc Cache Program, the Enhanced Vectra PC keyboard, user documentation, and video adapter cards and disc storage as indicated.

**D1210A Vectra ES Model 10\***

Includes one 5.25-inch 1.2 Mbyte flexible disc drive.

**D1220A Vectra ES Model 20\***

Includes one 5.25-inch 360 Kbyte flexible disc drive and a 20 Mbyte hard disc.

**D1221A Vectra ES Model 21\***

Includes one 5.25-inch 360 Kbyte flexible disc drive, a 20 Mbyte hard disc and Multimode Video Adapter.

**D1222A Vectra ES Model 22\***

Includes one 5.25-inch 360 Kbyte flexible disc drive, a 20 Mbyte hard disc and Enhanced Graphics Video Adapter.

\*Must Order Language Option. Option ABA is U.S. English. International language versions are available. See your dealer or HP sales representative for more information.

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**The Vectra ES/12 PC**

The Vectra ES/12 may be purchased in a variety of configurations for flexibility in assembling specific systems.

Each of the following models includes a 12 MHz Intel 80286 processor, 640 Kbytes RAM, a flexible and hard disc controller, both a serial and parallel I/O interface, an HP-HIL port, the HP Terminal Program, HP Vectra Disc Cache Program, the Enhanced Vectra PC keyboard, user documentation, and video adapter cards and disc storage as indicated.

**D1310A Vectra ES/12 Model 10\***

Includes one 5.25-inch 1.2 Mbyte flexible disc drive.

**D1320A Vectra ES/12 Model 20\***

Includes one 5.25-inch 360 Kbyte flexible disc drive and a 20 Mbyte hard disc.

**D1321A Vectra ES/12 Model 21\***

Includes one 5.25-inch 360 Kbyte flexible disc drive, a 20 Mbyte hard disc and Multimode Video Adapter.

**D1322A Vectra ES/12 Model 22\***

Includes one 5.25-inch 360 Kbyte flexible disc drive, a 20 Mbyte hard disc and Enhanced Graphics Video Adapter.

**D1340A Vectra ES/12 Model 40\***

Includes one 5.25-inch 360 Kbyte flexible disc drive and a 40 Mbyte hard disc.

**D1341A Vectra ES/12 Model 41\***

Includes one 5.25-inch 360 Kbyte flexible disc drive, a 40 Mbyte hard disc and Multimode Video Adapter.

**D1342A Vectra ES/12 Model 42\***

Includes one 5.25-inch 360 Kbyte flexible disc drive, a 40 Mbyte hard disc and Enhanced Graphics Video Adapter.

\*Must Order Language Option. Option ABA is U.S. English. International language versions are available. See your dealer or HP sales representative for more information.

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**The Vectra RS/16 and RS/20 PCs**

The Vectra RS PCs may be purchased in a variety of configurations for flexibility in assembling specific systems.

The RS/16 and RS/20 models include a 16 MHz and 20 MHz microprocessor respectively. In addition both offer a flexible and hard disc controller, a serial and parallel I/O interface, an HP-HIL port, the HP Terminal Program, the HP Vectra Disc Cache program, the Enhanced Vectra PC keyboard, system documentation and RAM and disc storage as indicated.

**D1500A Vectra RS/16 Model 40\***

Includes 1 Mbyte of system memory, one 5.25" 1.2 Mbyte flexible disc drive and a 40 Mbyte ST-506 hard disc.

**D1600A Vectra RS/20 Model 40\***

Includes 1 Mbyte of system memory, one 5.25" 1.2 Mbyte flexible disc drive and a 40 Mbyte ST-506 hard disc.

**D1602A Vectra RS/20 Model 100\***

Includes 2 Mbyte of system memory, one 5.25" 1.2 Mbyte flexible disc drive and a 103 Mbyte ESDI hard disc.

**D1603A Vectra RS/20 Model 150\***

Includes 2 Mbyte of system memory, one 5.25" 1.2 Mbyte flexible disc drive and a 155 Mbyte ESDI hard disc.

**D1604A Vectra RS/20 Model 300\***

Includes 2 Mbyte of system memory, one 5.25" 1.2 Mbyte flexible disc drive and a 310 Mbyte ESDI hard disc.

**\*Must Order Language Option.** Option ABA is U.S. English. International language versions are available. See your HP dealer or sales representative for more information.





To determine which U.S. products are recommended for use with localized computers, check with your dealer or HP sales office.

A worldwide corporate site licensing program offering customers up to 75 percent savings is now available for large quantity purchases of specified software. Below, these products are marked with a "+" sign. Contact your HP sales office for specifics.

<b>Name</b>	<b>HP Product Number</b>	<b>Version</b>	<b>Special Requirements</b>
<b>COMMUNICATIONS:</b>			
AdvanceLink*†	45431A	A.04.04	
AdvanceMail†	27534A	A.01.00	Requires HP DeskManager B.00.00 or later on the HP 3000
HPMessage†	36568A		Requires HP Desk Manager A.03.01 on the HP 3000
IBM 3278 Term. Emul. Acces.*	45641B		
HPThinLAN Server Kit	50907A		Dedicated network server, 512K memory required
HP ThinLAN User Link Kit	50908A		512K memory required
HP ThinLAN Server Software for HP Touchscreen PCs	50913A		Software, 512K memory required
HP ThinLAN User Software for HP Touchscreen PCs	50914A		Software, 512K memory required
HP ThinLAN Configuration and Diagnostics Software and License for PCs	50909A		
HP OfficeShare Network Server Software Upgrade to HP ThinLAN Server Software for HP Touchscreen PCs	50915A		Includes HP ThinLAN Server and PC Config and Diagnostics Software and License for PCs; must return OfficeShare master discs

\*Uses HP Touch

†Corporate Site Licensing also available

Name	HP Product Number	Version	Special Requirements
<b>ENVIRONMENT MANAGER:</b>			
Microsoft Windows	45875A		DOS 3.2, 384K memory (512K is recommended), dual flexible disc system (one 710K byte disk is needed) or single flexible disc (260K or 710K) with hard disc
<b>DATA BASE MANAGEMENT:</b>			
Executive Card Manager**†	45421A	A.02.02	
ECM: Templates*	45441D	A.01.02	
R:Base 5000	45563A	1.01	512K
<b>GRAPHICS:</b>			
Charting Gallery†	45513A	B.03.00	
Drawing Gallery†	45411A	B.03.00	384K, Mouse req'd.
HPDraw Figures Portfolio	45571A	A.01.00	
Office Activities Portfolio	45568A	A.01.00	
Business Mgmt. Portfolio	45570A	A.02.00	
Chemical/PetroChemical Portfolio	45569A	A.01.00	
The Graphics Gallery Collection**†	45437A		384K
HP Graphics Curator/3000 (36926R gives you "right to copy")	36926A or 36926R		For use with HP 3000. Curator RTU 36926A S/3X #310 S/5X #320 S/7X #330 Curator RTC 36926R S/3X #310 S/5X #320 S/7X #330
<b>INTEGRATED SOLUTIONS:</b>			
ExecuDesk—U.S.*	45444A	A.03.00	
Symphony from Lotus*	45498A	1.1	384K

\*Uses HP Touch

†Corporate Site Licensing also available

Name	HP Product Number	Version	Special Requirements
<b>PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS:</b>			
BASIC by Microsoft	45445D		
BASIC by Programmer's Library	45310A		
COBOL by Microsoft	45448A		
Compiled BASIC by Microsoft	45446D		
Cross Reference Utility	92248BA		
Forms Master*	45443A		
FORTRAN by Microsoft	45449D		
GW-BASIC by Microsoft*	45450D		
ICON Design System*	45311A		
Lattice C Compiler	45452D		
Pascal by Microsoft	45447D		
Programmer's Tools	45435A		
<b>SPREADSHEETS:</b>			
Lotus 1-2-3*	45566A	2.01	384K
<b>UTILITIES:</b>			
HP PLCPak	33406A		
<b>WORD PROCESSING:</b>			
HPWORD/150 U.S. English**†	27505A	A.00.00	512K
Executive MemoMaker**†	45418A	C.02.00	
Microsoft WORD*	45474D	1.10	Now includes Microsoft Spell
MultiMate*	45424A	3.29	
WordStar Professional	45427D	3.34	384K + dual double sided disk drive

□

\*Uses HP Touch

†Corporate Site Licensing also available





**U.S. Vectra Family PC Software** Marilyn Ruel, Steve Martin,  
**Available from HP** Leslie Imai

To determine which U.S. products are recommended for use with localized computers, check with your dealer or HP office.

A worldwide corporate Site Licensing Program offering customers up to 75 percent savings is now available for large quantity purchases of specified software. Below these products are marked with a "†" sign. Contact your HP sales office for specifics.

\*NEW—Software available in 3½ inch media for the HP Vectra Computers and IBM and compatibles. Order Option 003. Software that is available on 3½ inch media is indicated with an "★".

Name	HP Product Number	Version	Special Requirements
COMMUNICATIONS:			
AdvanceLink†	★68333F	B.01.00	
HP IRMA	50920A		
IBM3278/79 Term Emul			
HPMessage†	36569E		Requires HPDesk Message A.03.01 on the HP 3000
Print Central/ Vectra†	36890F	A.02.01	Corresponding 3000 software required
AdvanceMail†	★27535F	B.00.00	Requires HPDesk Manager on the HP 3000
HP StarLAN Server Kit for HP Vectra PCs	50904F		Dedicated network server, 512K memory required
HP StarLAN User Link Kit for HP Vectra/ IBM PCs	50905F		512K memory required
HP ThinLAN Server Kit for HP Vectra PCs	50907F		Dedicated network server, 512K memory required
HP ThinLAN User Link Kit for HP Vectra/ IBM PCs	50908F		512K memory required

†Corporate Site Licensing also available



Name	HP Product Number	Version	Special Requirements
HP ThinLAN Server Software for HP Vectra PCs	50913F		Software, 512K memory required
HP ThinLAN User Software for HP Vectra/ IBM PCs	50914F		Software, 512K memory required
HP StarLAN Configuration and Diagnostics Software and License for PCs	50906A		
HP ThinLAN Configuration and Diagnostics Software and License for PCs	50909A		
HP OfficeShare Network Server Software Upgrade to HP ThinLAN Server Software of HP Vectra PC	50915F		Includes HP ThinLAN Server and PC Config and Diagnostics Software and License for PCs; must return OfficeShare master discs
HP OfficeShare Network User Software Upgrade to HP ThinLAN User Software for HP Vectra/ IBM PCs	50916F		Must return OfficeShare master discs
HP SERIAL Network User Link Software for HP Vectra/ IBM PCs	50910F		

Name	HP Product Number	Version	Special Requirements
<b>DESKTOP PUBLISHING:</b>			
iPrint	35188D		
Vectra PageMaker	45964A		MS Windows required
<b>ENVIRONMENT MANAGER:</b>			
Vectra MS Windows	45954A		
<b>DATA BASE MANAGEMENT:</b>			
Executive Card Manager (ECM)*†	*68331F	A.01.08	
ECM: Templates*	68335F	A.01.02	
R:Base 5000	68336F	1.01	512K memory required
R:Base System V	68328F	1.1	512K memory required
<b>GRAPHICS:</b>			
Drawing Gallery*†	68351F	B.03.00	384K memory and mouse required
Charting Gallery*†	68350F	B.03.00	
The Graphics Gallery Collection*†	*68352F	B.03.00	384K memory and mouse required
Office Activities Portfolio*	*68324F	A.01.00	
Business Mgmt. Portfolio*	*68326F	A.01.01	
Chemical/ PetroChemical Portfolio	*68325F	A.01.00	
HPDraw Figures Portfolio for Drawing Gallery	*68327F	A.01.00	
HP Graphics Curator/3000 (36926R gives you "right to copy")	36926A or 36926R		For use with HP 3000. Curator RTU 36926A S/3X #310 S/5X #320 S/7X #330 Curator RTC 36926R S/3X #310 S/5X #320 S/7X #330

\*Uses HP Touch

†Corporate Site Licensing also available

Name	HP Product Number	Version	Special Requirements
<b>INTEGRATED SOLUTIONS:</b>			
Lotus Symphony	68339F	1.2	384K memory required
<b>PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS:</b>			
Vectra GW BASIC Interpreter	45952A	3.11	
<b>SPREADSHEETS:</b>			
Lotus 1-2-3	★68340F	2.01	
<b>UTILITIES:</b>			
HP PLC PAK	33406B		
LaserControl 100***	35190J	Rev. 3	
Laserplotter	35188A		
<b>WORD PROCESSING:</b>			
AdvanceWrite Plus	★27546F	F.02.00	
Executive MemoMaker*†	★68330F	A.03.00	
<b>PRINTER UTILITIES:</b>			
iPrint	35188D		
Jetplotter	35190P		
<b>OFFICE SOFTWARE PACKS:</b>			
HP Vectra PC Office Professional Pack	68300F		
HP Vectra PC Office Assistant Pack	68301F		
HP Vectra PC Office Entry Pack	★68306F		

\*Uses HP Touch

\*\*\*Manufacturer Supported

†Corporate Site Licensing also available

**Localized HP 150/Touchscreen  
Software Available from HP**

Arlette Cox

Here is a summary of the software that has been localized for the HP 150/Touchscreen. To order contact your local dealer (for some products) or sales representative. Some products may not be available or may not be supported in all countries.

<b>Name</b>	<b>HP Product Number</b>	<b>Country</b>	<b>Revision</b>
AdvanceLink	45431AD	German	A.04.00
AdvanceMail/150	27534AD	German	A.01.02
AdvanceMail/150	27534AF	French	A.01.02
AdvanceMail/150	27534AX	Finnish	A.01.02
AdvanceMail/150	27534AY	Danish	A.01.02
AdvanceMail/150	27534AZ	Italian	A.01.02
AdvanceMail/150	27534AS	Swedish	A.01.02
Charting Gallery	45513AD	German	B.02.00
Charting Gallery	45513AF	French	B.02.00
Drawing Gallery	45411AD	German	A.02.01
Drawing Gallery	45411AF	French	A.02.01
Exec.Card Manager	45421AD	German	A.02.01
Exec.Card Manager	45421AZ	Italian	A.02.01
ExecuDesk	45444AE	Spanish	A.02.00
ExecuDesk	45444AF	French	A.02.00
ExecuDesk	45444AS	Swedish	A.02.00
ExecuDesk	45444AZ	Italian	A.02.00
ExecuDesk	45444AX	Finnish	A.02.00
Executive MemoMaker	45418AD	German	C.02.00
Executive MemoMaker	45418AF	French	C.02.00
Executive MemoMaker	45418AX	Finnish	C.02.00
Executive MemoMaker	45418AZ	Italian	C.02.00
Gallery Collection	45437AD	German	B.02.00
Gallery Collection	45437AF	French	B.02.00
Gallery Collection	45437AX	Finnish	B.02.00
Gallery Collection	45437AZ	Italian	B.02.00
Gallery Pic.Lib. VII	45433AF	French	A.01.00
HP Access	36898AD	German	A.01.01
HPTEL	45314A	Std. U.K./French	A.01.01
HP Word	27505AB	U.K.	A.02.00
MemoMaker	45420AV	Arabic	A.01.01
MemoMaker	45420AV #ZAG	Arabic/French	A.01.02





**Localized HP Vectra Software  
Available from HP**

Arlette Cox

Below is a list of the HP Vectra software that has been localized. To order contact your dealer (for some products) or sales representative. Not all products are available or are supported in all countries.

<b>Name</b>	<b>HP Product Number</b>	<b>Country</b>	<b>Revision</b>
AdvanceMail/Vectra	27535FD	German	A.01.02
AdvanceMail/Vectra	27535FF	France	A.01.02
AdvanceMail/Vectra	27535FS	Swedish	A.01.02
AdvanceMail/Vectra	27535FX	Finnish	A.01.02
AdvanceMail/Vectra	27535FY	Danish	A.01.02
AdvanceMail/Vectra	27535FZ	Italian	A.01.02
AdvanceWrite III	27508FD	German	F.01.02
AdvanceWrite III	27508FF	French	F.01.02
AdvanceWrite III	27508FE	Spanish	F.01.03
AdvanceWrite III	27508FH	Dutch	F.01.03
AdvanceWrite III	27508FN	Norwegian	F.01.03
AdvanceWrite III	27508FS	Swedish	F.01.03
AdvanceWrite III	27508FX	Finnish	F.01.03
AdvanceWrite III	27598FY	Danish	F.01.03
AdvanceWrite III	27508FZ	Italian	F.01.02
Charting Gallery	68350FD	German	A.01.00
Charting Gallery	68350FF	French	A.01.00
Drawing Gallery	68351FD	German	A.01.00
Drawing Gallery	68351FF	French	A.02.03
Executive CardManager	68331FZ	Italian	A.01.06
Executive CardManager	68331FD	German	A.01.06
Executive CardManager	68331FF	French	A.01.06
Executive CardManager	68331FE	Spanish	A.01.06
Executive CardManager	68331FH	Dutch	A.01.06
Executive CardManager	68331FN	Norwegian	A.01.06
Executive CardManager	68331FX	Finnish	A.01.08
Executive MemoMaker	68330FE	Spanish	A.02.03
Executive MemoMaker	68330FF	French	A.02.03
Executive MemoMaker	68330FH	Dutch	A.02.03
Executive MemoMaker	68330FS	Swedish	A.02.03
Executive MemoMaker	68330FX	Finnish	A.02.03
Executive MemoMaker	68330FY	Danish	A.02.03
Executive MemoMaker	68330FB	Eur. English	A.02.03
Executive MemoMaker	68330FD	German	A.02.03
Executive MemoMaker	68330FN	Norwegian	A.02.03



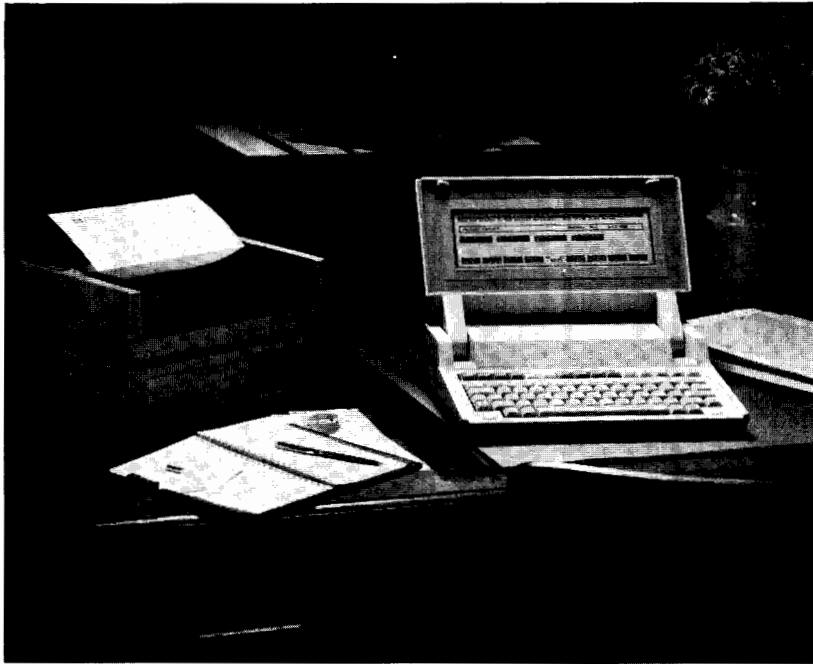
Name	HP Product Number	Country	Revision
Gallery Collection	68352FD	German	A.01.00
Gallery Collection	68352FH	Dutch	A.01.00
Gallery Collection	68352FX	Finnish	A.01.00
Gallery Collection	68352FY	Danish	A.01.00
Gallery Collection	68352FZ	Italian	A.01.00
Gallery Collection	68352FE	Spanish	A.01.00
Gallery Collection	68352FF	French	A.01.00
Gallery Collection	68352FN	Norwegian	A.01.00
Gallery Collection	68352FS	Swedish	A.01.00
Gallery Collection	68352FX	Finnish	A.01.00
HPWord PC/Vectra	27536FB	U.K.	A.02.00
HP Access Vectra	36898FD	German	F.01.01
Lotus 1-2-3	68340FB	Eur. English	2.01
Lotus 1-2-3	68340FD	German	2.01
Lotus 1-2-3	68340FE	Spanish	2.00
Lotus 1-2-3	68340FF	French	2.01
Lotus 1-2-3	68340FS	Swedish	2.01
Lotus 1-2-3	68340FZ	Italian	2.01
Symphony	68339FB	Eur. English	A.01.2
Vectra Office Assist.	68301FB	Eur. English	
Vectra Office Assist.	68301FF	French	
Vectra Office Assist.	68301FZ	Italian	
Vectra Office Assist.	68301FD	German	
Vectra Office Assist.	68301FH	Dutch	
Vectra Office Assist.	68301FY	Danish	
Vectra Office Assist.	68301FS	Swedish	
Vectra Office Assist.	68301FX	Finnish	
Vectra Office Assist.	68301FE	Spanish	
Vectra Office Assist.	68301FN	Norwegian	
Vectra Office Prof.	68300FB	Eur. English	
Vectra Office Prof.	68300FF	French	
Vectra Office Prof.	68300FZ	Italian	
Vectra Office Prof.	68300FD	German	
Vectra Office Prof.	68300FH	Dutch	
Vectra Office Prof.	68300FY	Danish	
Vectra Office Prof.	68300FS	Swedish	
Vectra Office Prof.	68300FX	Finnish	
Vectra Office Prof.	68300FE	Spanish	
Vectra Office Prof.	68300FN	Norwegian	



**For Asian countries only:**

<b>Name</b>	<b>HP Product Number</b>	<b>Special Requirements</b>
<b>COMMUNICATIONS:</b>		
Japanese AdvanceLink 2392	68333WJ	
Traditional Chinese AdvanceLink 2392	68333W Opt. ZAA	Minimum 384K Memory
Korean AdvanceLink 2392	68333W Opt. ZAB	Minimum 384K Memory
<b>SPREADSHEETS:</b>		
Japanese Executive Spreadsheet	68332WJ	
Traditional Chinese Executive Spreadsheet	68332W Opt. ZAA	Minimum 384K Memory
Korean Executive Spreadsheet	68332W Opt. ZAB	
<b>WORD PROCESSING:</b>		
Traditional Chinese Executive MemoMaker	68330W Opt. ZAA	Minimum 384K Memory
Korean Executive MemoMaker	68330W Opt. ZAB	
<b>GRAPHICS:</b>		
Asian Drawing Gallery	68351W	
Asian Drawing Gallery English Extension	68351W Opt. ZAN	
Traditional Chinese Drawing Gallery Fonts (Taiwan version)	79308A Opt. ZAA	
Asian Drawing Gallery Korean Extension	68351W Opt. ZAB	
Korean Drawing Gallery Fonts	79308A Opt. ZAB	
Asian Graphics Gallery (Taiwan version)	68352W Opt. ZAA	





**Portable/Portable Plus  
Software Available from HP**

Jane Blando

To determine which U.S. products are recommended for use with localized computers, check with your dealer or HP office.

<b>Name</b>	<b>HP Product Number</b>	<b>Portable</b>	<b>Portable Plus</b>
<b>COMMUNICATIONS:</b>			
REFLECTION 1 (ROM)	82863K		•
	Opt. 400		
YTerm	82867K		•
	Opt. 630		
<b>DATA BASE MANAGEMENT:</b>			
Executive Card Manager (ROM)	45555K		•
	Opt. 400		
<b>PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS:</b>			
BASIC by Microsoft	45445D	•	
BASIC by Microsoft (ROM)	82862K		•
	Opt. 400		
Compiled BASIC by Microsoft	45446D	•	•
FORTRAN by Microsoft	45449D	•	•
GW-BASIC by Microsoft	45450D	•	•
Pascal by Microsoft	45447D	•	•
Programmer's Tools	45419C	•	•
Technical Reference Manual	45559K		•
<b>SPREADSHEETS:</b>			
Lotus 1-2-3 V. 2.01	45539K		
	Opt. 400		ROM
<b>WORD PROCESSING:</b>			
MemoMaker/Time Management (ROM)	45504K		•
	Opt. 400		
Microsoft SPELL	45556D	•	•
Microsoft WORD	45474D	•	
Microsoft WORD (ROM)	45549K		•
	Opt. 400		
MultiMate (ROM)	45554K		•
	Opt. 400		

Name	HP Product Number	Portable	Portable Plus
GAMES:			
Hitchhikers Gde.**	92244BA	●	●
Starcross**	92243DA	●	●
Suspended**	92243FA	●	●
Zork I**	92243QA	●	●

\*\*Manufacturer Supported



## Discontinued Software

Marilyn Ruel, Jane Blando

### Replacement Media for Discontinued Software

We are committed to sustain support for Hewlett-Packard products well after technology advances and market demand cause us to discontinue offering a product for sale.

It is HP corporate policy to ensure availability of parts and full support services for your computer for five years beyond discontinuance. Specifically, this means:

- Replacement Media Exchange Kits available for five years from date of last HP shipment for each product in the table below.  
See the Software Exchange Kits article in this issue for information on the Kits.
- Availability of telephone assistance through Hewlett-Packard Help Line Response Centers.
- Continuing coverage in this magazine—the *HP PC Communicator*.

Product Name	Touchscreen/150:	
	HP Product #	Superseded by:
ACCOUNTING:		
BPI General Accounting	45455A	None
BPI Accounts Receivable	45456A	None
BPI Accounts Payable	45457A	None
BPI INVENTORY Control	45460A	None
BPI Job Cost	45461A	None
BPI Payroll	45458A	None
BPI Personal Accounting	45459A	None
COMMUNICATIONS:		
Dow Jones Spreadsheet	45511D	None
PFS:File and Report	45488A	None
Transend COMplete	45414A	Available from Transend Corp.
DATABASES:		
DSN/Link—U.S. English	45425A	AdvanceLink/150—45431A
Condor 1	45415A	Available from Condor Corp.
Condor 1 to 3 Upgrade	45417A	Available from Condor Corp.
Condor 3	45416A	Available from Condor Corp.
dBASE II/150	45468A	dBASE II—45468D
Personal Card File/150	45422A	Executive Card Manager—45421A
R:Base 4000	45545A	R:Base 5000—45563A

<b>Touchscreen/150:</b>		
<b>Product Name</b>	<b>HP Product #</b>	<b>Superseded by:</b>
<b>GRAPHICS:</b>		
Charting Gallery/Executive MemoMaker Bundle	45440A	Sold separately: Charting Gallery—45513A and/or Executive MemoMaker—45418A
Series 100 Graphics—U.S.	45410A	Charting Gallery—45513A
Graphplan by Chang Labs	45467A	Available from Chang Labs
Graphwriter Basic Set	45484A	None
PFS: Graph	45490A	None
<b>INTEGRATED SOLUTIONS:</b>		
ExecuDesk System	45442A	ExecuDesk sold separately—45444A
<b>SPREADSHEETS:</b>		
Context MBA/150	45481A	None
Financial Calculator	45423A	None
VisiCalc/150—U.S. English	45405A	None
MicroPlan	45465A	Available from Chang Labs
MicroPlan Consolidation Module	45466A	Available from Chang Labs
Microsoft Multiplan/150	45473A	None
Microsoft Multiplan	45473D	None
Deluxe VisiCalc	45405A	None
<b>WORD PROCESSING:</b>		
MemoMaker/150—U.S. English Touchscreen	45420A	Executive MemoMaker/150—45418A
PFS: Write	45489A	None

<b>Product Name</b>	<b>HP Product #</b>	<b>Superseded by:</b>
WordStar/150—U.S. English	45400A	WordStar—45400D
MailMerge—U.S. English	45401A	Included in WordStar Professional—45427D or Professional Options—45429D
SpellStar	45402A	SpellStar has been superseded by CorrectStar which is included in WordStar Professional—45427D and/or Professional Options—45429D. An Upgrade kit is available from CorrectStar to SpellStar for users with a dual single-sided disc drive.
WordStar/MailMerge/ SpellStar Combo	45404A	Superseded by WordStar Professional—45427D.
WordStar	68345F	Available from MicroPro, Inc.
WordStar Professional	68346F	Available from MicroPro, Inc.
WordStar 2000	68341F	Available from MicroPro, Inc.
WordStar 2000 PLUS	68342F	Available from MicroPro, Inc.
MultiMate	68338F	Available from MultiMate International Corp.
MultiMate Advantage	68343F	Available from MultiMate International Corp.

**HP Vectra PC and/or IBM PC/XT/AT:**

<b>Product Name</b>	<b>HP Product #</b>	<b>Superseded by:</b>
<b>DATA COMMUNICATIONS:</b>		
AdvanceLink	45431E	AdvanceLink—68333F
Monitor/IBM PC	45439A	AdvanceLink—68333F
<b>DATABASES:</b>		
Personal Card File	45422E	Executive Card Manager—68331F
<b>WORD PROCESSING:</b>		
Memomaker/IBM PC	45420E	Executive Memomaker—68330F



**The Portable or the Portable Plus:**

<b>Product Name</b>	<b>HP Product #</b>	<b>Superseded by:</b>
<b>COMMUNICATIONS:</b>		
Dow Jones Spreadsheet	45511D	None
<b>SPREADSHEETS:</b>		
Microsoft Multiplan	45473D	None
<b>DATABASES:</b>		
DataFax	45408C	None



Here is a list of the most popular HP PC supplies and accessories.

A full list of HP computer supplies matched to your system for optimum performance appears in the *HP Computer User's Catalog*.

For ordering information—or to obtain a copy of the *User's Catalog*—refer to the "How To Order" section in this Current Information section.

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### For Computers

#### ■ The Portable

13269K	Vinyl replacement case
13269V	System carrying case
13269Z	Leather briefcase
82167A	HP-IL cable (0.5 meters)
82167B	HP-IL cable (1.0 meter)
92221M	RS-232C modem cable (1.5 meters)
92221P	RS-232C printer cable (1.5 meters)
92224F	RS-232C gender converter (female)
92224M	RS-232C gender converter (male)

#### ■ HP 120 Personal Computer

13242H	RS-232C cable (use 13242-60011 for replacement)
13269P	Carrying case (for HP 120 with short keyboard plus 9121 disc drive; or HP 120 with extended keyboard)
92171C	Keyboard drawer park
92171J	Keyboard park—large
92171T	System turntable
92240A	Display tilt unit
92240B	Display swivel unit
92250D	Dust cover
92220R	Right-angle HP-IB cable (0.3 meters long)
92251P	"Stacked" dust cover (for computer and disk drive)

#### ■ HP 125 Personal Computer

92160A	Thermal paper, blue print (box of 24 rolls)
92160B	Thermal paper, black print (box of 24 rolls)
92171C	Keyboard drawer park
92171T	System turntable
92207A	Anti-glare filter
92250B	Dust cover



#### ■ HP 150 Touchscreen Personal Computer

13242H	RS-232C cable (use 13242-60011 for replacement)
13269BB	Carrying case for Touchscreen
13269C	Carrying case (for HP 150 and 9121 disc drive)
92160A	Thermal paper, blue print (box of 24 rolls)
92160B	Thermal paper, black print (box of 24 rolls)
92165A	2 plug surge suppressor
92165B	4 plug surge suppressor

92165C	6 plug surge suppressor
92171C	Keyboard drawer park
92165R	RS-232C surge protector
92171J	Large (extended) keyboard park
92171X	ThinkJet printer stand for top of display
92208A	Mobile PC Centre
92220R	Right-angle HP-IB cable (0.3 meters long)
92240A	Light-gray tilt unit
92240B	Light-gray swivel unit
92250F	Dust cover for 150
92250K	Dust cover for Touchscreen
92261R	ThinkJet paper catcher (use with 92171X printer stand)
92268A	4 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors
92268B	8 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors
92268C	16 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors
92268D	32 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors

■ **HP Vectra PC**

24542D	Parallel printer cable for the Vectra PC (2 meters)
24542G	Serial printer/plotter cable for the Vectra PC (3 meters)
24542H	Serial plotter cable for Vectra PC to 7550 plotter (3 meters)
24542M	U.S./European modem cable (3 meters) for the Vectra PC
35178A	Vectra PC three-piece carrying case
35188A	LaserPlotter software (allows laser to do plotter graphics)
35188D	iPrint software (allows LaserJet to print & fill-in forms)
35190J	LaserControl software (to drive LaserJet)
35190P	Jetplotter software (allows InkJet printers to emulate plotters)
92165A	Two outlet surge suppressor
92165B	Four outlet surge suppressor
92165C	Six outlet surge suppressor
45741A	Monochrome video extension cable
45742A	Color video extension cable
45986A	Security System Lock
88140LC	600' formatted/certified data cartridge, 67-Mb formatted capacity (box of 5)
88140SC	150' formatted/certified data cartridge, 16 Mb formatted capacity (box of 5)
92165A	2 plug surge suppressor
92165B	4 plug surge suppressor
92165C	6 plug surge suppressor
92165R	RS-232C surge protector
92166A	Vectra PC keyboard park
92171X	ThinkJet printer stand for top of display
92190A	5.25-inch flexible discs, 360 KB formatted capacity (box of 10 discs)
92190X	High-capacity 5.25-inch flexible discs, 1.2 MB formatted capacity for use on the Vectra PC's high capacity internal disc drive (box of 10 discs)

92192A	3.5" micro flex discs, double-sided (box of 10)
92192X	3.5" micro flex discs, high-density (box of 10)
92208A	Mobile PC Centre
92259A	Vectra PC dust cover for monochrome monitor and keyboard
92259B	Vectra PC dust cover for color monitor and keyboard
92261R	ThinkJet paper catcher (use with 92171X printer stand)
92268A	4 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors
92268B	8 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors
92268C	16 metre StarLAN cable. 8-pin connectored/4 twisted pair unshielded cable with RJ45 connectors
92268D	32 metre StarLAN cable. 8-pin connectored/4 twisted pair shielded cable with RJ45 connectors

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#### For Disc Drives

##### ■ HP 82901M/S, 82902M/S, 9130A, 9135A 5.25-inch Disc Drives

92190A	5.25-inch flexible discs, double-sided (box of 10 discs)
92190L	5.25-inch flexible discs in Flex Files (box of 50 discs in Flex Files)
92190N	5.25-inch flexible discs (box of 100 discs)
92193K	5.25-inch flexible-disc drive-cleaning kit
92194A	Compact file for 5.25-inch discs (capacity 50 discs)
92194E	FlexFiles for 5.25-inch discs (Pkg. of 5 FlexFiles—each unit holds 10 discs)
92194G	Portable album file for 5.25-inch discs (capacity 20 discs)
92194N	5.25-inch rolltop file (capacity 120 discs)
92194P	Hanging file pages for 5.25-inch discs (Pkg. of 10—capacity 20 discs)
92251A	Dust cover (82901M/S)
92251B	Dust cover (82902M/S)

##### ■ HP 9121D/S, 9133A/B, 9133V/XV, 9134 3.5-inch Disc Drives; 9114A/B, 9122D, 9122S, 9123D, 9133D, and 9153A/B Disc Drives

13269T	Disc-drive case for 9121
92191A	3.5-inch micro flex discs—single-sided (box of 10)
92192N	3.5-inch micro flex discs—double-sided (box of 100 discs)
92191D	3.5-inch micro flex disc desktop file (capacity 50)
92191E	FlexFiles for 3.5-inch discs (Pkg. of 5 FlexFiles—each unit holds 10 discs)
92191F	Portable album file for 3.5-inch discs (capacity 20 discs)
92191H	3.5-inch micro flex disc album (capacity 20) (replaces 92191C)
92191L	Package of 20 pages for use with 92191H
92191M	Micro carrying case pack for 3.5-inch discs (Pkg. of 3 cases—each case holds 5 discs)
92191P	Hanging file pages for 3.5-inch discs (capacity 40 discs)
92191Q	Compact file for 3.5-inch discs (capacity 25 discs)
92191T	Micro disc case for 3.5-inch discs (capacity 10 discs)
92191R	3.5-inch micro flex disc roll-top file (capacity 50)
92192A	3.5-inch micro flex discs—double-sided (box of 10)
92251D	Dust cover (9121 D/S)

■ **HP 45812A Internal 1.2 Mb 5.25-inch Disc Drive for the Vectra PC**

92190X	5.25-inch high capacity flexible disc (box of 10)
92194A	Compact file for 5.25-inch discs (capacity 50 discs)
92194E	FlexFiles for 5.25-inch discs (Pkg. of 5 FlexFiles—each unit holds 10 discs)
92194G	Portable album file for 5.25-inch discs (capacity 20 discs)
92194P	Hanging file pages for 5.25-inch discs (Pkg. of 10—capacity 20 discs)

■ **HP 45813A Internal 1.44Mb 3.5-inch Disc Drive for the Vectra PC**

92192X	3.5-inch high density microflexible discs (box of 10)
92191E	FlexFiles for 3.5-inch discs (Pkg. of 5 FlexFiles—each unit holds 10 discs)
92191F	Portable album file for 3.5-inch discs (capacity 20 discs)
92191M	Micro carrying case pack for 3.5-inch discs (Pkg. of 3 cases—each case holds 5 discs)
92191P	Hanging file pages for 3.5-inch discs (capacity 40 discs)
92191Q	Compact file for 3.5-inch discs (capacity 25 discs)
92191T	Micro disc case for 3.5-inch discs (capacity 10 discs)

■ **HP 9142A Cartridge Tape Drive**

92242L	600-foot data cartridge, 52 Mb formatted capacity (box of 5)
92242S	150-foot data cartridge, 15 Mb formatted capacity (box of 5)
92167F	Storage tray for 92242L/S tapes (holds up to 10 tapes)
92167L	Storage album for 88140LC/SC tapes (Pkg 5 albums—each holds 4 cartridges)

■ **HP 9144A Cartridge Tape Drive**

88140LC	600-foot formatted/certified data cartridge, 67Mb formatted capacity (box of 5)
88140SC	150-foot formatted/certified data cartridge, 16Mb formatted capacity (box of 5)
92167F	Storage tray for 88140LC/SC tapes (holds up to 10 tapes)
92167L	Storage album for 88140LC/SC tapes (Pkg 5 albums—each holds 4 cartridges)

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**For Printers**

■ **HP 3630A PaintJet Color Graphics Printer**

35190P	Jetplotter software (allows PaintJet to emulate plotter)
51606A	Black ink print cartridge
51606C	Color ink (cyan, magenta, yellow) print cartridge
51630P	Z-fold printer paper (250 sheets)
51630Q	Transparency film (50 sheets with sleeves)
51630Y	Cut-sheet printer paper (250 sheets)
92261G	Paper catcher for 92269A printer stand
92250Z	PaintJet printer dust cover
92269A	Desktop stand for PaintJet Printer

■ **HP 2225A/B/C/D ThinkJet Printer**

35178C	Carrying Case
51605B	Individual printhead ink cartridge (blue)
51605G	Individual printhead ink cartridge (green)
51605R	Individual printhead ink cartridge (red)
35190P	Jetplotter software (allows ThinkJet Printer to emulate plotter)
51630A	Fan-fold ink jet paper (500 sheets/box)
51630J	Cut-sheet ink jet paper (500 sheets/box)
51630L	Pressure sensitive ink jet labels (2 across, 2000/box)
92171X	Terminal top ThinkJet printer stand for 239X series terminals
92250V	Dust cover
92261A	Individual printhead ink cartridge (black)
92261D	Accessory Kit (2 print heads, 500 sheets fanfold paper, 500 sheets cut paper, 1 dust cover, and 1 printer stand)
92261N	Fan-folded ink-jet paper (five 500-sheet packs)
92261R	Paper catcher for use with 92261S and 92171X stands
92261S	Desktop Thinkjet printer stand

■ **HP 2227A/B QuietJet/QuietJet Plus**

51605B	Individual printhead ink cartridge (blue)
51605G	Individual printhead ink cartridge (green)
51605R	Individual printhead ink cartridge (red)
51630B	Z-fold wide paper for QuietJet Plus (500 sheets)
51630D	Z-fold wide paper for QuietJet plus (2500 sheets)
92250X	QuietJet dust cover
92250W	QuietJet Plus dust cover
92261A	Individual printhead ink cartridge (black)
92261G	Paper catcher for 92261T/U printer stands
92261P	QuietJet Plus accessory kit (1 each black, blue, green, and red printhead cartridges, printer stand, dust cover, printer paper)
92261T	QuietJet Plus printer stand
92261U	QuietJet printer stand
35190P	Jetplotter software (allows QuietJet to emulate ThinkJet Printer)

■ **HP 2235A/B/C/D RuggedWriter Printer**

92156S	Ribbon cartridges (box of 3 cartridges)
92166A	Desktop printer stand
92157A	Printer paper, fan-folded (box of 2400 sheets)
92157C	Printer paper, microperforated, fan-folded (box of 2400 sheets)

■ **HP 2932A/2934A Dot-Matrix Printer**

92154B	Print head
92155L	Ribbon cartridges (box of 3 cartridges)
92155M	OCR ribbon cartridge—for bar code applications (box of 3 cartridges)
92157A	Printer paper, fan-folded (box of 2400 sheets)
92157C	Printer paper, microperforated, fan-folded (box of 2400 sheets)
92211C	Mobile sound enclosure cabinet
92214P	Mobile printer stand

■ **HP 2686A LaserJet Printer**

35188A	LaserPlotter software (allows LaserJet to do full page plotter slides)
35190J	LaserControl software (to drive LaserJet)
92211B	Mobile printer cabinet
92215F	RS232C extension cable (15 meters)
92215T	RS232C extension cable (30 meters)
92219H	RS232C cable to HP 150 (5 meters)
92219J	RS232C cable to IBM PC (5 meters)
92285A	Toner (EP) cartridge—black
92285B	8.5" x 11" paper tray
92285C	8.5" x 14" paper tray
92285D	Metric A4-size paper tray
92285E	Metric B5-size paper tray
92285F	LaserJet forward collator
92285G	Toner (EP) cartridge—brown
92285P	Font Organizer

■ **HP 33440A LaserJet Series II Printer**

35188A	LaserPlotter software (allows Inkjet printers to be plotters)
35190J	LaserControl software (to drive LaserJet)
92211B	Mobile printer cabinet
92259G	Dust cover
92295A	Toner (EP-s) cartridge
92295B	8.5" x 11" paper tray (letter/standard size)
92295C	8.5" x 14" paper tray (legal size)
92295D	A4 paper tray (metric size)
92295E	7.25" x 10.5" paper tray (executive size)

■ **HP LaserJet/LaserJet Series II Printer Fonts**

92286A	Plug-in type-font cartridge (Courier and Line Printer, compressed)
92286B	Plug-in type-font cartridge (Proportional Spacing)
92286C	Plug-in type-font cartridge (International Courier)
92286D	Plug-in type-font cartridge (Prestige Elite)
92286E	Plug-in type-font cartridge (Letter Gothic)
92286F	Plug-in type-font cartridge (Proportional Spacing II)
92286G	Plug-in type-font cartridge (Legal Elite)
92286H	Plug-in type-font cartridge (Legal Courier)
92286J	Plug-in type-font cartridge (Math Elite)
92286L	Plug-in type-font cartridge (Courier and Line Printer)
92286M	Plug-in type-font cartridge (Prestige Elite P + L)
92286N	Plug-in type-font cartridge (Letter Gothic P + L)
92286P	Plug-in type-font cartridge (TMS Rmn P + L)
92286Q	Plug-in type-font cartridge (Memo 1)
92286R	Plug-in type-font cartridge (Presentations 1)
92286T	Plug-in type-font cartridge (Tax)
92286U	Plug-in type-font cartridge (Forms, "portrait"-style)
92286V	Plug-in type-font cartridge (Forms, "landscape"-style)
92286X	Plug-in type-font cartridge (EAN/UPC/OCR-B)
92286Y	Plug-in type-font cartridge (PC Courier 1)
92286Z	Plug-in type-font cartridge (Microsoft 1)

**HP Soft Fonts for HPMS-DOS—3.5-inch discs (HP Touchscreen I/II)**

33411AC	Soft font (TMS Rmn/Helv Base Set—USASCII)
33411AD	Soft font (TMS Rmn/Helv Base Set—ROMAN 8)
33411AF	Soft font (TMS Rmn/Helv Supplemental—ROMAN 8)
33411DA	Soft font (Letter Gothic Base Set)
33411EA	Soft font (Prestige Elite Family)

**HP Soft Fonts for MS-DOS—5.25-inch discs (HP Vectra/IBM/IBM compatibles)**

33412AC	Soft font (TMS Rmn/Helv Base Set—USASCII)
33412AD	Soft font (TMS Rmn/Helv Base Set—ROMAN 8)
33412AF	Soft font (TMS Rmn/Helv Supplemental—ROMAN 8)
33412DA	Soft font (Letter Gothic Base Set)
33412EA	Soft font (Prestige Elite Family)
33412RA	Soft font (Garamond)
33412SA	Soft font (Century Schoolbook)
33412TA	Soft font (Zaph Humanist)
33412UA	Soft font (Headline Typeface, Collection 1)

**■ HP LaserJet 500 Plus Printer**

92287B	Paper Cassette Tray (Letter Size)
92287C	Paper Cassette Tray (Legal Size)
92287D	Paper Cassette Tray (A4 Size)
92287E	Paper Cassette Tray (B5 Size)

**■ HP 82905A/B Dot-Matrix Printer**

92154P	Print head
92156A	Ribbon cartridges (box of 2 cartridges)
92157A	Printer paper, fan-folded (box of 2400 sheets)
92157C	Printer paper, microperforated, fan-folded
92250T	Dust cover
92269A	Desktop printer stand

**■ HP 82240A Infrared Printer (For HP 18C + HP 28C)**

82175A	Thermal paper
92169G	Leather carrying case (black)
92169H	Leather carrying case (brown)
92169J	Leather carrying case (burgundy)

**■ HP 82906A Dot-Matrix Printer**

92154N	Print head
92156A	Ribbon cartridges (box of 2 cartridges)
92157A	Printer paper, fan-folded (box of 2400 sheets)
92157C	Printer paper, microperforated, fan-folded (box of 2400 sheets)
92171N	Forms tractor unit
92269A	Desktop printer stand



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**For HP ColorPro, 7470A, 7475A and 7550A Plotters**

■ **Non-Glossy Plotter Paper**

	Size/Sheets
17800P	A/50
17801P	A/250
17802P	A4/50
17803P	A4/250
17804P	B/50
17805P	B/250
17806P	A3/50
17807P	A3/250

■ **Glossy Plotter Paper**

	Size/Sheets
17900G	A/100
17901G	A4/100
17902G	B/100
17903G	A3/100

■ **Non-Glossy Paper and Pen Kits**

	Size
17820PK	A
17821PK	A4

■ **Transparency Plotter Film**

	Size/Sheets
17700T	A/50 (7440/70)
17701T	A4/50 (7440/70)
17702T	A/50 (7475 + others)
17703T	A4/50 (7475 + others)

■ **Transparency Plotter Kits**

	Size/Plotter
17715TK	A/7440 + 7470
17716TK	A4/7440 + 7470
17717TK	A/7475 + others
17718TK	A4/7475 + others

■ **Fiber-Tip Paper Pens**

.3mm	.7mm	Single-color (5 pens/pkg)
17825P	17826P	Black
17827P	17828P	Green
17829P	—	Aqua
17831P	17832P	Blue
17833P	—	Violet
17835P	—	Brown
17837P	—	Yellow
17839P	—	Orange
17841P	17842P	Red
17843P	—	Red-Violet
		Multi-color
17845P	17846P	Std Assort
17847P	17848P	Cool Assort
17849P	17850P	Warm Assort

■ **Fiber-Tip Transparency Pens**

.3mm	.7mm	Single-color (5 pens/pkg)
17725T	17726T	Black
17727T	17728T	Green
17729T	—	Aqua
17731T	17732T	Blue
17733T	—	Violet
17735T	—	Brown
17737T	—	Yellow
17739T	—	Orange
17741T	17742T	Red
17743T	—	Red-Violet
		Multi-color
17745T	17746T	Std Assort
17747T	17748T	Cool Assort
17749T	17750T	Warm Assort

■ **Accessories**

92166E	Plotter sound enclosure (for ColorPro, 7470A & 7475A plotters only)
92177V	Personal Plotter-pen organizer (for fiber-tip pens)
92177T	Plotter-pen organizer (for short pens)
92177U	Plotter-pen organizer (for tall pens)
92177W	ColorPro (7440A) graphics organizer
92177X	7475A graphics organizer
92214P	Mobile support stand (7475)
92250N	Dust cover (7470A)
92269A	Desktop stand (7470A, ColorPro)





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Hewlett-Packard personal business computers and their application programs are designed for ease of use and ease of learning. Classroom training courses can help first-time computer users rapidly build confidence and gain new skills in a supportive environment away from the day-to-day job.

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**HP-Conducted  
Introductory Courses**

Hewlett-Packard provides Series 100 training courses at HP Customer Training Centers using HP-provided equipment; they can also be taught by HP at your facility using your own systems. To order, call your HP sales and service office.

**■ *Getting Started—Vectra***

This class is designed to acquaint the novice Vectra PC user with the machine's many capabilities. Topics covered include installing applications, P.A.M., MS-DOS commands, disc formatting, file management, and system configuration.

HP 72401A (1 day)

**■ *Getting Started—The Portable***

This class teaches new computer users to operate the Portable using P.A.M., to write and save a memo, and to dial an electronic information service. You will also gain an understanding of compatibility issues between desktops and The Portable.

HP 45689A (1 day)

**■ *Getting Started—The Touchscreen***

This workshop was created especially for beginners—so your first experience with your new computer will be a positive one. You'll learn how to define basic computer terms, start up the system, handle discs properly, prepare new discs, and install application software.

HP 35036B (1 day)

This course, or equivalent knowledge, is a prerequisite for all applications and programming training on the HP 150.

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**HP-Conducted  
Application Courses**

We have structured the curriculum for maximum flexibility. You can attend whatever functional area course you want—spreadsheet analysis, word processing, data base management, or integrated software—without having to go through material you are not interested in. For further efficiency, *WordStar/150* and *Condor/150* are each divided into two modules, allowing you to choose the depth of understanding you wish to attain.

All of these classes stress hands-on work with the HP 150 during class time for maximum effectiveness.

■ *Lotus 1-2-3*

This introductory workshop familiarizes you with the features, worksheet, and command structure of Lotus 1-2-3. Using hands-on practice, you will learn how to create and format a spreadsheet; save a worksheet and print a report; create and use a database; and create, print, and plot a graph.

HP 45688A (1 day)

■ *VisiCalc/150*

A solid introduction to the elements of a VisiCalc worksheet is provided in this workshop. Participants will learn to create, edit and print worksheets, identify and use 16 commands, activate the function keys, and store and load worksheets.

HP 35125A (1 day)

■ *WordStar®/150*

The WordStar® workshop will help you get started with word processing and its many capabilities. By the end of the workshop you will know how to start WordStar, create a new document, and then edit, save and print documents.

HP 35123B (1 day)

■ *MailMerge and SpellStar/150*

As a follow-on to WordStar, this workshop shows you how to merge files with MailMerge™ as well as proof your text using the SpellStar™ 20,000 word dictionary. In practice sessions, you will learn how to create a mailing list database and then combine this with text files to print customized letters and memos. The majority of WordStar's dot commands are explained and illustrated.

HP 35123C (½ day)

- *WordStar/150 and MailMerge/SpellStar/150* are available as a single unit.  
HP 35123A (1½ days)
- *Condor/150 20-1 and 20-2*  
This workshop will introduce you to Condor™—an easy-to-use, yet powerful database management system. After you understand what a database system is you'll learn how to use one by designing a form for entering data, creating a simple dataset, editing information, sorting and creating simple reports, and reorganizing a dataset.  
HP 35124B (1 day)
- *Condor/150 20-3*  
The Condor 20-3 workshop will provide you with in-depth experience using Condor's advanced database management and report writing capabilities including indexing a new or existing dataset, joining unlike datasets, creating, printing and revising reports, and creating and running a help screen and command procedure.  
HP 35124C (1 day)
- *Condor/150 20-1 and 20-3* can be ordered as a single unit.  
HP 35124A (2 days)

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- *HP 150 Integrating Applications*  
Because you may use the same information in different ways, this workshop was created to teach you how to pass information from one software application to another. The following applications are covered: Condor, PCF, MailMerge, MemoMaker, SpellStar, Graphics, and WordStar.  
HP 35037A (½ day)

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- *Advanced Lotus 1-2-3*  
This class teaches Lotus 1-2-3 users advanced 1-2-3 features such as Data Sort, Data Query and Data Table commands, database statistical functions, keyboard macros, programming with the /X command, and advanced file commands.  
HP 05097A (1 day)

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■ *MultiMate*

This class is designed for secretaries and clerks with little or no prior word processing experience. You will learn how to create, edit, format, and print documents.

HP 51400A (1 day)

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■ *MS Word*

This class is designed for business professionals, word processing specialists and clerical personnel. You will learn to create, edit, format and print documents. In addition, you will learn to create multi-columnar documents, to set up glossaries and to understand the use of windowing.

HP 51401A (1 day)

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■ *AdvanceWrite III*

This class is appropriate for all new users of AdvanceWrite. It covers all the major features of AdvanceWrite III, including creating and editing documents, producing customized letters, indices, tables of contents and glossary files, how to use spreadsheets in AdvanceWrite, and how to use the Wordbase Manager.

27501A (3 days)

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**HP Customized Training**

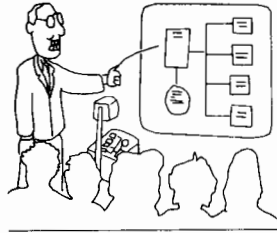
These courses can be taught at your facility using your own systems—or training to suit your specific needs can be designed and given through HP's Personal Computer Applications Engineering Consulting Service. Contact your HP sales and service office for details.

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**Dealer-Conducted Courses**

Many HP personal computer dealers teach similar courses or arrange for a Hewlett-Packard instructor to teach courses in your area. Contact your dealer for details.





The Classroom Learning Pack is a new concept expressly designed for the instructor of a classroom course on personal computer software. We've developed ready-to-use materials—an instructor's guide, overhead transparencies, and student activity sheets—so that you can quickly prepare for a course. And the course is easy to teach because the focus is on extensive hands-on practice with the software.

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- Classroom Learning Packs are offered for:
- Executive Card Manager/Vectra and IBM PC/XT/AT** ..... HP 89913F
  - The Gallery Collection/Vectra and IBM PC/XT/AT** includes both Drawing and Charting Gallery and 1 Student Training Disc (CBT) ..... HP 68352V

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Each course may be taught in approximately four hours. During most of this time the students will be actually using the software and the instructor will be serving as a coach, not a lecturer.

To help you prepare for your role in leading the class, each Classroom Learning Pack includes the corresponding HP FastTrak Guide for expert users. FastTrak is self-study, modular training on such topics as installation, configuration, demonstrations, software features, and integration with other software. You'll be well prepared to answer any questions that come up during class.

Not only will the students practice with the software, they'll also practice using the documentation that accompanies the product. After they leave the class they will be able to find valuable information in the manuals when they need it.



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<b>Gallery Collection</b>	The focus of the Gallery Collection Learning Pack is intensive hands-on practice with the software. This is accomplished with instructor-guided exercises as well as self-instructional worksheets. One student training disc (CBT) is included with the Pack. CBT may also be used as self-paced training for an individual user at his/her workstation. A package of five training discs is available as product number 68351P. Topics covered include: using the Drawing Gallery discs and manuals; additional uses of Drawing Gallery; basic charting concepts, using the Charting Gallery manuals, and creating pie, bar, and line charts.
<b>Executive Card Manager</b>	The Executive Card Manager Learning Pack includes lessons on creating a cardfile; adding, updating and deleting cards; finding cards; and creating reports. This course may be used for teaching Executive Card Manager on the HP Vectra PC or an IBM PC/XT/AT.
<b>Ordering Information</b>	To order Classroom Learning Packs or Student Training Discs, contact your local dealer or HP office.

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HP FastTrak is comprehensive self-study training for user support personnel and expert users. Developed for Hewlett-Packard support personnel, FastTrak guides are now available for any user that desires information beyond the scope of the software documentation.

If you provide support services for personal computer users in your organization, HP FastTrak will make your job easier by helping you learn the ins and outs of the software quickly. Topics covered in each guide include product overview, supported configurations, features and uses, demo tips, integration with other personal computer applications, installation, performance, and technical tips. And, FastTrak is completely modular so you can learn what you want, when you want.

FastTrak can help you provide several software services: product evaluation, installation, configuration, and user support. Experienced end-users will also appreciate a copy for handy reference. The format is consistent with the software documentation to simplify the learning process.

HP FastTrak guides are now available for five software applications:

- Executive MemoMaker** (HP 89915F)
- Executive Card Manager** (HP 89916F)
- AdvanceLink** (HP 89918F)
- Gallery Collection** (HP 68352X)  
(includes Charting and Drawing Gallery FastTraks)

Each guide covers the Touchscreen/150 and Vectra versions of software. FastTrak for Executive MemoMaker, Executive Card Manager, and Gallery Collection also include diskettes—one in 3½" format and one in 5¼" format—of demonstration files.

The HP Vectra Office FastTrak PLUS is available to provide training on integrating, customizing, and automating your Vectra Office products. This FastTrak PLUS contains information and labs that are designed to help office automation specialists who provide application level programming, training and general consulting to HP 3000/workstation users.

This self-paced course will enable the student to demonstrate the flow of data from application to application within the Vectra Office; customize and automate this flow of data for specific user needs; and provide custom solutions, tightly integrating Vectra Office with the HP 3000 and HP DeskManager.

The HP Vectra Office FastTrak PLUS includes product integration training on AdvanceWrite, Executive MemoMaker, AdvanceLink, AdvanceMail, Executive Card Manager, Lotus 1-2-3, Graphics Gallery, and HP DeskManager B. Included also is a data disc in 5¼-inch format that contains sample batch jobs automating various real-life scenarios used in the labs, and command files for automating and customizing Vectra 3000 and HP DeskManager B. HP Vectra Office FastTrak PLUS—HP Part Number 68321F.

If you desire technical user level information beyond the scope of the Microsoft Windows User's Guide, a Windows HP ExpertGuide is available. The **Windows HP ExpertGuide** is a self-study reference and learning tool composed of readings, labs, examples, and quick reference information for Windows on the HP 150 and Vectra. Microsoft Windows ExpertGuide—HP Part Number 5958-7685.

To order any of these products, contact your local dealer or sales office.



## HP PC Software Support

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To order the personal computer software support that best meets your support requirements, call HP's Support Telemarketing Center at (800) 835-HPHP in the U.S. or call your local HP sales office. All contractual services must be purchased for a minimum of three months coverage. All PC software support services apply only to software classified as HP-supported. Listed below are some of the telephone assistance products.

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### Telephone Assistance for Internal Support Personnel:

#### Workgroup Coordinator Assistance

(HP 99062A + D00) provides your centralized staff with comprehensive coverage for application software being used on various HP personal computer models.

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### Telephone Assistance for the End-User:

PC users receive unlimited call coverage for software supported on a specific HP personal computer model through **PC User Assistance:**

Vectra Publisher	HP 72496A + E00
Vectra Publisher EGA	HP 72497A + E00
Vectra Model 45	HP 72445A + E00
Vectra Model 50	HP 72450A + E00
Vectra Model 58	HP 72458A + E00
Vectra Model 59	HP 72459A + E00
Vectra Model 60	HP 72460A + E00
Vectra Industrial PC	HP 72411A + E00
Touchscreen MAX	HP 45660B + E00
Touchscreen II	HP 45851A + E00
Portable	HP 45710A + E00
Portable PLUS	HP 45711E + E00

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### Per-call Services\* for Infrequent Support Needs:

Individual support calls may be charged to personal or company credit cards by calling (800) 858-8867. In addition, users may prepay for five calls by purchasing HelpLine Call Certificate Packs (HP 35159A) from HP's Direct Marketing Division at (800) 538-8787.

\*Per-call services are available in the U.S. and Canada only.

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## Ordering *HP PC Communicator* Back Issues

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The application information, operational tips, and programming techniques included in the *HP PC Communicator* make back issues valuable—to increase your productivity and improve your system knowledge.

To order, refer to the “How to Order” section at the end of this insert.

Listed below are the major articles of the “white pages” of each issue. The Encyclopedia articles of past issues are listed in the Encyclopedia Index in this issue. There is no index for Newline and Bugline column items which appear in each issue.

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### HP 120 and HP 125

Issues #1 through #6 cover primarily the HP 12x. (8½" x 11" page size)

#### Issue #1 includes the following major articles:

- “Single and Multi-line Page Headings with Word”
- “Searching for Enhanced Text in Word”
- “Making Invisible Characters Visible in Word”
- “Directory Scrolling in VisiCalc”
- “Sending Escape and Control Codes to a Printer from VisiCalc”
- “Warning: PASCAL”
- “Things You Should Know About Random Access Files”
- “HP 9895 to HP 9135 File Transfer”
- “Electronically Reading a Disc Reference Number”

*Series 100 Communicator* Issue #1 . . . . . 5955-3937

#### Issue #2 includes the following major articles:

- “Making Graphs from VisiCalc Worksheets”
- “Word and VisiCalc Go Together”
- “Printing Formulas from VisiCalc Worksheets”
- “Printing Multiple Copies From Word”
- “More on Search and Replace in Word”
- “Chaining from One Executable Program File to Another”
- “A BASIC Subroutine Library”
- “Sort and Back Up Operations with Large Data Bases”
- “Using COPY DISC to Back Up Data Files on Drive B”
- “Computing Internal Rate of Return in VisiCalc”

*Series 100 Communicator* Issue #2—U.S. . 5955-3943

*Series 100 Communicator* Issue #2—Intl. . 5955-3947

**Issue #3 includes the following major articles:**

- “Disc Formats on the HP Series 100”
- “Non-HP 12x CP/M Programs—Will They Run?”
- “Long Documents with Series 100/Word”
- “Series 100/Word: Y Table Gymnastics”
- “Using Graphics to Your Advantage”
- “Condor Tips”
- “Adding Your Application Program to the WELCOME Menu”
- “Using Softkeys on Non-HP Systems”
- “Changing Printer Characters”
- “Using The HP 2121 Disc Drive with Your HP 125A”

*Series 100 Communicator Issue #3 . . . . . 5957-6213*

**Issue #4 includes the following major articles:**

- “International System Summary”
- “Condor News”
- “Comparing BPI and Peachtree Accounting”
- “Printing Mailing Labels from Condor”
- “More on HPMAIL and the Series 100”
- “File Transfers Using PIP”
- “Accessing a Plotter from BASIC”

*Series 100 Communicator Issue #4—U.S. . 5957-6204*

*Series 100 Communicator Issue #4—Intl. . 5957-6214*

**Issue #5 includes the following major articles:**

- “Enhanced Installation Program Available”
- “Video Display Interface for the HP 125”
- “Comparing Condor and dBASE II”
- “Sending Escape Codes to Printers from WordStar and Condor”
- “Interchangeability of Word and WordStar Text”
- “Two-Column Print in WordStar”
- “WordStar Quick Tips and Defaults”
- “Getting VisiCalc to Round Dollar Values to Two Places”
- “Word: Wandering HP 2601A Printer Margins with the Sheet Feeder”
- “DSN/Link: Enhanced File Transfer Capabilities over Link/125”
- “Connecting Two Series 100 Systems for ASCII File Transfer”
- “Transferring IMAGE/3000 Data to a Condor Database”
- “Transferring Data to the HP 2700 Color Graphics Terminal”
- “Installing the Operating System on Your Fixed Disc”
- “Using the HP 2631B HP-IB Printer with Series 100”

–“Programming Challenge—Bypassing WELCOME”

*Series 100 Communicator Issue #5—U.S. . 5957-6205*

*Series 100 Communicator Issue #5—Intl. . 5957-6215*

**Issue #6 includes the following major articles:**

–“CSC Graphics Available on the Series 100”

–“New Auto Shutter for 3½ inch Micro Flexible Discs”

–“Introducing Enhanced DSN/Link”

–“Microsoft BASIC Compiler”

–“Using Block/Format on the Series 100”

–“Correction—Printing Mailing Labels From Condor”

–“WordStar/100 Multiple Column Print Update”

–“Remote Access to the HP 125”

–“Using the 92911A Bar Code Reader on the HP 125”

–“Configuring the Series 100 for use with the Diablo 630 Printer”

–“An Alternative to ALPHASORT for Series 100/Word”

*Series 100 Communicator Issue #6—U.S. . 5957-6206*

*Series 100 Communicator Issue #6—Intl. . 5957-6216*

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**HP 150 Touchscreen and HP 120 and 125**

Issues #7 and #8 cover primarily the HP 150 Touchscreen and HP 120 and 125. (5½" x 8½" page size)

**Issue #7 includes the following major articles:**

–“Transferring Files Between the HP 12x and HP 150”

–“Data Compatibility Between HP 12x and HP 150 Applications”

–“HP 12x: PIP, COPY, and BACKUP”

–“Comparing VisiCalc and MicroPlan”

–“WordStar Microspace Justification”

–“Configuring WordStar/150 for your Printer”

–“Condor Tips”

–“Correction: Remote Access to the HP 120/125”

–“BASIC/150: Block Mode Transfers”

–“HP 12x BASIC Compared to HP 150 BASIC”

–“Subtle Difference: HP 12x/150 BASIC and Other BASICs”

*Series 100 Communicator Issue #7—U.S. . 5957-6207*

*Series 100 Communicator Issue #7—Intl. . 5957-6217*



**Issue #8 includes the following major articles:**

- “HP 150 Goes Worldwide”
- “HP 12x Fixed Disc Support Now Available”
- “Future Plans for the HP 120 and HP 125”
- “Using Plotters with the HP 150”
- “Installing dBASE II on the HP 150”
- “Three-Column Print in Word/12x”
- “Plotting Condor Data with HP Graphics”
- “Transferring Data Between a Series 100 Computer and an IBM PC”
- “Accessing Plotters from BASIC/150”
- “BASIC: How Do You Make RND More Random?”
- “Install Your BASIC/150 Application in PAM”
- “Decrease BASIC/150 Debugging Time with Cross Reference Utility

*Series 100 Communicator Issue #8. . . . . 5957-6218*

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**Portable, HP 150  
Touchscreen, HP 120  
and 125**

Issues #9 and onward cover the Portable, HP 150 Touchscreen, and HP 120 and 125. (5½" x 8½" page size)

**Issue #9 includes the following major articles:**

- “PIPping Files on Your HP 12x”
- “From Numbers to Charts on the HP 150: dBASEII to Series 100 Graphics”
- “HP 150 Graphics: From the Screen to Your Printer”
- “Using Lotus/150 1-2-3 with the 7475A Plotter and B-size Paper”
- “Running Applications from MS-DOS on Your HP 150”
- “Word/12x: Rapid Returns”
- “Localizing Your HP 150”
- “Using Record Mode on the HP 150”
- “Escaping in High-Level Languages”
- “Access to the Touchscreen via MS-Pascal/150”
- “So You Want to Write Programs for the HP 150”
- “Introducing PFS:File and PFS:Report for the HP 150”
- “GraphPlan: New Integrated Spreadsheet and Graphics Software”
- “New Simulations—and a Chess Game—for the HP 150”
- “Challenging New Recreational Software for Series 100 PC Users”
- “The Portable: Desktop Capability in a Notebook-Sized Package”
- “The Portable: Compatibility with the HP 150”
- “Battery-Powered Peripherals for The Portable”
- “dBASEII for The Portable . . . and a New Version for the HP 150”

*Series 100 Communicator Issue #9. . . . . 5957-6219*

**Issue #10 includes the following major articles:**

- "Removing Soft Hyphens in WordStar/12x"
- "Adding Data Points to Linear Charts in Graphics/12x"
- "Internal Rate of Return: Using the Iteration Option in Multiplan"
- "Lotus 1-2-3: Disc Drives, Peripherals, and Data Bases"
- "Setting User-Defined Function Keys in dBASE II"
- "A 'Help' Menu for CP/M Utilities"
- "Transferring Fixed-Length ASCII Records via DSN/Link"
- "A Feature-by-Feature Comparison of the HP 150 and HP 2623A Terminals"
- "Saving HP 150 Screen Graphics"
- "BAT/150: A Fast, Easy Way to Obtain an .EXE File"
- "Graphics on the HP 150: Filling Polygonal Areas"
- "The Newest Members of the HP 150 Family"
- "Two New Programming Tools for HP 150 Users"
- "Double-Sided Disc Drives for the HP 150B"
- "Announcing the EtherSeries/150 Local-Area Network"
- "The HP 150B and the IBM PC Speak to Each Other"
- "Enhanced Condor Software Now Available for the HP 150"
- "Enhanced MicroPlan for the HP 150"

*Series 100 Communicator Issue #10 . . . . . 5958-0250*

**Issue #11 includes the following major articles:**

- "Inverting the Order of Items on Lists in Word/12x"
- "Using Memory Effectively in Lotus 1-2-3"
- "Moving Blocks of Text in MemoMaker"
- "Headings and Footings in Word/12x"
- "Installing the ThinkJet Printer with WordStar"
- "Writing Your Own Menu Routines"
- "Using Escape Codes to Create Function Keys in COBOL"
- "Reads with Handshaking in HP 150 BASIC"
- "Double's No Trouble"
- "Precision Problems in Microsoft Languages"
- "Presenting The Graphics Gallery"
- "Introducing Dow Jones Spreadsheet Link"
- "The BPI Family of Accounting Packages"
- "Turbo Pascal: A Hot Item"
- "Special Upgrade for Word/12x"
- "From Keyboard to Printer with Type-a-Line"
- "PFS: . . . for the HP 150"

–“MultiMate and Friends”  
–“HP 125 Software Obsolescence”  
*Series 100 Communicator Issue #11 . . . . . 5958-0251*

**Issue #12 includes the following major articles:**

- “The HP Personal Computer Assistance Program”
- “How to Use Diagraph”
- “Transferring Files from Condor to dBASE II”
- “File Transfers—Every Which Way—with The Portable”
- “MemoMaker on The Portable: Differences”
- “LaserJet Support under MultiMate and WordStar”
- “HP 120/125 Word and WordStar with the LaserJet”
- “Macros in WordStar”
- “File Transfers from VisiCalc to Condor”
- “What’s So Special about BASIC?”
- “Useful Functions in BASIC”
- “General-Purpose Input Routines”
- “BASIC Relational and Logical Operations”
- “Fun with the Calendar”
- “Introducing the Touchscreen II”
- “ExecuDesk and the ExecuDesk System”
- “New Personal Productivity Center Release”
- “Introducing Print Central”
- “HPWORD/150—HP 3000 Word Processing”
- “HPAccess/Touchscreen and HPAccess Central”
- “Data-Storage Solutions for HP PCs”
- “Microsoft Word”
- “MS-DOS Manual Update for Touchscreen II Owners”
- “Announcing Deluxe VisiCalc”
- “Introducing VT100 Emulation for the HP 150B”
- “The Touchscreen 3278 Emulation Upgrade”

*Series 100 Communicator Issue #12 . . . . . 5958-0252*

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**HP Vectra PC, Portable,  
HP 150 Touchscreen,  
120 and 125**

**Issue #13 includes the following major articles:**

- “Condor/150: Computations Against Computed Values”
- “Condor/150: Sending Escape Sequences to Your Printer”
- “Diagraph and Picture Perfect: Positioning Multiple Pictures”
- “Lotus 1-2-3: Transferring Files to and from PCF”
- “MS Word: How to PRINT MERGE Data from dBASEII”
- “MS Word: How to PRINT MERGE Data from Condor”

- “WordStar: Installing Multiple Copies on One Fixed Disc”
- “WordStar: Installing Multiple Copies on One Flexible Disc”
- “Helpful Hints for Compiling BASIC Programs”
- “Double-Referencing Variables in Compiled BASIC”
- “The 64 Dollar/K Question”
- “BASIC Floating Point Internal Representation”
- “BASIC General Purpose Error-Handling Routines”
- “A Complete Guide to BASIC Strings”
- “Introducing the Vectra PC”
- “Upgrading Your HP 150A or Touchscreen to a Touchscreen II”
- “Independent Software Vendor Program Update”
- “Introducing Executive Card Manager”
- “Symphony for the Touchscreen/150”

*HP PC Communicator* Issue #13 . . . . . 5958-0253

**Issue #14 includes the following major articles:**

- “Word/12x: Printing the Unique Spanish Characters”
- “WordStar: Letter Quality Printing with an Okidata Printer”
- “WordStar: Underlining with an Okidata Printer”
- “Running the Vectra SETUP Program”
- “Programming Screen Enhancements on HP Vectra PC”
- “Video and the HP Vectra PC”
- “Graphing Data from Your BASIC Program”
- “Assembly Language Subroutines for BASIC Programs”
- “Introducing HP OfficeShare PC Local Area Network”
- “Introducing the New 1-2-3 for HP Vectra PC”
- “The Executive Series”
- “MicroPro Products for HP Vectra PC”
- “New Supplies and Accessories”

*HP PC Communicator* Issue #14 . . . . . 5958-0254

**Issue #15 includes the following major articles:**

- “Condor and BASIC: Automatic Processing”
- “The Portable and the COPY CON Command”
- “The Portable: Creating a Backspace/Erase Key”
- “Condor: Using \*End in V2.11 Command Files”
- “Using Lattice C with the Portable”
- “Touchscreen/150: Serial Communications”
- “Introducing MultiMate for HP Vectra PC and IBM PC/XT/AT”

- "HP Graphics Curator/3000: Touchscreen/150 and Host Based Graphics"
- "Introducing Classroom Learning Packs"
- "Introducing HP FastTrak Self Study Packs"
- "Touchscreen/150: Upgrade from R:BASE 4000 to R:BASE 5000"

HP PC Communicator Issue #15 ..... 5958-0255

**Portable PLUS, Portable, Issue #16 includes the following major articles:**  
**HP 150 Touchscreen,**  
**HP 120 and 125**

- "Touchscreen/150: Condor—Escapes Sequences to Your Printer"
- "Drawing Gallery: Creating Drop Shadow Boxes"
- "Terminal to System Connections: RS-232 vs. RS-422"
- "Touchscreen/150: Graphics Escape Sequence Programming"
- "Graphics Labels with Touchscreen/150 GW BASIC"
- "Date Functions for Series 100 BASIC Revisited"
- "Introducing the Enhanced Portable PLUS"
- "Update on HP's Personal Computer Software Support"
- "WordStar 2000, Release 2 for Vectra"
- "PC Software Corporate Licensing Program Now Available"
- "MultiMate on the Portable PLUS"
- "Portable PLUS Localization Kits"
- "Portable PLUS: New MemoMaker/Time Management ROM"
- "Executive Card Manager for the Portable PLUS"
- "REFLECTION 1 for the Portable PLUS"
- "R.BASE 5000: Application Express in Depth"
- "1-2-3 Release 2 for the Touchscreen/150"

HP PC Communicator Issue #16 ..... 5958-0256

**Issue #17 includes the following major articles:**

- "Vectra: Creating Labels with AdvanceWrite/LaserJet"
- "Vectra: HP Access and GW BASIC"
- "Differences Between the Touchscreen/150 and Vectra"
- "Series 100 BASIC: Device Control and Printing Graphics"
- "Touchscreen/150: Hints for Compiling BASIC Programs"
- "Calling Assembler Subroutines from Interpretive BASIC"
- "Vectra: Announcing the Enhanced Graphics Display System"
- "Vectra: Welcome to the Graphics Gallery"

- “Vectra: Enhanced Executive MemoMaker Introduced”
  - “Touchscreen/150/Vectra: New Learning Products”
  - “Touchscreen/150/Vectra: Portfolios for Graphics Gallery”
  - “Touchscreen/150: New LaserJet Drivers”
- HP PC Communicator Issue #17* .....5958-0257

**Issue #18 includes the following major articles:**

- “Vectra Mass Storage: New Options”
  - “Bundled Vectra Systems Available”
  - “Introducing Vectra 3000 and Vectra Office”
  - “Introducing Shelp for the Portable PLUS”
- HP PC Communicator Issue #18* .....5958-0258

**Issue #19 includes the following major articles:**

- “Vectra: EX-BIOS and Keyboard Click”
  - “Touchscreen/150: Using MS-DOS Load and Execute”
  - “Getting Started with Turbo PASCAL”
  - “FORMIO for the Touchscreen/150 Using Series 100 BASIC”
  - “Accessing MS-DOS File Time-Stamps from Lattice C”
  - “Vectra: Migration to Drawing Gallery Made Easy”
  - “New Graphics Tablet Available”
  - “Vectra: Microrim R:BASE System V”
  - “Touchscreen/150: MS-DOS 3.2 Available”
  - “Touchscreen/150: Expanded Memory Board Available”
  - “1-2-3 Release 2.01 Available for Touchscreen/150”
  - “Touchscreen/150: New Upgrades for MemoMaker and PCF”
  - “Touchscreen/150: ExecuDesk Enhanced”
- HP PC Communicator Issue #19* .....5958-7673

**Issue #20 includes the following major articles:**

- “Software Tested with the OfficeShare Networking Family”
- “Operating HP-IB Peripherals with Vectra and IBM Family Computers”
- “Understanding the 8088 Architecture”
- “Touchscreen/150: Programming Function Keys Using Turbo Pascal”
- “Touchscreen/150: Controlling Print Pitch on the HP 82906A Printer”
- “The Vectra PC Publisher”

- “Introducing HP-Enhanced Versions of Microsoft Windows”
  - “Hewlett-Packard Adds Value to Microsoft Windows”
  - “Touchscreen/150: Microsoft Windows”
  - “XENIX Operating System Available on Vectra”
  - “Vectra: Introducing Monochrome Plus Display System”
  - “QuietJet Printer Family: Special Characters Available”
  - “Symphony and 1-2-3 Enhanced by New Expanded Memory Board”
- HP PC Communicator Issue #20* ..... 5958-7674

**Issue #21 includes the following major articles:**

- “Vectra: WordStar 2000/2000+ Printers and Fonts”
  - “Vectra and Touchscreen/150: LaserJet and R:BASE 5000”
  - “Touchscreen/150: MS Word 150 and the LaserJet 500 Plus”
  - “Hidden Features of MS Word for the Touchscreen/150”
  - “Touchscreen/150: Executive MemoMaker and the LaserJet 500 Plus”
  - “Microsoft Windows for the HP 150/Touchscreen and HP Vectra PC”
  - “Extended Screen and Keyboard Control”
  - “Vectra PC: How to Ensure Software, Peripheral and Accessory Compatibility”
  - “Introduction to Programming the EGA Board”
  - “Vectra Graphics Gallery Now Works with PageMaker”
  - “Vectra Graphics Gallery Q&A”
  - “New HP 150/Touchscreen System Documentation”
  - “JetSeries Software Support”
- HP PC Communicator Issue #21* ..... 5958-7675

**Issue #22 includes the following major articles:**

- “How to Use Executive MemoMaker with PageMaker”
- “Desktop Publishing: Colors in PageMaker”
- “Outputting PageMaker to a Linotronic Typesetter”
- “Windows, Drivers, Fonts, and Applications”
- “Vectra: Booting from the Hard Disc”
- “What is HP StarLAN?”
- “HP Vectra 3000 PC: Frequently Asked Questions”



- “Portable Desktop Link Q&A”
- “Introducing Vectra HP BASIC Controller Bundles”
- “Announcing New AdvanceLink for HP Vectra PC”
- “Announcing New AdvanceLink FastTrak”
- “New Enhancements: HP Vectra 3000 PC”
- “Three Models of HP LaserJet 2000 Printer Introduced”
- “Now Available: HP LaserJet Series II Printer”
- “HP ScanJet Expands HP’s DTP Offering”
- “HP-IB QuietJet Plus Introduced”
- “HP’s New DraftMaster Duo”

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**Portable Vectra CS,  
Portable PLUS,  
Portable, HP 150  
Touchscreen, HP 120  
and 125**

**Issue #23 includes the following major articles:**

- “Using Scanning Gallery”
- “Scanning Gallery: Preview vs. Final Scan”
- “Printer Timeout Tables”
- “Using the Correct Communication Port”
- “Vectra: Softfonts and the PCL/LaserJet Driver”
- “Vectra: Softfont Limits with the HPPCL.DRV Driver”
- “HP Vectra PC: Key Combination Chart”
- “Taking Care of Your Hard Disc”
- “Announcing the HP PaintJet”
- “Portable PLUS: Lotus 1-2-3 Version 2.01 Upgrade”
- “Introducing the New Portable Vectra CS”
- “iPrint: New Approach to Electronic Forms”
- “New Graphics Gallery—Version 2.0”
- “Asian Vectra: Announcing the Asian Graphics Gallery”
- “QNX Operating System for HP Vectra and Industrial Vectra PC”
- “New Vectra MS-DOS 3.1 Exchange Kit”

*HP PC Communicator Issue #23 . . . . .5958-7677*

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**Vectra CS,ES,RS;  
Portable Vectra CS;  
Portable PLUS,  
Portable, HP 150  
Touchscreen, HP 120  
and 125**

**Issue #24 includes the following major articles:**

- “Compact vs. Quick Save in ECM”
- “PageMaker 1.0a Tips”
- “Using Disc Optimizer Programs with Lotus 1-2-3”
- “HP Vectra PC and HP-IB De-mystified”
- “InkJet Printers: Autostart Perforation Skip”
- “LaserJet Series II Help Sheet”
- “GW Basic with ThinLAN/StarLAN”
- “Introducing a New Family of HP Office Workstation Solutions”
- “The HP Vectra CS PC”



- “Introducing the HP Vectra ES and ES/12 PCs”
  - “HP Vectra ES and ES/12 Disc Mechanisms”
  - “3.5-Inch Internal Flexible Disc Drive for Vectra”
  - “Expanded Memory for the HP Vectra ES and ES/12 PCs”
  - “New Math Coprocessor for Vectra ES and ES/12 PCs”
  - “HP Vectra ES and ES/12 PCs: What’s Different?”
  - “New HP Vectra PC Keyboards”
  - “Original HP Vectra PC Discontinuance Plans”
  - “Model 58 and 59 HP Vectra 3000 PCs Discontinued”
  - “Ordering the New HP Vectra 3000 PC”
  - “HP’s Flagship PC: The Vectra RS”
  - “Vectra RS Systems Use HP Disc Drives”
  - “New HP Vectra MS-DOS 3.2”
  - “HP Vectra PC and Microsoft Windows”
  - “New HP Vectra Publisher PC’s for Desktop Publishing”
  - “New HP Vectra PC Bundles for HP StarLAN Users”
  - “HP Terminal Program for the HP Vectra PC Family”
  - “Software Support for the HP Rugged Writer 480 Printer”
  - “New Font Offerings for HP’s LaserJet Family”
  - “Introducing AdvanceWrite Plus”
- HP PC Communicator Issue #24 ..... 5958-7678
- Additional copies of this current issue are available:*
- HP PC Communicator Issue #25 ..... 5958-7679



## Software Exchange Kits— Upgrades, Updates, and Replacements for Damaged Discs

Robert Millier

This section lists the software exchange kits available for The Portable, HP 120/125, Touchscreen/150, and HP Vectra PC. These kits contain the latest software and any manual updates issued since the original release.

**Exchange kits are provided at a nominal charge.** You return your original master disc as proof of purchase and continue operating as usual with your work copy of the software.

Software Exchange Kits are provided for several different purposes:

- **Updates.** Software is revised to add new features, to work with new peripherals, or to correct problems. You can update your program and manuals at a nominal cost by ordering the appropriate Software Exchange Kit.
- **Upgrades.** When major features are added to a software product, you can order a Software Exchange Kit at a low cost—"trading in" your older version for one with the latest capabilities and documentation.
- **Media Replacement.** The master-copy/work-copy technique used is designed to minimize the risk of damage to your master software due to handling or human error. If this happens, Software Exchange Kits are available at a nominal charge. If the product has been updated since your original purchase, the Exchange Kit contains the latest version and any manual updates issued since the original release.

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### Ordering

To order:

- In the U.S., Software Exchange Kits are available by mail from HP's Direct Marketing Division, using the form given later in this magazine.
- Outside the U.S., contact your dealer or HP sales office for details.

For each kit ordered, along with your payment submit one corresponding original master disc. This is the disc with the HP software product number and description printed on the label.

**Be sure to make working copies before sending your master disc.**

**To determine the price for a kit**, contact your dealer or HP office—or call the HP telephone order number for your country. (See the “How to Order” section later in this Current Information insert.) HP cannot accept orders submitted without the correct master disc.

Refer to the tables on the next pages for Exchange Kit part numbers.

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<b>HP Internal Orders</b>	For HP Internal Orders of Software Exchange Kits, return the original master discs to: Software Administrator, Building 78/3 or Hewlett-Packard Attn: Software Administrator P.O. Box 60008 Sunnyvale, CA 94088  Reference your HP Internal Order number on the package.
<b>Replacement Media for Discontinued Software</b>	We are committed to sustain support for Hewlett-Packard products well after technology advances and market demand cause us to discontinue offering a product for sale.  It is HP corporate policy to ensure availability of parts and full support services for your computer for five years beyond discontinuance. Specifically, this means: <ul style="list-style-type: none"><li>■ Replacement Media Exchange Kits available for five years from date of last HP shipment, as indicated for each product in the “Discontinued Software” table in this section.</li><li>■ Availability of telephone assistance through Hewlett-Packard Help Line Response Centers.</li><li>■ Continuing coverage in this magazine—the <i>HP PC Communicator</i>. (By the way, you can help—share your tips and ideas with other users—just send a note to the <i>HP PC Communicator</i> editor.)</li></ul>
<b>Products Not Listed</b>	Because entertainment software packages are low-priced, there are no exchange kits for these products. Re-order the original product to replace damaged discs.  For information on other products not listed, contact your dealer or HP sales and service office.

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**Touchscreen/150  
Software Exchange Kits**

Product	Version	Order HP Part #	Notes
<b>Touchscreen (HP 150B) Operating System and Utilities</b>		45626-63007	2
Sys Master Disc			
MS-DOS	B.02.02		
MS-DOS	B.02.02		
COMMANDS			
P.A.M.	B.02.02		
HPBIOS	B.02.02		
FORMAT	B.02.00		
DEV CONFIG	B.02.00		
Appl Master Disc			
COPY/BACKUP	B.02.02		
INSTALL	B.02.02		
SET UP P.A.M.	B.02.02		
MS-DOS	B.02.03		
UTILITIES			
<b>Touchscreen II Operating System and Utilities</b>	2.11	45847-63004	3
MS-DOS	2.11		
MS-DOS	2.11		
COMMANDS			
P.A.M.	C.01.00		
HPBIOS	C.01.02		
FORMAT	C.01.00		
DEV CONFIG	C.01.00		
EASY CONFIG	C.01.00		
COPY/BACKUP	C.01.00		
INSTALL	C.01.00		
SET UP	C.01.00		
SAVERAM	C.01.01		
MS-DOS	C.01.00		
UTILITIES			
OP SYS			
MASTER:			
European Spanish		45847-63005	
French		45847-63006	
German		45847-63007	
Dutch		45847-63008	
Norwegian		45847-63010	
Swedish		45847-63011	
UK		45847-63012	
Finnish		45847-63013	
Danish		45847-63014	
Italian		45847-63015	

**Touchscreen/150  
Software Exchange Kits**

Product	Version	Order HP Part #	Notes
<b>Touchscreen Operating System (upgrade)</b>	3.2	45849-63031	
<b>Touchscreen II Operating System and Utilities</b>		45847-63017	
MS-DOS	3.2		
MS-DOS COMMANDS	3.2		
P.A.M.	E.01.01		
HPBIOS	E.01.01		
FORMAT	E.01.01		
DEV CONFIG	E.01.01		
COPY/BACKUP	E.01.01		
INSTALL	E.01.01		
SET UP	E.01.01		
SAVERAM	E.01.01		
STORE CONFIG	E.01.01		
MS-DOS UTILITIES	E.01.01		
<b>System Master Exchange Kit</b>		45847-63030	
MS-DOS	3.2		
MS-DOS COMMANDS	3.2		
P.A.M.	E.01.01		
HPBIOS	E.01.01		
FORMAT	E.01.01		
DEV CONFIG	E.01.01		
EASY CONFIG	E.01.01		
<b>Application Master Exchange Kit</b>		45847-63031	
COPY/BACKUP	E.01.01		
INSTALL	E.01.01		
SET UP	E.01.01		
SAVERAM	E.01.01		
STORE CONFIG	E.01.01		
<b>Utility Master Exchange Kit</b>			
MS-DOS	E.01.01	45847-63032	
UTILITIES			

<b>Product</b>	<b>Version</b>	<b>Order HP Part #</b>	<b>Notes</b>
3278 Emulation	A.01.00	45641-63001	
AdvanceLink (upgrade)	A.04.04	45431-63002	
AdvanceLink (update)	A.04.04	45431-63001	
Application Master (150 B)	B.02.00	45626-63006	
Auto Cad	A.02.01	47956-63001	
BASIC Interpreter	*A.01.01	45445-63002	
BASIC Compiler	A.01.00	45446-63002	
Charting Gallery	A.01.00	45513-63001	
Charting Gallery Upgrade	B.03.00	45513-60001	
COBOL	A.01.00	45448-63001	
Compiled BASIC	A.01.00	45446-63002	
Condor 3	*A.02.11	45416-63002	1
CorrectStar (hard-disc upgrade)	V3.31	45429-63002	
CorrectStar to SpellStar Upgrade	3.3.30	45429-63001	
CorrectStar	3.32	45427-63002	
dBASE II	*A.02.41	45468-63001	
Drawing Gallery	A.02.01	45411-63002	
Drawing Gallery Upgrade	B.03.00	45411-60001	
DSN/Link	A.01.01	45424-63001	
EtherPrint	2.11	45646-13001	
ExecuDesk	A.01.01	45444-63001	
Executive Card Manager (Upg/rp)	A.02.00	45421-63004	
Executive MemoMaker	C.02.00	45418-63002	
Forms Master	A.01.00	45443-63001	
FORTRAN	A.01.00	45449-63001	
FORTRAN Upgrade	*A.01.00	45449-63003	
Gallery Collection Upgrade	B.03.00	45437-60001	
GraphWriter	A.01.01	45484-63001	
GW BASIC	*A.01.04	45450-63002	
HP Message to AdvanceMail (upgrade)	A.00.02	27534-63007	
HP-IB Command Library (upgrade)	B.01.00	14857-63002	
HP-IB Command Library for MS-DOS	B.01.00	14857-63001	
HP Message	A.00.02	36568-63001	
HP Message to AdvanceMail	A.01.02	27534-63007	
HP Terminal Program	A.00.01	24597-65002	
HP Word	A.00.00	27505-63001	
Info Access	A.02.00	36898-63003	
Lattice C Compiler	A.01.00	45452-63001	

<b>Product</b>	<b>Version</b>	<b>Order HP Part #</b>	<b>Notes</b>
Lotus 1-2-3:			
System Disc	2.01	45566-63001	
Help Disc, Install, and Print Graph	2.01	45566-63002	
Translate/View	2.01	45566-63003	
System Disc	1A	45482-63001	
System Disc (including backup)	1A	45482-63004	
Utility	1A	45482-63002	
Tutorial 1&2	1A	45482-63003	
Printgraph	1A	45482-63005	
MailMerge	A.03.30	45401-63001	
MemoMaker	*B.01.02	45420-63001	
MemoMaker Time M	A.02.00	45504-64002	
MemoMaker to Executive MemoMaker (upgrade)	C.02.00	45418-63003	
MS Spell	A.01.00	45556-63001	
MS Word	B.01.00	45474-63002	
MultiMate	3.29	45424-63001	
MultiPlan	A.01.10	45473-63001	
OfficeShare Network	A.01.00	50902-69301	
Pascal	*A.01.00	45447-63001	
Painter	A.01.00	45540-63001	
PC Interface with HP 150	A.01.00	61060-63001	
PCF	B.00.02	45422-63001	
PCF to Executive Card Manager (upgrade)	A.02.01	45421-63005	
PFS: File & Report	A.02.41	45488-63001	
Print Central	A.01.01	36890-63001	
Print Central Upgrade	A.03.00	32593-63001	
R:Base 4000	1.1	45545-63001	
R:Base 5000	1.1	45563-63001	
R:Base 4 K to 5 K	1.1	45563-63002	
SpellStar	A.03.30	45402-63001	
Symphony	1.1		
Prog. Disc, Tutorial, Help		45498-63002	
Printgraph, Utility Discs		45498-63003	
Install Prog., Library Discs		45498-63004	
Tutorial1, Tutorial2 Discs		45498-63005	

<b>Product</b>	<b>Version</b>	<b>Order HP Part #</b>	<b>Notes</b>
Videotex	A.01.01	45314-63001	
VT100 Terminal Emulator	A.02.00	45412-63001	
VT100 Terminal Emulator	A.01.00	45412-63001	
Windows Kernal	A.01.03	45875-63001	
Windows Write/Paint	A.01.03	45875-63002	
X.21 Interface	26.22	18154-17101	

\*Revised since original release

† For each kit ordered, along with your payment submit one corresponding original master disc. This is the disc with the HP software product number and description printed on the label. Be sure to make working copies before sending your master disc.

**To determine the price for a kit**, contact your dealer or HP office, or call the HP telephone order number for your country. (See the "How to Order" section later in this Current Information Insert.) Orders submitted without the correct master disc cannot be accepted. If you want a kit with 5.25" discs, please indicate this preference on your order. Otherwise 3.5" disc will be shipped, regardless of the size of your returned master disc.

#### **Notes**

- 1—Either a Condor 20-3 disc or a Condor-20-1-to-Condor-3 Upgrade disc can be exchanged for the Condor 3 disc.
- 2—Three double-sided discs, written in single-sided format, to exchange for damaged HP 150A or Touchscreen (HP 150B) media. To upgrade an HP 150A to the **Touchscreen (HP 150B)** operating system, order this kit. To update an HP 150A or Touchscreen to the **Touchscreen II** operating system, order the Touchscreen II Upgrade Kit (45849-63006) from your dealer or HP office. The upgrade kit includes the new operating system disc and the ROM integrated circuits required by the new disc; it is not user-installable. (Refer to the article "Upgrading Your HP 150A or Touchscreen to a Touchscreen II" in *Communicator* Issue #13 for details).
- 3—Double-sided exchange disc for damaged Touchscreen II media. To upgrade an HP 150A or Touchscreen (HP 150B) to the Touchscreen II operating system, order the Touchscreen II Upgrade Kit (45849-63006) from your dealer or HP office. The upgrade kit includes the new operating system disc and the ROM integrated circuits required by the new disc; it is not user-installable. (Refer to the article "Upgrading Your HP 150A or Touchscreen to a Touchscreen II" in *Communicator* Issue #13 for details.)



**Vectra PC  
Software Exchange Kits**

<b>Product</b>	<b>Version or /Date Code</b>	<b>Order Part #</b>	<b>Notes</b>
AdvanceWrite I to AdvanceWrite Plus (Upgrade)	F.02.00	27546-60001	
AdvanceWrite II to AdvanceWrite Plus (Upgrade)	F.02.00	27546-60002	
AdvanceWrite III to AdvanceWrite Plus (Upgrade)	F.02.00	27546-60003	
AdvLink	B.01.00	68333-65002	
AdvLink (Upg.)	B.01.00	68333-65001	
ASYST Scientific	A.02.50	14858-61005 14858-61006 14858-61007	
BASIC Interpreter	2538	45952A	1
BASIC Interpreter (Upg/rp)	3.22	45952-63001	
Charting Gallery Upgrade	B.03.00	68350-60002	
Drawing Gallery Upgrade	B.03.00	68351-60002	
Executive Card Manager	A.01.03	68331-65001	
Executive MemoMaker Upgrade	A.03.00	68330-60005	
Exec. Spreadsheet	A.01.01	68332-65001	
Gallery Collection Upgrade	B.03.00	68352-60001	
Graphics Gallery Update	A.01.00	68352-65002	
HP-IB Command Library (Upg.)		82990-65001	
HP Message	A.00.02	36569-65001	
HP Message to AdvanceMail (upgrade)	A.01.02	27535-65009	
HP Terminal Program	A.00.01	24597-65001	
MS-DOS Op Sys Disc	A.01.04	45951-63001	
MS-DOS Op Sys Disc	A.01.02	45951-60001	
MS-DOS Op Sys Disc	B.01.01	45951-63017	
MS Macro Assembler	4.0	45953-60001	
Multiple Character Set Utilities MCS	A.01.01	5061-8970	
Office Share Network Server	A.01.00	50902-69601	
Office Share Network User	A.01.00	50903-69601	
PC Instrument Data Acquisition	A.02.00	14856-65001	
PC Instrument Data Acquisition (Upg.)	A.02.00	14856-61001	
PC Instrument System	B.01.00	61061-65001	
PC Instrument System	B.01.00	61061-65002	
Print Central	A.01.00	36890-65001	
Print Central (Update)	A.03.00	32593-63001	
R:Base 5000	2537	68336-65001	
R:Base Program Interface		68337-65001	
R:Base System V	1.1	68328-65012	
Scanning Gallery	A.02.00	68357-65001	

**Vectra PC  
Software Exchange Kits**

<b>Product</b>	<b>Version or /Date Code</b>	<b>Order Part #</b>	<b>Notes</b>
Scanning Gallery MS Windows Run-Time Version	A.01.00 & A.02.00	88290-10150	
Symphony	2538	68339-65001	
TextChart	A.02.00	45406-65001	
VT 100 Terminal Emulator	A.02.00	45412-63001	
1-2-3 by Lotus	2.01	68340-65001	

**Notes**

1—Because an exchange kit would be priced at approximately the same price as the original product, the order number is for the original product.

**Portable  
Software Exchange Kits**

<b>Product</b>	<b>Version</b>	<b>Order Part #</b>	<b>Notes</b>
BASIC Interpreter	A.01.01	45445-63002	
BASIC Compiler	A.01.01	45446-63002	
DataFax	A.01.01	45408-63001	
dBASEII	*A.02.41	45468-63001	
Lotus 1-2-3 Upgrade (ROM)	2.01	45539-64001	
PC 2622 (Reflection)	1.0	82861-64001	
Prog. Tools	A.01.00	45419-63001	
Reflection	1.0	82861-64002	
WordStar (HP110)	3.34	45400-63030	

\*Revised since original release.

**Discontinued Software  
Replacement Media Exchange Kits**

Product (Notes)	Version	Order Part Number†		Exchange Available Through
		3.5" Disc	5.25" Disc	
<b>Touchscreen/150:</b>				
BPI Gen. Acctg.	A.01.00	45455-63001	n/a	June, 1990
BPI Personal Acctg.	A.01.11	45459-63001	n/a	June, 1990
BPI Accts. Rec.	A.01.11	45456-63001	n/a	June, 1990
Condor 1/150	A.02.11	45415-63002	n/a	April, 1990
Condor 3*	A.02.11	45415-63002	n/a	April, 1992
Context MBA/150	A.02.03	45481-63001	n/a	April, 1990
Diagraph	A.03.01	45463-63001		September, 1992
Graphics (bar disc, text disc, pie disc, line disc, examples disc)	A.03.01	45410-63001	n/a	April, 1990
GraphPlan	1.00.T2	45467-63001		
<b>Lotus 1-2-3:</b>				
System Disc (including backup)	1A	45482-63001		April, 1992
Utility	1A	45482-63004		April, 1992
Tutorial 1&2	1A	45482-63002		April, 1992
Printgraph	1A	45482-63003		April, 1992
MicroPlan	4.04.T2	45465-63001		May, 1991
MicroPlan Consol.	4.04.T2	45466-63001		May, 1991
Picture Perfect	A.03.01	45462-63001		September, 1992
Transend COMplete	A.01.00	45414-63001		May, 1991
VisiCalc	B.01.02	45405-63004	n/a	April, 1990
WordStar (HP 150)	3.34	45400-65031		September, 1992
WordStar (150/110)	3.34	45400-63030		September, 1992

\*Revised since original release.

**Discontinued Software  
Replacement Media Exchange Kits**

Product (Notes)	Version	Order Part Number†		
		3.5" Disc	5.25" Disc	8" Disc
<b>HP 12x:</b>				
Exchange Available Through April, 1990				
Op Sys/Util/12x	*A.02.00	45900-13810	45900-15810	
VisiCalc/12x	*A.02.01	45531-13800	45531-15800	45531-18800
Graphics/12x	*A.01.03	45532-13800	45532-15800	
Word/12x	*A.02.03	45533-13800	45533-15800	45533-18800
Link/12x (3)	A.02.00	45534-13800	45534-15800	
DSN/Link/12x	A.01.01	45534-13810	45534-15810	45534-18810
BASIC/12x	A.05.21	45535-13800	45535-15800	45535-18800
Programming/12x	A.01.00	45536-13800	45536-15800	45536-18800
Condor 1/12x (5)	A.02.00	45550-13800	45550-15800	45550-18800
Condor 3/12x (4)	*A.02.01	45550-13802	45550-15802	45550-18802
BPI G/A/12x	A.01.00	45552-13800	45552-15800	45552-18800
BPI Payroll/12x	A.01.00	45553-13800	45553-15800	
WordStar/12x	A.01.00	45560-13800	45560-15800	45560-18800
SpellStar/12x	A.01.00	45561-13800	45561-15800	45561-18800
MailMerge/12x	A.01.00	45562-13800	45562-15800	45562-18800
MicroPlan/12x	A.01.00	45670-13800	45670-15800	
MicroPlan Cons./12x	A.01.00	45671-13800	45671-15800	
WordStar	3.31	n/a	68345-65001	May, 1992
WordStar Professional	3.31	n/a	68346-65001	May, 1992

See notes on next page.

\* Revised since original release.

† For each kit ordered, along with your payment submit one corresponding original master disc. This is the disc with the HP software product number and description printed on the label. Be sure to make working copies before sending your master disc.

To determine the price for a kit, contact your dealer or HP office—or call the HP telephone order number for your country. (See the "How to Order" section later in this Current Information Insert.) Orders submitted without the correct master disc cannot be accepted.



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### Notes

- 3—This kit is to exchange your Link/125 disc for a Link/125 disc. (If you want to *upgrade* to Series 100 DSN/Link, order part number 45534-13810 or 45534-15810.)
- 4—A Condor 3 disc, a Condor 20-2 or 3 Upgrade disc, or a Condor 20-1 to 3 Upgrade disc may be exchanged for the Condor 3 disc.
- 5—A Condor 2 disc or a Condor 1 to 2 upgrade disc may be exchanged for the Condor 2 disc.

All of the items listed in this issue, except software update/upgrade kits and HP-conducted training courses, are available from your dealer or HP:

- Your local dealer can often provide immediate delivery. (To locate a dealer, call 800/FOR-HPPC in the U.S. or contact your local HP office—ask for "Personal Computer Dealer Sales.")
- Your HP sales and service office will transmit your order to the appropriate HP distribution center.

**Ordering by Telephone from HP**

Except for systems, peripherals (such as disc drives and printers), and training courses, most items listed in this issue are also generally available by telephone from Hewlett-Packard:

- Australia ..... (03) 895-2645  
(03) 895-2615  
(03) 895-2815  
(03) 895-2861
- Austria ..... (0222) 2500-614  
(0222) 2500-615  
(0222) 2500-616
- Belgium/Luxembourg ..... (02) 761 31 11
- Canada  
Toronto local ..... (416) 671-8383  
Ontario ..... 1-800-387-3417  
Quebec ..... 1-800-387-3417  
British Columbia ..... 112-800-387-3154  
Other Provinces ..... 1-800-387-3154
- Denmark ..... 04 30 16 40
- Finland ..... (90) 887 2361
- France ..... (1) 69 28 83 90  
(1) 69 28 32 64
- Greece ..... (01) 672 6090
- Italy ..... (02) 9236 9702
- Middle East  
Athens ..... (01) 6828811
- Norway ..... (02) 24 60 90
- South Africa  
Johannesburg ..... (011) 8025111  
Cape Town ..... (021) 537954
- Spain ..... 91-6374013  
91-6370011

- Sweden ..... (08) 7502400
- Switzerland ..... (057) 31 24 90
- The Netherlands ..... (020) 547 6606
- United Kingdom ..... (0734) 697201
- United States ..... 800-538-8787  
Alaska, California, and Hawaii ... 408-738-4133
- West Germany ..... (0130) 3322

For countries not listed, call your local HP sales and service office.

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**Ordering HP-Conducted Training Courses**

Hewlett-Packard provides personal computer training courses at HP customer training centers using HP-provided equipment; they can also be taught by HP at your facility using your own systems. To order, call your HP sales and service office.

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**Ordering Software Update and Upgrade Kits**

Your original master disc must accompany an order for software update or upgrade kits. Therefore, they are available only through your local dealer or from HP by mail.

For ordering instructions, refer to the article "Software Exchange Kits" elsewhere in this Current Information section.

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**HP Internal Users**

Have your purchasing department enter an I2 order on the supplying entity shown for the item on the Corporate Price List or the Parts Price List.

If you are ordering a software exchange kit, return the original master disc to:

Software Administrator/Internal Orders,  
Building 78/5

or to:

Hewlett-Packard  
P.O. Box 60008  
Sunnyvale, CA 94088  
Attn: Software Administrator/  
Internal Orders

Reference your HP internal order number on the package.

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**HP Employees**

Check with the Employee Computer Program Coordinator in your personnel or purchasing department for ordering instructions.



## Ordering *HP PC Communicator* Subscriptions

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The *HP PC Communicator* is the heart of the support program for The Portable, the HP 150 Touchscreen, the HP 12x, and the Vectra PC.

This publication contains articles on how to best use your system—plus each issue includes sections of the “HP PC Encyclopedia.”

The “HP PC Encyclopedia” brings together all the current information you need, in addition to the manuals, for each of the software packages that you use. New and revised Encyclopedia articles are sent to you as part of the *HP PC Communicator*.

You can order a subscription just as you order supplies and accessories—through your dealer, by using HP’s special telephone orderlines, or through your local HP office. (See the “How To Order” section in this insert for the special HP telephone number for your area.)

*HP PC Communicator*—

U.S. . . . . 45530A

*HP PC Communicator*—

Canada/Mexico . . . . . 45530B

*HP PC Communicator*—

International . . . . . 45530C

(Subscriptions outside the U.S. are sent by accelerated mail.)

*Note: We are unable to start your subscription with an issue which has already been mailed; to complete your set of Communicator issues, order individual copies as described in the article “Ordering HP PC Communicator Back Issues” which is also in this Current Information section.*

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### **Address Corrections for *HP PC Communicator* Subscribers**

Change the information on the mailing label by sending us the Change of Address form which appears at the end of this Current Information Insert. Allow six to eight weeks for the change to take effect.

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### **HP Internal Users**

Have your purchasing department enter an I2 order on HP division A5 (DMK). For domestic orders only: Put users name in “Mark for” section.

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### **HP Employees**

Check with the Employee Computer Program Coordinator in your personnel or purchasing department for Direct Marketing Division (DMK) ordering instructions.







# Mail Order Form

## for HP Personal/Desktop Computer Software Update Kits

Use this form only for HP Personal/Desktop Computer Software Update Kits. Supplies matched to your HP Computer System can be ordered with update kits.

Ordering instructions:

1. Print or type all requested customer information.
2. Order software update kit(s) for your HP Personal/Desktop Computer. The original disc must be sent to HP with your order for the software update kit; see instruction 7.
3. You may also order computer supplies using this form. Obtain current prices by calling toll-free 800-538-8787. In California, Alaska and Hawaii call (408) 738-4133 collect.
4. Compute state/local taxes on the total cost of items ordered (HP is required to collect taxes; their omission delays your order). If tax exempt, you must provide your tax exemption/resale number.
5. Fill in any special shipping instructions, as required. HP pays freight to U.S. addresses on mail orders, EXCEPT you will be charged extra for special expedited shipping methods; and you will be charged freight on heavy, bulky items weighing more than 30 lbs., such as furniture or printer paper.
6. Fill in credit card information or enclose cashier's check for fastest shipment. Payment by personal or company check will delay shipment up to 10 days. Make check payable to Hewlett-Packard Co. All orders subject to credit approval. **Do not send currency, coin, stamps or purchase orders.**

7. Before your software update kit(s) can be shipped, you must send with your order one original disc (containing the software being updated) for each update kit ordered. This is the disc with the HP software product number and description printed on the label. Be sure to make a working copy before sending the original.

8. Mail this form, along with credit card information (or check), and the original disc to:

HEWLETT-PACKARD DIRECT MARKETING  
Mail Order Dept., P.O. Box 60008, Sunnyvale, CA 94088

For carriers other than U.S. Mail, the address is:

HEWLETT-PACKARD DIRECT MARKETING  
Mail Order Dept., 1320 Kifer Road, Sunnyvale, CA 94086




**Thank you for your order!**

Your Name	Phone ( ) -	Date	Disc Size: _____ 5.25" _____ 3.5"
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Product Number	Description	Quantity	Unit Price	Amount
1			*	*
2			*	*
3			*	*
4			*	*
5			*	*

Tax Exempt?  No  Yes  
 Tax Exempt or Resale Number \_\_\_\_\_

Subtotal	*
State/Local Taxes	*
<b>TOTAL</b>	*

<b>Ship To</b> Company _____ Attn Of _____ Bldg/Room _____ Street Address _____ City _____ State _____ Zip _____		<b>Payment Method</b> <input type="checkbox"/> Purchase Order (Number _____) <input type="checkbox"/> Check Enclosed (Payable to Hewlett-Packard Co.) <input type="checkbox"/> Credit Card (Check one, provide all information, and sign) <div style="display: flex; justify-content: space-around;"> <div> <input type="checkbox"/>  </div> <div> <input type="checkbox"/>  </div> <div> <input type="checkbox"/>  </div> </div>	
Special Shipping Instructions _____ Standard Shipping Method is UPS Surface		Account No. _____ Expiration Date _____ Name on Card _____ Address _____ Signature _____	

Use this form for prepaid U.S. orders only

POD 1/84

## Change of Address Form for *Communicator* Subscribers

If the information on your *Communicator* mailing label is no longer correct, please let us know. Fill in this form and mail it to Hewlett-Packard, Subscriptions Marketing Department, P.O. Box 60008, Sunnyvale, CA 94088 U.S.A. Allow 6-8 weeks for change to take effect.

*(please print)*

**Old Address:**  
(attach mailing label or fill in information as it appears on mailing label)

Name \_\_\_\_\_ (Title) \_\_\_\_\_

(Company) \_\_\_\_\_

Address \_\_\_\_\_ (Bldg No./Mail Stop) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_

**New Address:**  
(exactly as it should appear on the mailing label)

Name \_\_\_\_\_ (Title) \_\_\_\_\_

(Company) \_\_\_\_\_

Address \_\_\_\_\_ (Bldg No./Mail Stop) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_



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Context MBA™ is a trademark of Context Management Systems.  
CP/M® is a U.S. registered trademark of Digital Research.  
dBase II™ is a trademark of Ashton-Tate.  
Diagraph™ and Picture Perfect™ are U.S. trademarks of Computer Support Corporation.  
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Dow Jones News/Retrieval Service® is a U.S. registered trademark of Dow Jones & Co. Inc.  
Dow Jones Spreadsheet Link™ is a U.S. trademark of Dow Jones & Company, Inc.  
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