

September/October 1988

- Master Index
- MS-DOS 3.3
- PageMaker 3.0

For users of
HP Personal Computer
Products

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Late-breaking news on HP personal computer products

The following **technical reference manuals** for the **HP Vectra ES** are now orderable:

- o HP Vectra ES Hardware Technical Reference Manual, Product Kit Number 5061-8982 (includes binder and manual).
- o Vectra System BIOS Technical Reference Manual, Product Kit Number 45945-60031 (includes binder and manual).

To have a complete set of the technical reference manuals, you should order both product kit numbers from your local dealer or HP sales representative.

You can now order the new version of **Condor 3**, release 2.20, for the Touchscreen/150. Condor 3 is a fully relational database management system for novice computer users. The new release features many enhancements, including speed increases of 200 percent or greater, improved sub-directory support, and expanded indexing capabilities. In addition, it comes with a totally rewritten User's Manual and Reference Guide.

Owners of previous Condor 3 versions can update to the new release. For more information on Condor, contact Condor Computer Corporation, 1490 Eisenhower Place, Ann Arbor, MI 48108 Telephone (313) 971-8880 in the U.S.

The **HP Vectra CS PC Technical Reference Manual** is now available. This comprehensive guide contains detailed technical information on the HP Vectra CS PC's hardware and system firmware. Areas covered include hardware specifications, system schematics, timing diagrams, and the BIOS programming interface.

The HP Vectra CS PC Technical Reference Manual (HP D1100-90001) is available from your local dealer or HP sales representative.

The **Portable Vectra CS Carrying Case** is now available. You can transport your HP Portable Vectra CS PC, recharger, and documents safely and easily in a padded case. The case comes with both a padded shoulder strap and a leather-bound carrying handle. Dimensions are 14 1/2 inches (height) by 19 1/2 inches (width) by 4 1/4 inches (depth). To order this product, call your local dealer or HP sales representative, and ask for HP Product Number 35178D.

Here are the current **Touchscreen/150** software version numbers.

HP Product Number	Product Description	Version	Site Licensing Available
45418	Executive MemoMaker	C.03.00	Yes
45421	Executive Card Manager	A.02.02	Yes
45431	AdvanceLink	A.04.04	Yes
27505	HP Word/PC	A.02.00	Yes
45411	Drawing Gallery	B.03.00	No
45513	Charting Gallery	B.03.00	No
45437	Gallery Collection	B.03.00	Yes
45444	Execudesk	A.03.00	No
45566	Lotus 1-2-3	2.01	No

Aldus Corporation's **PageMaker (R) 3.0** (HP 45964A) is now available. If you have PageMaker, version 1.0a, you can upgrade to version 3.0. If you purchased PageMaker before May 1, 1988, refer to the two-part "PageMaker for the PC" order form that you received with your purchase. If you ordered PageMaker after May 1, 1988, you will receive the upgrade automatically from Aldus Corporation. If you live outside of the United States, please contact your local HP sales office for information on upgrades.

Articles from the *HP PC Communicator* are automatically carried in the HP Forum on the CompuServe Information Service. If you have thought about submitting an article, but have been hesitating because your article contained large amounts of source code, you can now submit your article, and the source code will be available on CompuServe. For more information on CompuServe, turn to "Answers to Your Questions" in the Current Information green pages.

Starting with this issue, you will find something new in the yellow pages of the HP PC Communicator -- a master index of all major articles from previous issues.

We hope this will help in the retrievability of information contained in earlier issues. As always, we look forward to your comments, and we thank you for your continued support.

The HP PC Bugline

Latest information about HP PC questions, problems, and solutions

Q: How can I see what is on my **PageMaker** pasteboard?

A: PageMaker versions 1.0a and 3.0 have an undocumented page view called "Fit in World." This feature is helpful if you have temporarily placed text and graphics files on your pasteboard. The "Fit in World" view displays the entire surrounding pasteboard, as well as the pages you're working on. To access this view, press CTRL, SHIFT and W simultaneously, or hold down the Shift key while you select "Fit in Window" from the Page menu.

Q: When I send my **PageMaker** document to the LaserJet to print, it seems to take a long time before there is activity on the printer. Am I doing something wrong?

A: The reason is that your document prints to the Windows spooler before it goes to the LaserJet. If you want to print directly to the printer, you can turn the Windows spooler off in the WIN.INI file, and thus improve your printer performance.

Q: When I use **Drawing Gallery** on my Touchscreen/150, the "Get a Picture" function takes quite long, and my screen displays @:s on the right side where the drive names should be. What can I do about this?

A: You probably have Drawing Gallery installed in a sub-directory whose path name is longer than 18 characters (for example A:\Graphics\Drawing). The solution is to shorten your path name.

Q: When I use **Drawing Gallery** on the Touchscreen/150 with an HP 7475A plotter, I sometimes get extraneous lines in my drawing. How can I fix this?

A: You can go into Device Configuration in Drawing Gallery and set the XmitPace and RecPace to Xon/Xoff. This will solve the problem.

Q: I am experiencing problems when I print from **Executive Card Manager** to an HP LaserJet printer. Specifically, the first card or page of a report prints fine, but then succeeding pages begin to drop lower down on the page as if the print is "sliding" off the bottom of the page. What can I do?

A: You need to modify the Lines Per Page setting in Executive Card Manager's Printer Setup menu to 60 (the default setting is 66). The HP LaserJet printer prints 60 lines per page. You can find more information on this in the Executive Card Manager manuals.

Q: What is the minimum memory required on my Touchscreen/150 to run **Lotus 2.01**?

A: 384 KB.

Q: I received an I/O card parity interrupt xxxx:xxxx error when working on my **Lotus 1-2-3** spreadsheet. What caused this?

A: The I/O parity interrupt error occurs when there is a hardware problem with the memory chip located at address xxxx:xxxx. If you receive this error, you may want to contact your dealer or HP service representative.

Q: Does **Graphics Gallery**, version B.03.00, support the HP SketchPro Graphics Tablet?

A: Graphics Gallery supports the Sketch Pro Graphics Tablet only as a mouse. That is, the cursor placement is relative, not absolute.

Q: I installed **HP Word/PC**, version A.02.00, on an HP Vectra ES with the HP Vectra PC keyboard/DIN (Product Number C1406A Option ABA). The ten function keys on the left side of the keyboard do not function properly and I can't perform the printer attend functions. What is wrong?

A: This situation will occur if you have disabled the extended BIOS on the HP Vectra ES. If you are not familiar with turning on the extended BIOS, contact your dealer or HP support representative.

Q: When I try to place a **WordPerfect 5.0** document in PageMaker 3.0, I get distorted characters in PageMaker. What causes this?

A: The WordPerfect document filter for PageMaker was written for WordPerfect version 4.2. Version 5.0 file format has changed and is no longer compatible with the existing filter. Aldus Corporation and WordPerfect Corporation are working together to create a new filter. A workaround is to save the WordPerfect 5.0 document in 4.2 format.

Q: What are the system requirements to install a 3.5-inch flexible disc drive (HP 45813A) on an original (that is pre-CS, -ES and -RS) HP Vectra PC?

A: You must upgrade to MS-DOS 3.2 or 3.3. The drive comes with device drivers and a new version of SETUP which allows you to configure the 3.5-inch drive. If you already have MS-DOS 3.2 or 3.3, you should keep in mind that version B.01.02 or later is required to format 1.44 MB discs.

Q: I have installed **MultiMate Advantage II** on my HP Vectra RS PC. When I start the software, I hear repeated beeping and the message "Invalid Selection" flashes at the bottom of the screen. If I try to create a document, I see erratic cursor movement on the screen. What is wrong?

A: You need to disable MultiMate Advantage II Keyboard Acceleration. To do this you need to run UTIL.EXE that is included with your MultiMate software. The following steps will help you do this.

1. Change to your MultiMate subdirectory and run UTIL.EXE.
2. Press the space bar to select the MODIFY CONSOLE DEFAULTS option.
3. Press F10. This displays the console defaults screen.
4. Use your cursor control keys to go to the KEYBOARD ACCELERATION field. Press the spacebar to toggle this field to OFF.
5. Press F10.
6. Press ESC to exit UTIL.EXE.

Q: I have a **VGA monitor**, but my old version of SETUP doesn't give me a choice to select VGA. Which option should I choose?

A: Simply choose the "EGA, PGC or similar card" setting. This setting indicates to the PC that the video card has its own ROM BIOS, as opposed to the Monochrome card that does not have a ROM BIOS. Newer versions of the SETUP program have been revised to include the VGA card as one of the choices.

Q: When I try to bring **Windows 2.0x MS Paint** files into PageMaker I get the error message "Do not know how to place file xxxxxx", where xxxxxx is the file that I am trying to place.

A: When a file is changed in Windows 2.0x MSPaint, it is automatically changed to a Windows 2.0x format which will not be accepted by PageMaker. Therefore you must convert the file back to a Windows 1.0x format. The file can be converted to this format by using the CNVPaint.exe file in Windows 2.0X. When using this utility you must type the file extension on both the File Convert From and File Convert To. For example: File to Convert From: c:\scangal\image.MSP, File to Convert To: c:\scangal\image1.MSP.

Q: Can you give me some pointers on **PageMaker** software compatibility?

A: Here are a few quick points which you may find helpful.

- o For PageMaker 1.0 and 1.0a to work under Windows 2.0 or Windows/386, you must run your fonts through the font conversion utility called NEWFON.EXE. This utility can be found on the "Fonts 1" disc of your Windows software. For information on running this utility refer to your "Getting Started with Microsoft Windows and Your HP Vectra PC" handbook.
- o PageMaker 3.0 requires Windows 2.0 or Windows/386 to run.
- o Earlier versions of Bitstream Fontware do not work with Windows 2.0. The version supplied with PageMaker 3.0 does.
- o The Bitstream Fontware supplied with PageMaker 3.0 will only work with PCL printers, not with PostScript.

Q: I am running **AdvanceLink**, version B.01.00, on the **Portable Vectra CS**, and I want to access the serial port as COM2. In the Global Config Screen I set the Remote To field to "Serial 2". However, when I press Save Config, I get the following error message "Fatal: Internal Stack Failure, System Halted."

A: Perhaps your mouse driver is being automatically loaded from your CONFIG.SYS file. If this driver is being pointed to COM2 as the mouse port, this would cause a conflict. If you remove the mouse driver from your CONFIG.SYS file and restart your system, everything should work properly.

The **Enhanced Graphics Adapter Users' Manual**, (HP 45983-90001, revised 6/87) states in the Card Setup section that jumper SL8 should be set on pins one and two. This is incorrect. The SL8 jumper should be set on pins two and three, which is how it is set when shipped from the factory. You do not need to change the jumper settings from their factory default positions for use on any of the HP Vectra PCs.

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.

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.

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:

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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.

Now on CompuServe

Articles appearing in the *HP PC Communicator* are also carried on the CompuServe Information Service. For more information, see "Answers to Your Questions" (Step 2) in the Current Information green pages.





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How To Transfer a Lotus 1-2-3 Graph Into an HP Gallery File

Patrice Henline

You can create a graph in Lotus 1-2-3, version 2.01, and then bring it into HP's Drawing or Charting Gallery, version B.03, to be enhanced. Using Gallery enhancements you can change colors, fonts, textures, and letter sizes. You can also add text or pictures to the graph.

In Lotus, you can create line, bar, XY, and stacked bar graphs and pie charts. Charting Gallery has a large selection of graphs which include vertical or horizontal clustered or stacked charts, line, XY, and pie charts, and scattergrams. When you transfer a Lotus graph into a Gallery file, you have the option of bringing the graph into Gallery as a different type of graph or chart. The following steps describe the process of creating and transferring a Lotus graph into Gallery.

1. Create the graph in Lotus using **/Graph**. Choose the graph type X and ranges A-F. The X range indicates labels for the points along the X (horizontal) axis. Ranges A through F show the data values.
2. Name the graph using **/Graph Name Create (Filename)**. This saves the current graph settings under a graph name and attaches the graph as part of the worksheet which may have many named graphs already associated with it. Data in the graph will change when the corresponding worksheet cells are changed, because the data range specifies only the location, or cell address, not the cell contents.*
3. Quit the Graph menu, return to the File menu, and save the worksheet using **/File Save (Filename)**. If you do not save the worksheet, the newly named graph will not be saved. The file name can be the same or different from the name you gave the graph.
4. Exit Lotus and load either Drawing Gallery or Charting Gallery. When you bring the Lotus file into Gallery, you load the worksheet which already contains the named graph.

If you load **Drawing Gallery**:

- Press **File Keys (F1)**, **Get Keys (F1)**, then **Get a Worksheet (F3)**.
- Select the worksheet and then the graph that you named within it. At this point you can also choose the chart type. You can then make your enhancements.

If you load **Charting Gallery**:

- Select either Bar, Pie or Line charts.
- Select the **Get and Save Menu (F4)**. Enter the name of the worksheet file, then press the **Get Worksheet** key (F6). Select your graph and press **Get Graph (F1)**.
- Press **Get and Save (F8)** and then press **Charting Main (F8)**.
- Press **Edit and Draw (F3)** and the graph you created in Lotus will appear on the screen. Now you can make your enhancements.

When you bring a Lotus graph into Gallery, enhancements may not look exactly the same as they did in Lotus. Gallery transfers titles, legends and labels along with the pie, bar or line chart. However, the font, text sizes, textures, and colors are automatically substituted in Gallery.

Also, Lotus orders its pie charts in a clockwise direction, beginning at 12:00, while Gallery orders its segments in a counter-clockwise direction, beginning at 3:00. You can rotate or flip the pie chart in Gallery to make it look like the Lotus chart.

*Do not save the Lotus graph in the graph menu using **/Graph Save (Filename)** because this saves it as a .PIC file which is used in Lotus' Printgraph program to print or plot the graph. If you save the graph as a .PIC file, it will not be attached to a worksheet, and you will not be able to access it later. Therefore, when you bring the worksheet into Gallery without a named graph, Gallery will not know that the graph exists. A "named" graph (**/Graph Name (file name)**) will change when the worksheet data changes; a "saved" graph (**/Graph Save (file name)**) will not change as it is only a snapshot of a graph.







A new PCL/LaserJet printer driver, HPPCL.DRV, for Microsoft Windows applications is available with PageMaker 3.0 (HP 45964A). If you use this new driver for all of your Windows applications, you will find that using fonts is very easy.

The driver contains the soft font installer which is a new feature of PageMaker 3.0. For other Windows applications, you can access the soft font installer through the Control Panel. The soft font installer allows you to add and delete soft fonts, or copy soft fonts to another printer port. It even edits the WIN.INI file for you.

To access the soft font installer through PageMaker 3.0:

1. Select "Printer Setup" under the File Menu
2. Click on Setup
3. Click on Fonts

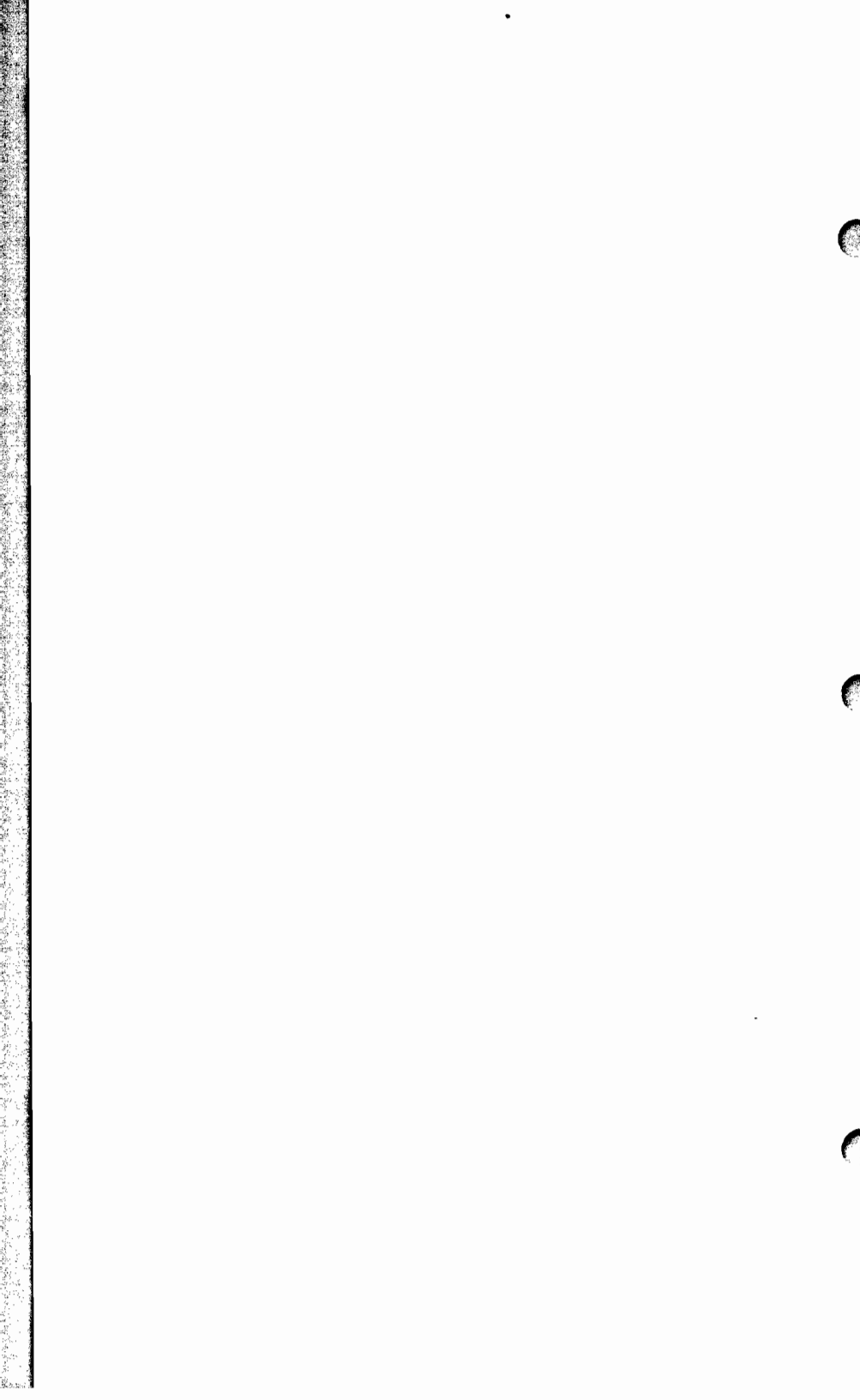
Please note that you can click on "Fonts" only if you have installed a printer that can accept downloaded (soft) fonts, and have chosen it as your target printer. Otherwise the "Fonts" button won't appear on the screen.

To access the soft font installer through Windows:

1. Run the Control Panel by double-clicking on CONTROL.EXE
2. Select "Add Fonts" or "Delete Fonts" under the Installation Menu

You must remove any old drivers before you install the new one. Driver installation and removal is done under the Installation Menu of the Windows Control Panel.





Have you ever wanted to generate a composite image from two or more pictures, or combine a picture with graphics created in Graphics Gallery? You can do that electronically now by using the ScanJet desktop scanner and Scanning Gallery.

The procedure for generating a composite image is as follows:

1. Graphics from Graphics Gallery must be converted to a TIFF file in Graphics Gallery. This file can then be imported into Scanning Gallery in the same manner as a file that was created by Scanning Gallery. To create a TIFF file in Graphics Gallery, select function key **F2 Drawing keys**, then **F1 Draw to TIFF**.
2. Scan the images to be combined. Use the **Preview Scan** and choose only what you want to use. Scale the images in the **Final Scan** as required.
3. Scan a white area large enough to be the background for the images. You can simply do a **Preview Scan** with no document on the copyboard of the scanner, and define the area you will need. It doesn't have to be exact, as you can crop it after you have composed your composite image.
4. Open a second Image Editor window by pulling down the System Menu in the Image Editor window and selecting **Image Editor**.
5. Select the new Image Editor window, pull down the File menu and select **Open**. Choose one of the image files that will be a part of the composite image.
6. Perform any desired cropping or cutting on the image.
7. Pull down the Edit menu and choose **Select All**.
8. Pull down the Edit menu again, and select **Copy**. This will place a copy of the image on the clipboard.
9. Choose the initial Image Editor window—the one with the background.

10. Pull down the Edit menu and choose **Paste**. The image you copied will now appear in the background image. Position this image to the desired location.
 11. Return to the second Image Editor and repeat steps 5 through 10 for all images to be incorporated into the composite.
 12. Crop or cut the composite image as required, then save your composite image file.
-



Creating a professional looking document in AdvanceWrite Plus with a proportional font and justified text can sometimes require additional effort. Here are a few tips that may help you.

Determine the text font you will use for the body of your document and set up the first Format Line to reflect your left and right margins, based on this font size. Set your pitch to 0.

AdvanceWrite Plus calculates the position of the right margin in your document based on the font specified in the text immediately following the Format Line. Therefore, if the proportional font you have selected has a larger point size, you will have a wider right margin than if you selected a font with a smaller point size.

If you want to use a large font for a centered title on the first line of your document and a font with a smaller point size for the text, here is what you need to do:

1. Set up your Format Line.
2. Place a Wheel Change mark for the font you will use for the text in the body of your document immediately following your first Format Line.
3. Follow this mark with a space.
4. Put your Wheel Change mark for the large font for the title after the space.
5. Type in your title.
6. After the title, on the next line, put in the Wheel Change mark for the font you have selected for your text.

The beginning of your AdvanceWrite document would then look like this:

FORMAT LINE

_____ L _____ T _____ T _____ T _____ R _____
Wheel Change Mark for text for body Space Wheel Change Mark for Title font
TITLE
Wheel Change Mark for text for body

The reason you should do it this way is that if your first Wheel Change mark after the format line is for the large font for the title, AdvanceWrite will calculate the right margin based on this font. Even though you entered another Wheel Change mark after the title for a smaller font for the text in the body, the right margin will still be very wide, and AdvanceWrite will put a lot of space between words to justify the text.

When you have completed your document, you may want to microjustify the text. This means AdvanceWrite will space the words evenly when the document is printed. Space between characters will not be affected. To microjustify, go to the second screen of Print Options, and set the following option: **Print density N C L (L)**

Select L (Normal, Correspondence, Letter) for Letter quality, even though you may be using an HP LaserJet as your printer. This L selection tells AdvanceWrite to microjustify the text in your document.

Before printing, you may want to hyphenate your document through the Spelling Check option. This will minimize the white space between words.



- Q: Do you want to repeat the last AdvanceWrite command you performed?**
- A: Simply hold down the **Ctrl** key and press the **=** key simultaneously. AdvanceWrite Plus will repeat the last command you gave it.
- A note of warning—AdvanceWrite will repeat everything in the command from the time you touched a function key to the end of the command. For example, if the last thing you did was to proofread a document, and you decide to proofread another one, you wouldn't want to use the **Ctrl =** command to start again. AdvanceWrite would use the same choices for adding, editing, and skipping words that you used the last time.
- Q: Do you want to recall the last file name you entered for retrieving a document, without typing it in?**
- A: Press the **Save & Display** key and then the **Document** key, and the last file name you entered will be displayed.
- Q: Do you know how to connect two words that you don't want split between two lines?**
- A: Place a **Connect Space** between the two words and they will never be split. To make a Connect Space on the pre-ES Vectras, hold down the **Ctrl** key and press the space bar; on the HP Vectra and ES, CS, and RS select **Do** and the space bar.
- Q: Have you ever tried to put a carriage return at the end of a line and it didn't work?**
- A: This may be caused by a blank space at the end of the line. To delete the space and place a carriage return at the end of the line, hold down the **Ctrl** key and press **Enter**.
- Q: Do you know how to place a carriage return at the cursor and delete all the characters to the end of that line?**
- A: Hold down the **Ctrl** key and press **Enter**. AdvanceWrite will place a carriage return at the position of the cursor and delete the remaining characters on that line.

Q: Have you ever created a long footnote and then wanted to move it to a different page in the document?

A: Here is an easy step by step method for moving the footnote:

1. Place your cursor under the "fff" and press **move**.
2. Press the **document** key and then the **enter** key to move the footnote to a temporary file.
3. Shade the text. You will find that your cursor has moved to the first character in the line where the "fff" is located. Use your **Line** key (**Prt Sc** key on the pre-ES Vectras and the "-" key in the number pad on the HP Vectra ES, CS, and RS) to shade the entire line. Since you are moving to a file, you have to do it by line. It is not possible to move just a character or a word.
4. Press **Enter**.
5. Position the cursor on the page and the line where you want to move the footnote.
6. Hold down **Ctrl** and press **Insert**.
7. Press the **Document** key (for the temporary file) and then the **Enter** key.
8. Choose the default (**N**) for No on the format option, and press **Enter** again.

Your footnote has been moved. Now you need to make any adjustments to the text in the line you have inserted with the "fff" and you are done!

Q: You have a document set up with side by side columns. You need to delete a line or several lines of text across all the columns, but the delete key will only shade and delete the text in one column at a time. What do you do?

A: Here's how to delete lines of text across all columns in a document that has been set up with side by side columns:

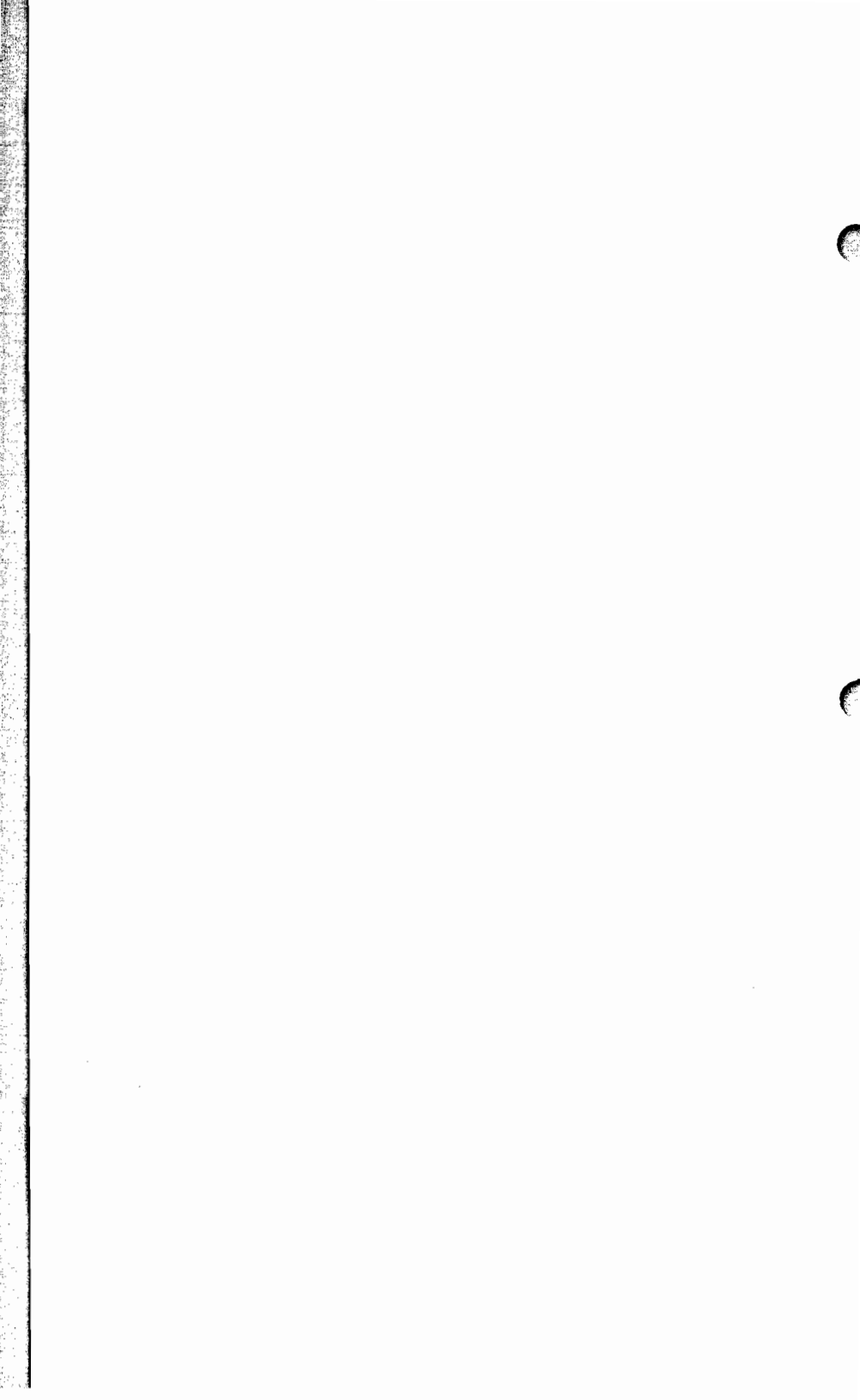
1. Press the **Move** key.
2. Press the **Document** key and then the **Enter** key (for a temporary file).
3. Shade the lines you want to remove and press **Enter**.

The line or lines have now been deleted from the document.

Q: Have you ever wanted to indent both the left and right margins of a paragraph in your document, without creating another format line?

A: Just press Do and then Tab. Your text will be indented at the left and right margins automatically, based on the left tab. You can also right justify the indented text. The automatic indent is turned off when you enter a carriage return.





When you are creating a document in AdvanceWrite Plus, you may sometimes want to put instructions or important information into a box. You can do this and still edit and justify your text, by following the steps shown inside the box:

1. Using the **Format Line** command, set your Right and Left Margins indented slightly from your normal margins. For example, if your normal margins are 10 and 75, you should set your left margin at 12 and your right margin at 72.
2. You may also want to set a Tab setting so you can use Indent when typing text.
3. Type your text.
4. Set a new Format Line with margins a few spaces wider than your text. In this example, if your text was typed with margins of 12 and 72, set your new margins at 10 and 75.
5. Count the total number of lines, including any blank lines you may want at the top and bottom of the text. Add 1 to this number.
6. Using the **Line Drawing** feature of AdvanceWrite Plus, draw a line down the left margin equal to one or two lines greater than your total number of lines and spaces in the text you want to enclose in a box. Draw the bottom line across the page to the right margin, up the right margin, and finally, across the top to close the box.
7. Place your cursor on the top line of the box. Press **Mark**, then **Up**, then enter the total number of lines you calculated in Step 5 and press **Enter**.

Notes:

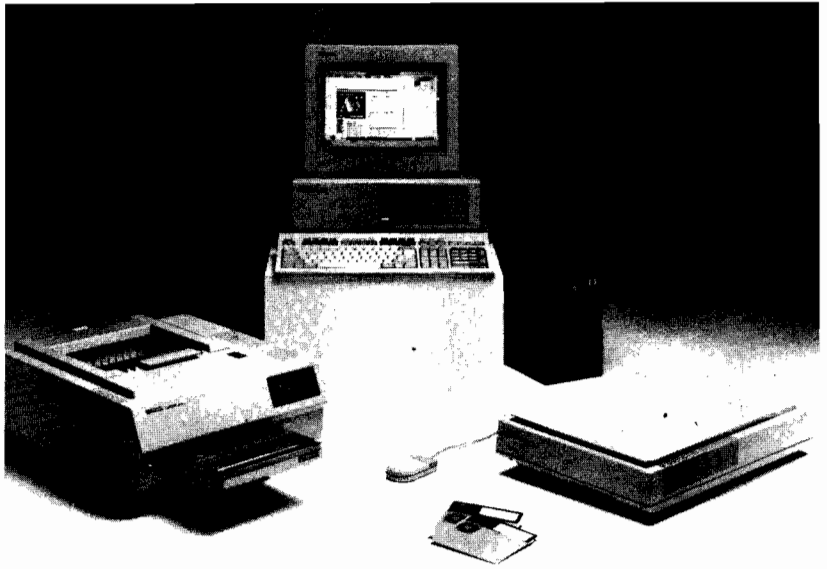
- You may have to modify the Mark Up command slightly to give you the best vertical centering with the box. You can also increase the vertical size of the box to give you an extra blank space at the top and the bottom.
- Your printer must be able to do reverse indexing. If your printer does not scroll back when given a Mark Up command, it will not be able to do this application.

- Pitch spacing for the box must be fixed (10 or 12 pitch). Your text portion, however, may be in proportional spacing.
 - If your text is lengthy, you may have to use continuous form paper to allow the paper to scroll back in the printer.
 - During Repage, AdvanceWrite correctly calculates page breaks, taking into account the Mark Up commands in your document.
-



Have you ever wanted to capture a screen on the HP 3000 and import the data to a PageMaker publication? You can transfer data from HPDesk or any other HP 3000 application to PageMaker. All you need is PageMaker 3.0, Windows (version 2.0 or above), and AdvanceLink. Here are some steps to follow.

1. Run AdvanceLink (you must have version B.01.00 or later) through Windows and run your HP 3000 application.
2. Get the AdvanceLink Control Menu by clicking in the upper left corner of the screen or by pressing **Alt** plus the **spacebar** on the keyboard. Select "Mark."
3. Drag the mouse, or hold down the Shift key and use the arrow keys to highlight the portion of the screen you want to copy into PageMaker.
Note: If your HP Mouse will not highlight data on your screen, the HP Mouse driver MOUSE.SYS is not installed on your system.
4. Get the AdvanceLink Control menu again and select "Copy." The portion of the screen you highlighted will be copied to the Windows Clipboard. You can verify this by running Clipboard through Windows or through the Control Panel in PageMaker.
5. If PageMaker is already running, context switch to it by pressing **Alt** plus **Tab**. If it is not running, context switch to MS-DOS Executive in Windows and run PageMaker.
6. Select the Text tool and click an insertion point on the page where you would like to paste the data. Select "Paste" from the Edit menu and the data you copied from your HP 3000 application will appear in your PageMaker document.
7. If the text looks compressed or expanded, you may need to change the font. This can be done as follows:
 - a. Using the Text tool, click an insertion point anywhere in the text.
 - b. Choose "Select all" from the Edit menu to highlight the text.
 - c. Choose "Type specs" from the Type menu to get a list of available fonts.
 - d. Select a font. (Courier and Lineprinter work well.)
 - e. The highlighted text will appear in the new font.



Instead of sending your PageMaker publication directly to a printer, you can print your publication to a disc and then print it later using MS-DOS commands. Printing publications to a disc is useful in a variety of situations:

- When your system doesn't have a printer, or your printer doesn't have enough memory, you can print your publication on a different system that has a printer with sufficient memory.
- When you want to take your publication to a service bureau for printing on a high-resolution typesetter.
- When you want to transmit your publication using a modem.

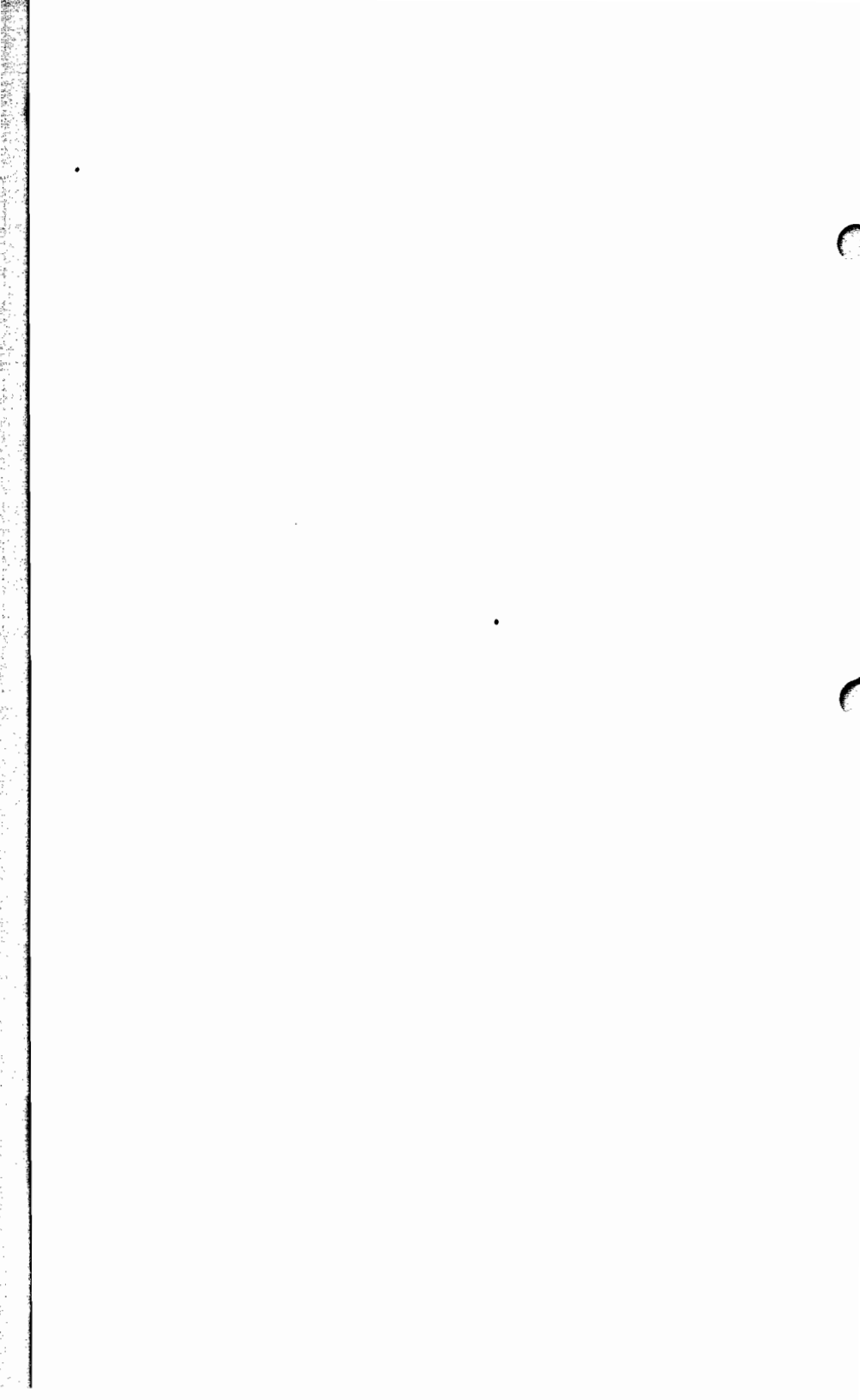
To print a publication to disc, edit your WIN.INI file to add a printer port called **OUTPUT.PRN**. Then assign the target printer in PageMaker to this port. When you're ready to print, simply choose the Print... command, and PageMaker will print the publication to the printer port OUTPUT.PRN, which is actually a file on your disc. In fact, PageMaker copies everything necessary to print the publication, including linked graphics and temporary soft fonts. The OUTPUT.PRN file can then be copied to a flexible disc for printing on another system. Use the MS-DOS COPY command to print the file as a binary file to the printer you want, for example:

A> COPY OUTPUT.PRN/B LPT1:

Before you print a file to disc, keep the following points in mind:

1. If your publication uses soft fonts, PageMaker will copy all temporary fonts to the disc with the publication. Any permanent soft fonts must be downloaded to the printer before you print the publication. Also, appropriate cartridges must be plugged into the printer if your publication uses any cartridge fonts.
2. If your publication uses a lot of soft fonts or graphics files, the publication may be too large to fit on a single flexible disc. When this happens, you can split up your publication by printing a few pages at a time. After you print part of the publication, be sure to rename the OUTPUT.PRN file on your hard disc so PageMaker doesn't erase what you've already printed to disc.





Here is an update to an article in the *HP PC Communicator Issue #25 Encyclopedia Section*, titled "HP Graphics Gallery and PageMaker." The article mentioned problems that occur when attempting to resize TIFF files from Graphics Gallery in PageMaker.

When you resize an imported graphic, you can keep the original proportions as you change the overall size, or distort proportions by stretching and compressing the graphic. If you distort the proportions, you may end up with jagged lines, uneven patterns, and illegible text, but the choice is yours.

Paint-type (bit-mapped or raster) graphics may look distorted when resized, but they print correctly because the screen and printer have different resolutions. If you resize to make the paint-type graphic display correctly on your screen, it may look distorted when printed.

To help you resize paint-type graphics so that they print optimally, PageMaker supplies built-in standard reductions and enlargements that depend on the resolution of your target printer.

Use the following instructions for optimal results.

CTRL = Compatible, but not Proportional

While dragging to resize, hold down the **CTRL** key. As you approach a standard size, the pointer will "snap to" that size. You can either use that size or continue to another. However, the graphic may not be proportional to its original size.

Although it is guaranteed to print correctly, the graphic may appear distorted on the screen, due to different printer and screen resolutions.

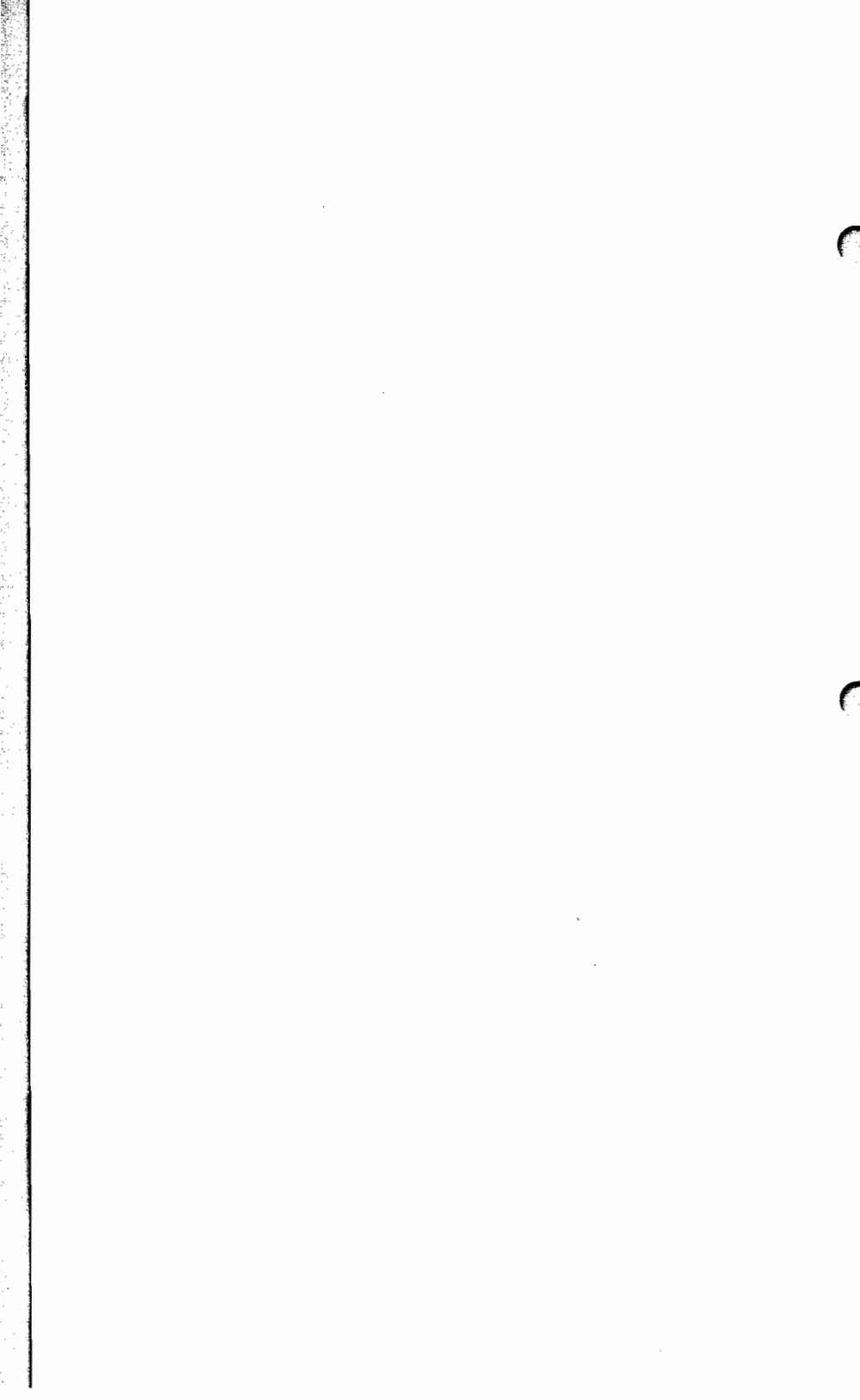
SHIFT CTRL = Compatible and Proportional

If you hold down the **SHIFT** and **CTRL** keys while you drag to resize, the graphic will "snap to" a size that is both proportional to its original size and compatible with the printer resolution. Thus the graphic will look correct both on the screen and after printing.

Restoring to Original Proportions

To restore a graphic to its original proportions, click on the graphic to select it. Hold down **SHIFT** and click on one of the graphic's square handles. The graphic will return to its original proportions, although not necessarily its original size.

□



Can AdvanceLink be configured so that you can access two different host systems, run applications on both systems, and have the capability to context switch between these applications quickly and easily?

The answer is yes. Described below are two different methods to accomplish this task. For both methods you should complete the following steps.

1. Install AdvanceLink version B.01.00 into two different sub-directories on your personal computer called ADV1 and ADV2. AdvanceLink in sub-directory ADV1 will access COM1 and AdvanceLink in sub-directory ADV2 will access COM2. Change the Remote To fields in the Global Config screen to reflect the proper COM port in use.
2. Disable the Data Comm device driver GDCA.COM. To do this, edit the file CONFIG.SYS and delete the line DEVICE=GDCA.COM. Also, check to make sure that the FILES= is set to a high number like 40 or 50.

Method 1

Using Windows 2.0

In order to use Windows to context switch between two AdvanceLink applications, use the PIFEDIT.EXE file in Windows to modify the ADVLINK.PIF file and create two new PIF files called ADV1.PIF and ADV2.PIF. These will access AdvanceLink in the ADV1 sub-directory and the ADV2 sub-directory respectively. The PIF files will look like this:

Program Name: ADLINK.EXE
Program Title: (you can put any name you want here, for example, HOST1 for ADV1)
Program Parameters: ADVLINK;LIB = TEMPO.LIB,SYSLIB.SLK
Initial Directory: C:\ADV1 (for ADV1) / C:\ADV2 (for ADV2)
Directly Modifies: COM1 (for ADV1) / COM2 (for ADV2)

Do not change the other fields. Save these PIF files under their respective names. Run ADV1.PIF to get into AdvanceLink on COM1. Press ALT and ESC simultaneously to context switch back to MS-DOS Executive. Run the other PIF file, ADV2.PIF to get into AdvanceLink on COM2.

To context switch back to ADV1, press the **ALT** and **TAB** keys simultaneously and continue to hold down the **ALT** key. A highlighted banner will appear at the top of the screen which shows the Program Title of an application to which you can immediately context switch. Keep pressing the **TAB** key until you see the Program Title you gave for ADV1 (for example HOST1), then release the **ALT** key to context switch to that program.

Method 2**Using AdvanceLink's Context Switching Capability**

Complete the following steps, using AdvanceLink version B.01.00.

1. Run AdvanceLink in the ADV1 sub-directory.
2. In AdvanceLink press the **Command** key.
3. Press the **DOS Command** key.
4. Type **COMMAND** to get back to the MS-DOS prompt.
5. At the MS-DOS prompt type **CD \ADV2** to change directories.
6. Run AdvanceLink in the ADV2 sub-directory.
7. To context switch from ADV2 to ADV1 press **ALT** and the **left Shift** key simultaneously.



The HP portables have several keys which are slightly more difficult to "trap" than others. They are the **Menu**, **User/System**, and **Break** keys. Instead of generating an escape sequence like the other special keys, these three keys generate an interrupt. Here are some hints on how you can take control of these keys so you can use them in your own Turbo Pascal programs.

First, here is a general definition of "interrupt." For computers, interrupts have approximately the same meaning as they do for people. When an interrupt occurs, it will cause the computer to suspend whatever it is doing, switch to something else, and then resume where it left off. The keyboard is a good example. We can enter keystrokes into the type-ahead buffer while the computer is working on something else.

In order to take over an interrupt, several things must be done. First, an interrupt handler must be written. An interrupt handler is a section of code which MS-DOS will execute when the specified interrupt occurs. DOS needs to know the location of this interrupt handler. From then on, any time the interrupt occurs, your interrupt handler will be invoked.

One of the problems in taking over an interrupt is that you must preserve the state of the computer. Since you are interrupting what the computer is supposed to be working on, you must save all the registers and restore them again when you are done. This also means that executing much Turbo Pascal code is next to impossible. What you do then is just set a flag and handle the interrupt in your normal program.

Below is a sample program that takes over the three keys which generate an interrupt. The program simply prints the name of the key you pressed. It also demonstrates how to get and set the interrupt vectors, as well as how to write a handler.

```
program intdemo;
  const breakint = $58; {interrupt number for the break key}
        userint = $57; {int number for the user/system key}
        menuint = $56; {interrupt number for the menu key}
  type regpac = record
    ax,bx,cx,dx,bp,si,di,ds,es,flags: integer;
  end;
  interrupt__type = (nointr,break,user,menu);
```

```

var oldbreakseg, {variable to save where the interrupts}
    oldmenuseg, {are already pointing to}
    olduserseg,
    oldbreakoffs,
    oldmenuoffs,
    olduseroffs : integer;
interrupta : interrupt__type;
interrupt : interrupt__type absolute 5659:586;
{**the following procedure gets the value of an interrupt vector}
Procedure Get__vector(vnum:integer;Var Vseg,vofs : integer);
    Var register : regpac;
begin
    Register.ax:=3500 or vnum; {call func $35}
    Msdos(register);
    With register do begin
        vseg:=es;
        vofs:=bx;
    end;
end;
{****procedure set an interrupt vector****}
Procedure Set__vector(vnum,vseg,vofs :Integer);
    Var register : regpac;
begin
    With register do begin
        ax:=2500 or vnum;
        dx:=vofs;
        ds:=vseg;
    end;
    MSDOS(register);
end;
{**the next three procedures are our interrupt handlers.**}
procedure breakint__handler;
begin
    inline($50/$53/$51/$52/$57/$56/$06/$FB); {save registers}

    interrupt:=break;
    inline($07/$5e/$5F/$5A/$59/$5B/$58/$CF); {restore registers}
end;
procedure userint__handler;
begin
    inline($50/$53/$51/$52/$57/$56/$06/$FB); {save registers}
    interrupt:=user;
    inline($07/$5e/$5F/$5A/$59/$5B/$58/$CF); {restore registers}
end;
procedure menuint__handler;
begin
    inline($50/$53/$51/$52/$57/$56/$06/$FB); {save registers}
    interrupt:=menu;
    inline($07/$5e/$5F/$5A/$59/$5B/$58/$CF); {restore registers}
end;

```



```

{**this procedure is called when our program notices that an **}
{**interrupt has occurred.**}
procedure process__interrupt;
begin
  case interrupt of
    break : writeln('Break');
    user  : writeln('User/system');
    menu  : writeln('Menu');
  end;
  interrupt:=nointr;
end;
begin
{****main*****}
  {**first find out where the interrupt vectors are**}
  {**presently pointing to.**}
  interrupt:=nointr;
  get_vector(breakint,oldbreakseg,oldbreakofs); {break key}
  get_vector(userint,olduserseg,olduserofs); {user/system key}
  get_vector(menuint,oldmenuseg,oldmenuofs); {menu key}
  {**set vectors to point to our interrupt handler**}
  set_vector(breakint,cseg,ofs(breakint__handler)+7);
  set_vector(userint,cseg,ofs(userint__handler)+7);
  set_vector(menuint,cseg,ofs(menuint__handler)+7);
  writeln('Ready! Press either Menu, user/system, or Break. ');
  {**wait for an interrupt. this is where the main program would be.**}
  {**The interrupt will interrupt this part of code. We also need to**}
  {**check our flag that shows whether we've had an interrupt or not.**}
  repeat
    if interrupt( )nointr then process__interrupt;
    delay(200);
  until keypressed; {press a key to end the program}
  {**reset the vectors to where they pointed to before we**}
  {**got started**}
  set_vector(breakint,oldbreakseg,oldbreakofs);
  set_vector(userint,olduserseg,olduserofs);
  set_vector(menuint,oldmenuseg,oldmenuofs);
end.

```

You will notice one curious thing about this program and that is the variable interrupt. The variable interrupt is absolutized to a memory location. This memory location happens to be in the same spot as the variable interrupt. This is done because when you are inserted into your interrupt handler, Turbo Pascal has no idea where any of its variables are at that time. The only thing it can do, as far as I know, is reference a variable that has been absolutized to a particular memory location. To find out what location to use, just use the following Pascal statement in your program:

```
writeln(seg(interrupta),':',ofs(interrupta));
```

You can then use the printed values for declaring the variable interrupt. This statement will then no longer be needed.

This should be enough information to get you into using those keys. One recommendation is that when you start working on this, be sure to back up your A disc. If you have a problem in your program, you can unknowingly write over the Edisc and lose everything.

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JetScript (HP 88141A) is a PostScript accessory kit for the LaserJet Series II printer. Here are some questions and answers about this product.

Q: Within my application software, which PostScript printer drive should I select?

A: If there is a JetScript driver specified, select it. If not, select the Apple LaserWriter Plus. The Apple LaserWriter driver may also be selected. However, this selection will allow you to access only 11 of the available internal fonts. The JetScript driver and the Apple LaserWriter Plus support 35 internal fonts.

Q: Are there any known accessory boards or monitors that will conflict with the installation of the JetScript controller?

A: Some accessory boards or monitors may cause problems. Hard disc controller cards in some IBM-compatible XT personal computers use address 3BCh. The Wyse and Genius monitors must also be configured at address 3BCh. In these cases, the only option remaining is to configure the JetScript controller to use address 378h.

Q: Which fonts are pre-cached for use by JetScript?

A: Courier 10 point (full ASCII set), Times-Roman and Helvetica 10, 12 and 14 point (alphanumerics and common punctuation), and Times-Roman bold and Helvetica bold 10, 12 and 14 point (lower case letters only).

Q: How can I learn more about PostScript programming?

A: The following commonly used reference books are available at most local book stores:

- PostScript Language Tutorial and Cookbook, Addison-Wesley Publishing Co. Inc.
- PostScript Language Reference Manual, Addison-Wesley Publishing Co. Inc.

In addition, Adobe Systems Inc. offers training in PostScript programming. For more information, contact Adobe Systems Inc. at 1585 Charleston Road, Mountain View, California 94039-7900 (Telephone 415-961-4400); or at One New England Executive Park, Burlington, Massachusetts 01803 (Telephone 617-273-2120).

Q: Can I print a standard ASCII file to my JetScript device?

A: Not directly. You can print a file to a JetScript device only if the file contains PostScript formatting commands. The easiest way to print standard ASCII files is to use your existing PCL connections to the LaserJet printer.

Q: Can I download Adobe downloadable fonts to JetScript?

A: Yes, but only by using the special JETFONTS.EXE font loader in JetScript. The JETFONTS program is automatically installed into the \QMSJS subdirectory.

To access these additional fonts through PageMaker, you must have PageMaker's latest PostScript driver dated 5/12/87 or later.

Q: What is the EPT device?

A: The EPT device is a unique output device similar to LPT1 or COM1. When output is directed to the EPT device, it will automatically search for and send the output to the PostScript device, which may actually be on LPT1, LPT2 or LPT3. It might be used as follows:

COPY SAMPLE.PS EPT:

Q: With PostScript I can scale fonts to any size I want. Does this mean that I can access all of these different sizes from my application software?

A: Not necessarily. In most software application packages you are limited to the typefaces, point sizes and treatments defined within the printer driver.

For more information on JetScript, refer to the article "JetScript for the LaserJet Series II Printer" in this issue.



Q: Can I print labels with the HP LaserJet?

A: Yes, HP sells adhesive labels for all its LaserJet printers except the LaserJet 2000.

Q: What sizes of labels are available through HP?

A: There are many sizes available. The product numbers and sizes follow:

HP Product Description

92285K	1 x 2¾ inches, 100 sheets, 33 labels per sheet
92285L	1¾ x 2¾ inches, 100 sheets, 25 labels per sheet
92285M	2¾ x 4¼ inches, 100 sheets, 8 labels per sheet
92285W	8½ x 11 inches, 100 sheets, 1 label per page
92157K	1 x 2¾ inches plus top and bottom page borders, 100 sheets, 30 labels per page
92157N	1½ x 2¾ inches plus top and bottom page borders, 100 sheets, 21 labels per page
92157P	2 x 4½ inches plus top and bottom page borders, 100 sheets, 10 labels per page

Q: Can I use third party labels in my HP LaserJet?

A: HP does not support the use of third party labels in its LaserJet printers. HP's labels can withstand the heat generated in the fusing process. Also, HP's labels are arranged so they cover the entire carrier page with no spaces in-between the individual labels. Spaces between the labels can cause the labels to peel off during the printing cycle.

Q: How can I get more information on media for the HP LaserJet family?

A: There are paper specification guides available. The LaserJet II Paper Specification Guide (HP 5954-7339) and the LaserJet 2000 Paper Specification Guide (HP 5954-8953) have more information. These can be ordered by calling Literature Ordering at (800) 752-0900 in the U.S., or by contacting your local HP sales representative.

Q: How can I get more information on media for the HP DeskJet?

A: The DeskJet Paper Specification Guide (HP 5954-9951) has more information. This can be ordered by calling Literature Ordering at (800) 752-0900 in the U.S., or by contacting your local HP sales representative.



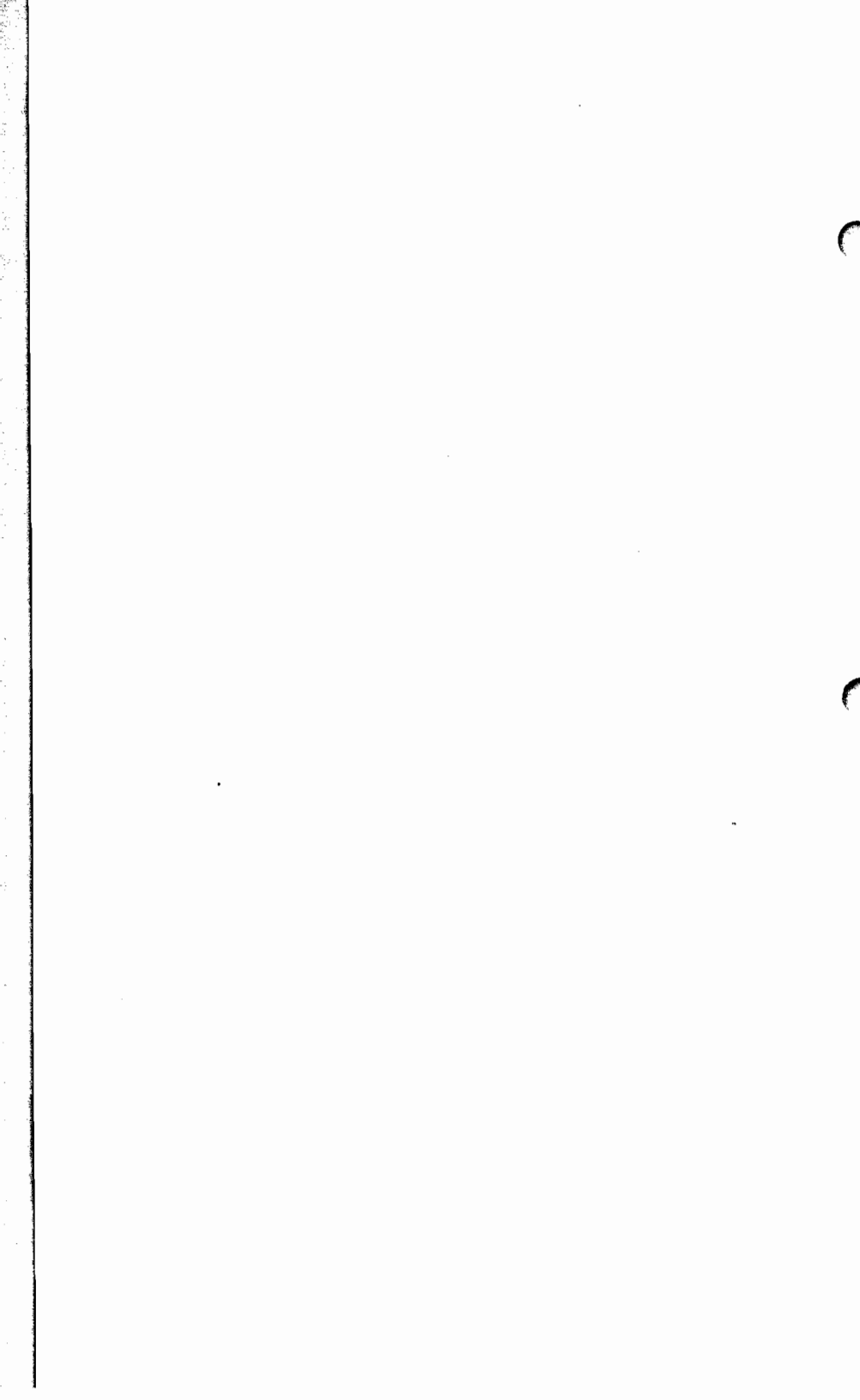
Did you know you can send escape sequences to an HP LaserJet printer using Edlin's Control V] command in MS-DOS? The following instructions explain how this is done.

In Edlin (the line editor in MS-DOS) the escape code is sent by holding down the **Control** key and pressing **V**, then pressing the **[** key. **V]** will be displayed on the screen. The remainder of the escape sequence is entered in ASCII format.

1. Type **EDLIN LAND.PRN** and press **Return**. An asterisk (*) will appear. **LAND.PRN** is the name of the file.
2. Type **I** to insert a line
3. Press the **CTRL** key and **V** simultaneously, then type **[&l10** to specify landscape mode. Press the **Return** key.
4. Press the **CTRL** key and **V** simultaneously, then type **[&k2S** to specify compressed print. Press the **Return** key.
5. Type **This is landscape, compressed** and press the **Return** key.
6. Press **CTRL** and **C** simultaneously to end the Insert Commands mode and an asterisk (*) will appear.
7. Type **E** to exit and save the file.
8. Type **COPY LAND.PRN LPT1:** and press the **Return** key to send the file to the printer.

Note: A carriage return and a line feed are sent automatically at the end of each line. There is no way to suppress this. Do not reset the printer's front panel. Press the Form Feed key on the front panel to form feed the paper. Note that **CTRL V]** commands may be doubled on the same line.

□



The following questions and answers pertain to the HP Video Graphics Adapter (HP D1180A and Option 1A7).

Q: Why is register level compatibility important?

A: There are two ways in which an application can communicate with a video card, namely, via the card's BIOS, or directly to the registers/memory on the card. Applications which write to the video BIOS are dependent on the card only to provide BIOS and write directly to the card's registers and memory locations. Only cards which provide register level compatibility are able to run these applications.

Q: Why would I want to purchase the HP video graphics adapter with additional memory (HP D1180A Option 1A7)?

A: The additional memory (total of 512 KB) available with Option 1A7 gives you access to the 640 x 480 with 256 color mode. Also, as the PC video industry matures, the demand for resolutions, performance, and number of available colors on screen increases. The additional RAM delivered with Option 1A7 may provide some or all of these benefits as future software is written to take advantage of it.

Q: Why is there no upgrade kit to convert the standard 256 KB version of the HP D1180A into the Option 1A7, 512 KB version?

A: Increasing the RAM on the board at a later date would have required the presence of sockets on the card. Sockets have been proven to be a major source of reliability problems. HP therefore decided not to offer an upgrade kit.

Q: The use of the 800 x 600 graphics and 132 column text modes on the HP video graphics adapter is specified to require a multi-frequency monitor. Why can't the HP VGA monitors be used for these modes?

A: Both of these modes would operate VGA monitors at input frequencies which are beyond their rated specifications.

Q: What is the advantage of the 16-bit bus interface?

A: You can transfer data/instructions from main system memory to the video card in 8-bit or 16-bit moves. If you move the data 16-bits at a time you can move twice the data in the same amount of time. Therefore, you will greatly improve video throughput/performance.



HP Vectra PC: 3.5-inch Internal Disc Drive and 720 KB discs

Steven Michalove

The 3.5-inch Internal Disc Drive (HP 45813A), when installed on the original HP Vectra personal computers, has intermittent problems with discs formatted on the Touchscreen/150. This problem relates to the device driver INDSKBIO.SYS, versions B.01.01 and lower.

The following HP Vectra PCs are affected: HP 45920, HP 45925, HP 45935, HP 45940, HP 45945A. The problem does not occur in the HP Vectra CS, ES, and RS systems.

Problem



If you have one of the original HP Vectra PCs, and if your Vectra is using the 3.5-inch driver INDSKBIO.SYS version B.01.01 or lower, there is a potential problem reading and writing 720 KB discs that have been formatted on an HP 150. The problem could show up as an excessive amount of retries, or you may not be able to read the disc at all on the HP 150 after one write. However, the disc may still be read by the HP Vectra. This problem is exceedingly intermittent.

Warning

Before implementing the solution to this problem, you should make a backup of all suspected discs on your hard disc or on a 1.2 MB flexible disc. After implementing the following solution, the suspect discs can no longer be read by the Vectra 3.5-inch drive.

Solution

The 3.5-inch Internal Disc Drive is now being shipped with the new device driver, version B.01.02. However, if the new driver is not available to you, you can do the following:

1. Change the device driver options in your CONFIG.SYS file to the following:

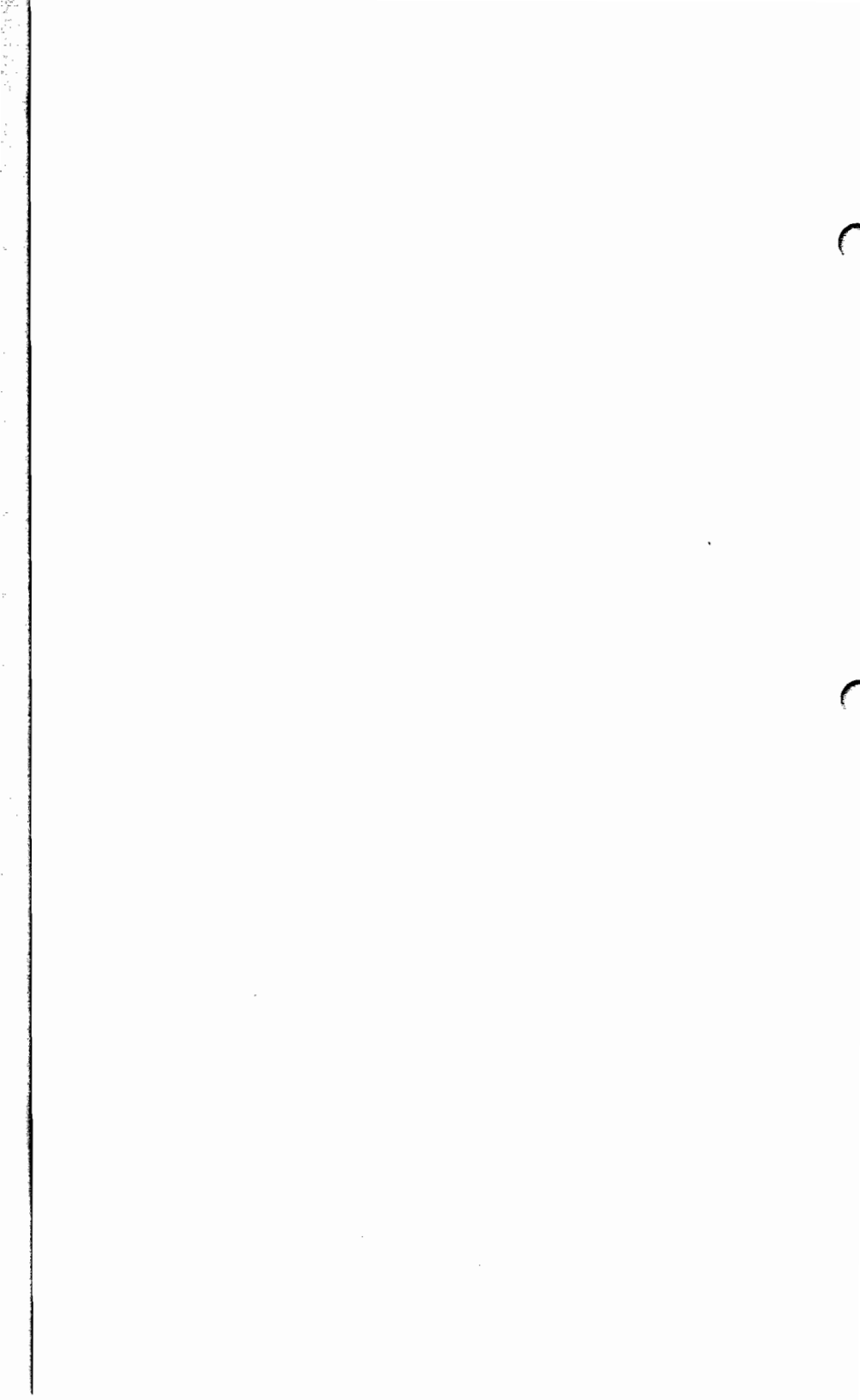
```
DEVICE = INDSKBIO.SYS /D:1 /AT0  
(/AT0 reads /ATzero.)
```

This option forces a BIOS-driven double reset on your disc drive.

2. Restart your HP Vectra PC by holding down **Ctrl** and pressing **Alt** and **Delete** at the same time.
3. Reformat your suspect discs, as they are no longer reliable.

For further information you can refer to your *Installation Guide, Manually Installing the Driver for the 3.5-inch Drive*, Page A-1.

□



HP Vectra PC Family: Microsoft MS-DOS 3.3 Now Available

Miles Mikasa

MS-DOS 3.3 Available

The U.S. and localized versions of the new Microsoft MS-DOS 3.3 for the HP Vectra Personal Computer are now available.

MS-DOS 3.3 is the latest version of Microsoft's operating system for personal computers. It is a superset of MS-DOS 3.2 and includes enhancements which

- improve the speed of disc file access
- increase flexibility to support non-English languages
- allow hard disc partitioning from within MS-DOS (HP's MS-DOS 3.2 kit has a Multi-Voluming Utility which performs the same function)
- make it easier to shift control between batch files

HP's MS-DOS 3.3 offers value beyond the standard MS-DOS product, including the Personal Applications Manager, File Manager, Multiple Character Set Utilities, and support for the HP Touchscreen 710 Kbyte flexible disc format.

The following MS-DOS 3.3 products can now be ordered:

<u>5.25 inch</u>	<u>3.5 inch</u>	<u>Country</u>
45951D	45951E	United States
45951DC	45951EC	French Canada
45951DD	45951ED	Germany
45951DE	45951EE	Spain
45951DF	45951EF	France
45951DH	45951EH	Netherlands
45951DM	45951EM	Latin America
45951DN	45951EN	Norway
45951DP	45951EP	Switzerland-German
45951DQ	45951EQ	Switzerland-French
45951DS	45951ES	Sweden
45951DU	45951EU	United Kingdom
45951DW	45951EW	Belgium
45951DX	45951EX	Finland
45951DY	45951EY	Denmark
45951DZ	45951EZ	Italy

**MS-DOS 3.2
discontinuance plans**

The following HP Vectra PC MS-DOS 3.2 products will be discontinued on January 1, 1989.

5.25-inch discs:

<u>HP Product</u>	<u>Country</u>
45951B	U.S.
45951BD	Germany
45951BE	Spain
45951BF	France
45951BH	Netherlands
45951BM	Latin America
45951BN	Norway
45951BP	Switzerland-German
45951BQ	Switzerland-French
45951BS	Sweden
45951BU	United Kingdom
45951BW	Belgium
45951BX	Finland
45951BY	Denmark
45951BZ	Italy

3.5-inch discs:

45951C	U.S.
45951CD	Germany
45951CE	Spain
45951CF	France
45951CH	Netherlands
45951CM	Latin America
45951CN	Norway
44951CP	Switzerland-German
45951CQ	Switzerland-French
45951CS	Sweden
45951CU	United Kingdom
45951CW	Belgium
45951CX	Finland
45951CY	Denmark
45951CZ	Italy

**MS-DOS 3.1
discontinued**

The MS-DOS 3.1 products for the HP Vectra PC listed below have been discontinued effective June 1, 1988. The Arabic version of MS-DOS 3.1 HP 45951AV, will continue to be sold because it does not have an MS-DOS 3.2 or 3.3 replacement.

The MS-DOS Programmers' Reference (HP 45962A) has been discontinued effective June 1, 1988 because it is used with MS-DOS 3.1. The replacement product is MS-DOS 3.2 Programmers' Reference (HP 5061-8971).

<u>HP Product</u>	<u>Country</u>
45951A	U.S.
45951AD	Germany
45951AE	Spain
45951AF	France
45951AH	Netherlands
45951AM	Latin America
45951AN	Norway
45951AP	Switzerland-German
45951AQ	Switzerland-French
45951AS	Sweden
45951AU	United Kingdom
45951AW	Belgium
45951AX	Finland
45951AY	Denmark
45951AZ	Italy
45962A	MS-DOS (3.1) Programmers' Reference

To Order

To order, contact your dealer or HP sales representative.



NewWave Office

File Edit Items View Settings Task Help

File Drawer Waste Basket Printers Agent Diagnostic AdvanceLink Info Access

Mail Room

ALTO

ALEGRPH

Agent's Desk (Agent's Desk)

ACTIVITIES LIST

Task Calendar (Task Calendar)

OCTOBER 1988

SUN	MON	TUES	WED	THURS	FRI	SAT
						1
2	3	4	5	6	7	8
9	10					
16	17					
23	24					
30	31					

THURS, OCTOBER 6, 1988

File Edit View Help

Task Title	Event
Sales Report	12:00
Forecast Report	13:00
Monthly Update	15:30

What is HP NewWave?

HP NewWave is a complete end-user and application environment that provides a single window, or view, into an organization's entire network of information and computing resources. This environment is based upon Microsoft's "window" graphical interface and is designed to allow the end user to focus on completing tasks rather than using tools. The HP NewWave environment is the workstation portion of HP's next generation office automation offering. Specifically, HP has created the Object Management Facility (OMF) as an extension to industry standard MS-DOS and Microsoft Windows 2.0. The OMF, while completely transparent to the user, tracks all "objects," where any data or combination of data can be treated as an object. For example, text, voice, graphics, scanned images, spreadsheets, or data tables are data types which can be managed by the OMF in the HP NewWave environment. These many different types and sources of data can be linked, combined, or manipulated in a seamless way, allowing the user to learn and work in only one environment yet still have the advantages of a powerful networked system.

HP NewWave Developer Kit

The HP NewWave Developer Kit (HP D1701A) for the original HP Vectra (pre-CS), the Vectra ES, and the Vectra ES/12 is available. To run HP NewWave on the original HP Vectra, you must have firmware release A.01.06 or later, and MS-DOS 3.2 release B.01.01 or later.

The HP NewWave Developer Kit contains all the HP components needed to write applications for this new environment. It includes the following HP NewWave environment software, software development tools and documentation.*

Software

- HP NewWave Environment
- Sample NewWave developer applications
- Diagnostic tools
- Software Libraries
- Utilities

Documentation

- HP NewWave Environment:

Programmer Guide
Program Design Examples
Programmer Reference Manual
User-Interface Design Rules
Writer Style Guide

***Note:** The NewWave Developer Kit does not include the Microsoft Windows 2.0 Development Kit or the Microsoft C Compiler (version 5.0). These two products are available through Microsoft and are supported through Microsoft only. Only the NewWave Developer Kit is supported through Hewlett-Packard.

To Order**HP Product Number Description**

D1701A	HP NewWave Developer Kit
Option ABA	U.S. Version
Option AA9	5.25-inch discs (1.2 MB format)

For more information, contact your local dealer or HP sales representative.

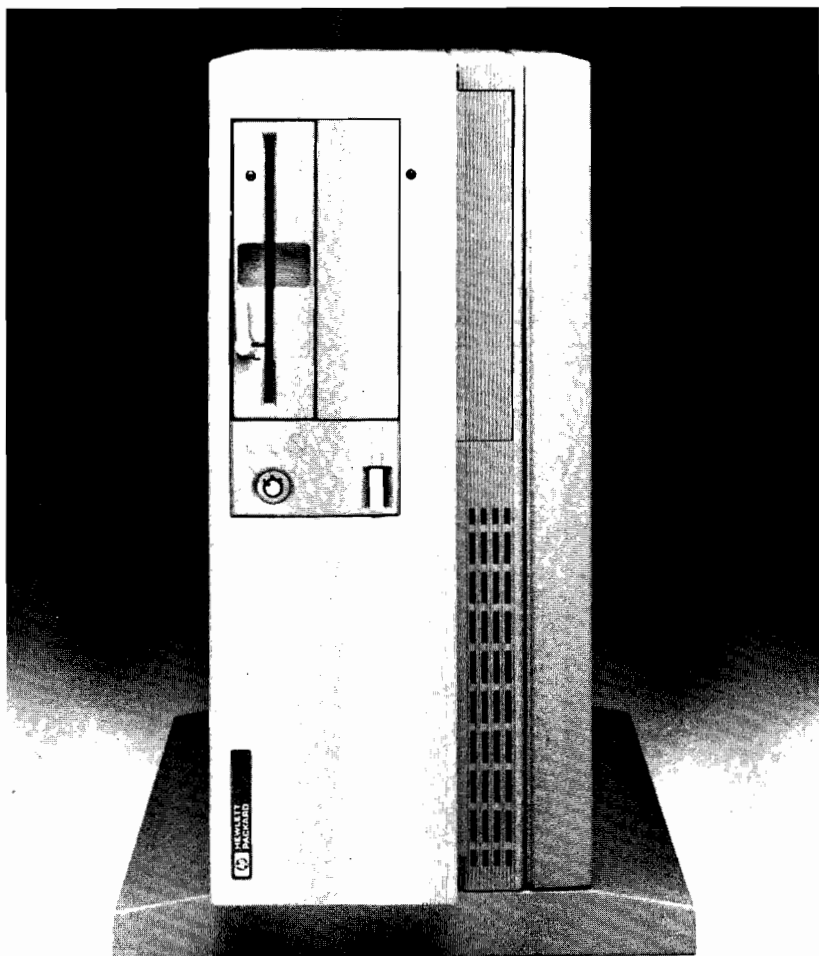
AdvanceMail Version 2 for the HP Vectra PC family (HP 25735F) is now available. AdvanceMail version 2 includes the following enhancements and performance improvements:

- Faster file transfer through the use of NETMODE.
- Improved function key layout. You can carry out tasks using fewer keystrokes.
- Word processing application integration. You can now run word processors from within AdvanceMail.
- Browsers for reading word processing documents. You can read HP Word/PC, AdvanceWrite Plus, DCA and Executive MemoMaker documents without invoking the word processing application, and print out the documents as ASCII text.
- Set and track acknowledgements on messages.
- Wastebasket.
- Multiple connection files.
- Support for basic serial connection files. You do not need to use AdvanceLink.
- Enhanced batch transfer. You can send and receive at different times.
- Mouse support.
- Sendspec/Recvspec. You can send and receive files directly from the application.
- Runs on 1.44 MB flexible disc machines. A hard disc is no longer required.

To Order

If you would like more information on this version of AdvanceMail, contact your local HP sales representative.





HP Vectra Floorstand Accessory Now Available

Carlos Dominguez

Save Desk Space

With the HP Vectra Floorstand Accessory (HP 45989A) for the desktop HP Vectra personal computers, you can save desk space and still enjoy the power and speed of your personal computer. This accessory gives you an added measure of flexibility to customize your HP Vectra PC configuration to meet your individual requirements.

This upright floorstand accessory allows you to store your desktop personal computer underneath your desk, but keep your display and keyboard within easy reach on your desk top.

The HP Vectra Floorstand keeps your HP Vectra PC well supported with a wide, tilt-resistant base. A panel covers the bottom of your PC to give your system a finished look. The floorstand colors and textures are designed to match your PC.

Since your HP Vectra PC's internal accessories such as hard disc drives, flexible disc drives, and accessory cards are designed to operate both vertically and horizontally, using the vertical floorstand will not harm your system components.

Extension Cables

Since the distance you place your HP Vectra Floorstand and HP Vectra PC from your desk top can vary, here is some information on cable lengths for your display systems and input devices.

Some systems and configurations may require an extension cable in order to position the Vectra on the floor, and the monitor or other device on the desktop. All extension cables are separate products, and must be purchased separately. All monitors must use the standard long (or attached) power cord, not the convenience cord that plugs into the back of the HP Vectra PC. Please check the list below for your configuration.

Extension Cables for Use With the HP Vectra Floorstand Accessory

Device	Standard Cable	Extension Cable	Total Length
Extension cable required:			
Multimode Display System†	3 ft .9 m	HP 45741A* 10 ft 3 m	10 ft 3 m
Multimode Color Display System†	3 ft .9 m	HP 45742A* 10 ft 3 m	10 ft 3 m
Monochrome Plus Display System†	3.5 ft 1 m	HP D1030A 5 ft 1.5 m	8.5 ft 2.5m
Extension cable optional:			
Enhanced Graphics Display System	5 ft 1.5 m	HP D1030A 6 ft 2 m	11 ft 3.5 m
Video Graphics Subsystem (VGA)	3.5 ft 1 m	HPD1184A 5 ft 1.5 m	8.5 ft 2.5 m
HP Mouse	5 ft 1.5 m	(N/A)	5 ft 1.5 m
Other HP-HIL Devices	6 ft 1.8 m (coil extended)	HP 46020-61601* 8 ft 2.4 m (straight)	8 ft 2.4 m
Vectra CS, ES keyboards	5 ft 1.5 m (coil extended)	(N/A)**	5 ft 1.5 m (coil extended)

*This extension cable replaces the standard cable sold with the device.

**Hewlett-Packard does not currently offer an extension cable for this device. However, industry-standard extension cables are available from other sources. Hewlett-Packard does not support, and has not tested, these cables.

†Hewlett-Packard does not recommend using the Floorstand with devices having a cable length of less than 5 ft (1.5 m). Use of an extension cable is required with these devices.

To Order	HP Product	Description
	45989A	User installable HP Vectra Floorstand. Installation manual included.
		Overall Dimensions: height 450 mm (17.7 in.) width 295 mm (11.6 in.) depth 370 mm (14.6 in.) mass 4.0 kg (8.8 lb)
		To order, contact your dealer or HP sales representative.

If you were interested in HP's RuggedWriter 480 printer, but needed six-part form capability, the following enhanced RuggedWriter 480 models have six-part form handling: HP 2235A, 2235B, 2235C, and 2235D. The enhanced six-part form version of the printer replaces the four-part form version at the same price.

The new HP RuggedWriter 480 printer can print on six-part forms up to .018 inches (.46 mm) thick. A six-part form includes the original and five copies, plus carbons if used. If you are using thicker forms, the HP 293X printers can print on six-part forms up to .02 inches thick.

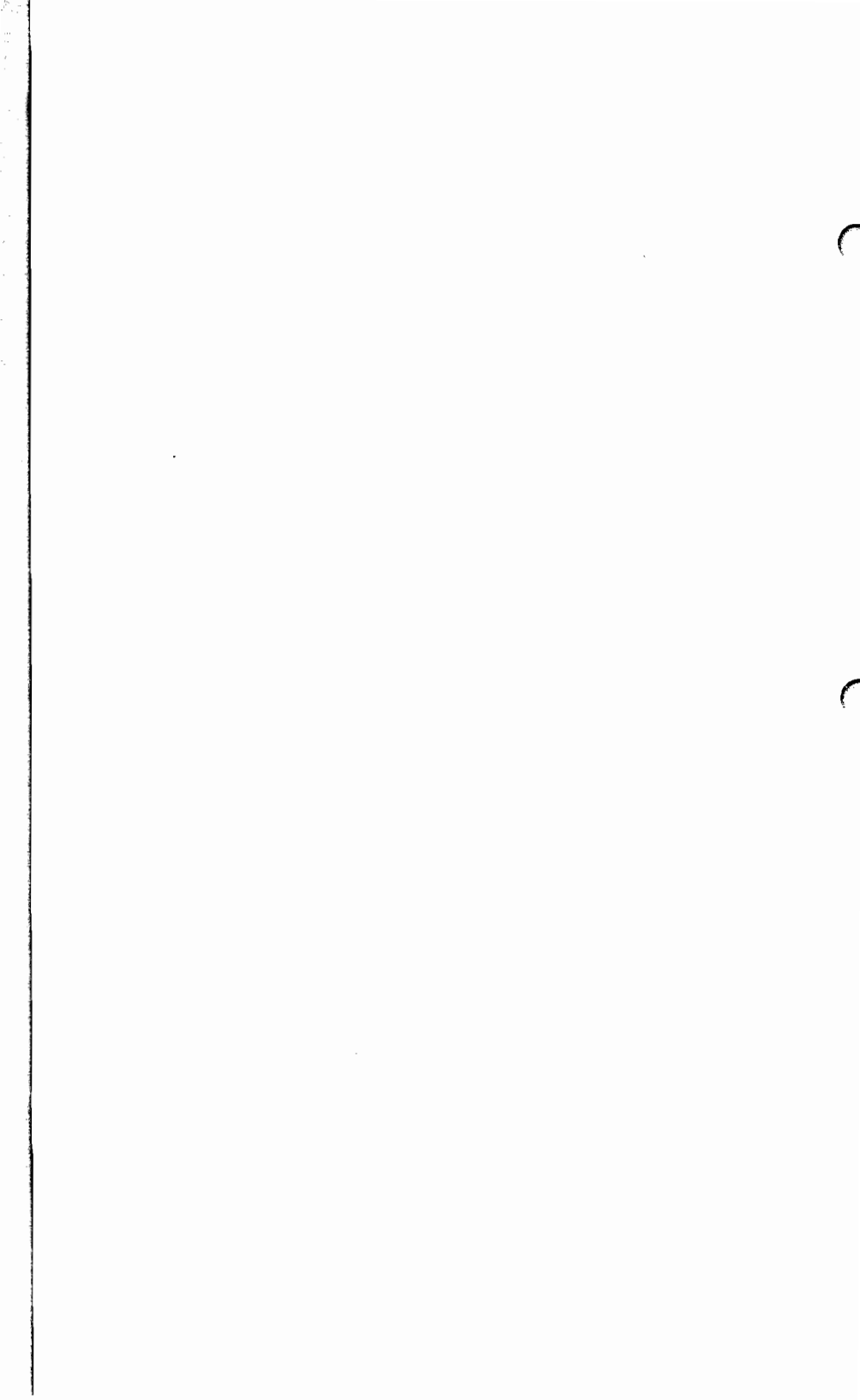
All printers currently shipping are the enhanced six-part versions and have the following serial numbers or higher.

<u>HP Product</u>	<u>Serial Number</u>
2235A	2812A-10156
2235B	2812A-01619
2235C	2812A-04924
2235D	2811A-01225

No upgrade kits or trade-in programs are available for the original HP RuggedWriter 480 printers that print on four-part forms.

To order, contact your dealer or HP sales representative.





The HP-HIL Accessory Interface card (HP D1171A) for the HP Vectra CS PC has been available since May 1, 1988. This accessory card allows HP-HIL pointing devices to be connected to the HP Vectra CS PC. It also enables certain software applications to access some advanced features of the Multimode Video Adapter (HP 45981A), notably 640 x 400 display resolution.

This article discusses supported configurations and devices for the HP-HIL Accessory Interface. In addition, it explains a difference between the functionality provided by this card and the built-in HP-HIL support on other HP Vectra PCs.

Configurations

The HP-HIL Accessory Interface is supported on all models of the HP Vectra CS PC. It is not supported on non-HP computers, nor is it supported on other HP Vectra PCs, which have HP-HIL support built in. Because accessory cards for the HP Portable Vectra CS PC use a different connector, the HP-HIL Accessory Interface will not work in the HP Portable Vectra CS PC.

Devices

The HP-HIL Accessory Interface supports most HP-HIL input devices. One exception is the HP-HIL keyboard for the original HP Vectra PC, which is not supported on any of the new HP Vectra PCs. Supported devices include the HP Mouse (HP 46060A), the HP Graphics Tablet (HP 45911A), the HP Touchscreen Plus (HP D1183A), and the HP-HIL Bar Code Reader (HP 92916A). In addition, devices which emulate an HP Mouse or HP Graphics Tablet are supported, including other HP-HIL tablets, the button box, and the 9-knob box.

**Different From Other
HP Vectra PCs**

On the pre-ES HP Vectra PC, the HP Vectra ES and ES/12 PCs, and the HP Vectra RS/16 and RS/20 PCs, the HP Mouse emulates the keyboard's cursor keys by default. This means that with many applications, including MS-DOS, the HP Mouse moves the cursor, and so the application seems to support a mouse. Because of differences in the system architecture, the HP-HIL card for the HP Vectra CS PC does NOT provide cursor-key emulation. However, applications which provide true mouse support such as Personal Applications Manager, the Gallery Collection, Executive MemoMaker, and Microsoft Windows, get the same level of mouse support on the HP Vectra CS PC with the HP-HIL card.

Reminders

The following notes apply to all HP Vectra PCs and are included here for the sake of completeness.

- Some applications require the HP-HIL Mouse and Pointing Device Driver to support the HP Mouse. This driver is included with the HP-HIL Accessory Interface.
- Except for the HP Mouse and HP Graphics Tablet, most HP-HIL devices (such as the HP-HIL Bar Code Reader) require a special driver, or they work only with applications that support them explicitly, such as HP Touch. This is still true with the HP-HIL Accessory.
- Multimode's high-resolution display modes are used only by applications that support them explicitly, even with the HP-HIL Accessory Interface card. For example, Drawing Gallery, Charting Gallery, Executive MemoMaker, AdvanceLink, and the HP Terminal Program display graphics at a resolution of 640 x 400. AdvanceLink and the HP Terminal Program can show 26 lines of characters, allowing 24 lines for text and two for soft keys. Most other applications do not make use of these higher resolutions. However, because it uses a special video driver, Microsoft Windows 2.0 Presentation Manager for the HP Vectra PC (HP 45954B) will display at a resolution of 640 x 400 with the Multimode Video Adapter, regardless of whether the HP-HIL card is installed.



HP StarLAN 10: a new LAN link for the OfficeShare Family of Networking Software

Alexa Ford, Sue Haynes

HP StarLAN 10 is HP's newest local area network (LAN) that transmits data at 10 Mbps over unshielded twisted-pair wire. HP StarLAN 10 networks strengthen HP AdvanceNet's offering of scalable, flexible networking solutions by now allowing IEEE 802.3 and Ethernet local area networks to operate over unshielded twisted-pair wire.

StarLAN 10 complements the current OfficeShare StarLAN product by providing a solution for environments where additional bandwidth is required such as those with a large number of nodes, heavy network traffic, or use of high-performance workstations. If you currently use StarLAN, HP has provided an upgrade path so you can migrate to StarLAN 10 if required.

StarLAN 10, when combined with the HP OfficeShare family of networking software, provides PC users in business office environments with a complete high-speed networking solution. PC users of OfficeShare software may use StarLAN 10 to integrate into a network that provides transparent access to HP's distributed data processing applications and office productivity services on HP 3000 computer systems. HP OfficeShare software provides disc and file sharing and printer and plotter sharing with spooling on PC or HP 3000 servers, as well as file transfer and terminal access to HP 3000s, HP 1000s, and HP 9000s. StarLAN 10 will be supported on the full range of HP 3000 machines (both MPE V and XL) running NS/3000 release 1.1. StarLAN 10 is also available for the HP 150 Touchscreen PC in North America only.

Key features

The HP StarLAN 10 offers the following key features:

- Provides PC to HP 3000 connectivity with HP OfficeShare services
- Provides a transparent link to network nodes and software
- Offers coexistence of voice and data in the same cable bundle
- Supports existing wiring through HP WireTest service
- Supports both IEEE 802.3 and Ethernet Version 1.0 and 2.0 protocols
- Supports HP 9000 HP-UX computers

- HP StarLAN 10 hub provides auto-segmentation to automatically prevent a failed StarLAN 10 segment from bringing down the network
- HP StarLAN 10 hub has an attachment unit interface (AUI) for direct connection to the existing site backbone
- Provides 12 twisted-pair connections with 10 Mbps link speed
- Supports 100 meters of twisted-pair wire between the StarLAN 10 hub and the end user
- Full repeater capabilities support greater distances, allowing the expandability necessary to meet future growth requirements
- Twisted-pair medium access unit (MAU) has an eight-pin modular jack for simple installation and an integrated one-meter AUI cable for connection to LAN cards with industry-standard AUI connectors

Components

An HP StarLAN 10 network (see Figure 1) has the following components: the HP 28663A StarLAN 10 Hub, the HP 28664A Twisted-pair MAU, and for HP Vectra PCs and IBM PC/XT/ATs, the HP D1802A StarLAN 10/Vectra PC Link.

- **The HP 28663A StarLAN 10 hub** is a full 10 Mbps multiport repeater designed for IEEE 802.3 and Ethernet local-area networks operating over unshielded twisted-pair wire. Conformance to these industry standards provides a broad range of connectivity required in the multivendor environments of today. The HP StarLAN 10 hub supports distances of 100 meters between the hub and the end user, provides 12 twisted-pair connections, and connects directly to a coaxial backbone via an HP 28641A or an HP 30241A MAU.
- **The HP 28664A Twisted-pair MAU** provides the connection between the LAN interface card and the twisted-pair wiring. Using the de facto standard eight-pin modular jack as the twisted-pair interface, installations are quick and easy. It includes an integrated one-meter attachment unit interface (AUI) cable for connection to the AUI port of a computer's LAN interface controller card. The HP 28663A twisted-pair MAU is designed to provide an AUI connection to the twisted-pair wire for controllers that are compatible with IEEE 802.3 or Ethernet Version 1.0 or Version 2.0.

- The HP StarLAN 10/Vectra PC link**, designed for HP Vectra PCs and IBM PC/XT/ATs eliminates the need for the Twisted-pair MAU. Packaged with HP OfficeShare software, this integrated PC LAN card provides a direct connection to the twisted-pair wire via an eight-pin modular jack. This allows you to realize substantial cost savings over other twisted-pair products on the market today that require both an external MAU and a LAN card for your PC.

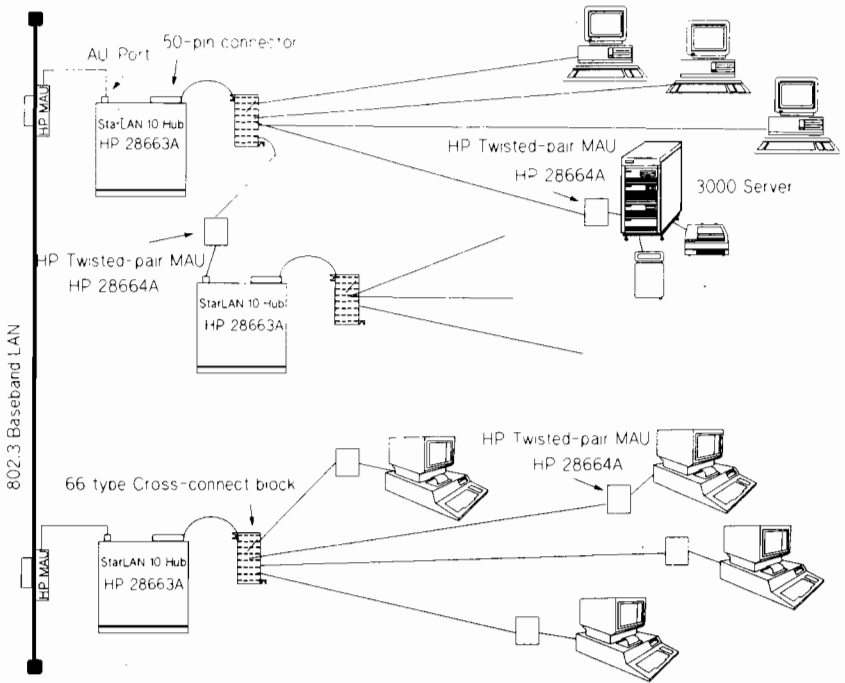


Figure 1

Wiring Specifications

HP StarLAN 10 local area networks use unshielded twisted-pair wire. Wiring specifications will conform to the IEEE 802.3 Type 10BASE-T specifications for a 10 Mbps over twisted-pair LAN. The 10BASE-T specifications are currently under development. Two pairs of 22, 24, or 26 AWG unshielded twisted-pair cable are required for each connection.

To Order

<u>HP Product No.</u>	<u>Description</u>
28663A	StarLAN 10 Hub (Includes ThickMAU and five-meter AUI cable)
28664A	Twisted-pair MAU
28663AN	Return credit for StarLAN Hub
D1802A	StarLAN 10/Vectra PC Link

For more information, or to order, contact your dealer or HP sales representative.

Upgrades

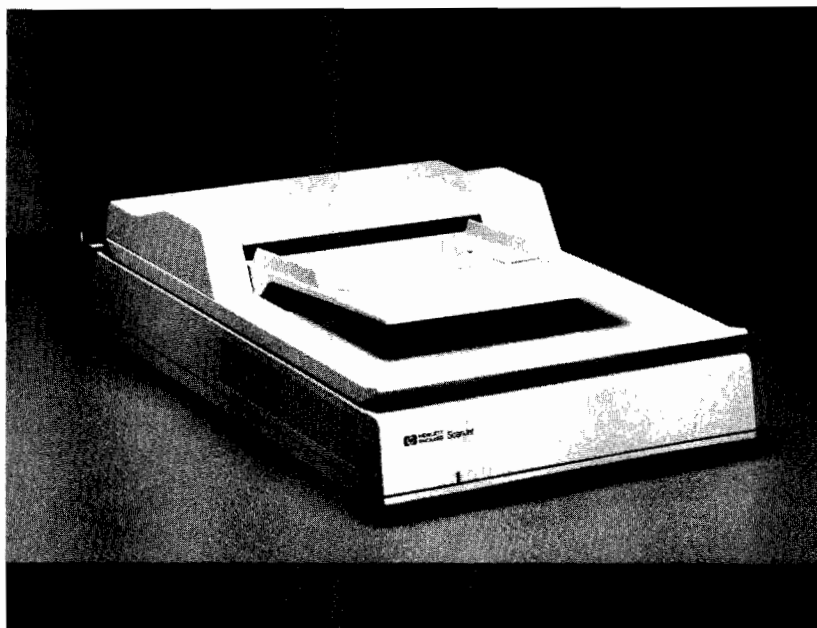
If you own an HP StarLAN network you can upgrade to an HP StarLAN 10 network. StarLAN 10 requires version B.XX.XX or later of the OfficeShare software (OfficeShare III). If you do not have this version you may upgrade your software to that version with the following products. To upgrade from StarLAN to StarLAN 10, you should order both the StarLAN 10 product and the upgrade on the same order. The StarLAN 10 product will be shipped directly to you. When you return the old StarLAN product, a credit will be issued to your account. The StarLAN to StarLAN 10 Link and Hub upgrade credits (HP D1802AN and HP 28663AN) will be available through February 1, 1989.

<u>HP Product No.</u>	<u>Description</u>
Link	
D1802AN	StarLAN to StarLAN 10 Link upgrade credit
Accessories	
28663AN	StarLAN to StarLAN 10 Hub upgrade credit

Services

50923F		
Opt. 0CJ		Network Services-User Services StarLAN user upgrade kit
Opt. 0CK		Network Services-User Services ThinLAN/StarLAN 10 user upgrade kit
50925F		
Opt. 0CJ		PC Server Software/Vectra PC upgrade kit
Opt. 0CK		ThinLAN/Star/LAN 10 upgrade
50929F		
Opt. 0CN		ThinLAN/StarLAN/StarLAN 10 configuration upgrade kit for HP Vectra PC and IBM PC's





ReadRight International™ (HP 88401A), a version of ReadRight™ which provides the capability for the HP ScanJet to perform optical character recognition on text which contains characters used in most European languages, is now available. This product does not replace the current "English Only" ReadRight product (HP 88400A), which will continue to be available.

ReadRight International provides screen prompts and optical character recognition for the following languages:

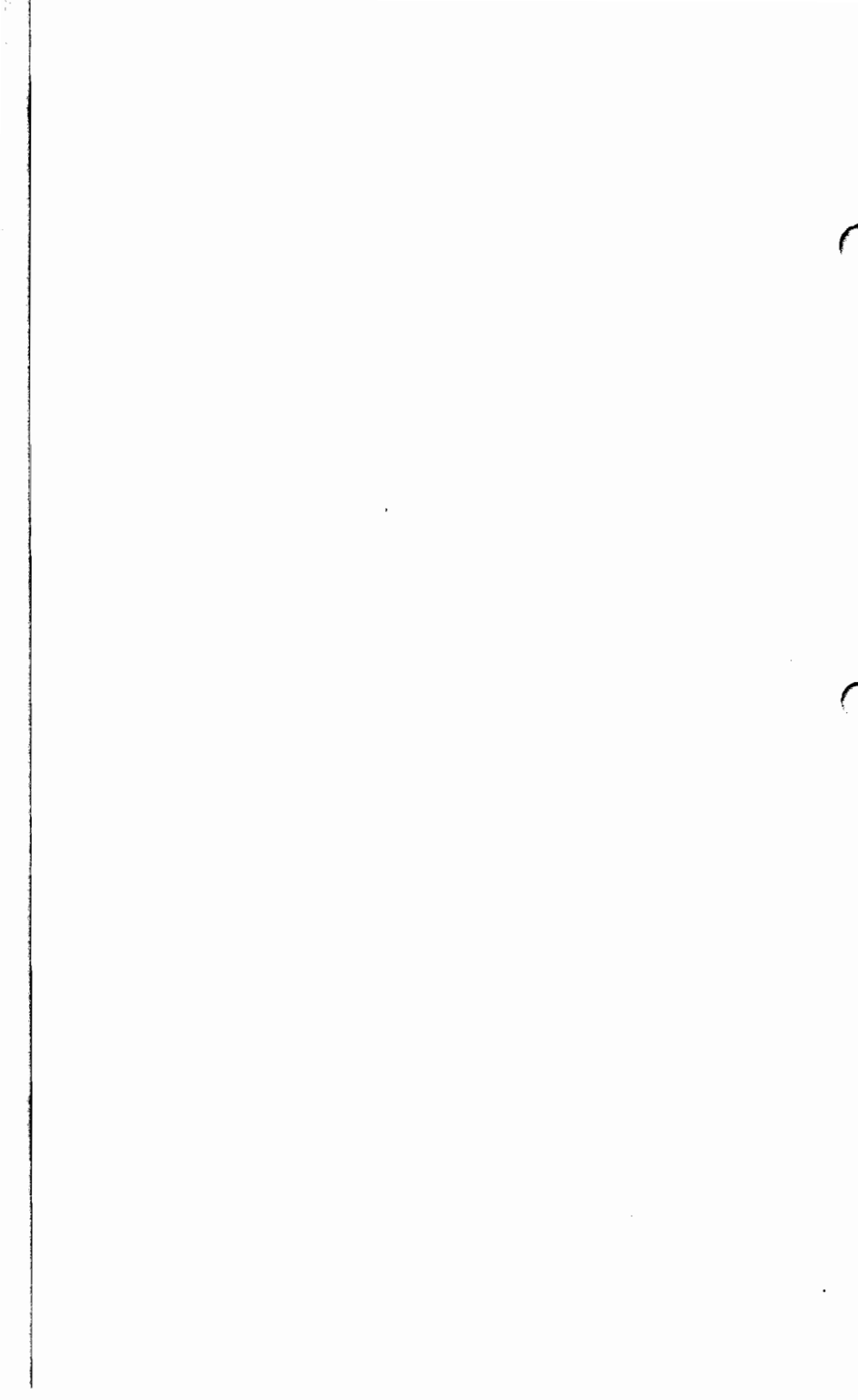
English	German	French	Italian
Spanish	Swedish	Norwegian	Finnish
Danish	Dutch		

At the present time, the manual is provided in English, German, and French text only.

The software is provided on both 5¼-inch and 3½-inch media, and it can be used on the HP Vectra PC with the HP 88290A ScanJet Interface Kit, or on the IBM PS/2 with the HP 88490A ScanJet Interface kit.

To order, contact your dealer or HP sales representative.





Lotus 1-2-3: HP 150/Touchscreen to HP Vectra PC Upgrade

Mike Webb

If you would like to upgrade from Lotus 1-2-3 release 1A (HP 45482A) or release 2.01 (HP 45566A) for the HP 150 Touchscreen personal computer, to the Lotus 1-2-3 release 2.01 (HP 68340F) for the HP Vectra PC, you should follow these procedures.

Release 1A for HP 150 to release 2.01 for the HP Vectra PC

You must provide:

- Lotus 1-2-3 back-up disc.
- Statement of intent to upgrade from the HP 150 version to the HP Vectra PC version.
- Election of 5.25-inch or 3.5-inch disc size.
- The upgrade fee of \$150 by check, money order or major credit card.

The order should be sent to: Lotus Development Corporation, P.O. Box 9130, Cambridge, MA 02139 USA.

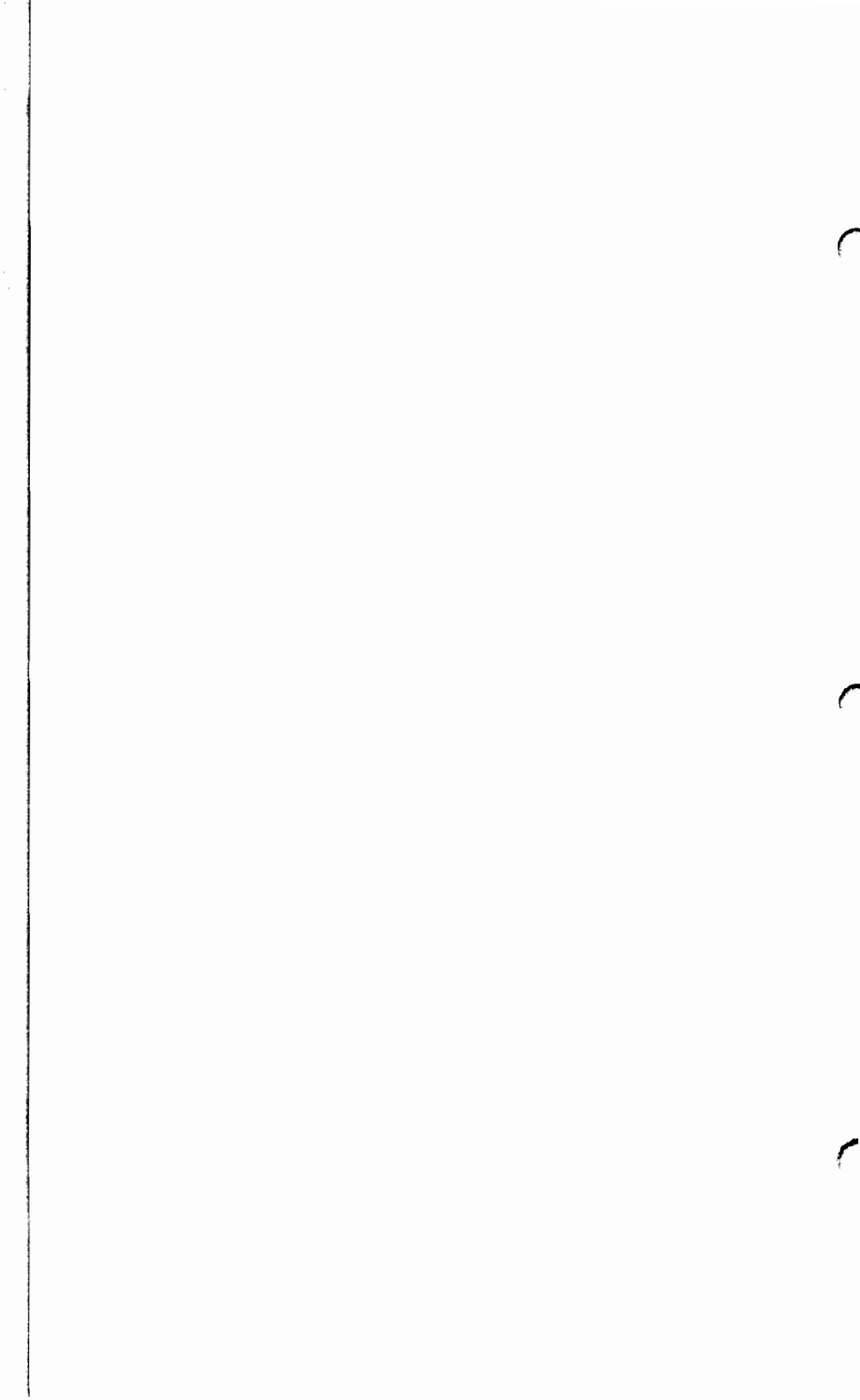
Release 2.01 for the HP 150 to release 2.01 for the HP Vectra PC

You should follow the same procedures as above, with the exception that the upgrade cost is \$30 instead of \$150.

For general information on upgrades or exchanges, call Lotus Customer Service at (617) 623-5680 in the USA, or write to Lotus Development Corporation, Upgrade Department, 61 Medford Street, Somerville, MA 02143.

Note: This offer is valid until December 31, 1988.





JetScript® (HP 88141A), an Adobe-licensed PostScript accessory kit for the HP LaserJet Series II printer, is now available.

JetScript is a product that you can add to your HP LaserJet Series II printer to provide you with access to the PostScript formatting language. It was designed, manufactured, packaged, and labeled by QMS, Inc., in association with HP. Both QMS and HP will distribute and sell the product through their own distribution channels.

Components

- The JetScript controller board (a PC backplane card that plugs into any IBM AT, XT, or compatible PC).
- An adapter card that plugs into the Optional I/O slot in the back of the HP LaserJet Series II printer.
- A set of four 5.25-inch discs containing the PostScript interpreter and 35 typefaces.
- A 10-foot video cable connecting the JetScript controller board to the adapter card.
- A User's Manual.

Capabilities

The JetScript accessory kit is designed to enhance the functionality of the HP LaserJet Series II printer by providing multiple fonts, full page graphics capabilities, and the ability to produce very sophisticated page layouts.

JetScript provides access to 35 typefaces (8 typeface families) in any point size beginning with four points (software dependent).

Performance

JetScript's PC backplane design eliminates the RS-232 or parallel interface bottleneck problem common to many PostScript laser printers. In general, you can expect approximately 20 percent faster performance over an Apple Laserwriter Plus.

If you are printing short, text-oriented documents, you will find that JetScript, like other PostScript printers, tends to print the first page of a document more slowly than the standard LaserJet Series II with its PCL printer language. But, for those of you who are looking for on-line scaling of fonts and improved graphics flexibility associated with page layout, JetScript is a faster solution.

Because the JetScript controller resides in the PC, it is dedicated to a single PC, and therefore, cannot be shared among users.

Note: For further information on JetScript, refer to the article "JetScript Questions and Answers" in this issue.

To Order

Contact your dealer or HP sales representative.



HP has announced it will continue to manufacture the HP 150/Touchscreen II Personal Computer (HP 45851A and all localized versions) and the HP 150/Touchscreen Terminal (HP 45850A and all localized versions) until May 1989.

Although you will not be able to purchase these products after May 1989, they will still be supported by HP for 10 years after discontinuance.

To support our large installed base of HP Touchscreen PC users, critical components of the HP Touchscreen PC system will remain available after the HP Touchscreen PC discontinuance. These key system components will continue to be available for at least an additional six months beyond the HP Touchscreen PC discontinuance, or in the case where they are used on other computer systems, even longer.

Available after HP Touchscreen PC discontinuance

- Memory boards for large spreadsheets
- MS-DOS 3.2 for 3½-inch IBM 720-Kbyte compatibility
- Graphics Gallery for presentation graphics
- Hard disc drives for speed and storage
- OfficeShare for networking: ThinLAN, StarLAN 10, and Serial

HP Touchscreen PCs can still be flexibly configured to solve a variety of productive office tasks—even after discontinuance.

The following HP Touchscreen PC products and accessories (including all localized versions) are scheduled to be discontinued in May 1989. Until then, these products will continue to be manufactured by HP.

P/N	Description
45846A	HP 150 terminal to PC upgrade
45847A	HP 150 PC kit
45848A	HP 150 terminal kit
45849A	HP 150 SPU
45850A	HP 150 terminal
45851A	HP 150 SPU and PC kit
45637A	256-Kbyte language card
45640A	Ventel internal modem
45914A	HP-HIL interface card
45915A	HP-HIL/384 KB accessory
92241A	HP-HIL cable
92951VM	Videotex cable
92951VN	Videotex cable, Dutch
45310A	Basic Programmers Library
45311A	Icon Design System
45314A	HP-Tel VTX, Term
45443A	Forms Master
45448A	MS-COBOL compiler
45919A	HP-HIL developers tools
92248BA	BASIC cross-reference utility
45624A	MS-DOS users guide
9123D	Dual 710 KB 3½-inch flexible disc drive

□

HP Vectra PC Family
HP-HIL Barcode Reader Supported on
HP Vectra CS, ES and RS PCs

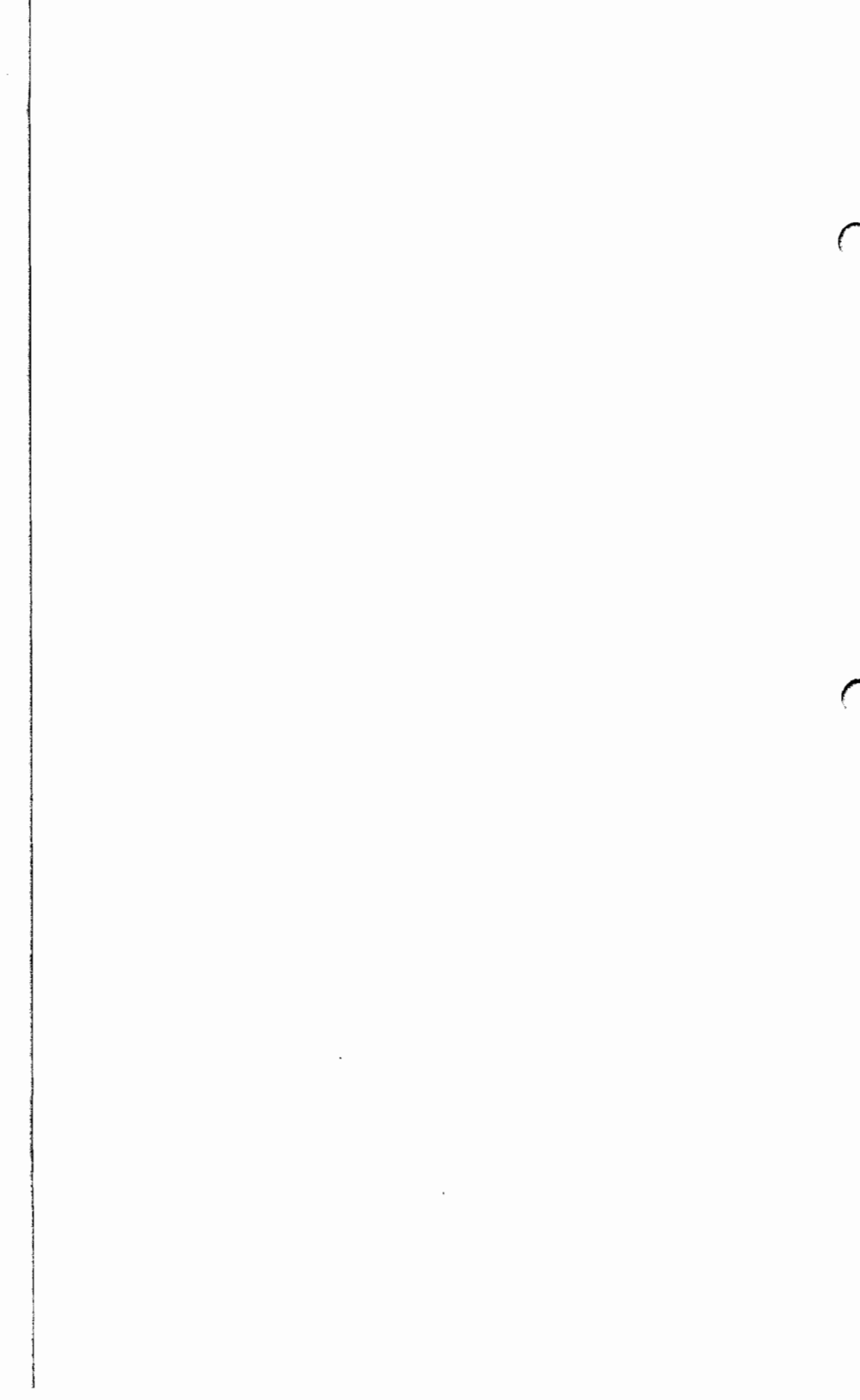
Sandra Banker

A dedicated software driver (HP 92916-60020) has been developed so that HP Vectra CS, ES and RS personal computers can support the HP 92916A HP-HIL barcode reader. This new driver is compatible with the pre-ES HP Vectra PCs as well, and is available on a 5¼-inch flexible disc.

The HP Vectra CS PC does not currently offer standard HP-HIL capability. However, a separate HP-HIL Accessory Interface (HP D1171A) can be installed. With this added interface, the HP Vectra CS PC will support the HP-HIL barcode reader.

The HP-HIL barcode reader (HP 92916A), supports most popular barcode symbologies: Code Interleaved 2 out of 5, 3 of 9, Extended 3 of 9, Codabar, and UPC/EAN/JAN.

□





Index



HP PC Communicator Index

The index includes all major articles from every issue, including the Encyclopedia articles of past issues. The Encyclopedia articles are shown with the letter "E-" in front of the page number. Earlier issues of the Communicator contained an Insert section. Articles which appeared there are shown with the letter "I-" in front of the page number.

There is no index for Newslines and Bugline column items which appear in each issue.

The HP Product Numbers for each issue can be found at the end of the index. To order, refer to the "How to Order" section in the Current Information green pages.

The articles are listed in four sections:

HP 120 and HP 125	Index- 5
HP 150/Touchscreen	Index-10
HP Portables	Index-19
HP Vectra PC Family	Index-21

For your added convenience, articles are also listed by individual issue in the "Ordering *HP PC Communicator Back Issues*" section in the green pages.





HP 120 and HP 125	Issue	Page
Accounting Package Offered on HP 125	2	3
ASCII File Transfer—Connecting two Series 100 Systems	5	23
Auto Shutter for 3½-inch Micro Flexible Discs, New . .	6	7
Backing Up from HP 9134 and HP 9135 Disc Drives . . .	1	11
BASIC 12x Compared to HP 150 BASIC	7	31
BASIC 12x/150 and Other Basics—Subtle Differences . .	7	33
BASIC—a Subroutine Library	2	13
BASIC—Accessing a Plotter	4	28
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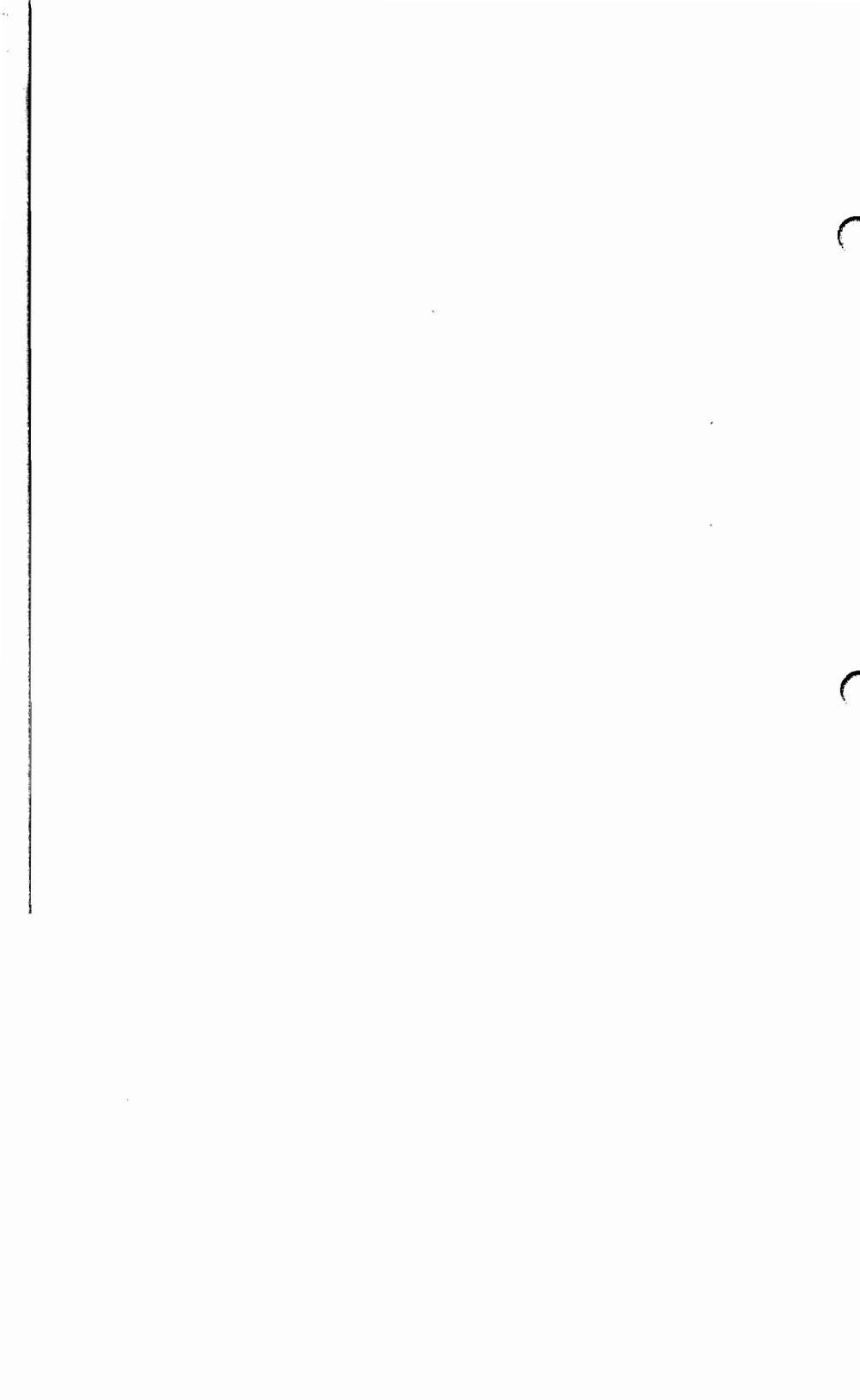
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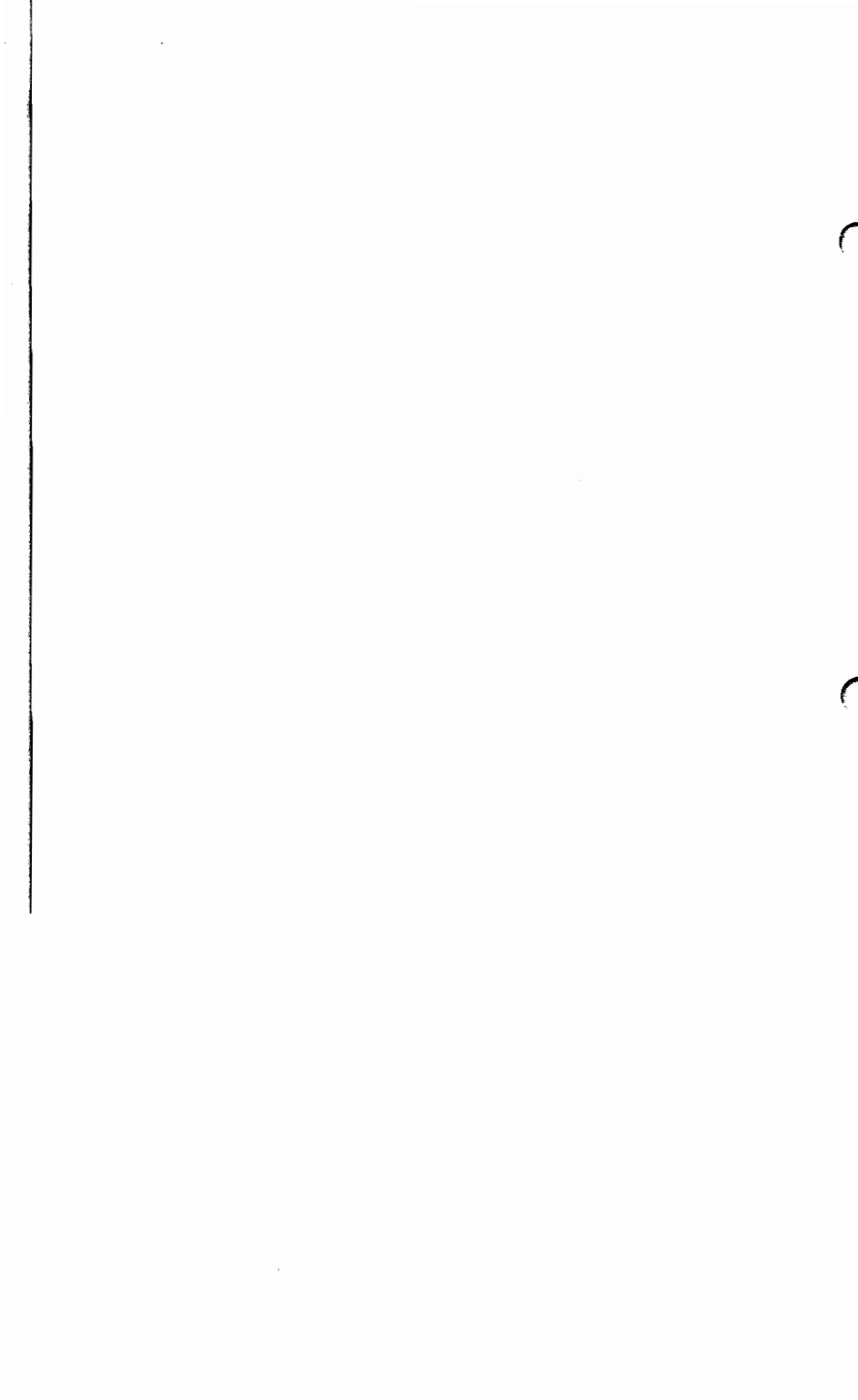


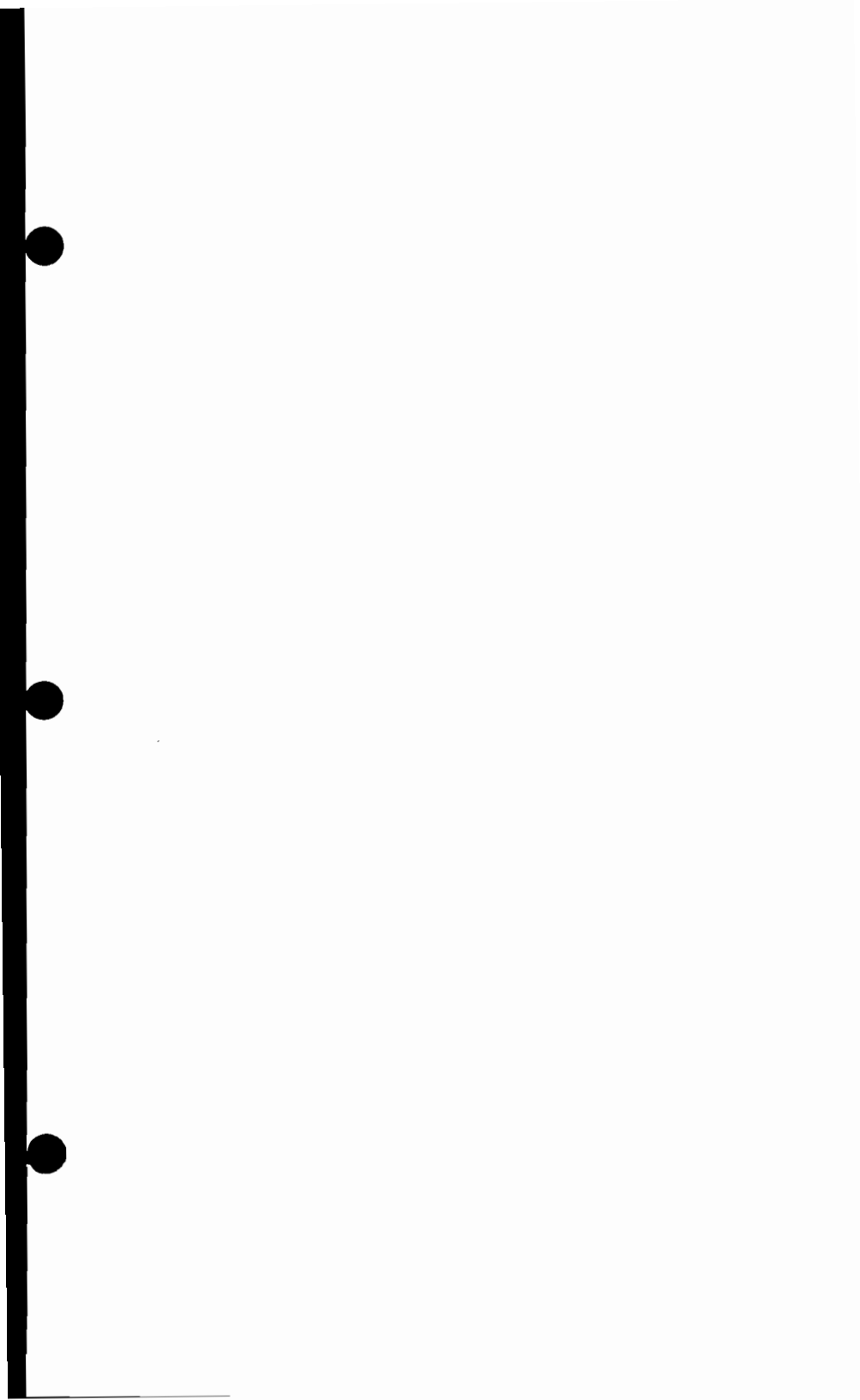
HP PC Communicator Back Issues

All *HP PC Communicator* back issues are available. Some of the early issues may not be in the original format.

To order, turn to the "How to Order" section in the Current Information green pages.

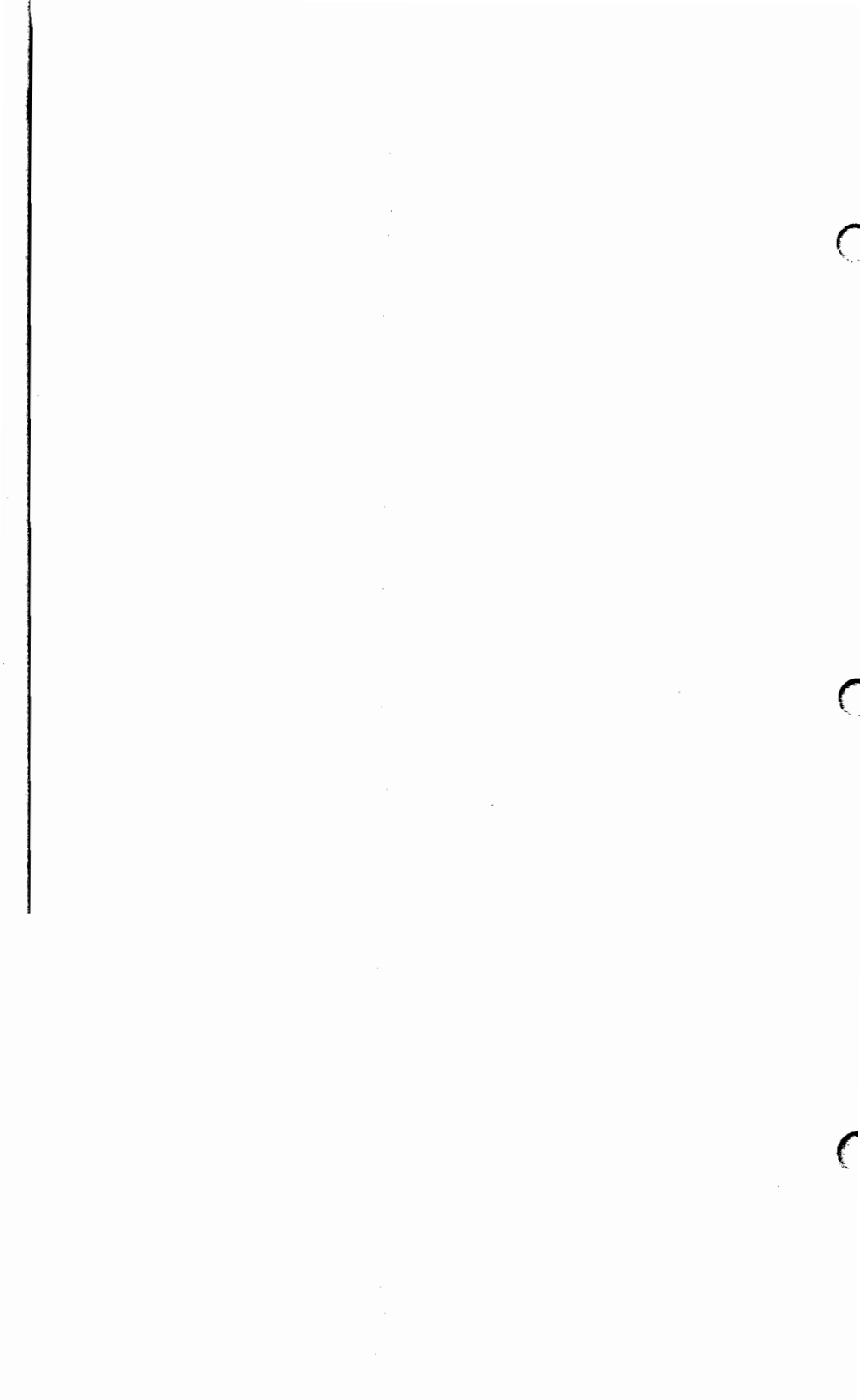
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*New Listing



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.

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. Much of the information comes 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.

Step 2: Is the answer available through CompuServe?

Many of the answers to your questions about Hewlett-Packard personal computers are available to you through the CompuServe Information Service—the largest electronic information service in the world. Most major software and hardware vendors and many special interest groups maintain forums on CompuServe.

Through CompuServe you can access the Hewlett-Packard PC Forum, which is maintained jointly by HP and the HP PC user community. The HP Response Centers maintain several libraries on the Forum, containing articles which include Questions and Answers, Application Notes, and supported patches. The HP PC user community offers information and many public domain and shareware programs and utilities.

The HP PC Forum also provides an easy way for you to communicate with other users of HP PCs and peripherals. By leaving a message, you can receive timely information to help you resolve problems or make purchasing decisions.

To gain access to the Hewlett-Packard PC Forum, you must have an account with CompuServe. You will also need a modem and communication software such as AdvanceLink.

For information on how to obtain a CompuServe account, ask your HP dealer or contact CompuServe directly at (800) 848-8199 or (614) 457-0802 in Ohio, USA.

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.

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.

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.

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.]

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 60 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 (Portable Users will receive *The Portable Paper*, and *INTERACT*), an annual diskette from the Interex Contributed Software Library, and the option to purchase other diskettes at only \$10.00 each. Ask for your free listing of Series 100 or Vectra programs.

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
FAX (408) 736-2156



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**Of this amount, \$39.50 is for a one-year, monthly subscription to INTERACT Magazine, and \$30.50 is allocated annually for Interrupt Newsletter.*

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(over)

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 following:

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, 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, 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.

The Vectra RS/20 PCs can also be purchased as a complete, pre-configured system called the Vectra RS/20 Power User PC. This system is designed for applications which require the highest levels of performance.

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 serial and parallel I/O interfaces, 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 KB flexible disc drive.

D1115A Vectra CS Model 15*

Includes one 3.5-inch 1.44 MB flexible disc drive.

D1116A Vectra CS Model 16*

Includes two 5.25-inch 360 KB flexible disc drives and an HP Video Graphics Adapter.

D1126A Vectra CS Model 26*

Includes one 5.25-inch 360 KB flexible disc drive, a 20-Mbyte hard disc, and an HP Video Graphics Adapter.

D1127A Vectra CS Model 27*

Includes one 3.5-inch 1.44 MB flexible disc drive, a 20 MB hard disc, and an HP Video Graphics 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.

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 KB of 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 MB flexible disc drive.

D1215A Vectra ES Model 15*

Includes one 3.5-inch 1.44 MB flexible disc drive.

D1220A Vectra ES Model 20*

Includes one 5.25-inch 1.2 MB flexible disc drive and a 20 MB hard disc.

D1226A Vectra ES Model 26*

Includes one 5.25-inch 1.2 MB flexible disc drive, a 20 MB hard disc, and an HP Video Graphics Adapter.

D1227A Vectra ES Model 27*

Includes one 3.5-inch 1.44 MB flexible disc drive, a 20 MB hard disc and an HP Video Graphics 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.

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 KB of 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 MB flexible disc drive.

D1315A Vectra ES/12 Model 15*

Includes one 3.5-inch 1.44 MB flexible disc drive.

D1320A Vectra ES/12 Model 20*

Includes one 5.25-inch 1.2 MB flexible disc drive and a 20 MB hard disc.

D1326A Vectra ES/12 Model 26*

Includes one 5.25-inch 1.2 MB flexible disc drive, a 20 MB hard disc, and an HP Video Graphics Adapter.

D1327A Vectra ES/12 Model 27*

Includes one 3.5-inch 1.44 MB flexible disc drive, a 20 MB hard disc, and an HP Video Graphics Adapter.

D1340A Vectra ES/12 Model 40*

Includes one 5.25-inch 1.2 MB flexible disc drive and a 40 MB hard disc.

D1346A Vectra ES/12 Model 46*

Includes one 5.25-inch 1.2 MB flexible disc drive, a 40 MB hard disc, and an HP Video Graphics Adapter.

D1347A Vectra ES/12 Model 47*

Includes one 3.5-inch 1.44 MB flexible disc drive, a 40 MB hard disc, and an HP Video Graphics 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.

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, HP Expanded Memory Manager/386, HP Volume Expansion Utilities, the Enhanced Vectra PC keyboard, system documentation and system memory and disc storage as indicated.

D1500A Vectra RS/16 Model 40*

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

D1502A Vectra RS/16 Model 100*

Includes 2 MB of system memory, 1.2 MB flexible disc drive, and a 103 MB ESDI hard disc.

D1501A Vectra RS/16 Model 106*

Includes 2 MB of system memory, 1.2 MB flexible disc drive, a 103 MB ESDI hard disc, and an HP Video Graphics Adapter.

D1600A Vectra RS/20 Model 40*

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

D1601A Vectra RS/20 Model 106*

Includes 2 MB of system memory, 1.2 MB flexible disc drive, a 103 MB ESDI hard disc, and an HP Video Graphics Adapter.

D1602A Vectra RS/20 Model 100*

Includes 2 MB of system memory, one 5.25-inch 1.2 MB flexible disc drive, and a 103 MB ESDI hard disc.

D1603A Vectra RS/20 Model 150*

Includes 2 MB of system memory, one 5.25-inch 1.2 MB flexible disc drive and a 155 MB ESDI hard disc.

D1604A Vectra RS/20 Model 300*

Includes 2 MB of system memory, one 5.25-inch 1.2 MB flexible disc drive and a 310 MB ESDI hard disc.

D1606B Vectra RS/20 Power User PC*

Includes 4 MB of system memory, a 103 MB ESDI hard disc, 3 serial/1 parallel port, 80387 Numeric Coprocessor, HP Video Graphics Adapter Plus card and monitor, tilt/swivel base, 1.2 MB 5.25-inch flexible disc, 1.44 MB 3.5-inch flexible disc, mouse, DOS 3.X, Windows/386, keyboard and PC kit.

*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.

Name	HP Product Number	Version	Special Requirements
COMMUNICATIONS:			
AdvanceLink*†	45431A	A.04.04	
AdvanceMail†	27534A	A.01.00	Requires HP DeskManager B.00.00 or later on the HP 3000
HPMessage†	36568A	A.00.02	Requires HP Desk Manager A.03.01 on the HP 3000
HP Message Disc Pack	36568S	A.00.02	
HP Message Doc Pack	36568T	A.00.02	
HP Message Corp. Lic.	36568Q	A.00.02	
IBM 3278 Term. Emul. Acces.*	45641B		
HP ThinLAN 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 User PC Configuration & Diagnostics Package/ Touchscreen	50929A		
SERIAL Network PC User Configuration & Diagnostics Package/ Touchscreen	50930A		

*Uses HP Touch

†Corporate Site Licensing also available

Name	HP Product Number	Version	Special Requirements
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
HP OfficeShare Network User Software Upgrade to HP ThinLAN User Software for HP Touchscreen PCs	50916A		Must return OfficeShare master discs
HP SERIAL Network User Link Software for HP Touchscreen PCs	50910A		
Print Central† PC Software	36890A	A.02.00	For use with the HP 3000 Computer
VT100 Terminal Emulator	45412A		
Office Talk (Phone Voice Mgmt.)	24520A	A.01.02	512K
ENVIRONMENT MANAGER:			
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
DATA BASE MANAGEMENT:			
Executive Card Manager*†	45421A	A.02.02	
ECM: Templates*	45441D	A.01.02	
R:Base 5000	45563A	1.01	512K
ENGINEERING DESIGN:			
AutoCAD	47956A		512K

*Uses HP Touch

†Corporate Site Licensing also available

Name	HP Product Number	Version	Special Requirements
GRAPHICS:			
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	
INTEGRATED SOLUTIONS:			
ExecuDesk—U.S.*	45444A	A.03.00	
Symphony from Lotus*	45498A	1.1	384K
PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS:			
BASIC by Microsoft	45445D		
BASIC 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		
SPREADSHEETS:			
Lotus 1-2-3*	45566A	2.01	384K

*Uses HP Touch

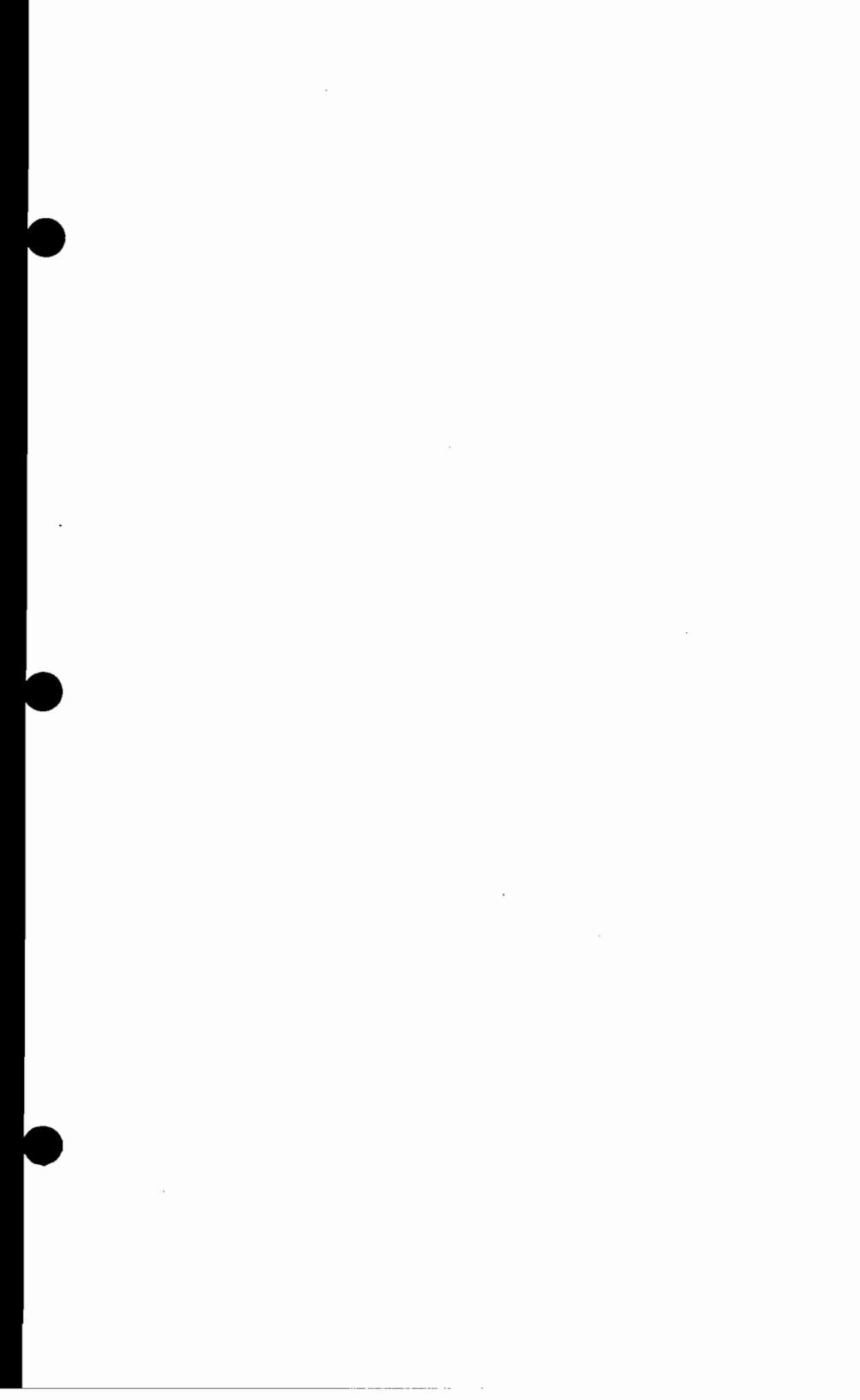
†Corporate Site Licensing also available

Name	HP Product Number	Version	Special Requirements
UTILITIES:			
HP PLCPak	33406A		
WORD PROCESSING:			
HPWORD/150 U.S. English**†	27505A	A.00.00	512K
Executive MemoMaker**†	45418A	C.03.00	384K for text 512K for text and graphics
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 Miles Mikasa, Pam Peterson,
Available from HP Marilyn Ruel, Kim Tchang

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 (including the HP Portable Vectra CS) and IBM and compatibles. Order Option 003. Software that is available on 3½-inch media is indicated with a "★" beside the product number.

Name	HP Product Number	Version	Special Requirements
COMMUNICATIONS:			
AdvanceLink† HP IRMA IBM3278/79 Term Emul	★68333F 50920A	B.01.00	
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
AdvancePrint Network	★32583F 50923F	A.00.00	
Services-User Services/ Vectra PC			
10 user license	50923F	#OA9	
50 user license	50923F	#OAA	
HP StarLAN	50923F	#OCJ	
User Upgrade Kit			
HP ThinLAN	50923F	#OCK	
User Upgrade Kit			
HP SERIAL User Upgrade Kit	50923F	#OCL	
Net1PC/RPM Development Package	50924F		

†Corporate Site Licensing also available

Name	HP Product Number	Version	Special Requirements
PC ServerSoftware/ Vectra PC	50925F		
HP StarLAN Server Upgrade Kit	50925F	#OCJ	
HP ThinLAN Server Upgrade Kit	50925F	#OCK	
HP StarLAN/ Vectra PC Link	50926F		
HP ThinLAN/ Vectra PC Link	50927F		
HP SERIAL Network/ Vectra PC Link Software	50928F		
HP ThinLAN User PC Configuration & Diagnostics Package/ Touchscreen	50929A	#OA9	
50 user license	50929A	#OAA	
LAN PC User Configuration & Diagnostics Package/ Vectra PC	50929F		
10 user license	50929F	#OA9	
50 user license	50929F	#OAA	
HP ThinLAN/ StarLAN Config Upgrade Kit	50929F	#OCN	

Name	HP Product Number	Version	Special Requirements
HP SERIAL Network PC User Config. & Diagnostics Package/ Touchscreen	50930A		
10 user license	50930A	#OAA	
50 user license	50930A	#OCN	
HP SERIAL Network PC User Config. & Diagnostics Package/ Vectra PC	50930F		
10 user license	50930F	#OAA	
50 user license	50930F	#OCN	
HP Serial Config Upgrade Kit	50930F	#OCL	
HP 150 ThinLAN Server Kit	50907A		
HP 150 ThinLAN User Link Kit	50908A		
HP 150 SERIAL User Link Software	50910A		
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
DESKTOP PUBLISHING:			
iPrint	35188D		
Vectra PageMaker	45964A		MS Windows required
ENVIRONMENT MANAGER:			
Microsoft Windows 2.0	45954B		
	★45954C		

Name	HP Product Number	Version	Special Requirements
DATA BASE MANAGEMENT:			
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
GRAPHICS:			
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
INTEGRATED SOLUTIONS:			
Lotus Symphony	68339F	1.2	384K memory required
PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS:			
Vectra GW BASIC Interpreter	45952A	3.11	

*Uses HP Touch

†Corporate Site Licensing also available

Name	HP Product Number	Version	Special Requirements
SPREADSHEETS:			
Lotus 1-2-3	★68340F	2.01	
UTILITIES:			
HP PLC PAK	33406B		
LaserControl 100***	35190J	Rev. 3	
Laserplotter	35188A		
WORD PROCESSING:			
AdvanceWrite Plus†	★27546F	F.02.00	
Executive MemoMaker*†	★68330F	A.03.00	
PRINTER UTILITIES:			
iPrint	35188D		
Jetplotter	35190P		
OFFICE SOFTWARE PACKS:			
HP Vectra PC Office Professional Pack	68300F		
HP Vectra PC Office Assistant Pack	68301F		
HP Vectra PC Office Entry Pack	★68306F		
OPERATING SYSTEM:			
Microsoft MS-DOS 3.2	45951B**		
	★45951C**		
Microsoft MS-DOS 3.3	45951D**		
	★45951E**		



*Uses HP Touch
 ***Manufacturer Supported
 †Corporate Site Licensing also available



Localized HP 150/Touchscreen Software Available from HP

Harry Cruickshank

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.

Name	HP Product Number	Country	Revision
AdvanceLink	45431AD	Germany	A.04.00
AdvanceMail/150	27534AD	Germany	A.01.02
AdvanceMail/150	27534AE	Spain	A.01.02
AdvanceMail/150	27534AF	France	A.01.02
AdvanceMail/150	27534AH	Netherlands	A.01.02
AdvanceMail/150	27534AN	Norway	A.01.02
AdvanceMail/150	27534AX	Finland	A.01.02
AdvanceMail/150	27534AY	Denmark	A.01.02
AdvanceMail/150	27534AZ	Italy	A.01.02
Charting Gallery	45513AD	Germany	B.02.00
Charting Gallery	45513AF	France	B.02.00
Drawing Gallery	45411AD	Germany	A.02.01
Drawing Gallery	45411AF	France	A.02.01
Exec. Card Manager	45421AD	Germany	A.02.01
Exec. Card Manager	45421AZ	Italy	A.02.01
ExecuDesk	45444AD	Germany	A.02.00
ExecuDesk	45444AE	Spain	A.02.00
ExecuDesk	45444AF	France	A.02.00
ExecuDesk	45444AS	Sweden	A.02.00
ExecuDesk	45444AZ	Italy	A.02.00
ExecuDesk	45444AX	Finland	A.02.00
Executive MemoMaker	45418AD	Germany	C.02.00
Executive MemoMaker	45418AF	France	C.02.00
Executive MemoMaker	45418AX	Finland	C.02.00
Executive MemoMaker	45418AZ	Italy	C.02.00
Gallery Collection	45437AD	Germany	B.02.00
Gallery Collection	45437AF	France	B.02.00
Gallery Collection	45437AX	Finland	B.02.00
Gallery Collection	45437AZ	Italy	B.02.00
Gallery Pic.Lib. VII	45433AF	France	A.01.00
HP Access	36898AD	Germany	A.01.01
HPMessage	36568DA	Germany	DA.00.01

Name	HP Product Number	Country	Revision
HPWord	27505AB	U.K.	A.02.00
HPWord	27505AC	Canada	A.02.01
HPWord	27505AD	Germany	A.02.01
HPWord	27505AF	France	A.02.01
HPWord	27505AH	Netherlands	A.02.01
HPWord	27505AN	Norway	A.02.01
HPWord	27505AX	Finland	A.02.01
HPWord	27505AY	Denmark	A.02.01
HPWord Corp Lic.	27505QB	U.K.	A.02.00
HPWord Disc Pack	27505SB	U.K.	A.02.00
HPWord Doc Pack	27505TB	U.K.	A.02.00
MemoMaker	45420AV	Arabic	A.01.01
MemoMaker	45420AV #ZAG	Arabic/French	A.01.02
MemoMaker	45420AT	Hebrew	A.01.01
VisiCalc II	45405AF	France	B.01.02



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.

Name	HP Product Number	Country	Revision
AdvanceMail	*27535FD	Germany	A.01.02
AdvanceMail	*27535FE	Spain	A.01.02
AdvanceMail	*27535FF	France	A.01.02
AdvanceMail	*27535FH	Netherlands	A.01.02
AdvanceMail	*27535FN	Norway	A.01.02
AdvanceMail	*27535FS	Sweden	A.01.02
AdvanceMail	*27535FX	Finland	A.01.02
AdvanceMail	*27535FY	Denmark	A.01.02
AdvanceMail	*27535FZ	Italy	A.01.02
AdvanceMail Site Lic.	27535LF	France	
AdvanceMail Site Lic.	27535LD/ QD/SD	Germany	
AdvanceWrite III	27508FD	Germany	F.01.02
AdvanceWrite III	27508FF	France	F.01.02
AdvanceWrite III	27508FE	Spain	F.01.03
AdvanceWrite III	27508FH	Netherlands	F.01.03
AdvanceWrite III	27508FN	Norway	F.01.03
AdvanceWrite III	27508FS	Sweden	F.01.03
AdvanceWrite III	27508FX	Finland	F.01.03
AdvanceWrite III	27598FY	Denmark	F.01.03
AdvanceWrite III	27508FZ	Italy	F.01.02
AdvanceWrite Site Lic.	27508QD	Germany	
AdvanceWrite Plus	27546FF	France	F.02.01
AdvanceWrite Plus	27546FD	Germany	F.02.01
Charting Gallery	68350FD	Germany	B.03.00
Charting Gallery	68350FF	France	B.03.00
Drawing Gallery	68351FD	Germany	B.03.00
Drawing Gallery	68351FF	France	B.03.03
Executive CardManager	*68331FZ	Italy	A.01.06
Executive CardManager	*68331FD	Germany	A.01.06
Executive CardManager	*68331FF	France	A.01.06
Executive CardManager	*68331FE	Spain	A.01.06
Executive CardManager	*68331FH	Netherlands	A.01.06
Executive CardManager	*68331FN	Norway	A.01.06
Executive CardManager	*68331FX	Finland	A.01.08
Executive CardManager Site License	68331LD/ QD/SD	Germany	
Executive Card Manager Site License	68331LF/QF/ SF	France	

Name	HP Product Number	Country	Revision
Executive MemoMaker	*68330FE	Spain	A.03.01
Executive MemoMaker	*68330FF	France	A.03.01
Executive MemoMaker	*68330FH	Netherlands	A.03.01
Executive MemoMaker	*68330FS	Sweden	A.03.01
Executive MemoMaker	*68330FX	Finland	A.03.01
Executive MemoMaker	*68330FY	Denmark	A.03.01
Executive MemoMaker	*68330FB	Eur. English	A.03.01
Executive MemoMaker	*68330FD	Germany	A.03.01
Executive MemoMaker	*68330FN	Norway	A.03.01
Executive MemoMaker	*68330FZ	Italy	A.03.01
Executive MemoMaker Site Lic.	68330LF/QF/ SF	French	
Gallery Collection	*68352FD	Germany	B.03.00
Gallery Collection	*68352FH	Netherlands	B.03.00
Gallery Collection	*68352FX	Finland	B.03.00
Gallery Collection	*68352FY	Denmark	B.03.00
Gallery Collection	*68352FZ	Italy	B.03.00
Gallery Collection	*68352FE	Spain	B.03.00
Gallery Collection	*68352FF	France	B.03.00
Gallery Collection	*68352FN	Norway	B.03.00
Gallery Collection	*68352FS	Sweden	B.03.00
Gallery Site Lic.	68352LD/ QD/SD	Germany	
Gallery Site Lic.	68352LF/QF/ SF	France	
HPWord Site Lic.	27536LF/QF/ SF	Eur. English	
HPWord Vectra	27536FB	Eur. English	A.02.01
HPWord Vectra	27536FC	Canada	A.02.01
HPWord Vectra	27536FD	Germany	A.02.01
HPWord Vectra	27536FF	France	A.02.01
HPWord Vectra	27536FH	Netherlands	A.02.01
HPWord Vectra	27536FN	Norway	A.02.01
HPWord Vectra	27536FY	Denmark	A.02.01
HPWord Vectra	27536FX	Finland	A.02.01
HP Access Vectra	36898FD	Germany	F.01.01
Lotus 1-2-3	*68340FB	Eur. English	2.01
Lotus 1-2-3	*68340FD	Germany	2.01
Lotus 1-2-3	*68340FE	Spain	2.00
Lotus 1-2-3	*68340FF	France	2.01
Lotus 1-2-3	*68340FS	Sweden	2.01
Lotus 1-2-3	*68340FZ	Italy	2.01

*Software available in 3½-inch media. Order Option 003.

Name	HP Product Number	Country	Revision
MS-DOS	+*45951CD	Germany	3.2
MS-DOS	+*45951CE	Spain	3.2
MS-DOS	+*45951CF	France	3.2
MS-DOS	+*45951CH	Netherlands	3.2
MS-DOS	+*45951CM	Latin America	3.2
MS-DOS	+*45951CN	Norway	3.2
MS-DOS	+*45951CP	Switzerland-German	3.2
MS-DOS	+*45951CQ	Switzerland-French	3.2
MS-DOS	+*45951CS	Sweden	3.2
MS-DOS	+*45951CU	United Kingdom	3.2
MS-DOS	+*45951CW	Belgium	3.2
MS-DOS	+*45951CX	Finland	3.2
MS-DOS	+*45951CY	Denmark	3.2
MS-DOS	+*45951CZ	Italy	3.2
MS-DOS	†45951BD	Germany	3.2
MS-DOS	†45951BE	Spain	3.2
MS-DOS	†45951BF	France	3.2
MS-DOS	†45951BH	Netherlands	3.2
MS-DOS	†45951BM	Latin America	3.2
MS-DOS	†45951BN	Norway	3.2
MS-DOS	†45951BP	Switzerland-German	3.2
MS-DOS	†45951BQ	Switzerland-French	3.2
MS-DOS	†45951BS	Sweden	3.2
MS-DOS	†45951BU	United Kingdom	3.2
MS-DOS	†45951BW	Belgium	3.2
MS-DOS	†45951BX	Finland	3.2
MS-DOS	†45951BY	Denmark	3.2
MS-DOS	†45951BZ	Italy	3.2
PageMaker	45964AD	Germany	
PageMaker	45964AF	France	
PageMaker	45964AE	Spain	
PageMaker	45964AZ	Italy	
PageMaker	45964AS	Sweden	
Symphony	68339FB	Eur. English	2.0

*Software available in 3½-inch media. Order Option 003.

†MS-DOS products are not supported on non-HP personal computers.

Name	HP Product Number	Country	Revision
Vectra Office Assist. Bundle	68301FB	Eur. English	
Vectra Office Assist. Bundle	68301FF	France	
Vectra Office Assist. Bundle	68301FZ	Italy	
Vectra Office Assist. Bundle	68301FD	Germany	
Vectra Office Assist. Bundle	68301FH	Netherlands	
Vectra Office Assist. Bundle	68301FY	Denmark	
Vectra Office Assist. Bundle	68301FS	Sweden	
Vectra Office Assist. Bundle	68301FX	Finland	
Vectra Office Assist. Bundle	68301FE	Spain	
Vectra Office Assist. Bundle	68301FN	Norway	
Vectra Office Entry Bundle	*68306FB	Eur. English	
Vectra Office Entry Bundle	*68306FD	Germany	
Vectra Office Entry Bundle	*68306FE	Spain	
Vectra Office Entry Bundle	*68306FF	France	
Vectra Office Entry Bundle	*68306FH	Netherlands	
Vectra Office Entry Bundle	*68306FN	Norway	
Vectra Office Entry Bundle	*68306FS	Sweden	
Vectra Office Entry Bundle	*68306FX	Finland	
Vectra Office Entry Bundle	*68306FY	Denmark	
Vectra Office Entry Bundle	68306FZ	Italy	
Vectra Office Prof. Bundle	68300FB	Eur. English	
Vectra Office Prof. Bundle	68300FF	France	
Vectra Office Prof. Bundle	68300FZ	Italy	
Vectra Office Prof. Bundle	68300FD	Germany	
Vectra Office Prof. Bundle	68300FH	Netherlands	
Vectra Office Prof. Bundle	68300FY	Denmark	
Vectra Office Prof. Bundle	68300FS	Sweden	
Vectra Office Prof. Bundle	68300FX	Finland	
Vectra Office Prof. Bundle	68300FE	Spain	
Vectra Office Prof. Bundle	68300FN	Norway	



*Software available in 3½-inch media. Order Option 003.

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.

This section lists the localized software exchange kits available for the Touchscreen/150 and the 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.

Ordering

To order, call HP DIRECT. For the appropriate phone number for your country, see "How to Order" in the green pages of this issue.

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.**

Product	Country	Version	Order HP Part #
Touchscreen/150 Upgrade Kits			
HPWord/PC	France	A.02.01	27505-60010
HPWord/PC	Norway	A.02.01	27505-60011
HPWord/PC	Germany	A.02.01	27505-60012
HPWord/PC	Denmark	A.02.01	27505-60015
HPWord/PC	Finland	A.02.01	27505-60013
HPWord/PC	Netherlands	A.02.01	27505-60014
HP Vectra PC Upgrade Kits			
Executive MemoMaker	France	A.03.01	68330-60011
Executive MemoMaker	Spain	A.03.01	68330-60010
Executive MemoMaker	Finland	A.03.01	68330-60015
Executive MemoMaker	Italy	A.03.01	68330-60017
Executive MemoMaker	Norway	A.03.01	68330-60013
Executive MemoMaker	Germany	A.03.01	68330-60009
Executive MemoMaker	Netherlands	A.03.01	68330-60012
Executive MemoMaker	Europe	A.03.01	68330-60008

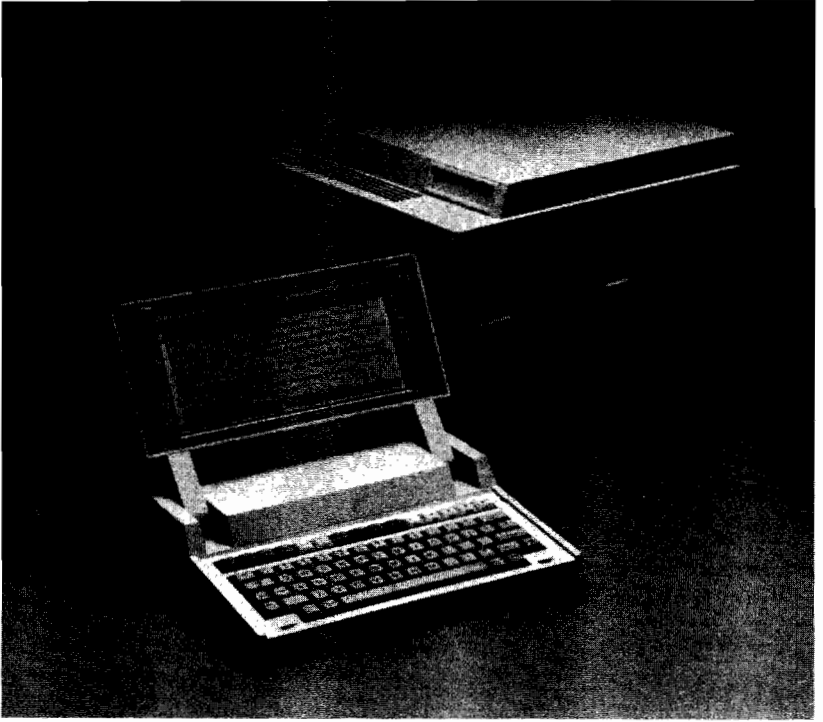
Product	Country	Version	Order HP Part #
Gallery Collection	Spain	B.03.00	68352-60006
Gallery Collection	Germany	B.03.00	68352-60005
Gallery Collection	Italy	B.03.00	68352-60013
Gallery Collection	Finland	B.03.00	68352-60011
Gallery Collection	France	B.03.00	68352-60007
Gallery Collection	Sweden	B.03.00	68352-60010
Gallery Collection	Denmark	B.03.00	68352-60012
Gallery Collection	Netherlands	B.03.00	68352-60008
HPWord/PC	France	A.02.01	27536-60002
HPWord/PC	Norway	A.02.01	27536-60003
HPWord/PC	Germany	A.02.01	27536-60004
HPWord/PC	Denmark	A.02.01	27536-60007
HPWord/PC	Finland	A.02.01	27536-60005
HPWord/PC	Netherlands	A.02.01	27536-60006

□

For Asian countries only:

Name	HP Product Number	Special Requirements
COMMUNICATIONS:		
Japanese AdvanceLink 2392	68333WJ	
Traditional Chinese AdvanceLink 2392	68333W Opt. ZAA	Minimum 384K Memory
Korean AdvanceLink 2392	68333W Opt. ZAB	Minimum 384K Memory
SPREADSHEETS:		
Japanese Executive Spreadsheet	68332WJ	
Traditional Chinese Executive Spreadsheet	68332W Opt. ZAA	Minimum 384K Memory
Korean Executive Spreadsheet	68332W Opt. ZAB	
WORD PROCESSING:		
Traditional Chinese Executive MemoMaker	68330W Opt. ZAA	Minimum 384K Memory
Korean Executive MemoMaker	68330W Opt. ZAB	
GRAPHICS:		
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	

□



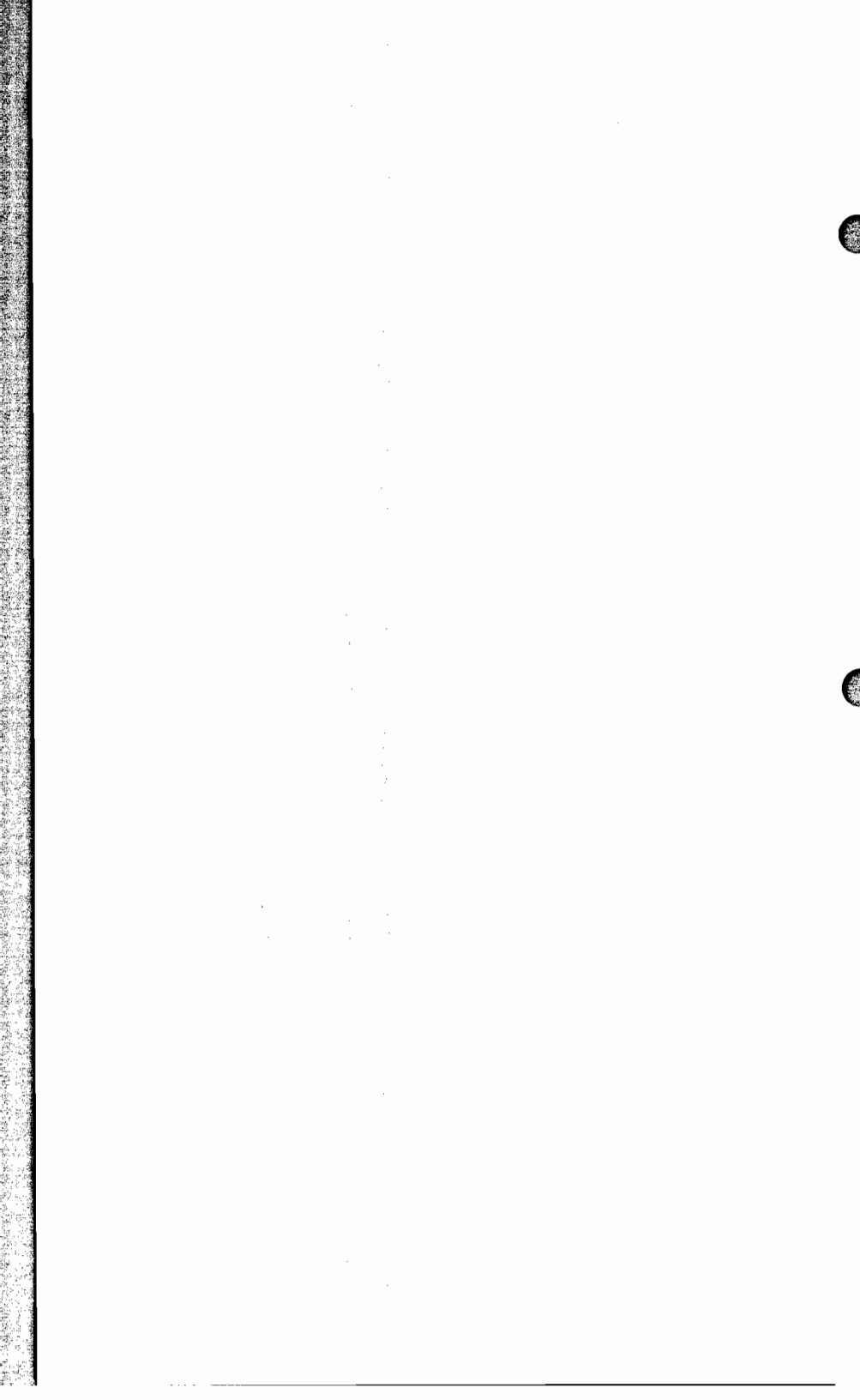
HP Portable/HP Portable Plus Software Available from HP

Debbie Williams

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

Name	HP Product Number	Portable	Portable Plus
COMMUNICATIONS:			
REFLECTION 1 (ROM)	82863K		•
	Opt. 400		
YTerm	82867K		•
	Opt. 630		
AdvanceMail (ROM)	82870K		•
	Opt. 400		
DATA BASE MANAGEMENT:			
Executive Card Manager (ROM)	45555K		•
	Opt. 400		
PROGRAMMING LANGUAGES AND DEVELOPMENT TOOLS:			
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		•
SPREADSHEETS:			
Lotus 1-2-3 V. 2.01 (ROM)	45539K		•
	Opt. 400		
WORD PROCESSING:			
MemoMaker/Time Management (ROM)	45504K		•
	Opt. 400		
Microsoft SPELL	45556D	•	•
Microsoft WORD	45474D	•	
Microsoft WORD (ROM)	45549K		•
	Opt. 400		
MultiMate (ROM)	45554K		•
	Opt. 400		





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

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

Product Name	HP Product #	Superseded by:
DATA COMMUNICATIONS:		
AdvanceLink	45431E	AdvanceLink—68333F
Monitor/IBM PC	45439A	AdvanceLink—68333F
DATABASES:		
Personal Card File	45422E	Executive Card Manager— 68331F
WORD PROCESSING:		
Memomaker/IBM PC	45420E	Executive Memomaker— 68330F
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.
SPREADSHEETS:		
Executive Spreadsheet	68332F	

The Portable or the Portable Plus:

Product Name	HP Product #	Superseded by:
SPREADSHEETS:		
Lotus 1-2-3 Release 1A	45548K #400	45539K #400 (1-2-3 ver. 2.01)



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.

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
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)
40296A	Backup Power Supply
92160A	Thermal paper, blue print (box of 24 rolls)
92160B	Thermal paper, black print (box of 24 rolls)

Product Name	Touchscreen/150: HP Product #	Superseded by:
GRAPHICS:		
Charting Gallery/Executive MemoMaker Bundle	45440A	Sold separately: Charting Gallery—45513A and/or Executive MemoMaker—45418A
Series 100 Graphics—U.S. Graphplan by Chang Labs	45410A 45467A	Charting Gallery—45513A Available from Chang Labs
Graphwriter Basic Set	45484A	None
PFS: Graph	45490A	None
INTEGRATED SOLUTIONS:		
ExecuDesk System	45442A	ExecuDesk sold separately—45444A
SPREADSHEETS:		
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
WORD PROCESSING:		
MemoMaker/150—U.S. English Touchscreen	45420A	Executive MemoMaker/150—45418A
PFS: Write	45489A	None
Microsoft Spell	45556D	Included in Microsoft Word (45474D)

Product Name	HP Product #	Superseded by:
WordStar/150—U.S. English	45400A	WordStar—Professional—45427D
MailMerge—U.S. English	45401A	Included in WordStar Professional—45427D
SpellStar	45402A	SpellStar has been superseded by CorrectStar which is included in WordStar Professional—45427D. 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	45400D	Included in WordStar Professional (45427D)
WordStar Professional Options	45429D	

92165A	2 plug surge suppressor
92165B	4 plug surge suppressor
92165C	6 plug surge suppressor
92165R	RS-232C surge protector
92171C	Keyboard drawer park
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
92251P	Dust cover for Touchscreen "stacked"
92261R	ThinkJet paper catcher (use with 92171X printer stand)
92268A	4 metre StarLAN cable. 8-pin connected/4 twisted pair unshielded cable with RJ45 connectors
92268B	8 metre StarLAN cable. 8-pin connected/4 twisted pair unshielded cable with RJ45 connectors
92268C	16 metre StarLAN cable. 8-pin connected/4 twisted pair unshielded cable with RJ45 connectors
92268D	32 metre StarLAN cable. 8-pin connected/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
35178D	Portable Vectra CS cordura carrying case
35184E	Deskplotter software (allows DeskJet to do plotter graphics)
35188A	LaserPlotter software (allows laser to do plotter graphics)
35188D	iPrint software (allows LaserJet to print & fill-in forms)
35190J	LaserControl software (print Lotus sideways)
35190P	Jetplotter software (allows InkJet printers to emulate plotters)
45741A	Monochrome video extension cable
45742A	Color video extension cable
45986A	Security System Lock
46296A	Backup Power Supply
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)
92192T	205' formatted/certified mini data cartridge, 40 MB formatted (box of 5)
92192X	3.5" micro flex discs, high-density (box of 10)
92208A	Mobile PC Centre
92259A	Vectra PC, Vectra ES dust cover for monochrome monitor and keyboard
92259B	Vectra PC, Vectra ES dust cover for color/EGA monitor and keyboard
92259K	Vectra CS/ES/RS dust cover for monochrome monitor and C1405A keyboard
92259L	Vectra CS/ES/RS dust cover for EGA monitor and C1405A keyboard
92261R	ThinkJet paper catcher (use with 92171X printer stand)
92268A	4 metre StarLAN cable. 8-pin connected/4 twisted pair unshielded cable with RJ45 connectors
92268B	8 metre StarLAN cable. 8-pin connected/4 twisted pair unshielded cable with RJ45 connectors
92268C	16 metre StarLAN cable. 8-pin connected/4 twisted pair unshielded cable with RJ45 connectors
92268D	32 metre StarLAN cable. 8-pin connected/4 twisted pair shielded cable with RJ45 connectors

For Disc Drives

■ HP 9122C and 9153C 3.5-inch Disc Drives

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)
92192A	3.5-inch micro flexible discs—double-sided (box of 10)
92192N	3.5-inch micro flexible discs—double-sided (box of 100)
92192X	3.5-inch high density microflexible discs (box of 10)

■ **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)
- 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)
- 92192N 3.5-inch micro flex discs—double-sided (box of 100)
- 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 1.44 MB 3.5-inch Disc Drive for the Vectra PC**

- 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)
92192A 3.5-inch micro flexible discs—double-sided (box of 10)
92192N 3.5-inch micro flexible discs—double-sided (box of 100)
92192X 3.5-inch high density microflexible discs (box of 10)

■ **HP 9142A Cartridge Tape Drive**

- 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)
92193E Cleaning cartridge kit
92193P Replenishment kit for 92193E cleaning cartridge kit
92242L 600-foot data cartridge, 52 MB formatted capacity (box of 5)
92242S 150-foot data cartridge, 15 MB formatted capacity (box of 5)

■ **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)
92193E Cleaning cartridge kit
92193P Replenishment kit for 92193E cleaning cartridge kit

■ **HP D1671A Cartridge Tape Drive**

- 92192Q Storage tray for 92192T tapes (holds up to 18 tapes)
92192T 205' formatted/certified mini data cartridge, 40 MB formatted (box of 5)

For Printers

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

- 17301A PaintJet softfonts for Microsoft Windows
35190P Jetplotter software (allows PaintJet to emulate plotter)
51606A Black ink print cartridge
51606C Color ink (cyan, magenta, yellow) print cartridge
51630P Z-fold PaintJet printer paper (250 sheets)
51630Q PaintJet transparency film (50 sheets with sleeves)
51630R Z-fold PaintJet paper, A4 size (250 sheets)
51630S PaintJet transparency film, A4 size (250 sheets)
51630Y Cut-sheet PaintJet printer paper (250 sheets)
51630Z Cutsheet PaintJet paper, A4 size (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

35177M	Jetstart software (allows ThinkJet to work with Apple Macintosh)
35178C	Carrying Case
51604A	Plain paper ink cartridge (black)
51605B	Jet Paper ink cartridge (blue)
51605G	Jet Paper ink cartridge (green)
51605R	Jet Paper ink cartridge (red)
35190P	Jetplotter software (allows ThinkJet Printer to emulate plotter)
51630A	Fan-fold Jet Paper (500 sheets/box)
51630J	Cut-sheet 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	Jet Paper ink cartridge (black)
92261D	Accessory Kit (2 Jet Paper cartridges, 500 sheets fanfold paper, 500 sheets cut paper, 1 dust cover, and 1 printer stand)
92261N	Fan-folded 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

51604A	Plain paper ink cartridge (black)
51605B	Jet Paper ink cartridge (blue)
51605G	Jet Paper ink cartridge (green)
51605R	Jet Paper ink cartridge (red)
51630B	Z-fold wide Jet Paper for QuietJet Plus (500 sheets)
51630D	Z-fold wide Jet Paper for QuietJet plus (2500 sheets)
92250X	QuietJet dust cover
92250W	QuietJet Plus dust cover
92261A	Jet Paper ink cartridge (black)
92261G	Paper catcher for 92261T/U printer stands
92261P	QuietJet Plus accessory kit (1 each black, blue, green, and red Jet Paper cartridges, printer stand, dust cover, printer paper)
92261T	QuietJet Plus printer stand
92261U	QuietJet printer stand
35190P	Jetplotter software (allows QuietJet to emulate plotter)

■ HP 2235A/B/C/D RuggedWriter Printer

35190R	Matrix Plotter software (allows RuggedWriter to do graphics at 180 x 360 D.P.I.)
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 2276A DeskJet Printer**

22707A	128K RAM cartridge for use with soft fonts
22707E	Epson FX-80 printer emulation cartridge
22708A	TmsRmn/Helv soft font (requires additional 128K or 256K RAM, depending on application)
35184E	Deskplotter software (allows DeskJet to do graphics by emulating plotters)
51608A	Black print cartridge
92250R	DeskJet printer dust cover

Font Cartridges for HP 2276A DeskJet Printer:

22706A	Courier
22706B	Prestige Elite
22706C	Letter Gothic
22706D	TmsRmn 8 & 10 Point
22706E	TmsRmn 12 Point
22706F	TmsRmn 14 Point
22706G	Helv 8 & 10 Point
22706H	Helv 12 Point
22706J	Helv 14 Point
22706M*	Presentations
22706P*	TmsRmn ASCII
22706Q*	Helv ASCII
22707K	Landscape upgrade cartridge
22707L	Landscape fonts cartridge (must use with 22707K only)

*This font cartridge contains ASCII characters only and may not be suitable for use in countries requiring non-English characters and symbols.

■ HP 2686A LaserJet Printer

35188A	LaserPlotter software (allows LaserJet to do graphics by emulating plotters)
35190J	LaserControl software (allows Lotus to print sideways by permitting pop-up font control)
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)
92157K	1" labels (other sizes also available)
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
92285J	Transparencies
92285P	Font Organizer
92295C	Dust cover

■ HP 33440A LaserJet Series II Printer

35188A	LaserPlotter software (allows LaserJets to do graphics by emulating plotters)
35190J	LaserControl software (to drive LaserJet)
92157K	1" labels (other sizes also available)
92211B	Mobile printer cabinet
92259G	Dust cover
92285J	Transparencies
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 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)
35188A	LaserPlotter software (allows full page graphics output by emulating plotters)
35190J	LaserControl

■ **HP LaserJet 500 Plus Printer**

92211B	Mobile printer cabinet
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 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)
92269A	Desktop printer stand

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**

07550-60210	Dust cover (7550A)
07440-60006	Dust cover (Color Pro)
07475-60010	Dust cover (7475A)
35184B	Plotstart software (allows HP plotters to work with Apple Macintosh)
92166E	Plotter sound enclosure (for ColorPro, 7470A & 7475A plotters only)
92177V	Personal Plotter-pen organizer (for fiber-tip pens)
92177I	Plotter-pen organizer (for short pens)
92177U	Plotter-pen organizer (for tall pens)
92177W	ColorPro (7440A) graphics organizer
92177X	7475A graphics organizer
92177Y	7550 graphics organizer
92214P	Mobile support stand (7475)
92250N	Dust cover (7470A)
92269A	Desktop stand (7470A, ColorPro)





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.

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.

**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.

■ *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)

■ *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)

■ *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)

■ *AdvanceWrite Plus Course 1*

Provides AdvanceWrite Plus users with an introduction to the basic features of AdvanceWrite Plus. Students develop expertise in creating, editing and formatting documents. Students will also be introduced to file use and directories.

HP 27542A

■ *AdvanceWrite Plus Course 2*

Provides AdvanceWrite Plus users with the ability to use the mailmerge facility to produce standard letters, to use Wordbase Manager, to create tables of contents and indices, to use the spreadsheet feature, and to use other advanced features of AdvanceWrite Plus.

HP 27543A

■ *AdvanceWrite Plus Course 3*

Provides AdvanceWrite Plus users with an overview & understanding of the major new product features. Students will practice the integration of graphic images into a document, using advanced formatting capabilities, and using the printing options available in AdvanceWrite Plus.

HP 27544A

■ *AdvanceWrite Plus*

Covers the material in HP 27542A, HP 27543A and HP 27544A for DOS-compatible keyboards.

HP 27547A

■ *AdvanceWrite Plus Advanced Features*

Covers the material in HP 27543A & HP 27544A.

HP 27548A

■ *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)

■ *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)

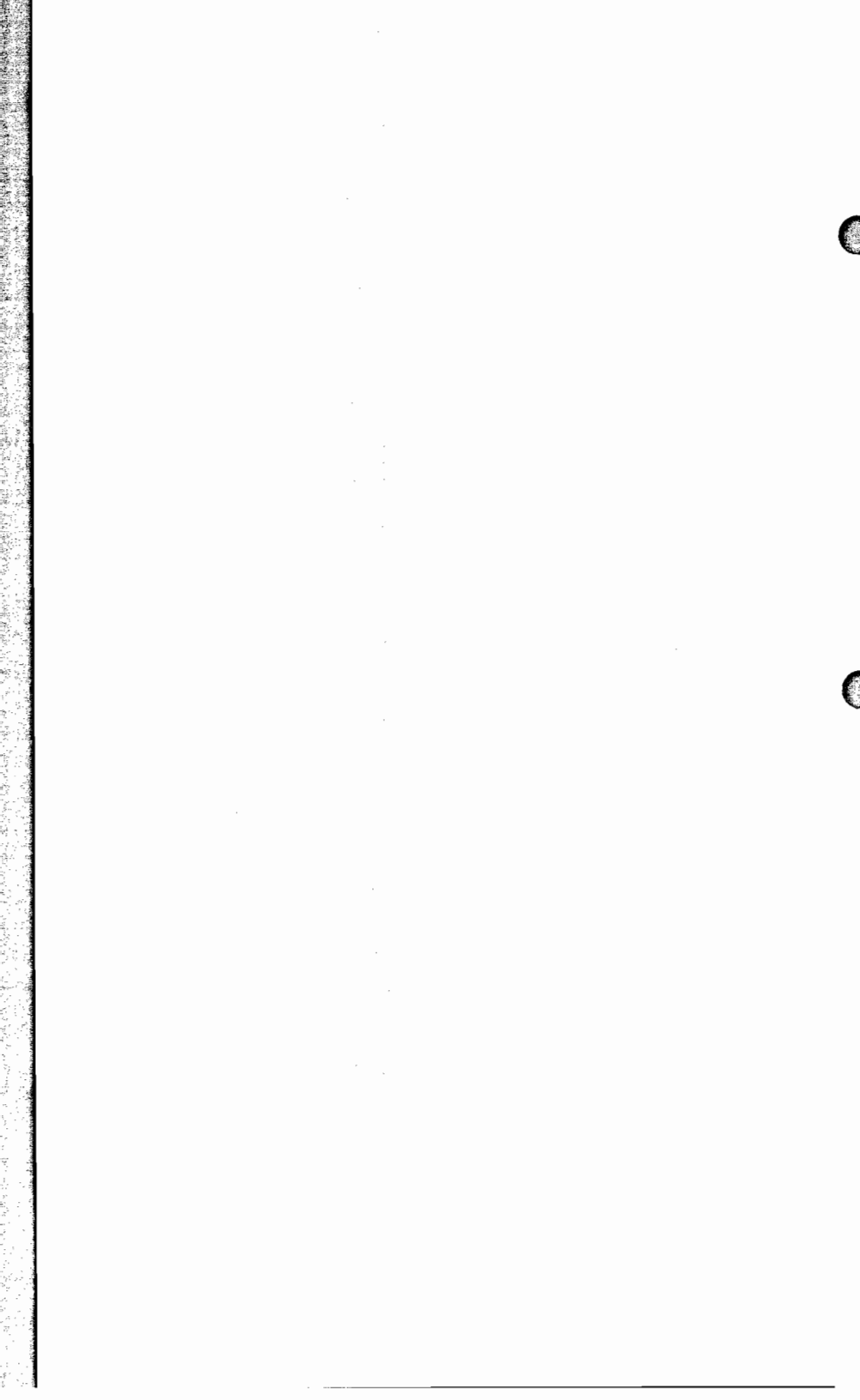
HP Customized Training

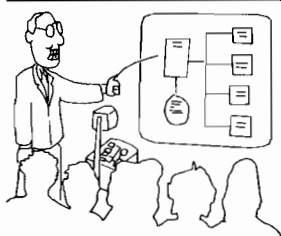
These courses can be taught at your facility using your own systems—or training to suit your specific needs can be designed and given through HP's Personal Computer Applications Engineering Consulting Service. Contact your HP sales and service office for details.

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.

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
 Additional Student Training Discs (5 pack) HP 68351P

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.



Gallery Collection

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 HP 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.

Executive Card Manager

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.

Ordering Information

To order Classroom Learning Packs or Student Training Discs, contact your local dealer or HP office.





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 for version A.01.03 of Windows. The **Windows HP ExpertGuide for Microsoft Windows** 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 for Microsoft Windows—HP Part Number 5958-7685.

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



**The First Step
Toward Effective
Vectra Use**

Vectra PC Fundamentals: A Computer-Based Tutorial is a computer-based software package designed to introduce users of the original Vectra PC to the system as well as to provide more in-depth lessons for the more experienced user. This tutorial is highly interactive and its modular format permits users to learn at their own pace and at their own convenience.

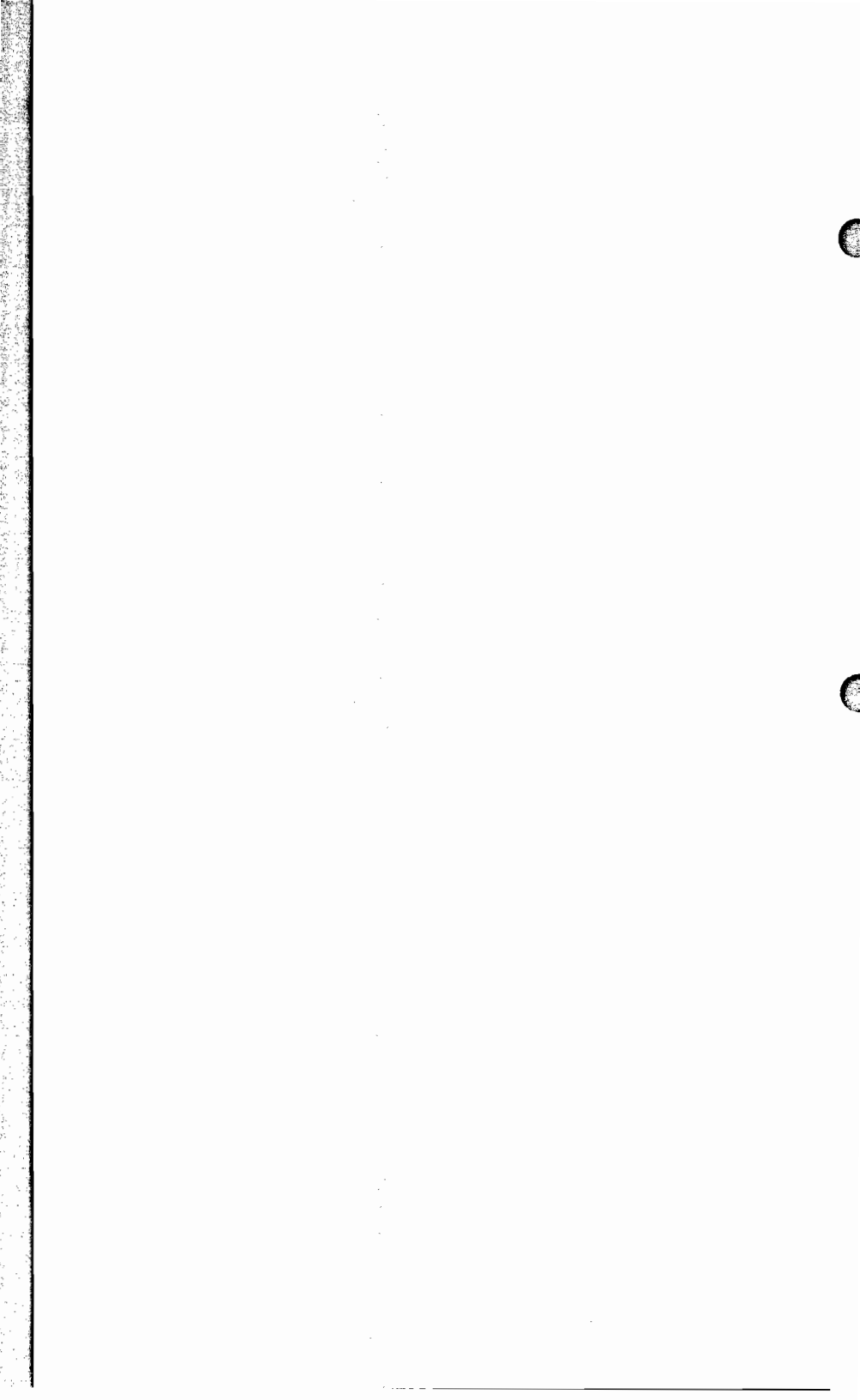
This computer-based tutorial is an ideal way to come up to speed on Vectra PC basics and to obtain efficiently the solid background necessary to be a productive applications user. Upon completion of the four-to-six hour tutorial, users will have gained:

- An understanding of basic microcomputer terms and concepts;
- An understanding of how to start and stop the Vectra PC;
- Experience in the use of the keyboard;
- An understanding of the components of the computer and their functions;
- The ability to differentiate between an operating system and application software;
- The ability to use PAM to perform basic file management and directory management tasks; and
- An ability to use sixteen of the most essential MS-DOS commands.

To Order

To order Vectra PC Fundamentals, contact your local dealer or sales office and request HP product number 51410A.





If you can't wait long for answers to questions about application software and hardware configurations, you should know about HP's Personal Computer Assistance services. They give you access to experts at HP Response Centers, five days a week. Utilizing state-of-the-art telecommunications and knowledge databases, these professionals can quickly pinpoint solutions.

HP offers two Personal Computer Assistance services for the mid- to large-size company with an internal support staff.

- **Workgroup Coordinator Assistance—Business Software** provides designated staff members with unlimited telephone assistance for application software used on a variety of HP personal computers. With a response time of two hours or less, this service makes sure you receive the prompt and expert attention your business demands. You also receive a subscription to this magazine, the bi-monthly *HP PC Communicator*.
- **Workgroup Coordinator Assistance—Vectra Office** provides workgroup coordinators with unlimited telephone support, specifically for the HP Vectra office software used on HP Vectra PCs. You also receive a subscription to *HP PC Communicator*.

HP also offers support services for the small business or individual user:

- **PC User Assistance** makes the same Response Center specialists available to individual users interested in peak productivity. Unlimited telephone assistance and a two-hour response time ensure that you are getting the most from our popular software packages. The *HP PC Communicator* subscription is included with this service also.
- **HelpLine** provides you with a pay-as-you-go alternative for software support. If you don't often need assistance, this service may be right for you. You receive direct access to Response Center specialists with the same two-hour response time. Special certificates let you purchase assistance in advance or you can charge the toll-free call to your personal or company credit card. (Available U.S. and Canada only.)

Ordering Information

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 is ordering information for some of the telephone assistance products.

Telephone Assistance for Internal Support Personnel:

- Workgroup Coordinator Assistance—
Business Software
Response Center caller plus
one alternate HP 99062A + D00
Each additional caller HP 99062A + P00
- Workgroup Coordinator Assistance—
Vectra Office
Response Center caller plus
one alternate HP 99090A + D00
Each additional caller HP 99090A + P00

Telephone Assistance for the End-User:

- PC User Assistance
Vectra Pre-Assembled Personal Computer Systems:
HP Vectra Publisher PC HP D1200A + E00
- Vectra CS Personal Computers:
Vectra CS Model 10 HP D1110A + E00
Vectra CS Model 11 HP D1111A + E00
Vectra CS Model 12 HP D1112A + E00
Vectra CS Model 16 HP D1116A + E00
Vectra CS Model 20 HP D1120A + E00
Vectra CS Model 21 HP D1121A + E00
Vectra CS Model 22 HP D1122A + E00
Vectra CS Model 26 HP D1126A + E00
- Vectra ES Personal Computers:
Vectra ES Model 10 HP D1210A + E00
Vectra ES Model 20 HP D1220A + E00
Vectra ES Model 21 HP D1221A + E00
Vectra ES Model 22 HP D1222A + E00
Vectra ES Model 26 HP D1226A + E00

Vectra ES/12 Personal Computers:

Vectra ES/12 Model 10	HP D1310A + E00
Vectra ES/12 Model 20	HP D1320A + E00
Vectra ES/12 Model 21	HP D1321A + E00
Vectra ES/12 Model 22	HP D1322A + E00
Vectra ES/12 Model 26	HP D1326A + E00
Vectra ES/12 Model 40	HP D1340A + E00
Vectra ES/12 Model 41	HP D1341A + E00
Vectra ES/12 Model 42	HP D1342A + E00
Vectra ES/12 Model 46	HP D1346A + E00

Vectra RS/16 Personal Computers:

HP Vectra RS/16 Model 40	HP D1500A + E00
HP Vectra RS/16 Model 100	HP D1502A + E00
HP Vectra RS/16 Model 106	HP D1501A + E00

Vectra RS/20 Personal Computers:

HP Vectra RS/20 Model 40	HP D1600A + E00
HP Vectra RS/20 Model 100	HP D1602A + E00
HP Vectra RS/20 Model 106	HP D1601A + E00
HP Vectra RS/20 Model 150	HP D1603A + E00
HP Vectra RS/20 Model 300	HP D1604A + E00
HP Vectra RS/20 Power User	HP D1606A + E00

Portable Vectra CS Personal Computers:

Portable Vectra CS	HP D1001A + E00
Portable Vectra CS 20	HP D1009A + E00

Portable Plus Personal Computers:

Portable PLUS	HP 45711E + E00
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The Touchscreen Personal Computers:

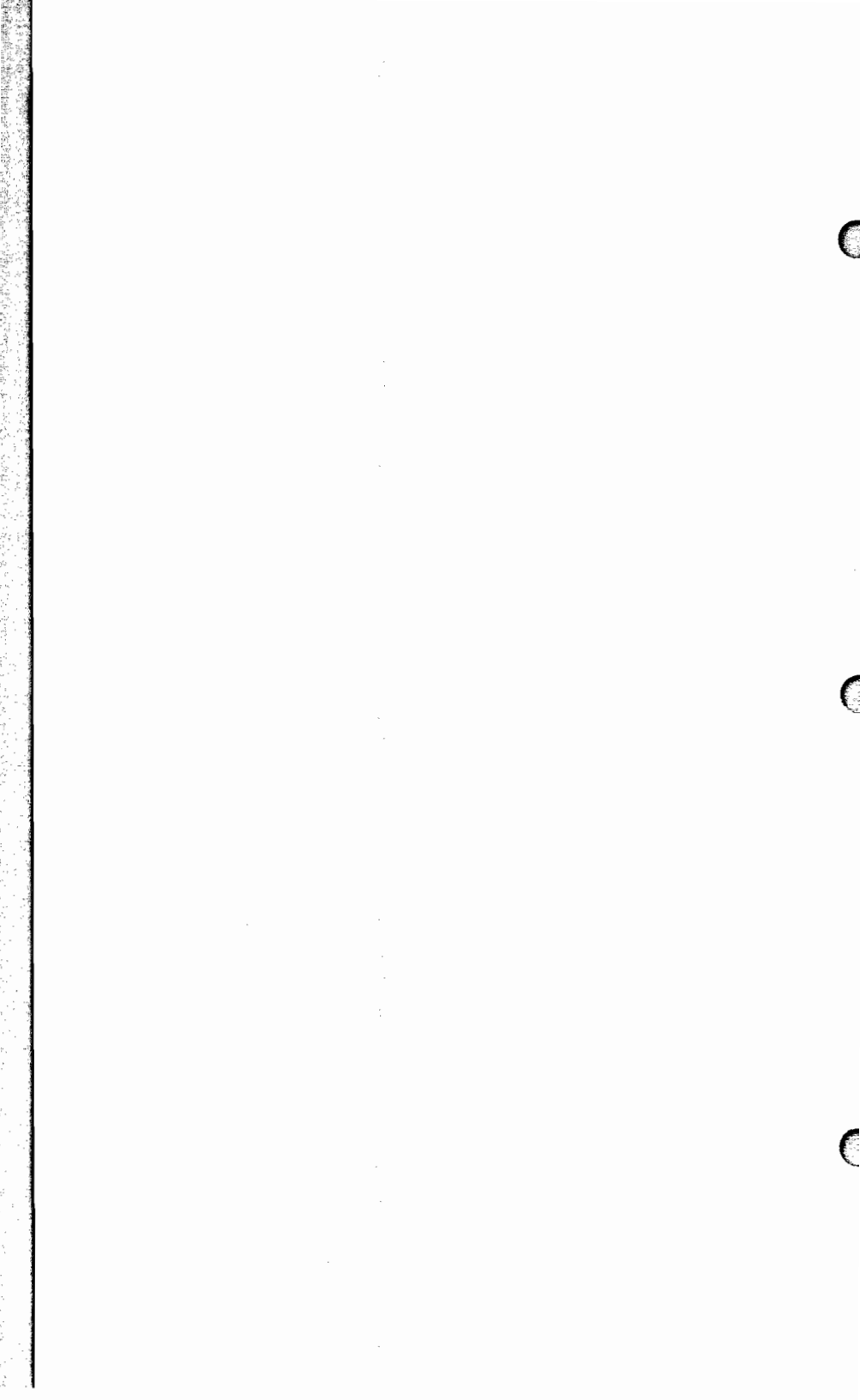
Touchscreen II	HP 45851A + E00
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■ **HelpLine*:**

Individual support calls may be charged to personal or company credit cards by calling (800) 858-8857. In addition, users may prepay for five calls by purchasing HelpLineCall Certificate Packs (HP 35159A) from HP DIRECT at (800) 538-8787.

*HelpLine services are available in the U.S. and Canada only.





The following is a list of manuals which can be ordered for the HP 150/Touchscreen PC and the HP Vectra PC family. To order, refer to the "How to Order" section in the "green pages" of this issue.

■ **HP Touchscreen/150**

- 45624A MS-DOS User's Guide for HP 150 (Includes binder and manuals 45624-90001, 90005, and 90006)
- 45625-90002 Technical Reference Manual Supplement
- 45625A HP 150 Technical Reference Manual (Includes 45625-90001 and 45625-90002)
- *45626-90003 More About Connecting HP Printers, Plotters, and Disc Drives
- *45626-90004 Using Your HP Touchscreen Personal Computer
- *45626-90005 Using Your HP Touchscreen Personal Computer as a Terminal
- 45643-90002 45643A Extended I/O Accessory Card Service Manual
- *45644-90002 45644A Etherlink/150 Accessory Service Manual
- 45847-60017 Using Your HP Touchscreen II as a Personal Computer Manual
- 45847-90001 Getting Started With Your HP Touchscreen II as a Personal Computer (150C)
- 45847-90044 Getting Started With Your HP Touchscreen II Personal Computer Manual
- 45847-90051 New Index—Using Your HP Touchscreen II Personal Computer
- 45847-90061 Using Your HP Touchscreen II Personal Computer Update
- 45848-60001 Using Your Touchscreen II as a Terminal (150C)
- 45848-90015 Using Your Touchscreen II as a Terminal Supplement
- 45849-60202 MS-DOS User's Guide for the HP 150/Touchscreen
- 45849-60204 HP 150 Programmer's Reference Manual
- 45849-90002 Touchscreen II Service Manual
- 45849-90046 Touchscreen II Personal Computer Operational Upgrade Instructions
- 45890-90002 HP 150 Expanded Memory Board Users and Installation Manual

■ HP Vectra PC Family

45897-90001	Vectra Hard Disc Multi Voluming Instruction Guide
45911-90002	45911A Graphics Tablet User's Manual
45918A	HP-HIL Technical Reference Manual
*45934-90001	Setting Up Vectra
*45934-90002	Connecting Peripherals To Vectra
*45934-90004	Vectra Installing Internal Options Chart
*45935-90059	Vectra CE Handbook
45945-60031	Vectra System BIOS Technical Reference Manual Kit (Contains manual 45945-90012 and binder)
45951-90066	MS-DOS 3.2 Condensed Reference Guide
5061-8971	MS-DOS 3.2 Programmer's Reference
5061-8982	HP Vectra ES Hardware Technical Reference Manual Kit (Contains manual 45945-90011 and binder)
5061-8983	HP Vectra Accessories Technical Reference Manual Kit (Contains manual 5959-6759 and binder)
5061-8986	Vectra RS Technical Reference Manual Kit (Contains manual 5959-2654 and binder)
5958-7685	HP Expert Guide for Microsoft Windows
5959-2650	HP Vectra RS Personal Computer Service Manual
D1001-90029	Setting Up the Portable Vectra CS Literature Pak
D1100-90001	HP Vectra CS PC Technical Reference Manual Kit (Contains manual 45932-90001 and binder)
D1135-90002	Vectra CS PC Service Manual
D1310-90001	HP Vectra ES Personal Computer Service Manual
D1350-90104	Vectra ES Series Set Up and HP Mode Configuration Bulletin

*These manuals are in support life. Customers may not receive original format.

Ordering *HP PC Communicator* Back Issues

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 in the Current Information “green pages” of this issue.

Listed below are the major articles of the “white pages” of each issue.

All articles, including the Encyclopedia articles of past issues, are also listed in the *HP PC Communicator* Master Index in the “yellow pages” of this issue. There is no index for Newsline and Bugline column items which appear in each issue.

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 #15955-3937

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

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

**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 #115958-0251

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 #125958-0252

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

Issue #16 includes the following major articles:

- "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 #215958-7675

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”

**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

**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



Issue #25 includes the following major articles:

- "Finer Gray Scale with Graphics Gallery 2.0"
- "Sending Multiple Gallery Files to Plot"
- "Using TIF Files with PageMaker"
- "Printing Images and Graphics with AdvanceWrite Plus"
- "Protecting BPI Data"
- "AdvanceWrite Plus and Print Central"
- "Notes on the HP 82973A HP-IL Card (PDL)"
- "Opening Two MS-DOS Windows"
- "Using MS-DOS and Microsoft Windows"
- "How to Install a Logitech Mouse"
- "HP SketchPro—New RS-232-C Graphics Tablet"
- "Announcing Five PC-305/308 Instrument Controllers"
- "Everything You Need for the HP PaintJet Printer"

HP PC Communicator Issue #25 5958-7679

Issue #26 includes the following major articles:

- "HP Vectra and PaintJet: Multi-Colored Printing with Executive MemoMaker"
- "HP Vectra: Executive MemoMaker and Extended Characters"
- "HP 150 and Vectra with Lotus 1-2-3: Using Macros to Enter Printer Setup Strings"
- "Exploring Text Features of Drawing Gallery 2.0"
- "Drawing Gallery Command File Interface"
- "AdvanceWrite: Printing in Landscape Mode"
- "Zip Command in R:BASE System V"
- "Printing in Scanning Gallery: Print vs. HP Direct Print"
- "Compression in Scanning Gallery"
- "AdvanceLink B.01.00 and Context Switching"
- "AdvanceLink: Questions and Answers"
- "AdvanceLink and X.25: Waiting for Remote Response"
- "HP Vectra CS PC: Selecting a Video Display Adapter"
- "Software for the HP DeskJet Printer"
- "Scanning Gallery Updated"
- "Scanning Gallery Version Comparison"
- "HP 150 and Vectra PCs: Executive Card Manager Upgrade"
- "Internal Tape Backup for the HP Vectra PC Family"

- “Expanded Memory for the HP Vectra ES and ES/12 PCs”
 - “HP Vectra RS PC Can Now Be Ordered”
 - “HP Vectra RS PC Accessories”
- HP PC Communicator Issue #26*5958-7680

Issue #27 includes the following major articles:

- “Understanding PageMaker: Common Questions and Answers”
- “HP Vectra: Accessing Extended ASCII Characters in Executive MemoMaker”
- “Executive Memomaker and DCA Converter Tips”
- “Passwords for Lotus 1-2-3 Worksheets”
- “HP Vectra: WordStar 2000 Release 2.00 and the PaintJet”
- “R:BASE and the Pack Command”
- “Executive Card Manager Record Duplication”
- “Using AdvanceMail Message Filters Feature”
- “Vectra Portable CS: Optimizing Battery Usage”
- “Soft Font File Names”
- “Do You Need a Security Manual?”
- “Are you Ready to Develop with C?”
- “New Lotus Utilities Bundled with 1-2-3”
- “New Cooperative Services Product”

HP PC Communicator Issue #275958-7681

Issue #28 includes the following major articles:

- “AdvanceWrite Plus and Bold Printing”
- “Scanning Gallery 2.0 Setup”
- “R:Base System V & 5000, User-Specified Options”
- “Windows 2.0 Upgrading and Installing”
- “Windows 2.0: A Directory to the Text Files”
- “AdvanceLink & Windows 2.0”
- “Windows 2.0 and Windows/386: Installation Tips If You Use PAM”
- “Windows 2.0, Windows/386 and Disc Cache Utilities”
- “Windows 2.0 and Windows/386: Changes in Program Information Files”
- “Windows 2.0 and Windows/386: HP LaserJet Printer Support”
- “Use Windows/386 Distributed Through HP”
- “Installing Windows/386”
- “Updating Windows/386 CONFIG.SYS & AUTOEXEC.BAT files”
- “WIN.INI File for Windows/386”
- “Memory and Windows/386”

- “HP Vectra RS PC: Memory Options”
 - “HP Vectra PC: Sharing a Daisywheel Printer”
 - “FontLoad & MakeFont Questions and Answers”
 - “HP 150: New Release of Executive MemoMaker”
 - “HP Vectra RS Power User PC Bundle Now Available”
 - “HP Vectra PC Family: New Products Summary”
 - “HP Vectra PC Family: New Video Products Summary”
 - “HP Vectra PC Family: New Pre-assembled PC Models”
 - “HP Vectra PC Family: Discontinued Video Products”
 - “OS/2 Now Available”
 - “HP Vectra ES PC: Dual Hard Discs Now Supported”
 - “HP Vectra PC Family: Add-on Hard Discs”
 - “HP Vectra RS PC SCO XENIX 386 Now Available”
 - “HP LaserJet Printer Family: Font Utilities”
- HP PC Communicator Issue #28 5958-7682*
Additional copies of this current issue are available.
HP PC Communicator Issue #29 5959-6765



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.

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.

HP Internal Orders

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.

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, as indicated for each product in the "Discontinued Software" table in this section.
- Availability of telephone assistance through Hewlett-Packard Help Line Response Centers.
- Continuing coverage in this magazine—the *HP PC Communicator*. (By the way, you can help—share your tips and ideas with other users—just send a note to the *HP PC Communicator* editor.)

Products Not Listed

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.

**Touchscreen/150
Software Exchange Kits**

Product	Version	Order HP Part # †	Notes
Touchscreen (HP 150B) Operating System and Utilities		45626-63007	1
Sys Master Disc			
MS-DOS	2.11		
MS-DOS COMMANDS	2.11		
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			
Touchscreen II Operating System and Utilities	2.11	45847-63004	2
MS-DOS	2.11		
MS-DOS COMMANDS	2.11		
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	

Product	Version	Order HP Part # †	Notes
Touchscreen Operating System (upgrade)	3.2	45849-63031	
Touchscreen II Operating System and Utilities		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		
System Master Exchange Kit		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		
Application Master Exchange Kit		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		
Utility Master Exchange Kit			
MS-DOS	E.01.01	45847-63032	
UTILITIES			

Product	Version	Order HP Part # †	Notes
AdvanceLink (upgrade)	A.04.04	45431-63002	
AdvanceLink (update)	A.04.04	45431-63001	
Application Master (150 B)	B.02.00	45626-63006	
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	
Drawing Gallery	A.02.01	45411-63002	
Drawing Gallery Upgrade	B.03.00	45411-60001	
DSN/Link	A.01.01	45425-63001	
ExecuDesk	A.01.01	45444-63001	
Executive Card Manager (Upg/rp)	A.02.00	45421-63004	
Executive MemoMaker (replacement)			
Gold, Utility and Fonts master	C.03.00	45418-63005	
Set-up and Dictionary master	C.03.00	45418-63007	
Executive MemoMaker (C.02.00 to C.03.00 upgrade)	C.03.00	45418-63006	
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	
Gallery Collection			
Bar, Line & Pie Charts	B.03.00	45513-63001	
Basic Portfolio Discs 1 & 2	B.03.00	45411-63004	
Basic Portfolio Discs 3 & 4	B.03.00	45411-63005	
Business Management Portfolio Discs 1-3	B.03.00	45570-63001	
Gold Master	B.03.00	5061-9914	
Set-up & Utility	B.03.00	5061-9917	
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	

Product	Version	Order HP Part # †	Notes
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	
MemoMaker Time Manager	A.02.00	45504-64002	
MS Word	B.01.00	45474-63002	
Pascal	*A.01.00	45447-63002	
PC Interface with HP 150	A.01.00	61060-63001	
PCF to Executive Card Manager (upgrade)	A.02.01	45421-63005	
Print Central	A.01.01	36890-63001	
Print Central Upgrade	A.03.00	32593-63001	
R:Base 5000	1.1	45563-63001	
R:Base 4000 to 5000	1.1	45563-63002	
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	
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	

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. 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—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 (45849-63024) 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).
 - 2—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 (45849-63024) 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.)
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**Vectra PC
Software Exchange Kits**

Product	Version or /Date Code	Order Part # †	Notes
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 Replacement	B.01.00	68333-65002	
AdvLink (Upgrade)	B.01.00	68333-65001	
BASIC Interpreter	2538	45952A	1
BASIC Interpreter (Upgrade/Replacement)	3.22	45952-63001	
CAT Upgrade			
5.25"	A.01.00	14573-61001	
3.5"	A.01.00	14753-61003	
CAT Replacement			
5.25"	A.01.00	14753-61002	
3.5"	A.01.00	14753-61004	
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	A.01.02	68330-65001	
Executive MemoMaker Upgrade	A.03.00	68330-60005	
Executive MemoMaker			
Application & Utility (5.25")	A.03.00	68330-65002	
Gold & Dictionary (5.25")	A.03.00	68330-65003	
Gallery Collection Upgrade	B.03.00	68352-60001	
Gallery Collection			
Application Master (5.25")	B.03.00	68351-65002	
Application Master (3.5")	B.03.00	68351-63001	
Bar, Line & Pie Charts (5.25")	B.03.00	68350-65001	
Bar, Line & Pie Charts (3.5")	B.03.00	68350-63001	
Basic Portfolio Discs 1, 2 & 3 (5.25")	B.03.00	68351-65001	
Basic Portfolio Discs 1 & 2 (3.5")	B.03.00	68351-63002	
Basic Portfolio Disc 3 (3.5")	B.03.00	68351-63003	
Business Management Portfolio Disc 1 (5.25")	B.03.00	68326-65001	
Business Management Portfolio Disc 2 (5.25")	B.03.00	68326-65002	



Product	Version or /Date Code	Order Part # †	Notes
Business Management Portfolio Disc 3 (5.25")	B.03.00	68326-65003	
Business Management Portfolio Discs I & II (3.5")	B.03.00	68326-63001	
Business Management Portfolio Disc III (3.5")	B.03.00	68326-63002	
Gold & Utility Master (5.25")	B.03.00	5061-9915	
Gold Master (3.5")	B.03.00	5061-9919	
Set-up Master (5.25")*	B.03.00	5061 ² -9916	
Graphics Gallery Update	A.01.00	68352-65002	
HP-IB Command Library (Upgrade)		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	
HP Terminal Program (3.5")	A.00.01	24597-65002	
MS-DOS Op Sys Disc	A.01.02	45951-60001	
MS-DOS Op Sys Disc	A.01.04	45951-63001	
MS-DOS Op Sys Disc	B.01.01	45951-63017	
MS Macro Assembler	4.0	45953-60001	
MS Windows (Upgrade, 5.25")	B.02.00	45954-60001	
MS Windows Kernal Set-up, Build & Display Discs (5.25")	B.02.00	45954-60002	
MS Windows Fonts & Utilities (5.25")	B.02.00	45954-60003	
MS Windows Applications & Write Discs (5.25")	B.02.00	45954-60004	
MS Windows Kernel (3.5") Set-up, Build & Display Discs	B.02.00	45954-60005	
MS Windows Fonts & Utilities (3.5")	B.02.00	45954-60006	
Multiple Character Set Utilities MCS	A.01.01	5061-8970	
Office Talk	A.01.02	24520-15001	
PageMaker	3.0		2
PC Instrument Data Acquisition	A.02.00	14856-65001	
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	

Product	Version or /Date Code	Order Part # †	Notes
R:Base Program Interface		68337-65001	
R:Base System V	1.1	68328-65012	
Scanning Gallery	A.02.00	68357-65001	
Scanning Gallery MS Windows Run-Time Version	A.01.00 & A.02.00	88290-10150	
Symphony	2538	68339-65001	
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.
- 2—Aldus Corporation, 411 First Ave. South, Suite 200, Seattle, WA 98104 U.S.; (206) 622-5500.

Portable Software Exchange Kits

Product	Version	Order Part # †	Notes
BASIC Interpreter	A.01.01	45445-63002	
BASIC Compiler	A.01.01	45446-63002	
Lotus 1-2-3 Upgrade (ROM)	2.01	45539-64001	
Prog. Tools	A.01.00	45419-63001	

**Discontinued Software
Replacement Media Exchange Kits**

Product (Notes)	Version	<u>Order Part Number†</u> 3.5" Disc	Exchange Available Through
Touchscreen/150:			
3278 Emulation	A.01.00	45641-63001	September, 1989
BPI Gen. Acctg.	A.01.00	45455-63001	June, 1990
BPI Personal Acctg.	A.01.11	45459-63001	June, 1990
BPI Accts. Rec.	A.01.11	45456-63001	June, 1990
Condor 1/150	A.02.11	45415-63002	April, 1990
Condor 3	A.02.11	45416-63002	January, 1992
Condor 3*	A.02.11	45415-63002	April, 1992
Context MBA/150	A.02.03	45481-63001	April, 1990
CorrectStar	3.32	45427-63002	September, 1992
CorrectStar hard-disc upgrade	3.32	45429-63002	September, 1992
CorrectStar to SpellStar	3.32	45429-63001	September, 1992
Diagraph	A.03.01	45463-63001	September, 1992
Gallery Picture Library Vol. II	A.01.00	45433-63001	September, 1992
Graphics (bar disc, text disc, pie disc, line disc, examples disc)	A.03.01	45410-63001	April, 1990
GraphPlan	1.00.T2	45467-63001	
GraphWriter	A.01.01	45484-63001	May, 1991
Lattice C Compiler	A.01.01	45452-63001	June, 1992
Lotus 1-2-3	1A		January, 1992
System Disc		45482-63001	
System Disc & Backup disc		45482-63004	
Utility		45482-63002	
Tutorial 1&2		45482-63003	
Printgraph		45482-63005	
MailMerge	A.03.30	45401-63001	March, 1990
MemoMaker	B.01.02	45420-63001	December, 1991
MicroPlan	4.04.T2	45465-63001	May, 1991
MicroPlan Consol.	4.04.T2	45466-63001	May, 1991
MS Spell	A.01.00	45556-63001	September, 1992
MultiMate	3.29	45424-63001	September, 1992
MultiPlan	A.01.10	45473-63002	May, 1991

**Discontinued Software
Replacement Media Exchange Kits**

Product (Notes)	Version	Order Part Number †	Exchange Available Through
		3.5" Disc	
Painter	A.01.00	45540-63001	September, 1992
PCF	B.01.02	45422-63001	December, 1990
PFS: File & Report	A.02.41	45488-63001	May, 1991
Picture Perfect	A.03.01	45462-63001	September, 1992
R:Base 4000	1.1	45545-63001	December, 1991
SpellStar	A.03.30	45402-63001	March, 1990
Transend COMPLETE	A.01.00	45414-63001	May, 1991
VisiCalc	B.01.02	45405-63004	April, 1990
WordStar (HP 150)	3.34	45400-65031	September, 1992
WordStar (150/110)	3.34	45400-63030	September, 1992
HP Vectra:			
Exec. Spreadsheet	A.01.01	68332-65001	September, 1992
TextChart	A.02.00	45406-65001	August, 1990
Portable/110:			
DataFax	A.01.01	45408-63001	December, 1990
dBaseII	*A.02.41	45468-63001	September, 1992
PC 2622 (Reflection)	1.0	82861-64001	March, 1991
Rags to Riches			
Ledger	A.01.00	45520-17301	December, 1992
Sales	A.01.00	45521-17301	December, 1992
Receivables	A.01.00	45522-17301	December, 1992
Payables	A.01.00	45523-17301	December, 1992
Reflection	1.0	82861-64002	March, 1991
WordStar (HP 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
HP 12x:				
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.02.00	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.

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 (HP Direct) 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.

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.

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.

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.

HP Employees

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



Ordering *HP PC Communicator* Subscriptions

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

This publication contains articles on how to best use your system, including programming techniques, information on software updates, notes on using applications, and corrections to manuals. The *HP PC Communicator* also lists known software problems and their solutions, and introduces new members of the HP PC family.

You can order a subscription by calling (415) 372-6002 in the U.S. Or you can write to: HP PC Communicator, P.O. Box 2678, Martinez, CA 94553 U.S.A.

HP product numbers 45530A/B/C are no longer available.

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.

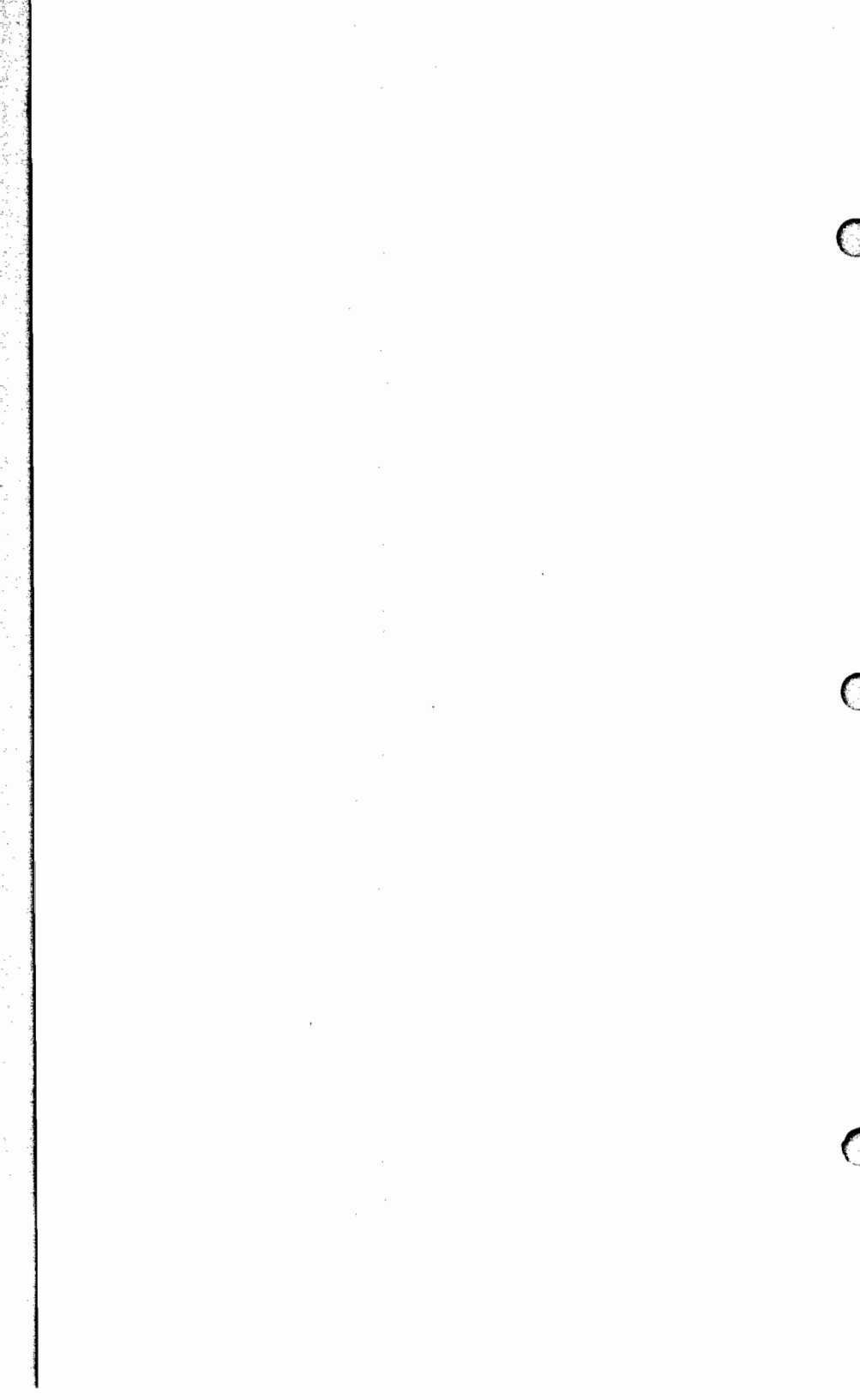
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Change the information on the mailing label by sending us the Change of Address form which appears at the end of this Current Information Insert. Allow six to eight weeks for the change to take effect.

HP Internal Users and HP Employees

Call (415) 372-6002 in the U.S., or write to: HP PC Communicator, P.O. Box 2678, Martinez, CA 94553 U.S.A. Get reimbursed through petty cash. Due to cost of processing please use HP purchase orders for multi-subscription orders only.





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