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Prepared by Software Marketing

Compaq Computer Corporation

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Installing Microsoft Windows 95 on Compaq Portable Computers

Abstract: This white paper focuses on the steps necessary for the successful installation of Microsoft Windows 95 OSR2 on Compaq Armada portable products. The steps outlined herein will provide the user with a complete installation procedure and will work regardless of the existing installed operating system. This white paper is intended for anyone wishing to install Microsoft Windows 95 OSR2 and can be distributed externally to Compaq customers.

For details on Compaq's overall operating system strategy, operating system features, and the installation of additional Service Packs, please refer to the white paper titled "Operating System Support for Compaq Portable Platforms."

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Installing Microsoft Windows 95 on Compaq Portable Computers White Paper prepared by Software Marketing

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Summary

This white paper discusses how to install Microsoft Windows 95 OSR2 on Compaq Armada portable products. The intent of the white paper is to provide step by step instructions for the installation process. When you have completed all of the procedures outlined for your specific platform, you will have successfully installed Windows 95 and all Compaq provided software deliverables that extends functionality and enhance the overall user experience.

NOTE: You must back up all data and applications prior to installing Windows 95 via these instructions

Installation Requirements and Dependencies

Before beginning the installation scripts for any of the platforms, you must obtain the items listed below.

The following items can be obtained directly from Microsoft:

- Microsoft Windows 95 OSR2 CD
- Microsoft MS-DOS v6.22 Boot Disk with FDISK utility

The following items can be obtained from Compaq:

• The latest Compaq Support Software CD containing all updated drivers and deliverables needed in the section, "Installation of Compaq Drivers and Enhancements." The Compaq Support Software CD is updated monthly and is available either via an annual subscription or as a one-time purchase. The user interface mirrors the Compaq Website.

Alternatively, all files may be obtained from the Compaq Website at <u>http://www.compaq.com/support/files/portables/us/index.html.</u> See Appendix 1, "Downloading Software from the Compaq Website" for instructions on using the Compaq Website if you are unfamiliar with obtaining SoftPaqs.

• You **must** obtain the latest version of the drivers and enhancements that are compatible with Windows 95. Previous versions may not work or may produce anomalies.

Alternatively, you may use the Compaq Software CD. **However**, many of these drivers and enhancements have been updated. Therefore, Compaq strongly suggests you obtain the latest versions from the current Compaq Support Software CD or the Compaq Website **before** you begin these installation procedures.

- The most current available ROM for your platform. See Appendix 4, "Determining your ROM Version and Upgrading if Needed" for information on determining your current ROM version and how to update if necessary.
- A blank, high-density floppy diskette if you choose to make the recommended Emergency Rescue Diskette.

Terms and Assumptions

NOTE: Attempt the installation of Windows 95 only while on AC Power. This prevents the unit from abruptly shutting down if it runs out of battery power, which could corrupt the installation.

- <u>Secondary-click</u> The term secondary-click is used throughout the scripts. For right-handed mouse users, this is the right mouse button. For left-handed mouse users, this is the left mouse button.
- <u>Drive Letters</u> All drive letters used for hard drives and CD-ROM drives are examples only. Your individual configuration may make the examples incorrect. For example, you are told to click CD-ROM drive D: when actually your CD-ROM drive letter is E:.
- <u>Drivers and Enhancement File Locations</u> Most drivers and enhancements are assumed to be in the directory C:\~COMPAQ\XXXXXX where XXXXXXX is the subdirectory name created by the SoftPaq utility for these scripts. See Appendix 2, "Using the SoftPaq Utility" if you are not familiar with the SoftPaq utility and how to extract files from them. One possible exception is the Real Mode CD-ROM drivers that may be on diskette, normally the A: drive.
- <u>Restarting the Computer</u> During the Windows 95 installation, and the installation of several drivers and enhancements, you are prompted to restart the computer. Please ensure that you have removed any floppy diskettes from the diskette drive and the Windows 95 CD from the CD-ROM drive as applicable before restarting the computer.
- <u>Real Mode CD-ROM Drivers</u> Depending upon your platform, these can be found on the Web, either under Windows 3.1, Windows 95 or Windows 98. They will be listed as either "IDE CD-ROM Drivers" under the Storage section or as "Real Mode Support" under the Utilities section.
- When the term Web is used, it is synonymous with the www.compaq.com/support/files/portables/us/index.html, the Support Software CD, the Compaq BBS, or the Compaq FTP site. It is important that you obtain the latest Windows 95 compatible drivers and enhancements from one of these sites.
- Instructions for using the Compaq Website and Compaq SoftPaqs are located in the appendices at the end of this document.

Installation Scripts

You must prepare a MS-DOS boot disk with the Compaq Real Mode CD-ROM drivers so that you have access to the CD-ROM drive during the installation procedure.

- 1. Connect the unit to an AC power source. This prevents it from abruptly shutting down if the battery power gets too low, which could corrupt the Windows 95 installation.
- 2. Undock your system and remove any PC cards from the PCMCIA slots. For information on docking your Armada Portable for the first time, see Appendix 5, "Docking for the First Time."
- 3. Obtain the latest Real Mode CD-ROM driver from the Web and extract it from the SoftPaq.
- 4. Copy the CD-ROM driver, the SYS utility, and the MSCDEX file to the MS-DOS boot diskette by typing the following commands at the DOS prompt, pressing **Enter** after each command:
 - a. COPY CPQLTECD.SYS A:
 - b. COPY MSCDEX.EXE A:
 - c. COPY SYS.COM A:
- 5. Create a CONFIG.SYS file and an AUTOEXEC.BAT file on the boot diskette to load the CD-ROM drivers. Use an editor of your choice to create a one line CONFIG.SYS file containing the entry:

DEVICE=CPQLTECD.SYS /D: IDECD001

Note: An editor is a program for creating and changing simple text files. Two examples are "EDIT" for DOS and "NOTEPAD" for Windows.

6. Use your editor to create a one line AUTOEXEC.BAT file containing the entry:

MSCDEX /D:IDECD001

If your hard drive does not currently have an operating system installed, or if your current operating system uses NTFS or HPFS for its file system, or if you have an operating system installed using the FAT file system and wish to remove it, perform steps 6a, 6b, and 6c to prepare the hard drive for Windows 98 installation. Otherwise, proceed to step 7.

Note: If you do not have a non-DOS partition as partition 1, Compaq strongly recommends the installation of Diagnostics and Setup **after** removing all other partitions and before proceeding with the operating system installation. For instructions on this installation, see Appendix 3, "Installing Diagnostics and Setup."

Exception: The Armada 6500 does not use standard Compaq Diagnostics and Setup.

- a. Back up all data and applications before removing any partitions and reformatting the hard drive or all data *will be lost*.
- b. Boot the system with the MS-DOS boot diskette inserted into the diskette drive.

IMPORTANT: Do not delete the non-DOS partition that contains your installed Compaq Diagnostics and Setup.

To repartition the hard drive with a single Primary DOS partition:

c. Type FDISK and press Enter.

If you are not sure about the use of the FDISK program, refer to Microsoft's KB article Q106423 for instructions. This article may be found online at http://support.microsoft.com/support/kb/articles/q106/4/23.asp.

- 7. Reformat the hard drive. Boot the system with the MS-DOS boot diskette inserted into the diskette drive.
- 8. Type FORMAT C:/S from the MS-DOS A:> prompt and press Enter.
- 9. When warned that all data on the hard drive will be deleted, press **Y** and **Enter** to proceed with formatting the hard drive.
- 10. Enter a volume label or simply press Enter. A "system transferred" message should appear.
- 11. Copy the Real Mode drivers, AUTOEXEC.BAT, and CONFIG.SYS from the boot diskette to the hard drive.

From the MS-DOS A:> prompt, type each of the following lines, pressing **Enter** at the end of each line:

- a. COPY AUTOEXEC.BAT C:
- b. COPY CONFIG.SYS C:
- c. COPY MSCDEX.EXE C:
- d. COPY CPQLTECD.SYS C: (You may have to check the floppy drive directory for this file.)
- 12. Armada 1500, 1700, 3500, 4100, and 4200 Family users should remove the Boot Diskette from the floppy drive and restart the system by simultaneously pressing and holding Ctrl, Alt, and Del.

Armada 6500 and 7000 Family users should power off the system, swap the diskette drive for the CD-ROM drive, and restart the computer. If you are not sure how to swap the diskette drive for the CD-ROM drive, see your unit documentation.

After the computer reboots and the C:> prompt is displayed, you are ready to install Windows 95.

Windows 95 Installation – Armada 1500, 1700, 3500, 4000, 6500, and 7000 Families

You are now ready to begin installing Windows 95. To install Windows 95:

- 1. Type D: and press Enter.
- 2. Type CD WIN95 and press Enter.
- 3. Type SETUP and press **Enter**. The next screen informs you that Setup will perform a routine system check.
- 4. Press Enter. The 'Welcome to Windows 95 Setup' screen is displayed.
- 5. Click **Continue**. The Software License Agreement is displayed.
- 6. Click **YES** to agree to the terms of the Licensing Agreement.
- 7. Windows 95 now needs to collect information about your computer. Click Next.
- Select the directory where the operating system will be installed. It is recommended that you select the default directory of C:\WINDOWS.
 - a. Click Next or click 'Other directory' and then click Next.
 - b. If you choose to use a directory other than the default, enter it now then click Next.
- 9. Select the type of installation to perform. If you are unsure about which type of installation to select, contact your IT department or choose PORTABLE. Click **Next**.
- 10. Enter the Certificate of Authenticity number or OEM Licensing Key found on the front of your Windows 95 manual then click **Next**.
- 11. Enter your name and company name (optional) using Tab to change between fields. Click Next.
- 12. If there is a check mark in the box by 'Sound, MIDI, or Video Capture Card' uncheck it by clicking the box. Click **Next**.
- 13. Windows 95 analyzes your computer. This takes several minutes to complete.
- 14. Select the Windows components to be installed.
 - a. If you are unsure, install the most common components by clicking **Next** otherwise click 'Show me the list of components so I can choose' then click **Next**.
 - b. Select the components you want to install then click Next.
 - c. The files are copied to the hard drive. Click **Next**.
- 15. This phase is complete. Click Finish to continue the setup procedure.
- 16. The unit reboots and Phase Two of Setup begins. This takes several minutes.
- 17. Using the right and left arrow keys, change the time zone to the correct time zone.
- 18. Click the tab labeled 'Date & Time', correct the date and time if necessary then click **Close**.
- 19. If you have a local printer attached to your computer, follow the steps outlined below. If not, skip to step 20 by clicking **Cancel**.
 - a. Click Next.
 - b. Scroll through the list of printer manufactures until you find the manufacturer or your printer then click on the manufacturer's name.
 - c. Scroll through the list of printer models and click on yours. If your printer model is not listed, contact the printer manufacturer for an updated driver.

- d. Click Next.
- e. Select the port to which the printer is attached (normally LPT1) then click Next.
- f. Click Next on the 'Printer Name' screen.
- g. Click **Finish** on the final screen then verify if the test page printed correctly. If it did, click **YES** to continue. If it did not, click **NO** and follow the on screen trouble-shooting procedures.
- 20. Click **OK** to restart your system.
- 21. After the unit reboots, click **Close** on the Welcome window.
- 22. Delete both the AUTOEXEC.BAT and CONFIG.SYS files from the root directory as outlined below to remove the Real Mode drivers.
 - a. Open Explorer and click on the (C:) icon.
 - b. Select **View** \rightarrow **Options** from the Explorer menu.
 - c. Select 'Show all Files' on the View tab then click OK. All files are displayed.
 - d. Highlight each of the files AUTOEXEC.BAT, CONFIG.SYS, CPQLETCD.SYS, MSCDEX.EXE one at a time then press **Del**. Confirm that you are deleting the correct files then click **YES**.
- 23. Enable the PCMCIA controller:
 - a. Select Start \rightarrow Settings \rightarrow Control Panel.
 - b. Double-click SYSTEM.
 - c. Click the tab labeled 'Device Manager.'
 - d. Scroll through the list of devices until you see 'PCMCIA Socket.'
 - e. Click the first device with a red X on it.
 - f. Click Properties.
 - g. Click the box labeled 'Disable in this hardware profile' to uncheck the selection.
 - h. The PC Card Wizard is started. Click Next twice.
 - i. Click **Finish** then **YES** to shutdown the system.

The Windows 95 installation is complete. Proceed to the section, "Installation of Compaq Drivers and Enhancements."

NOTE: You must install all drivers for your system to have complete functionality.

Installation of Compaq Drivers and Enhancements

Table 1 lists the necessary drivers and enhancements, available as of the publication of this white paper. You should always check the Compaq Website for the complete, up-to date list of available drivers and enhancements. The most current SoftPaq file name, as of the publication of this white paper, is also listed. Instructions for obtaining these SoftPaqs may be found in Appendix 1, "Downloading Software from the Compaq Website." After obtaining the necessary files for your Armada portable, proceed to the installation instructions for each deliverable.

Important Notes

- Make sure that the system is undocked (Standalone) and there are no PC Cards in the PCMCIA slots when installing the drivers.¹
- Any first step which begins with 'Double-click SETUP' assumes that you have used 'My Computer' or Explorer to navigate to the directory where the files are located after having been extracted from the SoftPaq.
- These SoftPaq numbers are the minimum required for Windows 95. They may be superceded as noted on the Compaq Website.
- It is strongly recommended that after all of the additional software programs and drivers have been installed, you update the Emergency Repair Disk by running the RDISK program.

Family	Driver/Enhancement	SoftPaq #
Armada 1500	C&T 68554, 655xx Video Driver	SP5469
	Cirrus Logic GD7548 Video Drivers	SP3124
	ESS 1878 Audio Driver	SP4524
	Diagnostics	SP5506
	Real Mode Support*	SP5599
	Insight Management Agents	SP5167
	Power Management	SP5472
	Programmable Keys	SP5414
	Security 32 Support	SP5628
	System Enhancements	SP4896
	SMC Fast IR Driver	SP4552
	Carbon Copy 32 Host Edition*	SP5597
	Telephony Modem Support	SP4528
	560CL Telephony Modem Support	SP6468
	NetFlex 3 Ethernet Driver*2	SP2978
	Intel Ethernet Driver*7	SP7129
continued		

Table 1. Compaq Driver and Enhancement SoftPags for Windows 95

¹ See Appendix 5, "Docking for the First Time" for information on docking your Armada Portable for the first time.

 $^{^{2}}$ As no two network setups are the same, it is highly recommended that you do not set up any networking components. You should contact your Network Administrators and have them properly set up the networking portions of Windows 95.

Family	Driver/Enhancement	SoftPaq #
Armada 1700	C&T Video Driver	SP7141
	ESS 1869 Audio Driver	SP8301
	Diagnostics	SP8765
	Real Mode Support*	SP8289
	Insight Management Agents*	SP7393
	Programmable Keys	SP7176
	SMC Fast IR Driver	SP4552
	Security 32 Support	SP8086
	Microsoft Direct X	SP7221
	System Enhancements	SP8303
	Carbon Copy 32 Host Edition*	SP7441
	Compaq 560CL/56VL Modem Driver V .90	SP8393
	Intel Ethernet Driver*7	SP7129
	NetFlex 3 Ethernet Driver*3	SP2978
Armada 3500	C&T Video Drivers	SP7141
	ESS 1869 Audio Driver	SP8301
	Diagnostics	SP8288
	Insight Management Agents*	SP7393
	Power Management	SP8071
	SMC Fast IR Driver	SP4552
	Intel Ethernet Driver*7	SP7129
	Microsoft Direct X	SP7221
	System Enhancements	SP8303
	Carbon Copy 32 Host Edition*	SP7441
	Programmable Keys	SP7176
	Real Mode Support*	SP8289
	Security 32 Support	SP8086
	NetFlex 3 Ethernet Driver*4	SP2978
Armada 4100	Cirrus Logic GD7548 Video Driver	SP6853
	Diagnostics	SP8765
	Real Mode Support*	SP4870
	Insight Management Agents*	SP2765
	ESS 6/88/1688 Audio Driver	SP2027

Table 1. Compaq Driver and Enhancement SoftPaqs for Windows 95 (continued)

continued

³ As no two network setups are the same, it is highly recommended that you do not set up any networking components. You should contact your Network Administrators and have them properly set up the networking portions of Windows 95.

⁴ As no two network setups are the same, it is highly recommended that you do not set up any networking components. You should contact your Network Administrators and have them properly set up the networking portions of Windows 95.

Family	Driver/Enhancement	SoftPaq #
Armada 4100 (continued)	SMC Fast IR Driver	SP3221
	Programmable Keys	SP2025
	Ethernet Drivers*7	SP2761
Armada 4200	C&T 68554, 655XX Video Driver	SP5469
	Diagnostics	SP5506
	Real Mode Support*	SP4870
	SMC Fast IR Driver	SP4552
	Insight Management Agents*	SP5399
	Microsoft Direct X	SP5542
	System Enhancements	SP4896
	Programmable Keys	SP5414
	Security 32 Support	SP5429
	Ethernet Driver*7	SP5387
Armada 6500	ATI Display Driver	SP8181
	ESS Audio	SP8178
	Diagnostics	SP8198
	XIRCOM Combo Ethernet/Modem Driver	SP8182
Armada 7300/7700	S3 Display Driver	SP6850
	S3 Display Utility	SP4766
	ESS 1878 Audio Driver	SP6299
	Diagnostics	SP8765
	Real Mode Support*	SP4870
	Insight Management Agents	SP5167
	SMC Fast IR Driver	SP3690
	System Enhancements	SP4896
	Programmable Keys	SP5414
	Security 32 Support	SP6284
	NetFlex 3 Ethernet Driver*5	SP2978
Armada 7400/7800	S3 M5 Video Drivers	SP7411

Table 1. Comp

continued

SP7578

SP7806 SP7445

SP7836

SP7824

External Display Configuration Utility

ESS 1879 Audio Drivers

SMC Fast IR Driver

Real Mode Support*

Diagnostics

⁵ As no two network setups are the same, it is highly recommended that you do not set up any networking components. You should contact your Network Administrators and have them properly set up the networking portions of Windows 95.

Family	Driver/Enhancement	SoftPaq #
Armada 7400/7800 (continued)	Universal Serial Bus	SP7897
	Insight Management Agents*	SP7393
	Programmable Keys	SP7176
	Security 32 Support	SP7251
	Microsoft Direct X	SP7221
	Carbon Copy 32 Host Edition*	SP7441
	Compaq Series II Modem Drivers	SP8392

Table 1. Compaq Driver and Enhancement SoftPaqs for Windows 95 (continued)

NOTE: If you are going to use an Ethernet Convenience base to access your network, your Network Administrator will need the Armada Integrated Netflex-3 Ethernet Drivers or the Intel Ethernet Drivers after the installation is complete.

Display

Installing the Video Driver

- 1. Secondary-click on an open area of the desktop and select 'Properties.'
- 2. Click on the 'Settings' tab.
- 3. Click on 'Advanced Properties.'
- 4. Click on CHANGE.
- 5. Click on 'Have Disk.'
- 6. Enter the path to the video driver extracted from the SoftPaq then click **OK**.
- 7. Select the appropriate driver and then click **OK**.
- 8. Click Close.
- 9. Click Close again.
- 10. Click **YES** to restart the system.

Audio

Installing the ESS Audio Drivers

- 1. Select Start \rightarrow Settings \rightarrow Control Panel.
- 2. Double-click the System icon.
- 3. Click the tab labeled 'Device Manager.'
- 4. Click the + sign next to 'Other devices.'
- 5. Click and highlight the second 'Unknown Device.'
- 6. Click **Properties**.

- 7. Click the DRIVERS tab.
- 8. Click Update Drivers.
- 9. Click Next to continue running the Update Device Driver Wizard.
- 10. Click **Other Locations** when it appears.
- 11. Click Browse.
- 12. Enter the location where the audio driver was extracted to from the SoftPaq and click OK.
- 13. Click and highlight the folder listed.
- 14. Click **OK** and then **OK** again from the 'Select Other Location' dialog.
- 15. Click Finish.
- 16. Click YES on the 'Restart Computer' dialog.

Intelligent Manageability

Installing Compaq Diagnostics for Windows

- 1. Double-click SETUP.
- 2. Click 'Yes, I want to restart my computer now.'
- 3. Click **OK** to restart the computer.

Installing the Compaq Insight Management Agents

- 1. Double-click SETUP.
- 2. Click Next to continue.
- 3. When prompted for Disk 2, click **OK**.
- 4. Click Next from the DMI dialog box.
- 5. Click **Next** to confirm the destination directory.
- 6. When the program finishes, highlight YES and click Finish to restart the computer.
- 7. The IM Agents Help File displays the next time the unit is rebooted and you log on. Close the file by clicking on the 'X' in the upper right-hand corner of the window.

Operating Systems and Software Enhancements

Installing Compaq HotKey

- 1. Double-click SETUP.
- 2. Click Next to continue.
- 3. Click **OK** to finish the installation.

Installing Microsoft DirectX

- 1. Double-click CPQINST.
- 2. When the dialog box displays the message 'Unable to find the file DIRECTXV.EX0,' change the path to read C:\~COMPAQ\DIRECTX\ and click **OK**.

3. When the dialog box displays the message 'Unable to find the file DIRECTXV.EX1,' change the path to read C:\~COMPAQ\DIRECTX\ and click **OK**.

Installing the SMC Fast IR Driver

- 1. Highlight the file SMC_INST and secondary-click it.
- 2. Choose INSTALL.
- 3. If prompted for a directory enter C:\~COMPAQ\FAST_IR\DISK1.
- 4. Restart the computer by clicking Start \rightarrow Shut Down \rightarrow Restart the Computer and YES.

Installing the Universal Serial Bus

- 1. Double-click OEMUSB.
- 2. Restart the computer by clicking Start \rightarrow Shut Down \rightarrow Restart the Computer and YES.

Installing the Windows 95 System Enhancements

- 1. Double-click SETUP.
- 2. Click Next.
- 3. Click OK.
- 4. Click 'Yes, I want to restart my computer now' then click **OK**.

Modem Software and ROMPaqs

Installing the Compaq Armada 1500 Series 560CL Telephony Modem

- 1. Select Start \rightarrow Settings \rightarrow Control Panel.
- 2. Click Add/Remove Programs.
- 3. Select Compaq Armada 1500 Series....
- 4. Click Add/Remove.
- 5. Click Yes.
- 6. Click **OK** to reboot the computer.
- 7. Insert the SoftPaq diskette that was created into the diskette drive before the computer reboots.
- 8. The Wizard starts. Click Next.
- 9. Click Finish. The System begins copying files.
- 10. Click OK.
- 11. Select USA.
- 12. Select Change Country.
- 13. Select Yes.

Setting Up the Compaq Portable Telephony Modem

- 1. Double-click SETUP.
- 2. Follow the instructions that appear on the right side of the screen.

Installing the Compaq 560CL/56VL Modem Driver

- 1. Double-click SETUP.
- 2. Follow the prompts from the Installshield install, install the software and allow the computer to reboot.

Installing the Compaq Series II Modem Driver

- 1. Double-click SETUP.
- 2. Follow the prompts from the Installshield install, install the software and allow the computer to reboot.

Installing the XIRCOM Combo Ethernet/Modem Driver

- 1. Double-click SETUP.
- 2. Follow the prompts from the Installshield install, install the software and allow the computer to reboot.

Utilities

Installing Carbon Copy 32

- 1. Double-click SETUP.
- 2. Enter your name.
- 3. If desired, tab to the Company field and enter you company name.
- 4. Click OK.
- 5. If you wish to view the README.TXT file click YES, otherwise click NO.
 - a. If you chose to view the README.TXT file, close it when done by clicking on the X in the upper-right corner of the window labeled 'Readme.txt Notepad.'
- 6. Enter the installation directory or accept the default and click **OK**.
- 7. Click **OK** to install Carbon Copy.
- 8. When prompted for Disk #2, change the directory name to the location of the DISK2 subdirectory and click **OK**.
- 9. Click **YES** to restart the computer.
- 10. Close the window titled 'C:\WINDOWS\Start Menu\Programs\Carbon Copy Support' after the system reboots by clicking on the X in the upper right-hand corner of that window.

Installing Compaq Security

- 1. Double-click SETUP.
- 2. Click Next.
- 3. Click **OK** to complete the installation.

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Installing Real Mode Support⁶

- 1. Select Start \rightarrow Settings \rightarrow Control Panel.
- 2. Double-click the Add/Remove Programs icon.
- 3. Click the Windows Setup tab.
- 4. Click HAVE DISK.
- 5. Type the directory C:\~COMPAQ\REALMODE and click **OK**.
- 6. Place a check mark in the box by MS-DOS Real Mode Drivers by clicking in the box and then click **INSTALL**.
- 7. Click OK.
- 8. Click **YES** to restart the system.

Installing the User-Programmable Keys Utility

- 1. Double-click SETUP.
- 2. Click **Next** to continue.
- 3. Click OK.
- 4. Click 'Yes, I want to restart my computer now' and then click **OK**.

⁶ Real Mode support is only needed if you intend to use the computer in MS-DOS mode.

Appendix 1: Downloading Software from the Compaq Website

- The base URL for all Compaq Portables software is <u>www.compaq.com/support/files/portables/us/index.html</u>. Enter this location into the browser of your choice.
- 2. You are presented three drop-down dialog boxes for Family, Model, and Operating System. Fill in each box as appropriate and click **Locate**.
 - a. Family which series of Armada are you trying to find software for; e.g. Armada 7700, Armada 4200, etc.
 - Model the specific portable; e.g. 42XX where XX represents the last two digits as in 42100 or 4220. For the 7800 Armada series, it is in the form of XXXX/Z/XXXX/Z/Z/Z e.g. 6266/T/5000/D/M/1. See the bottom of your portable to obtain the proper model number.
 - c. Operating system in this case "Windows 95"
- 3. A list of currently available files is displayed. Click on each sub-bulleted item to display information on that particular deliverable.
- 4. Click **Download**.⁷
- 5. Place all of the files into a common directory so that they may be extracted for use in the scripts. A common directory used is C:\~COMPAQ.

See Appendix 2 for instructions on using the SoftPaq utility.

⁷ Consult your browser's help for instructions on how to download files if necessary.

Appendix 2: Using the SoftPaq Utility

There are currently two versions of the SoftPaq utility on the Compaq Website⁸. As drivers are updated and released as SoftPaqs, they are released using the most current version of the utility. You can determine the version by looking at the application title-bar at the top of the screen. The procedure for using either version is outlined below.

SoftPaq 2.x

When you run the application, you are first presented with information as to which software driver or program you are going to extract to floppy.

- 1. Press **PgDn** to view the Licensing Agreement.
- 2. Type AGREE to show how many diskettes this extraction will take.
- 3. Type the drive letter to specify the destination for the software extraction.
- 4. Insert a 3.5" 1.44 MB diskette into the drive and press Enter.

When the software has been extracted, the program exits automatically.

The software is now ready to be installed from diskette. Compaq recommends that you view the README file for any updates.

SoftPaq 3.x

- 1. Place the SoftPaq file in a temporary directory in which the files will be extracted.
- 2. When you run the application, you are presented with information as to which software driver or program you are going to extract to floppy. Press 'C' to continue.
- 3. Press 'A' to agree to the Licensing Agreement.
- 4. You are asked if the destination directory for extraction is OK. Type 'Y' to continue.
- 5. When the software has been extracted, the program exits automatically.

The software is now ready to be installed from diskette. Compaq recommends that you view the README file for any updates.

⁸ SoftPaqs are a way for Compaq to distribute driver and ROM updates as well as product enhancements.

Appendix 3: Installing Diagnostics and Setup

You need both the Diagnostics and Setup diskettes before beginning. If you do not have them, they can be downloaded from the Compaq Website.

NOTE: The Armada 6500 does not use standard Compaq Diagnostics and Setup.

Ensure that there are no existing partitions on the hard drive with the FDISK utility. If you are unsure how to use the FDISK program, refer to the Microsoft KB article Q76802 for instructions. This article may be found online at http://support.microsoft.com/support/kb/articles/q76/8/02.asp.

- 1. Boot the computer from the Diagnostic diskette.
- 2. Press Enter on the 'Create Diagnostics Partition' dialog.
- 3. Press **Enter** to reboot the computer.
- 4. Press Enter to confirm that you have both the Diagnostic and Setup diskettes.
- 5. Insert the Setup diskette when prompted and press Enter.
- 6. Insert the Diagnostics diskette when prompted and press Enter.
- 7. Insert the Setup diskette when prompted and press Enter.
- 8. Press Enter to complete the installation.
- 9. Power cycle your system and resume the operating system installation.

Appendix 4: Determining your ROM Version and Upgrading if Needed

To determine your ROM revision, use either Compaq's Inspect utility or Compaq Diagnostics for Windows. Table 2 shows the current ROM versions as of the date of this paper.

Table 2. Current Compaq ROM Versions

Portable Family	Current ROM Version
Armada 1500 Family	8/31/98
Armada 1700 Family	09/09/98
Armada 3500 Family	09/09/98
Armada 4100 Family	05/04/98
Armada 4200 Family	05/21/98
Armada 6500 Family	v 1.29
Armada 7300/7700 Families	05/13/98
Armada 7400/7800 Families	08/07/98

Determining your ROM revision with Inspect

NOTE: The Armada 6500 does not use standard Compaq Diagnostics and Setup. Use the instructions in the next section, "Determining your ROM revision with Compaq Diagnostics for Windows."

If you have Compaq's Diagnostics and Setup properly installed on the hard drive, a block cursor is displayed during boot in the upper right-hand corner of the screen. When you see the block cursor, press **F10**. See Appendix 3 for instructions on installing Diagnostics and Setup from diskette.

- 1. Press Enter when the Welcome to Compaq Utilities dialog is displayed.
- 2. Using the down arrow key, scroll down until 'View system information (INSPECT) is highlighted and then press **Enter**.
- 3. Wait while information is gathered about your system.
- 4. Using the down arrow key to scroll down until 'ROM' is highlighted and then press **Enter**. Your system ROM revision is displayed.
- 5. Make note of the date to determine if it is the latest available.
- 6. Press F3 to exit the ROM information screen.
- 7. Use the down arrow key to scroll down until 'Exit...' is highlighted and press **Enter**. Repeat this step to exit from the Compaq Utilities.
- 8. Press Enter once again to confirm exiting the Compaq Utilities.

If your ROM requires upgrading and you do not have a ROMPaq diskette for you computer, go to Creating a ROMPaq Diskette; otherwise proceed to Upgrading Your ROM for instructions on how to upgrade your ROM.

Determining your ROM revision with Compaq Diagnostics for Windows

- 1. Select Start \rightarrow Settings \rightarrow Control Panel.
- 2. Double-click the Compaq Diagnostics icon.
- 3. Once Diagnostics is loaded, press F8.
- 4. Click the left most icon.
- 5. Scroll through this list until you see the System ROM information. Make note of the date to determine if it is the latest available.
- 6. Close Diagnostics for Windows by clicking on the 'X' in the upper right-hand corner of this window.

If your ROM requires upgrading and you do not have a ROMPaq diskette for you computer, go to Creating a ROMPaq Diskette; otherwise proceed to Upgrading Your ROM for instructions on how to upgrade your ROM.

Creating a ROMPaq Diskette

The ROMPaq SoftPaq is a version 2.x SoftPaq. After downloading the appropriate SoftPaq from the Compaq Website, follow the instructions in Appendix 2 to extract the image onto a diskette.

Upgrading Your ROM

- 1. Connect your computer to AC power.
- 2. Place your ROMPaq diskette into your diskette drive and restart the computer.
- 3. Press Enter on the 'Welcome to ROMPAQ' screen.
- 4. Press Enter to select your 'COMPAQ System ROM.'
- 5. Press Enter to select the most current firmware image.
- 6. Press **Enter** to continue.
- 7. To start the ROMPaq upgrade, press E Enter.
- 8. When your receive the message that your system ROM has been successfully reprogrammed, power off your system.

Appendix 5: Docking for the First Time

Before docking you need to ensure that all of the specific drivers and support software for your specific Armada have been installed. Please refer to "Installation of Compaq Drivers and Enhancements" for the list of deliverables and instructions on how to install them.

Compaq strongly recommends a 'cold dock' for the user's 1st docking under Windows 95. Properly shutdown Windows 95 by clicking **Start** \rightarrow **Shut Down** \rightarrow **Shut Down the computer** and clicking on **OK**. Place the computer in the docking station or convenience base and power the unit back on.