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Management

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# Installing Microsoft Windows NT Workstation 4.0 on Compaq Armada E700, M700, E500, M300, and V300

**Abstract:** This document focuses on the steps necessary for the successful installation of Microsoft Windows NT Workstation 4.0 and Service Pack 6 on Compaq *Armada*™ M700, E500, M300, and V300 portable products. The steps outlined provide a complete installation procedure that works regardless of the currently installed operating system.

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

This document is intended for Compaq personnel and customers needing information on installing Microsoft Windows NT Workstation 4.0, Service Pack 6, and applicable programs on selected Compaq Armada portable products.

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Installing Microsoft Windows NT Workstation 4.0 on Compaq Armada E700, M700, E500, M300, and V300

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## Introduction

This White Paper discusses installing Microsoft Windows NT Workstation 4.0 with Service Pack 6 on selected Compaq Armada portable products. The document provides basic instructions for the installation process. The data on the files contained in this White Paper is current as of the publication date. Please refer to <http://www.compaq.com/support/files/portables/us/index.html> for the most current files.

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**Note:** Back up all data and applications prior to installing Microsoft Windows NT Workstation 4.0.

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## Installation Requirements and Dependencies

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

The following items can be obtained directly from Microsoft:

- Microsoft Windows NT Workstation 4.0 CD and the three setup diskettes
- Microsoft Windows NT Workstation 4.0 Service Pack 6 CD
- Microsoft MS-DOS v6.22 Boot Disk or other bootable disk that contains a current FDISK utility

The following items can be obtained from Compaq:

- The current ROM available for the platform. See Appendix A for information on determining the current ROM version and how to update it.
- The latest Compaq Support Software CD containing all updated drivers and deliverables. Alternately, the files on the Support Software CD can be obtained from the Compaq website: <http://www.compaq.com/support/files/portables/us/index.html>

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**IMPORTANT:** Obtain the latest version of the drivers and enhancements compatible with Microsoft Windows NT Workstation 4.0. Previous versions may not work or may produce anomalies.

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Have one blank high-density floppy diskette to create a startup disk and up to three additional blank high-density floppy diskettes before beginning installation.

## Important Notes

- Make sure that the system is undocked and no PC Cards are in the PCMCIA slots when installing the drivers.<sup>1</sup>
- These SoftPaq numbers are the minimum required for Microsoft Windows NT Workstation 4.0. They may be superseded, as noted on the Compaq website.
- Do not set up any networking components. Contact the Network Administrators and have them properly set up the networking portions of Microsoft Windows NT Workstation 4.0.
- After all of the additional software programs and drivers have been installed, update the Emergency Repair Disk by running the RDISK program.

## Installation of Compaq Drivers and Enhancements

The drivers are grouped into three profile categories:

- **Basic**—Identifies those software components that enable all of the internal hardware and provide functionality in a stand-alone environment.
- **Enhanced**—Provides additional features and support for optional hardware.
- **Full**—Adds manageability features.

Before proceeding with the installation of the Compaq drivers and enhancements.

- Install the System ROMPaq, Microsoft Windows NT Workstation 4.0, and Service Pack 6 in the following order:
- System ROMPaq
- Install Microsoft Windows NT Workstation 4.0
- Install Service Pack 6

**Table 1 lists the drivers and enhancements, available as of the publication of this White Paper. Check the Compaq website for a current list of available drivers and enhancements.**

**Table 1. Compaq SoftPaqs for Microsoft Windows NT Workstation 4.0**

Family	Driver/Enhancement	Profile	Install Order	SoftPaq #
<b>Armada M300</b>	System ROMPaq	Basic	FIRST	SP12579
	System Enhancements	Basic	SECOND	SP11294
	Rage Video Drivers	Basic	THIRD	SP11849
	M2E Audio Driver	Basic	FOURTH	SP11091
	Power Management	Basic	FIFTH	SP11126

*continued*

<sup>1</sup> See Appendix C, "Docking for the First Time" for information on docking your Armada Portable for the first time.

**Table 1. Compaq SoftPags for Microsoft Windows NT Workstation 4.0** (continued)

<b>Family</b>	<b>Driver/Enhancement</b>	<b>Profile</b>	<b>Install Order</b>	<b>SoftPaq #</b>
	MultiBay Plug and Play Manager	Basic	SIXTH	SP10095
	Power Management Enhancements	Enhanced	SEVENTH	SP11335
	CardWare	Enhanced	EIGHTH	SP11046
	Hot Key Support	Basic	N/A	SP11062
	Mini PCI Comm. Sup. Software and Drivers	Basic	N/A	SP11160
	3Com Etherlink 10/100 PCI NIC	Enhanced	N/A	SP10948
	Security 32	Enhanced	N/A	SP11215
	Synaptics TouchPad Driver	Enhanced	N/A	SP11361
	Diagnostics	Full	N/A	SP11061
	Insight Management Agents	Full	N/A	SP11608
	Insight Management Web Agents	Full	N/A	SP11623
	Remote Management	Full	N/A	SP11214
<b>Armada M700</b>	System ROMPaq	Basic	FIRST	SP12786
	System Enhancements	Basic	SECOND	SP11276
	Rage Video Drivers	Basic	THIRD	SP11849
	M2E Audio Driver	Basic	FOURTH	SP11091
	Power Management	Basic	FIFTH	SP11126
	MultiBay Plug and Play Manager	Basic	SIXTH	SP10947
	Power Management Enhancements	Enhanced	SEVENTH	SP11335
	CardWare	Enhanced	EIGHTH	SP11032
	3Com Global MiniPCI 56K (V.90) Modem	Basic	N/A	SP11390
	Hot Key Support	Basic	N/A	SP11062
	Mini PCI Communications Support and Drivers	Basic	N/A	SP11160
	Worldport Application	Basic	N/A	SP11391
	3Com Etherlink 10/100 PCI NIC	Enhanced	N/A	SP10948
	Easy Point IV	Enhanced	N/A	SP11429
	Netflex-3 Ethernet	Enhanced	N/A	SP6599
	Security 32	Enhanced	N/A	SP11215

continued

**Table 1. Compaq SoftPaks for Microsoft Windows NT Workstation 4.0** (continued)

Family	Driver/Enhancement	Profile	Install Order	SoftPak #
	Insight Management Agents	Full	N/A	SP11608
	Insight Management Web Agents	Full	N/A	SP11623
	Remote Management	Full	N/A	SP11214
<b>Armada E700</b>	System ROMPak	Basic	FIRST	SP12786
	System Enhancements	Basic	SECOND	SP11276
	Rage Video Drivers	Basic	THIRD	SP11849
	M2E Audio Driver	Basic	FOURTH	SP11091
	Power Management	Basic	FIFTH	SP11126
	MultiBay Plug and Play Manager	Basic	SIXTH	SP10947
	Power Management Enhancements	Enhanced	SEVENTH	SP11335
	CardWare	Enhanced	EIGHTH	SP11032
	3Com Etherlink 10/100 PCI NIC	Enhanced	N/A	SP10948
	3Com Global MiniPCI 56k (V.90) Modem	Basic	N/A	SP11390
	Compaq Floppy Alert	Basic	N/A	SP11392
	Hot Key Support	Basic	N/A	SP11062
	Mini PCI Communications Support and Drivers	Basic	N/A	SP11160
	Worldport Application	Basic	N/A	SP11391
	Easy Point IV	Enhanced	N/A	SP11429
	Netflex-3 Ethernet Drivers	Enhanced	N/A	SP6599
	Security 32	Enhanced	N/A	SP11215
	Diagnostics	Full	N/A	SP11061
	Insight Management Agents	Full	N/A	SP11608
	Insight Management Web Agents	Full	N/A	SP11623
	Remote Management	Full	N/A	SP11214
<b>Armada E500/V300</b>	System ROMPak	Basic	FIRST	SP12443
	System Enhancements	Basic	SECOND	SP12107
	Rage Video Drivers	Basic	THIRD	SP11849
	M2E Audio Driver	Basic	FOURTH	SP12127
	Power Management	Basic	FIFTH	SP12096
	MultiBay Plug and Play Manager	Basic	SIXTH	SP11999
	Power Management Enhancements	Enhanced	SEVENTH	SP11335

*continued*

**Table 1. Compaq SoftPaqs for Microsoft Windows NT Workstation 4.0** *(continued)*

<b>Family</b>	<b>Driver/Enhancement</b>	<b>Profile</b>	<b>Install Order</b>	<b>SoftPaq #</b>
	CardWare	Enhanced	EIGHTH	SP12041
	Hot Key Support	Basic	N/A	SP11922
	Mini PCI Comm. Sup. Software and Drivers	Basic	N/A	SP11160
	3Com Etherlink 10/100 PCI NIC	Enhanced	N/A	SP11920
	Security 32	Enhanced	N/A	SP12129
	Synaptics TouchPad Driver	Enhanced	N/A	SP11361
	Diagnostics	Full	N/A	SP11061
	Insight Management Agents	Full	N/A	SP11608
	Insight Management Web Agents	Full	N/A	SP11921
	Remote Management	Full	N/A	SP11214

# Appendix A

## Determining the ROM Version

To determine the ROM revision, use either Compaq's Inspect utility or Compaq Diagnostics for Windows. Table 2 shows the minimum required ROM versions.

**Table 2. Current Compaq ROM Versions**

<b>Portable Family</b>	<b>ROM Version</b>
Armada E700/M700	686H_2000.0803
Armada E500/V300	686N_2000.0826
Armada M300	686R_2000.0808



## Appendix B

### 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 first docking under Microsoft Windows NT Workstation 4.0. Properly shut down the computer by clicking Start→Shut Down. Select Shut down the computer? and click Yes. If the system requires to be manually turned off, do so now. Place the computer in the docking station or convenience base and turn on the unit’s power.

## Appendix C

### SoftPaq Descriptions

<b>Name</b>	<b>Description</b>
3Com Etherlink 10/100 PCI NIC	Supports PCI NIC that is used in select Armada docking station models
3Com Global MiniPCI 56K (V.90) Modem	Enables internal Modem device on select E700 & M700 models
CardWare	Enables hot plug ability and CardBus support under Windows NT 4.0
Compaq Check Dock Utility (V300)	Identifies supported docking stations for V300 models
Compaq Floppy Alert (E700 only)	Verifies that the floppy is installed in the correct internal MultiBay
Diagnostics	Provides tools to test hardware components
Easy Point IV	Provides added functionality for the stick pointing device
Hot Key Support	Allows users to quickly access BIOS and Operating System features
Insight Management Agents	Provides asset management, security features and alerting capabilities
Insight Management Web Agents	Provides Web based asset management, security features and alerting capabilities
M2E Audio Driver	Enables the integrated Audio hardware
Mini PCI Communications Support and Drivers	Enables internal Modem and Modem/NIC Combo devices and supports Intel PCI NIC that is used in select Armada docking station models
MultiBay Plug and Play Manager	Provides support for swapping MultiBay devices
Netflex-3 Ethernet Drivers	Enables the integrated network adapter on ArmadaStation I and II
Power Management	Allows users to customize power requirements of the PC to maximize battery life and set up hibernation functionality
Power Management Enhancements	Increases battery life by managing SMART drive data collection
Rage Video Drivers	Enables the integrated Video hardware
Remote Management	Enables system administrator to update client ROM and setup over the network
Security 32	Allows users to access Compaq security options
Synaptics TouchPad Driver	Provides added functionality for the touchpad pointing device
System Enhancements	Provides users with an easy to install compilation of hardware-enabling operating system enhancements and fixes
System ROMPaq	System Firmware
Worldport Application	Allows homologation of 3Com modems