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You can read the recommendations in the user guide, the technical guide or the installation guide for NEC VERSA DOCK. You'll find the answers to all your questions on the NEC VERSA DOCK in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NEC VERSA DOCK
User guide NEC VERSA DOCK
Operating instructions NEC VERSA DOCK
Instructions for use NEC VERSA DOCK
Instruction manual NEC VERSA DOCK

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Manual abstract:

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1 Packard Bell Way Sacramento, CA 95828-0903 All Rights Reserved Preface This service and reference manual contains the technical information necessary to set up and maintain the NEC Versa ® Dock, for use with the NEC Versa LX and SX notebook computers. The manual also provides hardware and interface information for users who need an overview of the system design. The manual is written for NEC-trained customer engineers, system analysts, service center personnel, and dealers. The manual is organized as follows: Section 1, System Overview, provides an overview of the hardware and interface components. Section 2, System Configuration and Setup, provides information on setup and how to operate the docking station.

Section 3, Disassembly and Reassembly, provides detailed instructions on how to disassemble and reassemble the docking station. Section 4, System Board Layout and Board Connectors, shows the system boards and the board connectors. Section 5, Illustrated Parts Breakdown, shows the Illustrated Parts Breakdown (IPB) and corresponding part numbers. Section 6, Preventive Maintenance, lists general docking station preventive maintenance procedures.

Section 7, Troubleshooting, lists troubleshooting procedures as well as helpful servicing hints.

Section 8, Support, provides information as to how to contact NEC CSD for service information, technical support, product information and ordering information from FaxFlash. Section 9, Specifications, lists physical specifications. An Index is included for convenience. Preface v Abbreviations ampere alternating current advanced technology (IBM PC) BBS Bulletin Board Service BCD binary-coded decimal BCU BIOS Customized Utility BIOS basic input/output system bit binary digit BUU BIOS Upgrade Utility bpi bits per inch bps bits per second C capacitance C centigrade Cache high-speed buffer storage CAM constantly addressable memory CAS column address strobe CD-ROM compact disk-ROM CG character generator CGA Color Graphics Adapter CGB Color Graphics Board CH channel clk clock cm centimeter CMOS complementary metal oxide semiconductor COM communication CONT contrast CPGA ceramic pin grid array CPU central processing unit DAC digital-to-analog converter DACK DMA acknowledge DC direct current DIP dual in-line package DLAB Divisor Latch Address bit DMA direct memory access A AC AT DMAC DOS DRAM ECC EDO EGA EPROM EVGA F FAX FCC FG FM FP FRU GB GND HEX HGA Hz IC ID IDE IDTR in. INTA IPB IR IRR ISA ISR I/O DMA controller disk operating system dynamic RAM error checking and correction extended data output Enhanced Graphics Adapter erasable and programmable ROM Enhanced Video Graphics Array Fahrenheit facsimile transmission Federal Communications Commission frame ground frequency modulation fast page field-replaceable unit gigabyte ground hexadecimal Hercules Graphics Adapter hertz integrated circuit identification intelligent device electronics interrupt descriptor table register inch interrupt acknowledge illustrated parts breakdown infrared Interrupt Request register Industry Standard Architecture In Service register input/output vi IPC ips IRQ K k KB kg kHz lb LED LSB LSI M mA max MB MDA MFM MHz mm ms MSB NASC NC NMI ns NSRC PAL PCB PCI PDA PFP PIO pixel PLCC PLL integrated peripheral controller inches per second interrupt request kilo (1024) kilo (1000) kilobyte kilogram kilohertz pound light-emitting diode least-significant bit large-scale integration mega milliamps maximum megabyte Monochrome Display Adapter modified frequency modulation megahertz millimeter millisecond most-significant bit National Authorized Service Center not connected Non-maskable Interrupt nanosecond National Service Response Center programmable array logic printed circuit board Peripheral Component Interconnect personal digital assistant plastic flat package parallel input/output picture element plastic leaded chip carrier phase lock loop p-p PPI peak-to-peak programmable peripheral interface PROM programmable ROM QFP quad flat pack RAM random-access memory RAMDAC RAM digital-to-analog converter RAS row address strobe RGB red green blue RGBI red green blue intensity ROM read-only memory rpm revolutions per minute R read RTC real-time clock R/W read/write S slave SCSI Small Computer System Interface SG signal ground SIMM single inline memory module SPM standard page mode SRS Sound Retrieval System SVGA Super Video Graphics Array SW switch TAC Technical Assistance Center TSC Technical Support Center TTL transistor/transistor logic tpi tracks per inch USB universal serial bus V volt Vac volts, alternating current Vdc volts, direct current VESA video electronics standards association VFC VESA-compliant feature connector VGA Video Graphics Array VRAM video RAM W watt W write vii Contents Preface

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..... BIOS update diskette. n NEC Versa Dock Software Setup CD. n Two extra power cables for the installation of optional IDE devices. 1-2 Introducing the NEC Versa Dock n User Documentation -- introduces you to the NEC Versa Dock and guides you through initial docking and setup. n AC Power Cable -- allows you to connect your NEC Versa Dock to AC power. Always use the power cable that ships with the NEC Versa Dock. If you need to replace the cable, follow these standards: In North America, the cable should be rated for 120 volts (V), 7 amps(A). The plug is a NEMA 5-15P. Use an SVT or SJT 18/3 AWG cable that is less than 15 feet (4.5 m) long. Use connector type IEC320. In Europe, the cable should be rated for 230 V (220-240 V), 10A. The plug is country-specific. Use an H05VV-F or H05VVH2-F cable that is less than 15 feet (4.5 m) long. Use connector type EN60320. n NEC Versa Dock Keys. NEC Versa Dock Features NEC Versa Dock features are found on all sides of the unit. To become familiar with these features, read each of the following sections. Front and Top The following figure shows the features found on the front and top of the NEC Versa Dock. Descriptions of these features follow the figure. Front and top features A - Docking connector B - Docking guides C - Right file bay D - Power button E - Status LEDs F - Dock/Undock button G - Left file bay Introducing the NEC Versa Dock 1-3 n Docking Connector -- Fits the expansion port

on your NEC Versa to allow for docking. n Docking Guides -- Ensure that your NEC Versa is aligned properly for docking. These guides provide positioning for docking with the monitor stand in place.

n Two File Bays -- Allows you to install IDE file devices in your NEC Versa Dock. The left file bay supports any 5.25-inch IDE device (like a tape drive, hard disk drive, or SuperDisk drive.) It also supports 3.5-inch IDE devices with a 3.5-inch Universal Installation Kit. The right file bay is identical to the left file bay, with the added versatility that allows you to install the optional VersaBay III Adapter Kit. With the VersaBay III Adapter kit installed, you can use any of your VersaBay III options in the file bay. n Power Button -- Allows you to power on and off the NEC Versa LX or SX notebook computer while docked on the NEC Versa Dock. n Status LEDs -- LEDs on the front of the unit inform you of the docking status, keylock status, IDE drive access, diskette drive access, and battery charge status (for a battery installed in the optional VersaBay III Adapter Kit).

LEDs are shown in the following figure and LED states are described after the figure. Status LEDs A - Docking status LED B - Keylock status LED C - IDE access LED D - Diskette drive access LED E - Battery charge status LED 1-4 Introducing the NEC Versa Dock Hot docking and hot undocking is supported with Plug-and-Play operating systems, such as Windows 95. Before hot undocking, the docking/undocking button must be pressed or you must select Eject PC from the Windows 95 Start button. May not be supported on all systems. Docking Status lights as follows: Steady Yellow AC power is on, the keylock switch is in the Normal position, and the NEC Versa Dock is ready for docking.

Steady Green The NEC Versa is docked on the NEC Versa Dock and is either powered on or in Standby mode. Fast Blinking Amber A docking or undocking error has occurred or the docking tray is in the wrong position for the system. Off AC power is on, the keylock is in the Manual or Locked position, and either no NEC Versa is docked or the NEC Versa is docked and powered off. Keylock Status Lights as follows: Off No NEC Versa is docked. Steady Amber The NEC Versa is docked but not locked on the NEC Versa Dock.

The key is in either the Normal position with the notebook turned off, or in the Manual position with the notebook on or off. Steady Yellow The NEC Versa is locked onto the NEC Versa Dock through software. The key is in the Normal position and the NEC Versa is on. Steady Green The NEC Versa is physically locked onto the NEC Versa Dock. The key is in the Lock position with notebook power on or off. IDE Drive Access lights as follows to indicate access to an IDE device such as a CD-ROM, hard disk or SuperDisk drive installed in an NEC Versa Dock file bay, an optional VersaBay III Adapter Kit, or in the NEC Versa. Off No IDE device is being accessed. Green The NEC Versa is accessing the IDE drive. Diskette Drive Access Lights as follows to indicate access to a floppy disk drive installed in the NEC Versa notebook computer only. Off No diskette drive is being accessed.

Introducing the NEC Versa Dock 1-5 Green The NEC Versa is accessing the diskette drive. Battery Charge Status Lights as follows to indicate the battery charge to a secondary battery pack installed in the optional VersaBay III Adapter Kit. Steady Green The battery installed in the optional VersaBay III Adapter Kit is being charged. You can charge the battery whether the NEC Versa Dock is powered on or off or is in Standby mode. You can also charge the battery in the optional VersaBay III Adapter Kit when no system is docked in the NEC Versa Dock. The NEC Versa Dock must be connected to an AC power source to charge the battery pack. Off The installed battery is fully charged, or no battery is installed. n Docking/Undocking Button -- Initiates the automatic sequence for docking or undocking your system if the keylock is in the normal position. Left Side Features found on the left-hand side of the NEC Versa Dock are shown in the following figure. Features are described after the figure.

Left side features A - PCI external access B - Height lever C - Volume control knob D - Audio ports E - MIDI/Game port n PCI External Access -- Gives you access to external ports, connectors, switches and indicators on installed PCI cards. n Height Adjustment Lever -- Adjusts the height on the docking tray to match the height of your system. To access the lever, pull the door open by the slot. n Volume Control -- Gives you control over the volume of external speakers or headphones attached to the NEC Versa Dock. 1-6 Introducing the NEC Versa Dock n Audio Ports -- Connects external audio devices including a microphone, headphones, or speakers.

You can also connect other audio devices to use as an output device or input source. n MIDI/Game Port -- Supports MIDI/Game devices, such as a joystick or MIDI keyboard.



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Introducing the NEC Versa Dock 1-7 Right Side The keylock switch on the right side of the NEC Versa Dock is shown in the following figure. A description follows the figure. Right side feature A - Keylock switch n Keylock switch -- Provides three settings that let you control NEC Versa removal.

An alarm sounds if someone tries to remove the NEC Versa while it is locked onto the NEC Versa Dock, even if the NEC Versa Dock is powered off or is disconnected from AC power. Motorized docking is only enabled when the keylock switch is in the full upright position. Locked Prevents the NEC Versa from being removed from the NEC Versa Dock. You must use the key to unlock the unit before removing the NEC Versa. Normal (Default position). Allows you to motorize dock or undock the NEC Versa. Set the keylock to this position for normal use. To prevent electrical damage, manual undocking is not allowed when the keylock is in this state. Manual Allows you to remove the NEC Versa by hand. Use the unlocked position for emergency undocking only.

Otherwise, use the Normal lock setting for normal use and the Locked setting to physically secure your system to the NEC Versa Dock. If no computer is docked and the keylock is in the Locked position, no one else can use their computer with the NEC Versa Dock. The key can only be removed from the system while the keylock is in the Locked position. 1-8 Introducing the NEC Versa Dock Back Features on the back of the NEC Versa Dock are shown in the following figure. Descriptions follow the figure. Back features A - Fan assembly B - Voltage selector switch C - Keyboard port D - Kensington lock port E - USB ports F - Parallel port G - Serial port H - Monitor port I - Mouse port J - AC power port n Fan Assembly -- Provides proper cooling for the power supply that regulates power in the NEC Versa Dock. Keep the fan assembly clear of obstructions to ensure proper cooling. n Voltage Selector -- Allows you to choose from 115 or 230 Volts. n PS/2-style Keyboard Port -- Allows you to connect an external keyboard to the NEC Versa Dock. n Kensington Lock Port -- Allows you to secure your NEC Versa Dock using an optional Kensington Lock.

n USB Ports -- Allows you to connect Universal Serial Bus devices to the NEC Versa Dock. n Parallel Port -- Allows you to connect a parallel device to the NEC Versa Dock. n Serial Port -- Allows you to connect a serial device to the NEC Versa Dock. n External Monitor Port -- Allows you to connect an external monitor to the NEC Versa Dock. (You may need to press Fn-F3 to get an image on the external monitor.

See your NEC Versa User's Guide for function key combinations.) n PS/2-style Mouse Port -- Allows you to connect an external mouse to the NEC Versa Dock. n Power Port -- Allows you to connect the NEC Versa Dock to AC power. Introducing the NEC Versa Dock 1-9 The Right Environment Before setting up the NEC Versa Dock, find a good location for its use. Here are some guidelines.

n Choose an area close to a wall outlet that is easily accessible. n Select a flat, sturdy surface, like a desktop or table, so you have access to the front, back, and sides of the unit. n Choose an area away from extreme temperatures, direct sunlight, excessive dust, vibration, shock or moisture. Operating Environment

Use the NEC Versa Dock in a location that meets the following environmental conditions: n Temperature: 41°F to 95°F (5°C to 35°C) n Humidity: 20% to 80% (non-condensing) Storage Environment Store the NEC Versa Dock in a location that meets the following conditions: n Temperature: 4°F to 122°F (20°C to 50°C) n Humidity: 15% to 85% (non-condensing) 1-10 Introducing the NEC Versa Dock 2 System Configuration and Setup n n n Setting Up Software

Docking and Undocking Installing Options and Connecting Devices Setting Up Software Before docking the NEC Versa in the NEC Versa Dock, be sure to prepare your NEC Versa notebook computer for use in the NEC Versa Dock. This involves three procedures. n Flashing the NEC Versa notebook computer's BIOS, using the correct BIOS Update for your NEC Versa. n Installing the drivers on the NEC Versa notebook computer, using the NEC Versa Dock Software Setup CD. n Installing the Online User Guide using the NEC Versa Dock Software Setup CD. Instructions for installing each of these software utilities can be found in the following sections. Updating the BIOS To update your system BIOS, choose the correct BIOS update for your NEC Versa that is provided on the BIOS Update diskette.

n NEC Versa SX with Pentium I -- choose the BIOS Update for the NEC Versa SX Series with Pentium I. n NEC Versa SX with Pentium II -- choose the BIOS Update for the NEC Versa SX Series with Pentium II. n NEC Versa LX with Pentium I -- choose the BIOS Update for the NEC Versa LX Series with Pentium I. n NEC Versa LX with Pentium II -- choose the BIOS Update for the NEC Versa LX Series with Pentium II. Use only the BIOS update diskette included with the NEC Versa Dock and be sure to prepare the diskette before upgrading the BIOS. Preparing the BIOS Update Diskette Before using the BIOS update diskette, you must make the diskette BIOS flash ready. Refer to the readme.txt file on the diskette before using the diskette. Follow these instructions to prepare the BIOS Update Diskette. 1.

Scan your hard drive for any computer viruses. 1. Enable the diskette for write access by sliding the write-protect tab to the write-enabled setting. 1. Insert the diskette into drive A:.

1. Type a:\install at the DOS prompt and follow the on-screen instructions. Install.bat copies the DOS system files from your hard drive onto the BIOS Update Diskette to make it BIOS flash ready. 2-2 System Configuration and Setup The system prompts you when the process is complete.

1. Scan the BIOS Update Diskette for computer viruses. The diskette is ready for use. 6. Follow the instructions below for performing the actual BIOS update. Performing the BIOS Update Use the following procedure to perform the actual BIOS update. 1. Make sure the NEC Versa is operating under AC power, and that the power is off. Insert the BIOS Update diskette into diskette drive A. 1.

Power on the computer with the diskette in drive A. The computer boots and automatically loads the utility. A message similar to the following appears: The NEC BIOS Update Utility should not be used to modify the BIOS in a Versa system which is docked. If your NEC Versa is docked, please exit the BIOS Update Utility, power down, and undock your NEC Versa before running the utility. Plug in your power cable before restarting the flash utility. 1. Press Enter to continue. The utility checks the currently installed BIOS version and the diskette's BIOS version. The Main menu appears. 1.

Use the arrow keys to highlight the "Display BIOS Version" option on the Main menu.



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Use this option to check the currently installed BIOS version and the version of the new replacement BIOS. 1. Highlight the "Install New BIOS" option and press Enter. 1.

Press Y and then press Enter. After a brief pause, a message appears telling you to remove the diskette in drive A. 1. Remove the diskette and press any key to continue. The utility updates the BIOS.

Power off your computer. The next time you power on your computer, you will have the latest NEC Versa LX or SX computer BIOS revision level. 8. Enter Setup to restore the default parameter settings. System Configuration and Setup 2-3 Installing Drivers The drivers for the NEC Versa Dock can be found on the NEC Versa Dock Software Setup CD. Refer to the readme.txt file on the CD for details on driver installation for the NEC Versa Dock. The Software Setup

CD dialog box consists of the following components. n Selection Tabs -- Located just below the title bar, each tab represents a software category. n Description -- Located in the bottom portion of the dialog box, the text describes the selected or highlighted software category or driver.

n Install -- Clicking the Install button installs the selected software. n Exit -- Clicking the Exit button closes the NEC Versa Dock Software Setup CD dialog box. Once the NEC Versa Dock Software Setup CD dialog box appears, follow these steps to install the desired software. 1. Insert the NEC Versa Dock Software Setup CD into the CD-ROM reader. If you have a combination of two CD-ROM devices installed in the NEC Versa and the NEC Versa Dock, be sure you have the NEC Versa Dock Software Setup CD in the CDROM drive that was installed first and has the lowest assigned drive letter (such as D:\ or E:\).

2. From the Start menu, type Run. 2. Click the Browse button to access the Setup.exe file on the CD. 4. Click the selection tab of your choice. 4. Click the plus (+) box beside the desired utility to expand the selection.

4. Click the Installation selection to activate the Install button. 4. Click the Install button to install your selection. 4.

Click Exit to close the NEC Versa Dock Software Setup CD dialog box. Follow the on-screen instructions to install your selection. 9. Remove the CD from the CD-ROM reader when the installation is complete. 2-4 System Configuration and Setup Installing the Online User's Guide The online version of this user's guide is on the NEC Versa Dock Software Setup CD. Install the guide onto your hard disk drive as follows. To access the online NEC Versa Dock User's Guide, Microsoft Internet Explorer 4.01 must be installed on your system. 1. Insert the NEC Versa Dock Software Setup CD into the CD-ROM reader.

If you have a combination of two CD-ROM devices installed in the NEC Versa and the NEC Versa Dock, be sure you have the NEC Versa Dock Software Setup CD in the CDROM drive that was installed first and has the lowest assigned drive letter (such as D:\ or E:\). 2. On the NEC Versa Dock Software Setup application, click on the NEC Online Documentation tab. 2. Click on the NEC Versa Dock User's Guide checkbox. 2. Click OK to launch the Setup program. The Setup program installs the online version of this user's guide. 5. To access the user's guide, double click on the NEC Versa Dock User's Guide icon that appears on the desktop.

Uninstalling the Online User's Guide To uninstall the online NEC Versa Dock User's Guide from your hard drive, follow the steps below. 1. From the Start menu, click on Settings and Control Panel. 1. From the Control Panel, double click on Add/Remove Programs, then scroll down to select the NEC Versa Dock Online Guide.

3. The Uninstall NEC Help Center dialog box appears and allows you to choose an uninstall method. You can choose either an automatic uninstall, which removes all NEC Help Center files, or a custom uninstall, which allows you to choose which files are uninstalled. System Configuration and Setup 2-5 Use caution when using the Custom Uninstall method. Some of the files may be shared by other applications and deleting them may affect other programs.

4. The Uninstall Wizard guides you through the rest of the uninstall process. The NEC Versa Dock User's Guide and its desktop icon are removed from your system. 2-6 System Configuration and Setup Docking and Undocking Getting the NEC Versa Dock up and running is easy. These next few pages provide the procedures to get started. They include: n Connecting the power cable to AC power and to the NEC Versa Dock. n Preparing the NEC Versa for docking and docking it on the NEC Versa Dock. n Powering on the NEC Versa. This chapter also describes normal and emergency undocking when you want to use the NEC Versa by itself. Connecting the Power Cable Follow the instructions given next in the order presented to get your NEC Versa and NEC Versa Dock up and running.

Connect the AC power cable to the NEC Versa Dock and AC power before docking the computer. The power cable that came with the NEC Versa Dock provides power to both the NEC Versa Dock and the NEC Versa when docked. If you need to replace the NEC Versa Dock power cable, make sure it meets the following specifications: n In North America, the cable should be rated for 120 V, 7 A. The plug is a NEMA 5-15P. Use an SVT or SJT 18/3 AWG cable that is less than 15 feet (4.5 m) long. Use connector type IEC320. n In Europe, the cable should be rated for 230 V (220-240 V), 10 A. The plug is country-specific. Use an H05VV-F or H05VVH2-F cable that is less than 15 feet (4.

5 m) long. Use connector type EN60320. Connect the power cable as follows. System Configuration and Setup 2-7 Ensure that the voltage selection switch (located on the back of the NEC Versa Dock) is set correctly for your environment. In the United States, most wall outlets require you to set the voltage selection switch to 115 volts.

In many European countries, however, the voltage setting switch should be set to 230. 1. Position the NEC Versa Dock on a flat surface close to an AC outlet. 1. Attach one end of the cable to the AC power port on the NEC Versa Dock.

1. Attach the other end to a properly grounded wall outlet. Connecting the power cable The NEC Versa Dock is now powered on. 2-8 System Configuration and Setup Disconnecting the power cable or experiencing a power outage while running the NEC Versa Dock and NEC Versa can cause the system to suddenly power off, resulting in a possible loss of data. Preparing the NEC Versa for Docking Follow the procedure given below to prepare the NEC Versa for docking. 1. Set the NEC Versa power for your system as follows. n If you have an NEC Versa with a Plug and Play operating system such as Windows 95,

you can either put your system into Suspend mode, leave it in full Operation mode for docking, or you can choose to power off. If you have a non-Plug and Play operating system such as Windows NT 4.0, turn off the system power before docking.

n Make sure your system is in the appropriate mode for docking.



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2. If you are running the NEC Versa on AC power, save any open files, close open applications and disconnect the AC adapter cable from the NEC Versa. Before disconnecting power, save any open files or close open applications to avoid data loss. 3. On the back of the NEC Versa, open the expansion port cover and slide it underneath the expansion port. Check that all other NEC Versa port covers are closed. Opening the NEC Versa expansion port cover System Configuration and Setup 2-9 Stowing the expansion port cover 4. Verify that the power cord is plugged into the NEC Versa Dock. (See "Connecting the Power Cable" for details.

) 5. Ensure that the keylock switch is in the Normal position. Motorized docking is only enabled when the keylock switch is in the full upright position. 2-10 System Configuration and Setup When the Docking Status LED light is steady yellow, the NEC Versa Dock is ready for motorized docking. Docking Status LED A - Docking status LED Docking the NEC Versa You can dock the NEC Versa in one of the following modes: n Cold Docking -- with NEC Versa system power off.

This method works for all NEC Versa models that support docking. n Warm Docking -- with NEC Versa power on, the system in Suspend mode, and NEC Versa Dock power on. This procedure can be used with NEC Versa systems with Plug-and-Play operating systems, such as Windows 95. n Hot Docking -- with NEC Versa power on and the system in full operation mode. This procedure can be used with NEC Versa systems with a Plug and Play operating system, such as Windows 95.

System Configuration and Setup 2-11 Use the following steps to dock your NEC Versa. 1. Locate the height lever on the left side of the unit. Locating the height lever A - Height lever position II B - Height lever position I 1. Set the height lever on the side of the NEC Versa Dock to match your system as follows:

It is important that the height lever is set to the correct height for system docking. The NEC Versa Dock will not properly dock the NEC Versa if the height lever is set incorrectly, which may result in system damage to either the NEC Versa Dock or the NEC Versa. The Docking LED blinks amber if the height lever is set incorrectly. n n If you have an NEC Versa LX, set the lever to I by sliding the lever to the front. If you have an NEC Versa SX, set the lever to II by sliding the lever to the rear. 3.

Verify that the keylock switch is in the "Normal" position. Keylock switch in the Normal position 2-12 System Configuration and Setup 4. Close the LCD panel on the NEC Versa. 5. Slide the NEC Versa onto the NEC Versa Dock. Ensure that the three locking teeth on the NEC Versa Dock fit into the three locking slots on the bottom of the NEC Versa. Locating the locking teeth System Configuration and Setup 2-13 A - NEC Versa Dock locking teeth Locating the locking slots A - NEC Versa locking slots Once the notebook is properly seated on the docking teeth, the docking connector and the expansion port are properly aligned. Aligning the NEC Versa with the NEC Versa Dock 2-14 System Configuration and Setup A - Docking connector on the NEC Versa Dock B - Docking connector on the NEC Versa (not shown) C - Dock/Undock button 6. Verify that the Docking LED is a steady yellow. 7.

Press the Dock/Undock button on the left of the front panel. The system automatically docks. If the system does not automatically dock, ensure that the height lever is in the correct position for your system and that the system is correctly seated on the docking tray. Pressing the Dock/Undock Button A - Dock/Undock button 8. If the Docking Status LED blinks amber, remove the NEC Versa using the Dock/Undock button, reseal it, and retry docking.

8. If using the NEC Versa without an external monitor, open the LCD panel. 10. If the system was cold docked, press the Power button on the NEC Versa Dock to power on the NEC Versa. 11.

Verify that the Docking Status LED is steady green, indicating the NEC Versa is properly docked on the NEC Versa Dock. Once docked, you can lock the NEC Versa onto the NEC Versa Dock using the key provided. See the following section "Locking the NEC Versa" for details. Locking the NEC Versa Turn the key on the side of the NEC Versa Dock to lock the NEC Versa onto the NEC Versa Dock. You can choose one of the three following locking states. System Configuration and Setup 2-15 n Locked This setting keeps the NEC Versa from being removed from the NEC Versa Dock. You must use the key to unlock the unit before removing the NEC Versa. An alarm sounds if someone tries to remove the NEC Versa while it is locked onto the NEC Versa Dock, even if the NEC Versa Dock is powered off or is not connected to AC power. There is an intermediate position or stop between the Normal and Manual positions. This is not a valid position for proper operation of the NEC Versa Dock.

Attempting to move the NEC Versa system with the key in this intermediate position could result in excessive noise from the NEC Versa Dock motor. When using the keylock, make sure to fully turn the key to the desired Normal or Manual position. It may be necessary to apply additional pressure when turning the keylock to the Manual position. Turning the keylock switch to Locked n Normal this default position allows you to motorize dock or undock the NEC Versa. Set the keylock to this position for normal use. To prevent electrical damage, manual undocking is not allowed when the keylock is in this state. Turning the keylock switch to Normal 2-16 System Configuration and Setup System Configuration and Setup 2-17 n Manual Allows you to remove the NEC Versa by hand. Use the unlocked position for emergency undocking only. Otherwise, use the Normal lock setting for normal use and the Locked setting to secure your system to the NEC Versa Dock. The Manual setting requires manual removal of the computer and resetting the keylock to Locked.

Turning the keylock switch to Manual If no computer is docked and the keylock is in the Locked position, no one else can use their computer on the NEC Versa Dock. The Keylock Status LED lights as follows to indicate the status of the NEC Versa Dock. n Off The NEC Versa is not docked. n Steady Amber The NEC Versa is docked but not locked on the NEC Versa Dock. The key is in either the Normal position with the NEC Versa turned off, or in the Manual position with the NEC Versa on or off.

n Steady Yellow The NEC Versa is locked onto the NEC Versa Dock through software. The key is in the Normal position and the NEC Versa is on. n Steady Green The NEC Versa is physically locked onto the NEC Versa Dock. The key is in the Lock position with NEC Versa power on or off. Undocking the NEC Versa Undock your NEC Versa as follows.

1. Check the status of your NEC Versa power: If you are running a non-Plug and Play operating system such as Windows NT 4.



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0, save your files, close any open applications and exit Windows. 2. For easier undocking, close the LCD panel. (This is not required, but is recommended.) Ensure that all cables connected to the sides of the NEC Versa are disconnected prior to undocking the system. Also 2-18 System Configuration and Setup ensure that CD/DVD drives are closed and that no diskettes or SuperDisks are extending from the drive. 3. Verify that the keylock switch is in the Normal position.

Keylock Switch in the Normal Position 4. Press the Dock/Undock button on the front of the NEC Versa Dock. As the docking tray slides forward, the NEC Versa mechanically ejects from the NEC Versa Dock. Docking/Undock Button A - Dock/Undock button To use Windows 95 software to undock the NEC Versa, locate and select the "Eject PC" icon in the Windows 95 Start menu. When you select this icon, a "Dock Change" window appears. 5. The NEC Versa Dock automatically ejects the NEC Versa. Emergency Undocking To undock your NEC Versa Dock in the event of a power failure or other emergency, undock the unit as follows. 1. Turn the keylock switch to the Manual position.

Keylock switch in the Manual position System Configuration and Setup 2-19 Ensure that all cables connected to the sides of the NEC Versa are disconnected prior to undocking the system. Also ensure that CD/DVD drives are closed and that no diskettes or SuperDisks are extending from the drive. Note: There is an intermediate position or stop between the Normal and Manual positions. This is not a valid position for proper operation of the NEC Versa Dock. Attempting to move the NEC Versa system with the key in this intermediate position could result in excessive noise from the NEC Versa Dock motor.

When using the keylock, make sure to fully turn the key to the desired Normal or Manual position. It may be necessary to apply additional pressure when turning the keylock to the Manual position. 2-20 System Configuration and Setup 2. Remove the CRT table from the NEC Versa Dock. 3.

Release the NEC Versa from the NEC Versa Dock by firmly pulling the front of the NEC Versa with equal pressure to the right front and the left front. 4.

Continue to pull until the NEC Versa is free from the NEC Versa Dock. Releasing the NEC Versa from the NEC Versa Dock Installing Options and Connecting Devices You can optimize your NEC Versa's functionality by installing options in the NEC Versa Dock. Options can be installed in the following bays and slots: n File Bays -- two file bays on the front of the NEC Versa Dock give you external access to installed devices. In the left front file bay, you can install any optional 5.25-inch IDE device, and with a 3.5-inch Universal Installation Kit, you can install any 3.5-inch IDE device. In the right front file bay you can install any optional IDE device or the optional VersaBay III Adapter Kit.

With this Adapter Kit, you can change this file bay into a VersaBay III slot that lets you use your VersaBay III devices in the NEC Versa Dock. n Two PCI Board Slots -- Two slots let you add two PCI cards to your NEC Versa Dock. One slot supports a full-size card and both slots support a half-size PCI card. n I/O ports on the sides and back of the NEC Versa Dock let you connect the following external devices: Parallel device External monitor Serial device PS/2 keyboard and PS/2 mouse (separate ports for each) System Configuration and Setup 2-21 USB devices (two ports with hub) MIDI/Game devices Audio devices. Installing Devices in the File Bays The NEC Versa Dock has two 5.25-inch half-height bays for installing optional devices. The bay located on the right front of the NEC Versa Dock (the side closest to the keylock), supports the installation of an optional VersaBay III Adapter Kit. Installing the Adapter Kit transforms the bay into a VersaBay III. You can then use your optional VersaBay III devices in the NEC Versa Dock. Installing devices in the file bays involves the following procedures: n Removing the NEC Versa Dock docking tray, front panel and cable cover.

n Disconnecting the cables from the motherboard. n Connecting the cables to the device. n Installing the device in the NEC Versa Dock. n Reconnecting the cables to the motherboard. n Replacing the NEC Versa Dock cable cover, docking tray and front panel.

Use the instructions in the sections that follow to install an IDE device in a file bay and to install the optional VersaBay III Adapter Kit. Installing Devices in the File Bays The NEC Versa Dock has two 5.25-inch half-height bays for installing optional devices. The bay located on the right front of the NEC Versa Dock (the side closest to the keylock), supports the installation of an optional VersaBay III Adapter Kit. Installing the Adapter Kit transforms the bay into a VersaBay III.

You can then use your optional VersaBay III devices in the NEC Versa Dock. Installing devices in the file bays involves the following procedures: n Removing the NEC Versa Dock docking tray, front panel, and cable cover. n Disconnecting the cables from the motherboard. n Connecting the cables to the device. n Installing the device in the NEC Versa Dock. n Reconnecting the cables to the motherboard. n Replacing the NEC Versa Dock cable cover, front panel, and docking tray. 2-22 System Configuration and Setup Removing Trays, Panels, and Covers Before installing a device in one of the NEC Versa Dock file bays, you must remove the docking tray, front panel, and cable cover. Do so as follows: 1. Unplug the NEC Versa Dock, disconnect any peripheral devices that are attached, and undock the NEC Versa if it is docked.

1. Disconnect any external cables that might be attached on an installed PCI board (such as a network board). 3. Turn the keylock switch to the Manual position to disengage the motor mechanism. Keylock switch in the Manual position 4. Remove the front part of the docking tray. First locate and remove the rubber pads securing the three screws, then loosen and remove the three screws. Lift the docking tray up and off the NEC Versa Dock. Removing the docking tray System Configuration and Setup 2-23 5. Remove the front panel from the NEC Versa Dock by removing the two screws at the bottom and freeing the four tabs from the top of the panel.

Put the screws in a safe place for use when replacing the front panel. Removing the front panel A - Front panel tabs (4) B - Front panel screws (2) 6. Slide the rear part of the docking tray towards the front of the NEC Versa Dock until it stops. 7. Remove the cable cover by locating and removing the two top screws. Put the screws in a safe place for use when replacing the cable cover. Locating the cable cover screws A - Cable cover screws (2) 2-24 System Configuration and Setup 8. Lift the cable cover up and off the NEC Versa Dock. Removing the cable cover You are now ready to disconnect the cables from the motherboard. (See the instructions in "Disconnecting the Cables from the Motherboard" for details.



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) *Disconnecting the Cables from the Motherboard* Disconnect the cables from the motherboard as follows. 1. Before handling any internal components, discharge static electricity from yourself and your clothing by touching a nearby metal surface. 2. See the appropriate figure for the bay that you are using to disconnect cables from the motherboard. The following figure shows cable locations in the NEC Versa Dock. Left-hand bay cables and ports System Configuration and Setup 2-25 A - Power cable port B - IDE signal port C - Audio cable port D - Audio cable E - IDE signal cable F - Power cable Right-hand bay cables A - VersaBay III cable port B - Power cable port C - IDE signal port D - Audio port E - IDE signal cable F - Power cable G - VersaBay III cable 3. If you are installing a device in the right-hand file bay and you need an audio cable, remove the audio cable from behind the left-hand bay. The NEC Versa Dock comes with only one audio cable. You are now ready to attach the cables to the appropriate ports on the back of the device.

(See the instructions in "Connecting IDE Device Cables" for details. If you are installing an optional VersaBay III device, see the instructions in "Connecting VersaBay III Adapter Kit Cables" for details.) *Connecting IDE Device Cables* Connect the cables to the IDE device as follows. 1. Before handling any internal components, discharge static electricity from yourself and your clothing by touching a nearby metal surface. 2-26 System Configuration and Setup 2. Locate the power cable and IDE signal cable port, and if necessary, the audio cable port on the back of the IDE device. System Configuration and Setup 2-27 Locating and connecting the cables to the IDE device A - Audio cable port B - IDE signal cable port C - Power cable port D - Power cable E - IDE signal cable F - Audio cable 3. Connect the appropriate power cable, the IDE signal cable, and if necessary the audio cable to the ports on the back of the IDE device. The IDE cable must be installed with the red stripe to the left side of the device.

4. Ensure that the IDE connector pin is oriented correctly on the IDE signal cable. If the power cable for the device you are installing uses a small connector, use one of the cables provided in the accessory kit. You are now ready to install the IDE device into the file bay. (See the instructions in "File Bay Installation" for details.

) 2-28 System Configuration and Setup *Connecting VersaBay III Adapter Kit Cables* Connect the VersaBay III Adapter Kit cables as follows. 1. Locate the IDE cable port, the VersaBay III signal cable port, and the VersaBay III power cable port. Locating and connecting the cables to the VersaBay III device A - IDE signal cable port B - Power cable port C - VersaBay III cable port D - VersaBay III cable E - Power cable F - IDE signal cable 2. Connect the cables to the appropriate ports on the back of the optional VersaBay III Adapter Kit.

You are now ready to install the optional VersaBay III Adapter Kit into the file bay. (See the instructions in "File Bay Installation" for details.) *File Bay Installation* Install an IDE device or the optional VersaBay III Adapter Kit in the file bay as follows. 1. Before handling any internal components, discharge static electricity from yourself and your clothing by touching a nearby metal surface. 2. Remove the NEC Versa Dock front panel, docking tray, and cable cover. (See the instructions in "Removing Trays, Panels, and Covers" for details.) 3. Remove the cables from the motherboard.

(See the instructions in "Disconnecting Cables from the Motherboard" for details.) System Configuration and Setup 2-29 4. Attach the cables to the IDE device or the optional VersaBay III Adapter Kit. (See the instructions in "Connecting IDE Device Cables" or "Connecting VersaBay III Adapter Kit Cables" for details.) 5. Locate and remove the screw that secures the device bracket in the bay. (Put the screw in a safe place for use during reassembly.) *Removing the screw securing the device bracket* A - Device bracket screws (2) As an added security feature, the keylock switch must be in the Manual position before the file bay brackets can be removed. If the keylock switch is in the Locked position, the file bay bracket will not slide forward. This prevents device removal while the keylock switch is in the Locked position.

6. Verify that the keylock switch is in the Manual position. The device bracket will not slide out of the file bay unless the keylock is in the Manual position. 7. Slide the device bracket out of the NEC Versa Dock.

Removing the bracket 2-30 System Configuration and Setup 8. Fit the IDE device into the bracket and determine which of the two front-to-back positions best suits the type of device you are installing. Installing a 3.5-inch IDE device in the file bays without a 3.5-inch Universal Installation Kit can short circuit and burn out the device.

Be sure to install 3.5-inch IDE devices in the file bays using a 3.5-inch Universal Installation Kit. 9. Align the screw holes on the side of the device with the screw holes on the bracket. Attach the device to the bracket using the four screws that came with the IDE device. Attaching the device to the bracket A - Device bracket screws (4) 10. Slide the device and bracket into the file bay. Sliding the device and bracket into the file bay System Configuration and Setup 2-31 11. Secure the screw that attaches the bracket to the NEC Versa Dock.

Securing the bracket and device screw A - File bay bracket screw 12. If you have another file bay device to install, do so before replacing the cable cover, docking tray, and front panel. You are now ready to reconnect the cables to the motherboard. *Reconnecting the Cables to the Motherboard* Reconnect the cables to the motherboard as follows. 1. Before handling any internal components, discharge static electricity from yourself and your clothing by touching a nearby metal surface. 2. Locate the power cable slot, IDE signal cable slot, and the audio cable slot (if necessary) found directly behind the IDE device installed. If you are installing the optional VersaBay III Adapter Kit, also locate the VersaBay III cable slot. Locating ports and reconnecting cables to the left side of the motherboard 2-32 System Configuration and Setup A - Power cable port B - IDE signal cable port C - Audio cable port D - Audio cable E - IDE signal cable F - Power cable Locating ports and reconnecting cables to the right side of the motherboard A - VersaBay III cable port B - Power cable port C - IDE signal cable D - Audio Port E - IDE signal cable F - Power cable G - VersaBay III cable 3.

Reconnect the appropriate power cable and the IDE cable to the motherboard. Also connect the audio cable or VersaBay III cable, if necessary, to the motherboard. You are now ready to replace the NEC Versa Dock cable cover.



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(See the instructions in "Replacing Covers, Panels, and Trays" for details.) Replacing Covers, Panels, and Trays Replace the NEC Versa Dock cable cover, front panel, and docking tray as follows.

1. Align the tabs on the cable cover with the slots. 2. Lower the cable cover onto the NEC Versa Dock. Lowering the cable cover onto the NEC Versa Dock System Configuration and Setup 2-33 3.

Replace the two screws on the top of the cable cover. Replacing the cable cover screws A - Cable cover screws (2) 4. Slide the rear part of the docking tray towards the back of the NEC Versa Dock until it is seated properly. 2-34 System Configuration and Setup Make sure the docking connector is aligned with the hole in the docking tray as you slide the docking tray into place. System Configuration and Setup 2-35 5. You are now ready to replace the front panel. If the device(s) you installed require(s) external access, remove the appropriate file bay cover(s) on the front panel by squeezing the two inside tabs together and gently pushing the bay cover out of the front panel. NEC Versa Dock file bay covers A - Bay cover tabs (2) 6. Replace the front panel on the NEC Versa Dock by aligning the four tabs at the top then replacing the two bottom screws. Replacing the front panel A - Front panel tabs (4) B - Front panel screws (2) 2-36 System Configuration and Setup 7.

Replace the front part of the docking tray. Lower the front part of the docking tray onto the NEC Versa Dock, secure the three screws, then finish with the three rubber feet. Replacing the docking tray Installing PCI Cards Two PCI slots let you add two PCI cards to your NEC Versa Dock. The top slot supports a full-size PCI card and both slots support a half-size (or smaller) PCI card. PCI connectors are located in the back of the NEC Versa Dock. Only the top slot supports a full-size card. The optional NEC 3Com Fast EtherLink LX provides a networking solution for the NEC Versa Dock for systems running Windows 95 and Windows NT 4.0. This PCI card supports Wake on LAN technology, which allows you to manage your networked systems remotely. For installation and configuration information, see the documentation that came with the NEC 3Com Fast EtherLink LX.

Follow these steps to install a PCI card in the NEC Versa Dock. 1. Unplug the NEC Versa Dock before installing or removing any PCI cards. 2. Remove the back cover by locating and removing the two screws.

3. Put the screws in a safe place for use when replacing the cover. System Configuration and Setup 2-37 Locating and Removing the Back Cover Screws A - Back cover screws (2) 4. Locate and remove the slot cover screw. @@@@Firmly push against the card until the connection is secure.

@@@@Connect to the SCSI device and the card. 7. @@@Attach device cables to the installed PCI card. 8. @@@9. Reconnect the power cable. @@@You can check this by using the following procedure. 1. @@@2. Double click System.

3. Click the Device Manager tab. @@@4. @@@@I. Check that both the NEC Versa and the device power are off. 2. @@@3. Secure the connection with the screws provided on the cable. 4. @@@@6.

@@@See the printer's user's guide for instructions. 7. Turn on the power to the NEC Versa Dock. @@@@1. For non-Plug and Play operating systems such as Windows NT 4.

0, power off the NEC Versa. System Configuration and Setup 2-41 For non-Plug and Play operating systems such as Windows NT 4.0, make sure the NEC Versa is powered off whenever you add or remove an external keyboard or mouse. Connecting an external keyboard or mouse to the system in Operation mode can cause the system or device to malfunction. 2.

Connect the keyboard cable connector to the keyboard port on the NEC Versa Dock. Connect the mouse cable connector to the mouse port on the NEC Versa Dock. Connecting an external keyboard and mouse 3. For non-Plug and Play operating systems such as Windows NT 4.0, power on the system. The system immediately recognizes the keyboard or mouse. After you connect an external keyboard, you can use both the built-in keyboard and external keyboard simultaneously. (Only the numeric keypad on the external keyboard works in this case.) External Monitor The NEC Versa Dock is equipped with an industry standard 15-pin VGA monitor connector. The monitor connector supports a video graphics array of various resolutions.

See the monitor's user's guide for details. Follow these steps to connect an external monitor to the NEC Versa Dock. 2-42 System Configuration and Setup 1. Check that the docked NEC Versa is powered off and the monitor power switch is turned off. The docked NEC Versa must be powered off while the monitor is being connected or the system does not recognize the monitor type. 2. Position the monitor as follows: n n To use the monitor without the monitor stand, simply place the monitor on a flat surface next to the NEC Versa Dock. To use the monitor stand Close the LCD panel on the NEC Versa. Lower the monitor stand onto the NEC Versa Dock. Carefully center the external monitor on the monitor base.

Lowering the monitor base into place System Configuration and Setup 2-43 3. Attach the 15-pin cable connector to the monitor port on the NEC Versa Dock. 4. Secure the cable connection with the screws provided on the cable. Connecting a monitor cable 5.

Connect the monitor power cable and plug it into a properly grounded wall outlet. 6. Follow any setup instructions in the monitor's user's guide. 7. Power on the monitor.

8. Power on the NEC Versa. Press Fn-F3 to toggle between the LCD, CRT, simultaneous CRT/LCD display, and TV Out (on systems that support TV Out). Parallel Devices To install a parallel device such as a printer, you need a cable with a male 25pin connector for the system and, for most parallel printers, a Centronics@compatible 36-pin connector. When you connect a printer, be sure to install the appropriate printer driver through the Windows Control Panel. Connect a parallel device to the NEC Versa Dock as follows. 1. Check that both NEC Versa and the parallel device power are off. 2-44 System Configuration and Setup 2. Align and connect the 25-pin parallel cable connector to the parallel port on the NEC Versa Dock.

Secure the cable with the screws provided. 3. Align and connect the other end of the cable to the parallel port on the device. Lock the connector clips. System Configuration and Setup 2-45 Connecting a parallel printer 4. @@@5. Turn on power to the system and the device. Check that the device is online before you try to use it. See the instructions that came with the device for more information. USB Devices The NEC Versa Dock lets you take advantage of the latest USB technology available to Windows 95 users.

Plug USB devices into your Windows 95 system as follows. The USB hub on both the NEC Versa and the NEC Versa Dock are active at the same time. You can connect USB devices to all three ports to further increase system connectivity.



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Any external USB hubs you wish to connect to the NEC Versa Dock must have an external power supply. 1.

Locate the USB ports on the back of the NEC Versa Dock. 2. Plug in the USB connector. 2-46 System Configuration and Setup Connecting a USB device MIDI/Game Devices The MIDI/Game port lets you attach a joystick or MIDI device to your NEC Versa Dock. Connect a joystick or MIDI device as follows:

1. Check that both the NEC Versa and the device power are off. 2. Locate the MIDI/Game port on the side of the NEC Versa Dock. 3. Plug in the joystick or MIDI device and power on the MIDI device and NEC Versa Dock. Connecting a MIDI/Game device System Configuration and Setup 2-47 External Audio Options The NEC Versa Dock automatically supports sound from the system speakers on the NEC Versa, and also comes equipped with built-in audio ports that let you record and play sound. A volume control knob lets you control the volume of connected external speakers or headphones. Connect audio devices, like a microphone, line-out and line-in devices, headphones, or optional external speakers to the audio ports as follows. 1. Power off the NEC Versa Dock and the NEC Versa.

2. Locate the audio port that you want to use. : If the audio device you intend to use uses AC power, the line out port is recommended. If the audio device is unpowered, the headphone jack is recommended. 3. Plug the jack into the port on the side of the NEC Versa Dock. Audio ports A - Microphone port B - Line-in port C - Line-out/speaker port D - External speaker/headphone port 4. Power on the NEC Versa Dock and NEC Versa. 2-48 System Configuration and Setup Connecting External Speakers When the NEC Versa is docked, the system defaults to the NEC Versa speakers. If you want to use optional external speakers with your NEC Versa Dock, do so as follows.

1. On Windows 95, click Start, Settings, then Control Panel. 2. Double click on the Systems icon and click the Device Manager tab. 3. Double click on the Sound, Video and Game Controllers Icon, then double click the Maestro Wave/WaveTable Synthesis Devices icon. 4. Click on the Dock Settings tab. Dock Settings Dialog Box 5. Select the Output Audio To Docking Station Speakers.

This resets the default speakers to the NEC Versa Dock optional external speakers. When you undock the system, your NEC Versa speakers will be functional.

When you dock again, the external speakers will be functional. The volume control knob on the system controls NEC Versa speaker volume. The volume control knob on the NEC Versa Dock controls the volume of external speakers connected to the NEC Versa Dock. System Configuration and Setup 2-49 If you are using external speakers or an external microphone and experience sound distortion or feedback, lower the volume. Having the microphone and speakers too close to each other can also cause feedback. Moving the external audio options away from each other may help. 2-50 System Configuration and Setup 3 Disassembly and Reassembly n n n Required Tools and Equipment Disassembly Reassembly Required Tools and Equipment All NEC Versa Dock corrective maintenance procedures can be performed using the following tools: n Key for the Versa Dock n Tweezers n Small flat-head screwdriver n Phillips screwdriver (#1) with a 6-inch shaft n Right-angled dentist style probe. Disassembly This section contains step-by-step disassembly procedures for the system.

Reassembly is the reverse of disassembly. Each procedure is supported by a simplified disassembly illustration to facilitate removal. These illustrations show various items with callouts. A sub-assembly or part that was removed in a prior step may be shown in the illustration. The illustration and callouts are accurate for the described disassembly step. The Illustrated Parts Breakdown and parts lists for the system unit are shown in Section 5. For complete disassembly of the Versa Dock, follow the disassembly order listed below. To reassemble, follow the table in reverse order. NEC Versa Dock Disassembly Sequence Level of Disassembly 1 2 3 4 5 6 Components Available at Level of Disassembly Trays, Panels, and Covers Disconnecting the Cables from the Motherboard Back Cover, Left and Right Sides, and Top Cover PCI Card and Expansion Bay Assembly Table Assembly Base Assembly (Main Board, LED Indicator Board, and Power Supply) When disassembling the system unit, follow these general rules. n Do not disassemble the system into parts that are smaller than those specified in the procedure.

3-2 Disassembly and Reassembly n Use care when removing screws, note where each screw is removed as screws differ in size. n Label all removed connectors. Note where the connector goes and in what position it was installed. Preparation for Disassembly Turn off and disconnect all power, all options, and remove the notebook. Removing Trays, Panels and Covers To remove the docking tray, front panel and cable cover.

Do so as follows: 1. Undock the NEC Versa if it is docked, unplug the NEC Versa Dock, and disconnect any peripheral devices that are attached. 2.

Disconnect any external cables that might be attached on an installed PCI board (such as a network board). 3.

Turn the keylock switch to the Manual position to disengage the motor mechanism. Keylock switch in the Manual position Disassembly and Reassembly 3-3 4. Remove the front part of the docking tray. First locate and remove the rubber pads covering the three screws, then loosen and remove the three screws. Lift the docking tray up and off the NEC Versa Dock. Removing the docking tray 5. Remove the front panel from the NEC Versa Dock by removing the two screws at the bottom freeing the four tabs from the top of the panel. Removing the front panel A - Front panel tabs (4) B - Front panel screws (2) 6. Slide the rear part of the docking tray towards the front of the NEC Versa Dock until it stops. 3-4 Disassembly and Reassembly 7.

Remove the cable cover by locating and removing the two top screws. Put the screws in a safe place for use when replacing the cable cover. Locating the cable cover screws A - Cable cover screws (2) 8. Lift the cable cover up and off the NEC Versa Dock. Removing the cable cover You are now ready to disconnect the cables from the motherboard. Disassembly and Reassembly 3-5 Disconnecting the Cables from the Motherboard Disconnect the cables from the motherboard as follows. 1. Before handling any internal components, discharge static electricity from yourself and your clothing by touching a nearby metal surface. 2. See the appropriate figure for the bay that you are using to disconnect cables from the motherboard.

The following figure shows cable locations in the NEC Versa Dock. Left-hand bay cables A - Power cable port B - IDE signal port C - Audio cable port D - Audio cable E - IDE signal cable F - Power cable Right-hand bay cables 3-6 Disassembly and Reassembly A - VersaBay III cable port B - Power cable port C - IDE signal port D - Audio port E - IDE signal cable F - Power cable G - VersaBay III cable Removing Device Brackets 1.



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