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Assembling and disassembling of system unit pdf file pdf free

You might find it easier to access all the parts if you remove both side covers; there are sometimes thumb screws on the covers to make access easier. Plug the network cable into the network port. Plug in all the cables as you insert the component; most items will plug into the motherboard and the power supply unit. 29. CAUTION: When handling a CPU, do not touch the CPU contacts. 24. Lab practice • Identifying different maintenance tools • Assembling and Disassembling a computer Generally, storage drives are held in place by multiple screws. Align the holes in the power supply with the holes in the case 3. 5. Secure the mounting bracket to the case with the appropriate screw. Thermal Compound Thermal compound helps to keep the CPU cool. Connect the 3-pin fan power connector into the appropriate fan header on the motherboard, according to the motherboard manual. 9. Plug the mouse cable into the PS/2 mouse port. If you have a hard drive, be gentle when moving the drive as hard bumps can damage the internal parts. 26. 23. Install RAM RAM provides temporary data storage for the CPU while the computer is operating. Install drives in external bays 7. The power supply may also have a 4-pin or 6-pin Auxiliary (AUX) power connector that connects to the motherboard. Re-attach Side Panels Most computer cases have two panels, one on each side. Install standoffs in the computer case. Do not touch the gold connectors on the chips if you're reusing the modules. If multiple floppy drives are installed, the A: drive will connect to the end connector. If there is a hardware problem, the computer may emit a series of beeps. Uninstall adapter cards 7. Do not touch the gold connectors on the cards if you're reinstalling the cards. To learn how, consult the user manual or manufacturer's website. The BIOS setup program displays information about all of the components in the computer. BIOS Configuration • Technicians use the BIOS information to learn about installed components: • CPU - Manufacturer and speed • RAM - Manufacturer and speed • Hard Drive - Manufacturer, size, and type • Optical Drive - manufacturer and type • Technicians use BIOS to: • Set Time and Date • Disable Devices • Set Boot Order • Adjust Clock Speed • Enable Virtualization 38. Plug the connector at the far end of the FDD cable into the floppy drive. Drives in external bays allow access to the media without opening the case. HDD installation steps: 1. When the computer is booted, the basic input/output system (BIOS) will perform a power-on self test (POST) to check on all of the internal components. FDD installation steps: 1. Some computer case covers have sharp or jagged edges. Install Motherboard 1. Step 8 - Remove motherboard adapter or expansion cards Remove any adapter or expansion cards from the motherboard. Replace the battery and reconfigure the BIOS settings. Work in a logical, methodical manner when working with computer components. Improve computer assembly skills dramatically with practice 4. If you walk across a carpet at any point, touch an unpainted metal part of the computer again to discharge the built up static electricity. Connect Internal Cables Power cables are used to distribute electricity from the power supply to the motherboard and other components. The PATA cable (sometimes called a ribbon cable) is wide and flat and can have either 40 or 80 conductors. 32. 37. Step 7 - Remove power supply unit Remove the power supply unit by unplugging the remaining connectors, then unscrewing the unit from the frame. 5. Press down gently on the video adapter card until the card is fully seated. Disconnect external cables from the computer 4. 3. Open the Case Prepare the workspace before opening the computer case: Adequate lighting Good ventilation Comfortable room temperature Workbench accessible from all sides Avoid cluttering workbench An antistatic mat on the table Small containers to hold screws and other small parts There are different methods for opening cases. Install Adapter Cards Adapter cards are installed to add functionality to a computer. Adapter cards must be compatible with the expansion slot. 1. 10. This is a good time to remove any dust, lint, and pet hair from the fans if you're planning on reusing them. Disconnect all internal cables 6. One end of the cable is connected to the motherboard. Types of data cables are PATA SATA and Floppy disk. The fan moves the heat away from the heat sink. The CPU is secured to the socket on the motherboard with a locking assembly. Attach the monitor cable to the video port. Uninstall drives from external bays 8. Step 2 - Remove side covers Remove at least one of the side covers, usually the right side as you face the front of the computer. Re-attach Panels, Connect External Cables Now that all the internal components have been installed and connected to the motherboard and power supply. The side panels are re-attached to the computer case. Plug the SATA power connector into the HDD. Computer Assembly/Disassembly 2. Uninstall internal drives 9. Plug the motherboard end of the FDD cable into the motherboard socket. 36. The B: drive will connect to the middle connector. 16. Align the video adapter card to the appropriate expansion slot on the motherboard. Line up the heat sink/fan assembly retainers to the holes on the motherboard. You can take pictures before each removal or write it down. Video adapter card installation steps: 1. A special key or combination of keys on the keyboard is used to enter the BIOS setup program. Detach the side panels (open the case) 5. The metal inside the computer case can be sharp, so you might want gloves, as well. 18. Heat Sink/Fan Assembly The Heat Sink/Fan Assembly is a two-part cooling device. NIC installation steps: 1. Some adapter cards: • PCIe x1 NIC • PCI Wireless NIC • PCIe x16 video adapter card 19. CAUTION: Handle case parts with care. A 20-pin connector will work in a motherboard with a 24-pin socket. Insert all of the motherboard screws. Motherboards have one floppy drive controller which provides support for a maximum of two floppy drives. Insert the power supply into the case 2. Identify BSB Codes POST checks to see that all of the hardware in the computer is operating correctly. Align the CPU so that the Connection 1 indicator is lined up with Pin 1 on the CPU socket. A PATA cable usually has three 40-pin connectors. Place the heat sink/fan assembly onto the CPU socket, being careful not to pinch the CPU fan wires. Plug the keyboard cable into the PS/2 keyboard port. You will need a small Phillips-head screwdriver and depending on the manufacturer of your components, possibly a flathead screwdriver. Plug the Molex power connector into the optical drive. 7. Step 5 - Remove the storage Drive Disconnect the cables and remove the storage drive. Once the cover is in place, make sure that it is secured at all screw locations. Secure the optical drive to the case using the proper screws. Step 9 - Remove the motherboard Disconnect all the cables from the motherboard, then unscrew it from the frame by loosening each screw a little bit before going around again to loosen each screw properly. Data cables transmit data between the motherboard and storage devices, such as hard drives. Install only the standoffs that align with the holes in the motherboard. 21. Boot the computer for the first time 3. BIOS Setup Program BIOS settings are configured in the BIOS setup program. 7. If you can't access a particular component when it's listed in the guide, skip to the instructions to remove the other parts until you can reach the original component. Boot Computer for the First Time The BIOS is a set of instructions stored in a nonvolatile memory chip. Install the Video Adapter Card A video adapter card is the interface between a computer and a display monitor. Press down gently on the NIC until the card is seated. 12. Install Keyboard is used to enter the BIOS setup program. Detach the side panels (open the case) 5. The metal inside the computer case can be sharp, so you might want gloves, as well. 18. Heat Sink/Fan Assembly The Heat Sink/Fan Assembly is a two-part cooling device. NIC installation steps: 1. Some adapter cards: • PCIe x1 NIC • PCI Wireless NIC • include: Monitor Keyboard Power Mouse Ethernet USB CAUTION: When attaching cables, never force a connection. Make sure that the side tabs have locked the RAM module and visually check for exposed contacts. If a device is malfunctioning, an error or a beep code alerts the technician that there is a problem. 17. Floppy Drive Cables The floppy drive data cable has a 34-pin connector and it has a stripe to denote the location of pin 1. 13. All the components should now be out of the computer case. Install Floppy Drive A floppy disk drive (FDD) is a storage device that reads and writes information to a floppy disk. Press down gently on the wireless NIC until the card is fully seated. Step 4 - Remove standalone fans Remove any standalone fans. In each case, no more than a small amount of force is needed to remove the part. The next step is to connect the cables for all computer peripherals and the power cable. Plug the connector at the far end of the PATA cable into the optical drive. The Motherboard The motherboard is now ready to install in the computer case. Computer Assembly 1. Align the NIC to the appropriate slot on the motherboard. Uninstall the power supply NB. Each BIOS manufacturer uses different codes to indicate hardware problems. Position the FDD so that it aligns with the 3.5 inch drive bay. The other end is connected to any drive that has a SATA data connector: Insert the FDD into the drive bay so that the FDD screw holes align with the screw holes in the case. 15. NOTE: Plug in the power cable after you have connected all other cables. If you are rebuilding the computer, be sure to document what area you removed components from, the order you removed them, and what cables attach to each part. 30. 25. Connect External Cables 1. This prevents any potential warping of the motherboard by gradually releasing the tension on it. Install Data Cables 1. Connect all internal cables 9. 33. Plastic and metal standoffs are used to mount the motherboard and to prevent it from touching the metal portions of the case. Wireless NIC installation steps: 1. Tighten all of the motherboard screws. Power Connector Installation Steps 1. These are usually screwed into place. Components can be attached to the case with special clips, screws, or by insertion into a holder. Install the Network Supply Power supply installation steps include the following: 1. Install the Network Interface Card (NIC) A NIC enables a computer to connect to a network. Our guide covers the most common ways computers are put together, but computers and manufacturers can vary. Uninstall/detach the components from the motherboard 11. NICs use PCI and PCIe expansion slots on the motherboard. Generally, the process is to unplug all the cords and cables connecting a component to other components, then remove the part from the case or frame. Secure the power supply to the case using the proper screws 6. Follow manufacturer's recommendations about applying the thermal compound. 28. Optical drives and floppy drives store data on removable media. Tighten the heat sink/fan assembly retainers to secure the assembly in place. If you're not reusing the RAM, find out how it can be used in other applications. Place the CPU gently into the socket. A hard disk drive (HDD) is an example of an internal drive. Keep the screws with their relevant component by screwing them back in the holes either on the component or on the frame or by taping them to the correct location. Power off the system 2. 4. 22. Congratulations, you've disassembled, and possibly reassembled your computer! 1. Align the notches on the RAM module to the keys in the slot and press down until the side tabs click into place. Position the HDD so that it aligns with the 3.5-inch drive bay. Consult the motherboard documentation to view beep codes for your computer. Molex Power Connectors are used by hard disk drives and optical drives that do not have SATA power sockets. Secure the NIC PC mounting bracket to the case with the appropriate screw. Connect External Cables After the case panels have been re-attached, connect the external cables to the back of the computer. To install a used CPU, clean the base of the heat sink with isopropyl alcohol to remove the old thermal compound. 34. If you are rebuilding the computer, insert the components in the opposite order you removed them, starting with the motherboard. Uninstall the motherboard 10. Wear a grounding strap or touch an unpainted metal part of the computer to discharge any static electricity. Connect Power Cables Motherboard Power Connections The Advanced Technology Extended (ATX) main power connector has either 20 or 24 pins. Align the screw holes of the motherboard with the standoffs. If you're reusing the case, this is a good time to get rid of all the dust and lint that might have collected. Although these cards usually slide into preconfigured slots, there can be screws. Install the motherboard 5. RAM installation steps: 1. Apply a small amount of thermal compound to the CPU and spread it evenly. Insert the HDD into the drive bay so that the screw holes in the drive line up with the screw holes in the case. 8. Re-attach the side panels 10. Whether you're taking apart your computer to scrap it, install new components, clean it, or just to see how it works, our guide shows you how to take it all apart, then put it back together. Attach the components to the motherboard 4. The heat sink draws heat away from the CPU. Keep careful track of the screws, as well. Secure the cable by tightening the screws on the connector. Plug the 4-pin Berg power connector into the FDD. Attach Components to the Motherboard As part of an upgrade or repair, a technician may need to attach components to the motherboard, and then install the motherboard. Plug the other end of the SATA cable into the HDD. Step 1 - Unplug your computer and peripheral items Turn off the computer, unplug the power cord and unplug any peripheral items attached to the computer, such as the keyboard, mouse, monitor, headphones, and any external drives. The configuration data is saved to a special memory chip called a complementary metal-oxide semiconductor (CMOS). 4-pin Berg Power Connector supplies power to a floppy drive. 6. Install internal drives 6. 11. 31. Computer Disassembly 1. The slave drive will connect to the middle connector. 20. Introduction Computer assembly is a large part of a technician's job. Installing any additional standoffs may prevent the motherboard from being seated properly in the computer case. Steps may vary from computer model to computer model 41. Connect the wireless antenna to the antenna connector. 27. 39. One connector at the end of the cable connects to the motherboard. Typically, a single beep denotes that the computer is functioning properly. Plug the motherboard end of the PATA cable into the motherboard socket. Secure the video adapter card PC mounting bracket to the case with the appropriate screw. Summary Computer Assembly Installation of all computer components Connection of all cables Description of BIOS Description of POST 40. Position the optical drive to align with the 5.25 inch drive bay. Install adapter cards 8. Many motherboards have two PATA cable sockets, which provides support for a maximum of four PATA drives. Refer to the documentation or manufacturer's website if you are unsure about how to remove or replace your computer case. RAM should be installed in the motherboard before the motherboard is placed in the computer case. Close the CPU load plate and secure it by closing the load lever and moving it under the load lever retention tab. 14. SATA Cables The SATA data cable has a 7-pin connector. Connect external cables to the computer 11. Install Optical Drive An optical drive is a storage device that reads and writes information to CDs or DVDs. Optical drive installation steps: 1. 35. Install the power supply 3. If this battery dies, all BIOS setup configuration data will be lost. The other two connectors connect to drives. Connect Power Cables Berg SATA Molex SATA Power Connectors use a 15-pin connector to connect to hard disk drives, optical drives, or any devices that have a SATA power socket. Unplug power cables 3. Open the case 2. An upgraded video adapter card can provide better graphic capabilities for games and graphic programs. Align the wireless NIC to the appropriate expansion slot on the motherboard. CPU on Motherboard The CPU and motherboard are sensitive to electrostatic discharge use a grounded antistatic mat and wear an antistatic wrist strap. Align the I/O connectors on the back of the motherboard with the openings in the back of the case. CAUTION: Do not use a Molex connector and a SATA power connector on the same drive at the same time. BIOS Setup The BIOS contains a setup program used to configure settings for hardware devices. Secure the FDD to the case using the proper screws. Plug the cable into the power supply. Step 3 - Disconnect connectors Disconnect all the connectors, then remove any card readers and internal DVD players. Step 6 - Remove memory (RAM) modules Remove the memory (RAM) modules by pushing the clips on both ends of the module down. Secure the HDD to the case using the proper screws. Plug the additional cables from the case into the appropriate connectors according to the motherboard manual. CMOS is maintained by the battery in the computer. If it's not moving, check for more attachments that are holding the component in place. Install Drives in External Bays Drives, such as optical drives (CD and DVD) and floppy drives, are installed in drive bays that are accessed from the front of the case. PATA Cables Drives connect to the motherboard using data cables. Some wireless NICs are installed externally with a USB connector. 2. Plug one end of the SATA cable into the motherboard socket. Insert the optical drive into the drive bay so that the optical drive screw holes align with the screw holes in the case. This will cause the module to pop up for easy removal. 8. Install the Wireless NIC A wireless NIC enables a computer to connect to a wireless network. The heat sink/fan assembly usually has a 3-pin power connector. If multiple hard drives are installed The master drive will connect to the end connector. Plug the USB cable into a USB port.

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