

ASUS® Prodigy

Book Size Barebone System

User's Guide



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Notices

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING!

The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

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System package contents

This checklist enumerates all the built-in components and all the support materials included with the standard system package.

- 1) System Chassis: 305 x 88 x 385mm.
- 2) ASUS motherboard
- 3) Switching Power Supply, 165W with active PFC
- 4) CD or DVD Drive
- 5) 1.44MB Floppy Disk Drive
- 6) PCI Riser Card
- 7) CPU Heatsink
- 8) Motherboard Support CD
- 9) 1 UltraDMA/33/66 IDE Cable
- 10) 1 Floppy Cable
- 11) Powered-by ASUS name plate
- 12) 56K PCI Modem Card (optional)
- 13) TV Connector Module (optional)
- 14) 2 Foot Stands
- 15) 4 Rubber Footpads
- 16) Motherboard User's Manual
- 17) Prodigy Book Size Barebone System User's Guide

If assembling the Prodigy system by yourself, read through the guide and prepare all the components before starting.

NOTE: The ASUS Prodigy is shipped in barebone style: it does not include a CPU, a hard disk drive, DRAM, or any other peripherals except those listed above. If users have any problems with the hardware or software, please contact your dealer or distributor.

About this guide

Audience

This guide provides general information and installation instructions about the ASUS Prodigy Book Size Barebone System. This guide is intended for experienced users and integrators with hardware knowledge of personal computers.

How this guide is organized

This document contains the following parts:

1. Chapter 1: System Introduction

All about the ASUS Prodigy Book Size Barebone System: the front and rear panel features, and the internal layout and design.

2. Chapter 2: System assembly

Step-by-step instructions on how to install basic components.

3. Chapter 3: Optional procedures

How to install optional components.

4. Chapter 4: System placement

Two system placement options help to maximize work space and afford more convenience.

Chapter 1

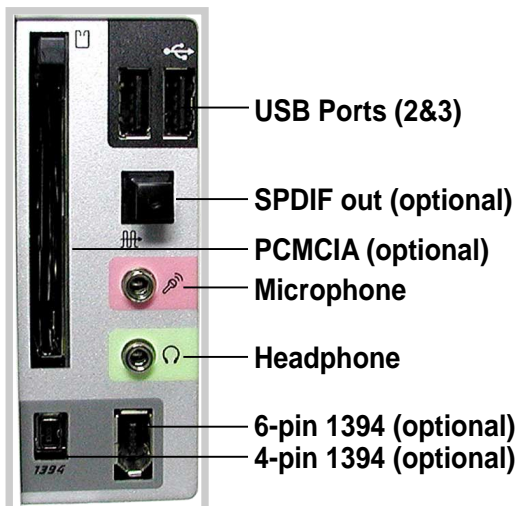
All about the ASUS Prodigy Book Size Barebone System: the front and rear panel features, and the internal layout and design.

System Introduction

1.1 Front Panel Features

The ASUS Prodigy Book Size Barebone System includes the ASUS motherboard, a power supply, a CD-ROM or DVD drive and a floppy disk drive built into in a dual-positional chassis.

The front panel features:



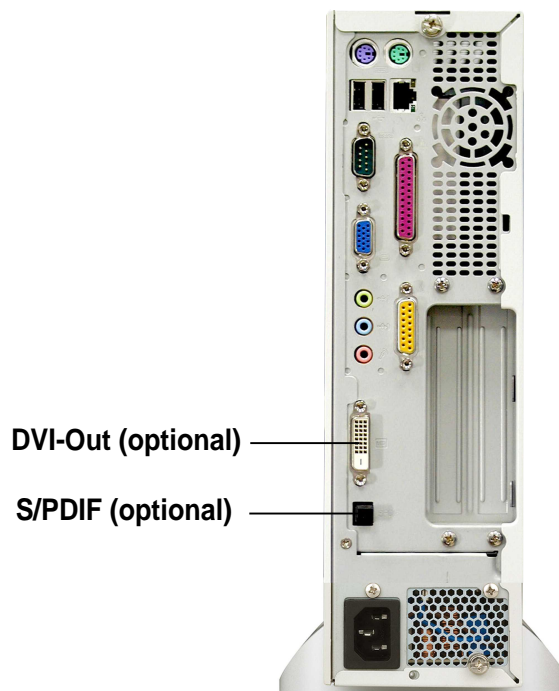
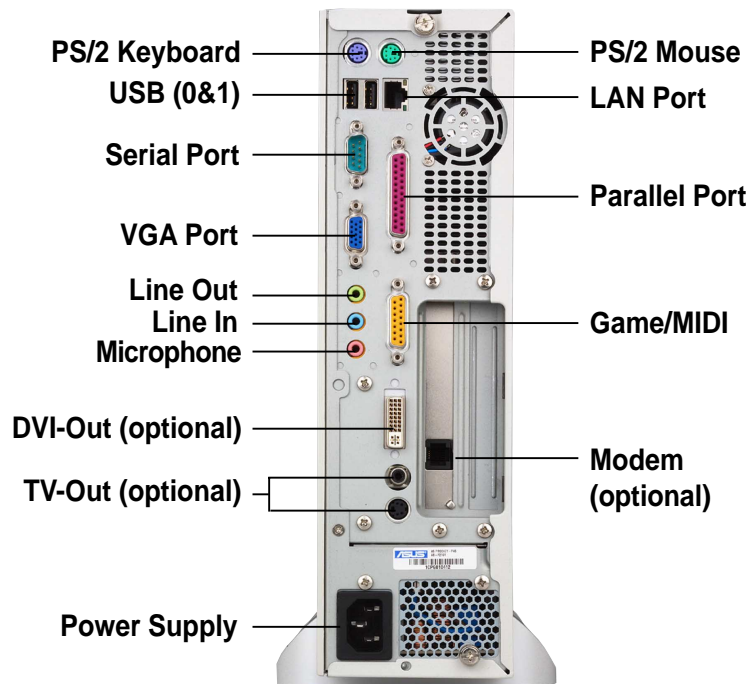
On the lower right of the front panel a small door conceals *Input* and *Output* features: a fiber optical SPDIF out connector, two USB connectors (Ports 2&3), headphone and microphone connectors. Optional connectors include: a 4 or 6 pin 1394 and a PCMCIA slot.

Pull the door to open it.

1.2 Rear Panel Features

The rear panel of the ASUS Prodigy Book Size Barebone System includes the standard PC99 I/O connectors for external devices, power supply socket, and optional feature connectors.

The rear panel features:

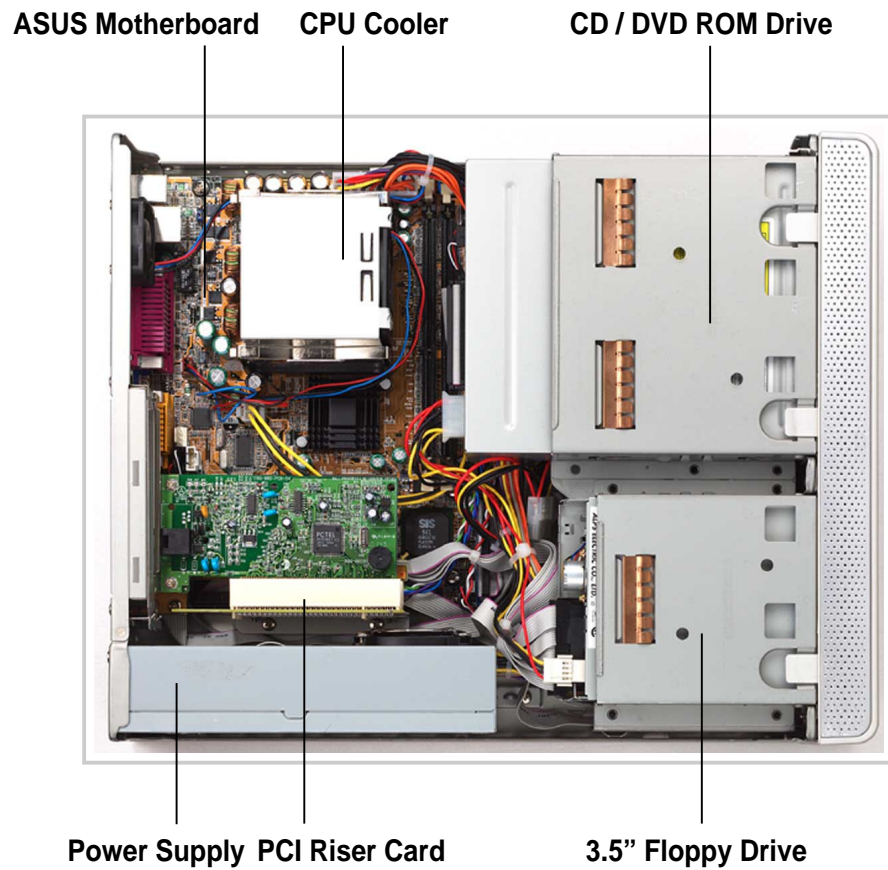


NOTE

The rear panel optional features may vary as shown in the above pictures.

1.3 Internal Features

The figure below shows the system from above. The standard components are already installed.



Chapter 2

Step-by-step instructions on how to install basic components.

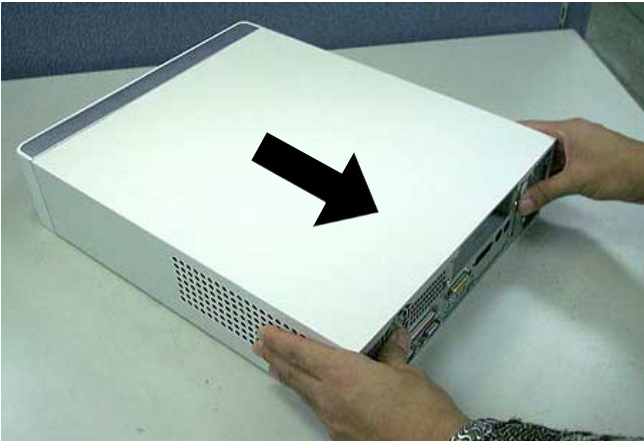
IMPORTANT: ASUS has designed the Prodigy to accept an ASUS “Flex ATX” motherboard with dimensions between 19.1 x 22.9 cm, (or 7.5 x 9 inches). It is not advisable to install other boards. Before installing any motherboard other than the original supplied by ASUS, make sure that it fits into the case and the I/O connectors correspond to the openings on the back panel.

System Assembly

2.1 Opening the chassis



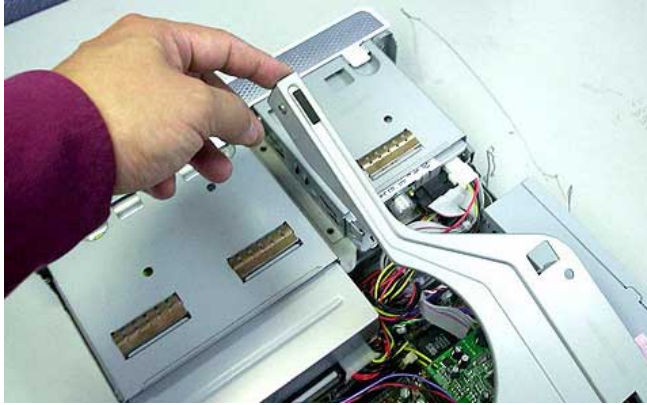
1. Remove the two screws on each end of the back panel. This frees the the top cover from the chassis.



2. Seperate the case and top cover: use your thumbs to pull it off, from the front to the back, then lift it off the chassis.



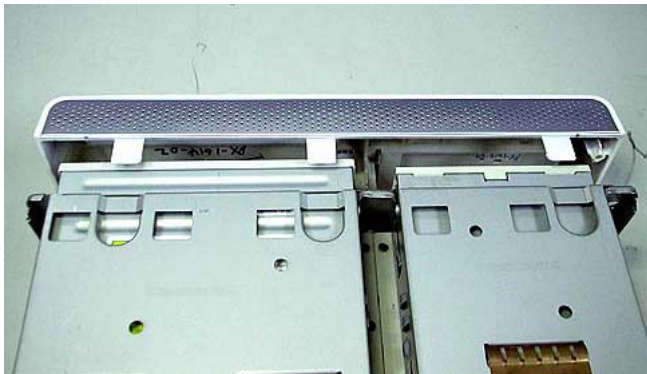
3. Open the case, lifting the top cover.



4. Lift the link-up bar to gain access to the components.



5. Gently detach the three front bezel hooks from the case front so that it may be removed.



6. Remove the front bezel and set it aside.

2.2 Remove the disk drive assembly



1. Press your right thumb firmly down on the right edge of the chassis while gripping your fingers under both sides of the CD and floppy disk drive assembly. It will come loose. Firmly lift the assembly up and out.



2. Lift out the CD/floppy drive module.



3. Slide the hard disk drive cage from right to left and lift it up to install a hard disk.

2.3 Install the hard disk drive



1. Carefully slip the hard disk drive into the cage. Ensure that the four screw holes are properly aligned. Tighten in the screws.



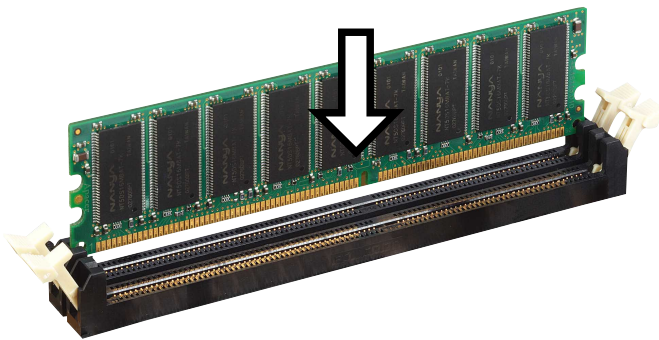
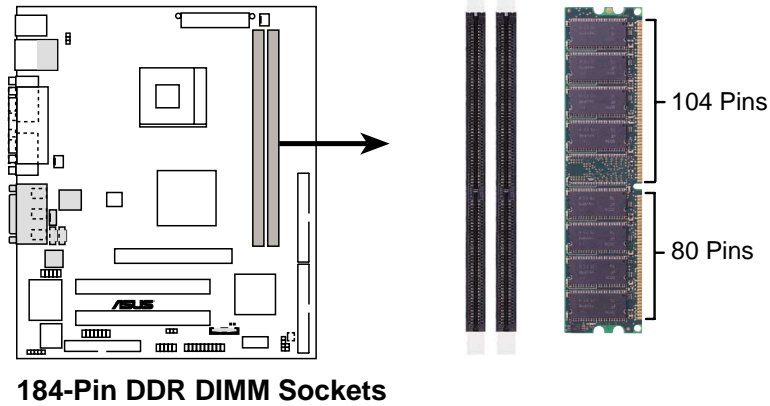
2. Slide the hard drive cage back into its original place. Connect the IDE cable to the primary IDE connector on the hard disk drive. Locate the P3 power cable and connect it to the hard disk drive.

IDE Cable
(Red strip to Pin 1)

Power Cable (P3)

2.4 Install system memory

1. Set the CD and floppy disk drive assembly on the side of the chassis.
2. Locate the two DDR SDRAM DIMM sockets on the ASUS motherboard.



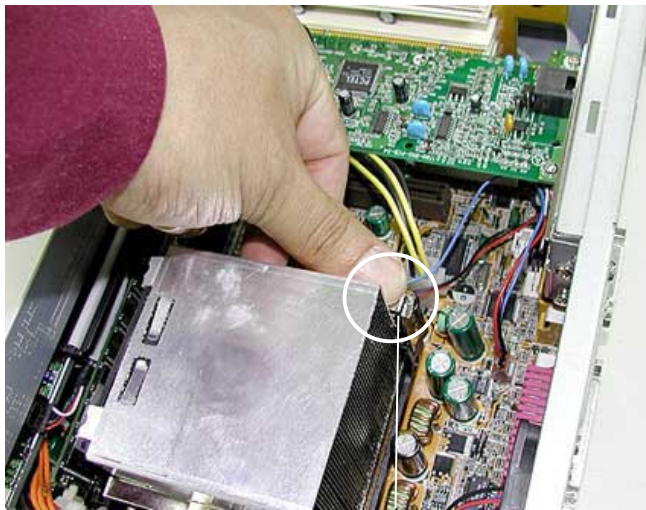
CAUTION

A DDR DIMM is keyed with a notch so that it fits in only one direction. DO NOT force a DIMM into a socket to avoid damaging the DIMM.

3. Unlock a DIMM socket by pressing the retaining clips outward.
4. Align a DIMM on the socket such that the notch on the DIMM matches the break on the socket.
5. Firmly insert the DIMM into the socket until the retaining clips snap back in place and the DIMM is properly seated.
6. After installing the DIMM, place the CD and floppy drive assembly back into its original position. Then, replace the front bezel; take care to insert the three plastic tabs without stress.



2.5 Install a CPU



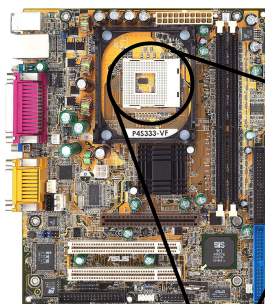
Metal retaining clip

1. To install the CPU, it is necessary to remove the pre-installed heatsink assembly.
2. Press down and unhook the metal retaining clips on both sides of the metal heatsink.

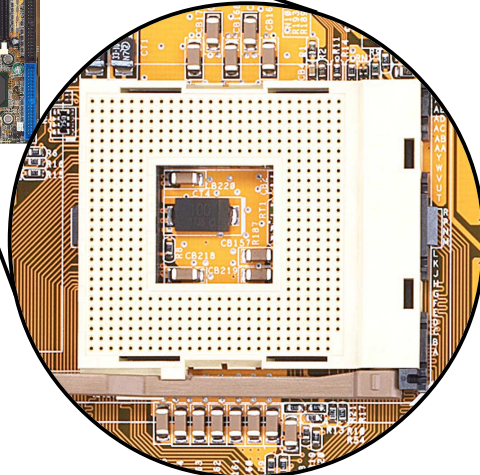


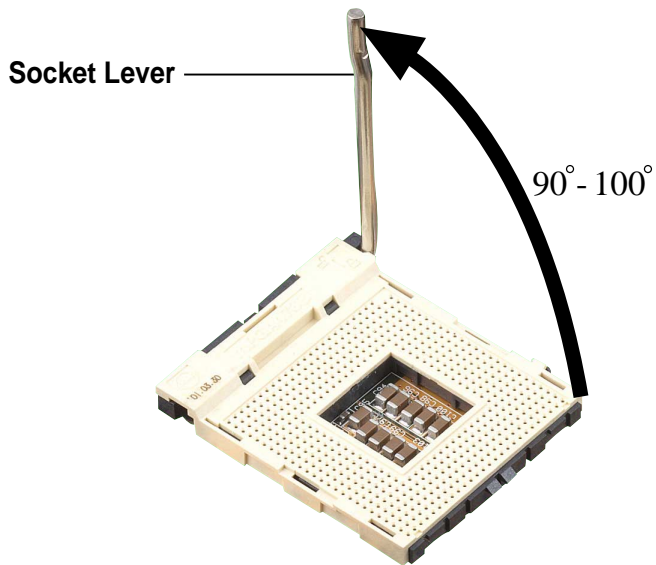
3. Disconnect the CPU fan power cable if it is too short.
4. Lift the heatsink assembly up and out.

CPU Fan power cable



5. Locate the CPU Socket 478 on the motherboard.

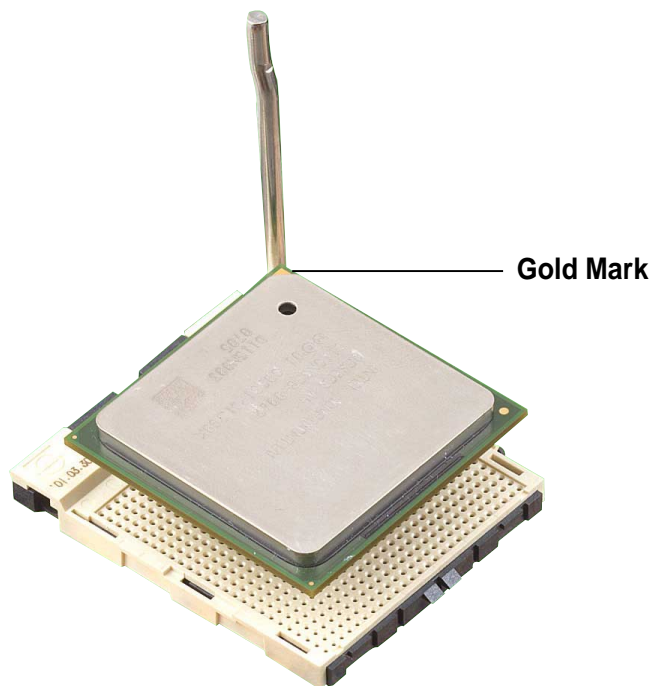




6. Unlock the socket by pressing the socket lever sideways, then lift it up to a 90°-100° angle.

NOTE

Make sure that the socket lever is lifted up to 90°-100° angle, otherwise the CPU does not fit in completely.



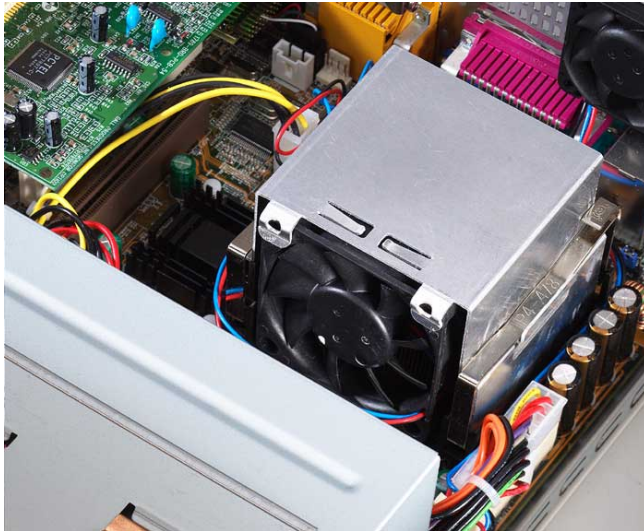
7. Position the CPU above the socket such that its marked corner matches the base of the socket lever.
8. Carefully insert the CPU into the socket until it fits in place.

CAUTION

The CPU fits only in one correct orientation. DO NOT force the CPU into the socket to prevent bending the pins and damaging the CPU!

9. When the CPU is in place, press it firmly on the socket while you push down the socket lever to secure the CPU. The lever clicks on the side tab to indicate that it is locked.

2.6 Closing the chassis



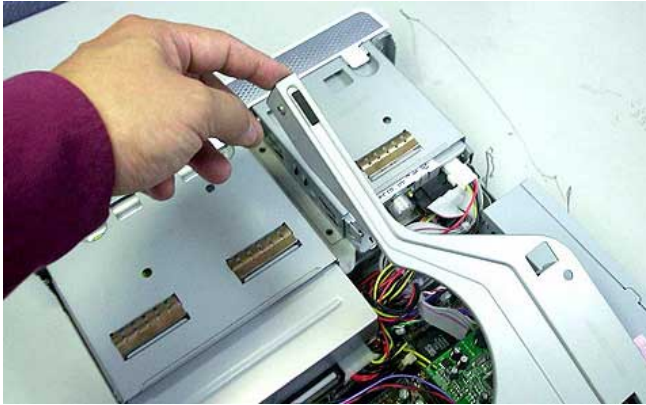
1. Replace the heatsink assembly. Ensure that the black fan faces towards the front of the unit.



2. Re-attach the CPU fan power cable.
3. Re-attach the metal retaining clips: hook on one side then press the spring retainer down on the other until it clicks into the slot.



4. Replace the front bezel.



5. Lower the link-up bar and snap it gently into place.



6. Replace the top cover. To make sure the inner tabs slide into place properly, lay the cover down flush on top of the chassis about one centimeter behind the edge of the front bezel. Then, slide the cover forward while pressing in on the lower edges of the cover to engage the inner tabs.

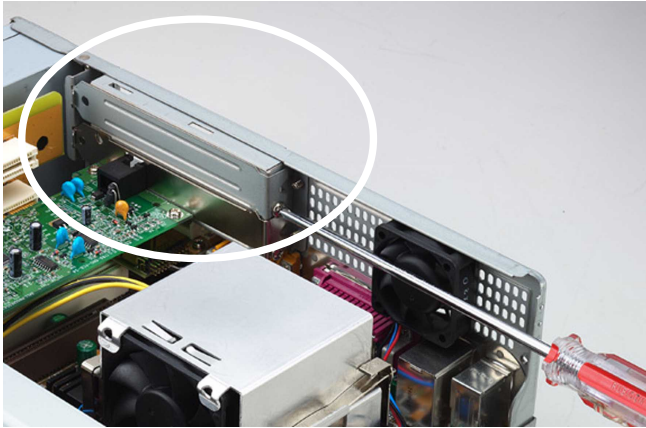
Chapter 3

How to install optional components.

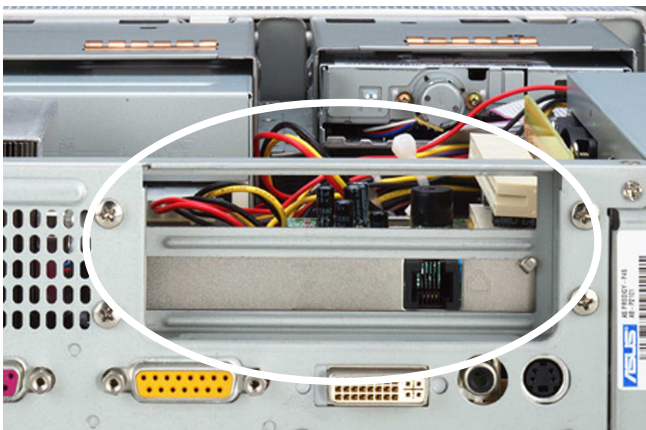
Optional Procedures

3.1 Removing the PCI I/O cover

The Prodigy chassis accommodates two PCI expansion card through a PCI riser card. Before installing a new PCI card, it is necessary to detach the I/O cover.

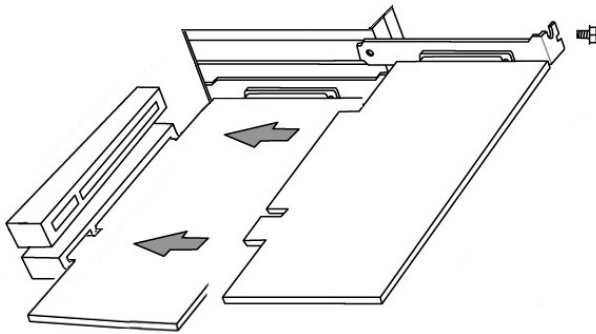


1. To remove the I/O cover from the chassis, unfasten the screw with a Philips (cross) screwdriver.

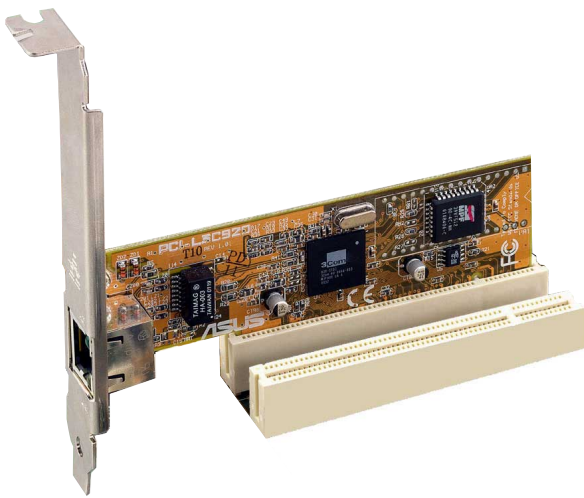


2. After removing the I/O cover, the back panel exposes the external I/O port to permit external access for component connections, like a VGA card connector.

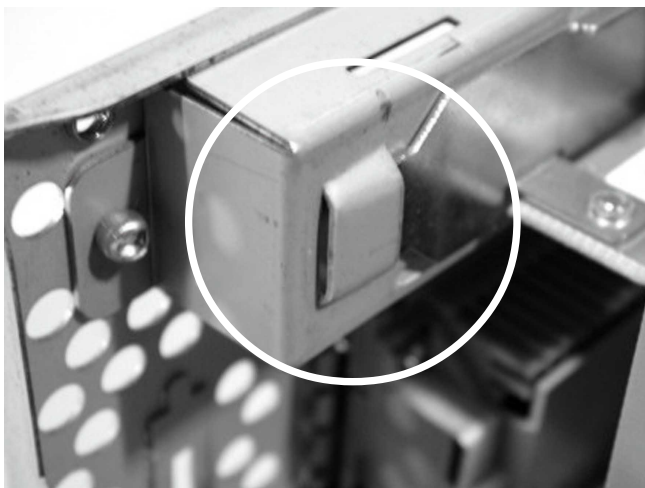
3.2 Installing a PCI expansion card



1. A PCI card is precisely sized for for easy alignment with both the onboard notches and the external I/O port.



2. Align and firmly plug the PCI card into the slot.



3. For card stability, make sure that the card bracket end goes into the cleft on the slot frame.

Chapter 4

Two system placement options help to maximize work space and afford more convenience.

System Placement

4.1 Vertical placement

Normally, the Prodigy Book Size Barebone System is placed upright on the desk. If you desire to position the system this way, fit the two foot stands on the bottom of the system chassis. A "Powered by ASUS" nameplate is supplied, too.



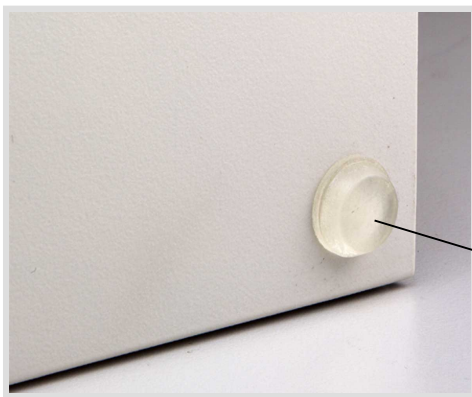
Position the foot stands beneath the chassis.



The "Powered by ASUS" nameplate can be placed on the I/O panel door. The nameplate snaps onto the chassis in both placement positions.

4.2 Horizontal placement

The Prodigy may also be set-up in a horizontal position. The Prodigy is supplied with four rubber footpads to protect the chassis and the surface below.



If you wish to place the system in the horizontal position, attach the four rubber footpads to the bottom of the chassis.

Rubber footpad

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