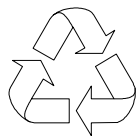


# **IDM Housing Installation Guide**



Recycled Paper



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## **IMPORTANT SAFETY INSTRUCTIONS**

1. Read these instructions carefully. Save these instructions for future reference.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. This product is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
9. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.

- 
10. If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed 15 amperes.
  11. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
  12. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
  13. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    - a. When the power cord or plug is damaged or frayed
    - b. If liquid has been spilled into the product
    - c. If the product has been exposed to rain or water
    - d. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.
    - e. If the product has been dropped or the cabinet has been damaged
    - f. If the product exhibits a distinct change in performance, indicating a need for service
  14. Replace battery with the same type as the product's battery we recommend. Use of another battery may present a risk of fire or explosion. Refer battery replacement to a qualified serviceman.
  15. Warning! Battery may explode if not handled properly. Do not recharge, disassemble or dispose of in fire. Keep away from children and dispose of used battery promptly.

- 
16. Use only the proper type of power supply cord set (provided in your keyboard/manual accessories box) for this unit. It should be a detachable type: UL listed/CSA certified, type SVT/SJT, rated 6A 125V minimum, VDE approved or its equivalent. Maximum length is 15 feet (4.6 meters).

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## **FCC Class B Radio Frequency Interference Statement**

### **Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 the 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:

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

### **Notice 1:**

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **Notice 2:**

Shielded interface cables, if any, must be used in order to comply with the emission limits.

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## About this Manual

### Purpose

This manual aims to give you all the information you need to install the system housing.

### Conventions

The following conventions are used in this manual:



#### **NOTE**

Gives bits and pieces of additional information related to the current topic.



#### **CAUTION**

Suggests precautionary measures to avoid potential hardware or software problems.





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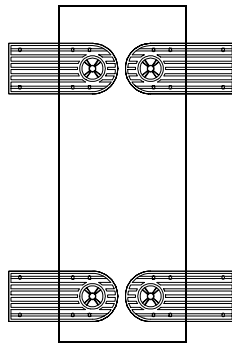
## 1 Introduction

This installation guide describes the features of the IDM housing and tells you how to install the basic system components such as disk drives, a system board, or expansion boards. Descriptive illustrations accompany the installation procedures.



*If you receive a complete system, the basic components are already installed.*

## 2 Standalone System

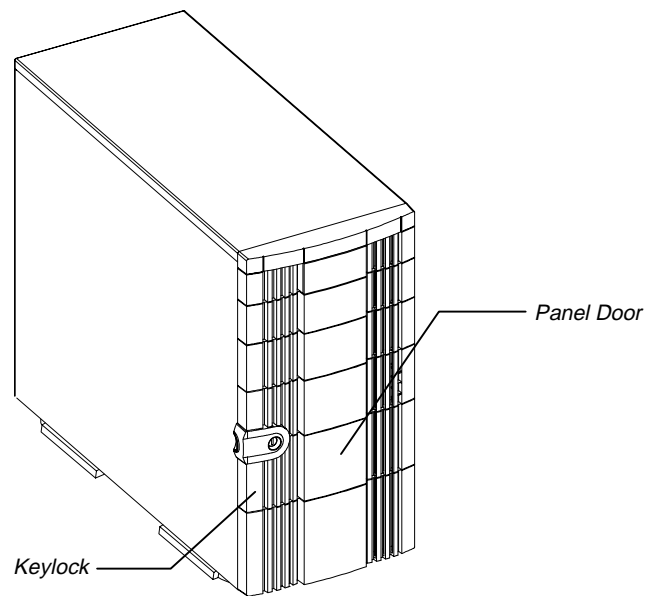


For a standalone system, rotate the feet outward to stabilize the housing.

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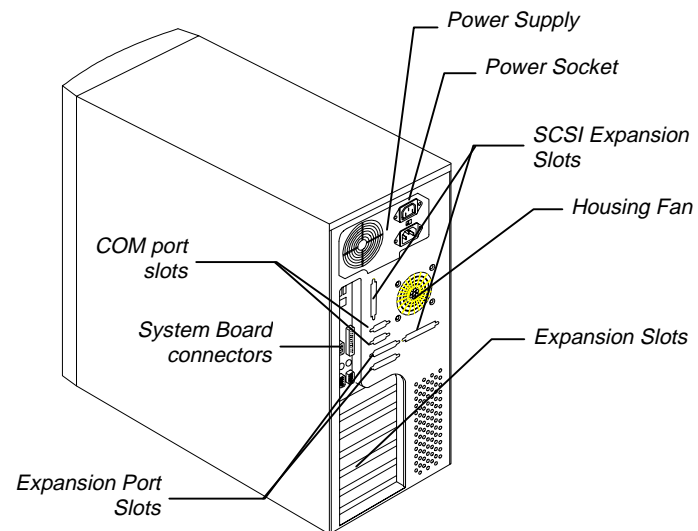
## 3 Features

### 3.1 Front Panel



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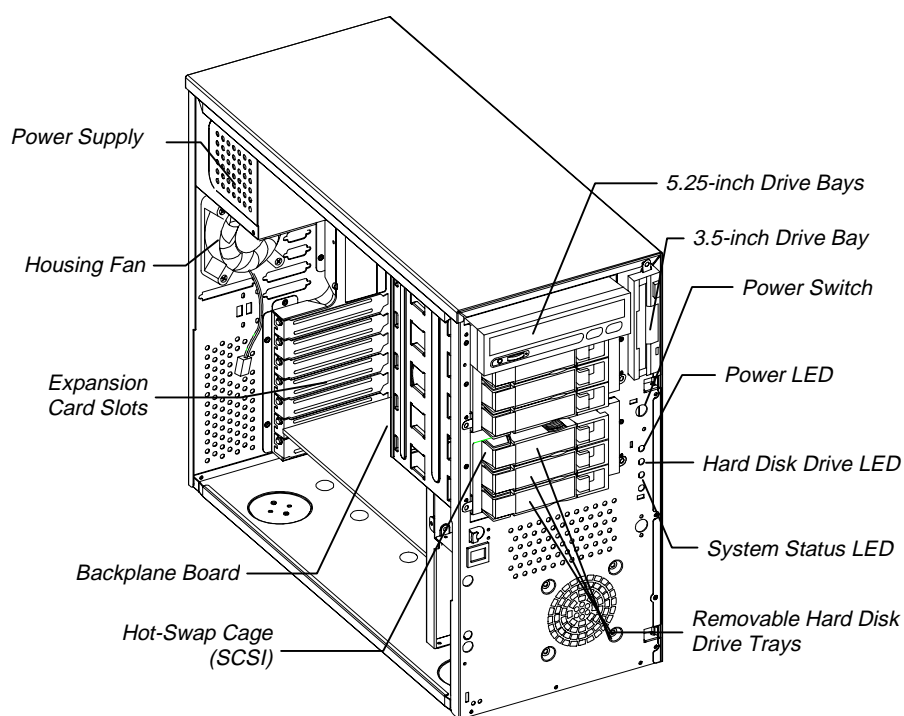
## 3.2 Rear Panel



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### 3.3 Internal Structure

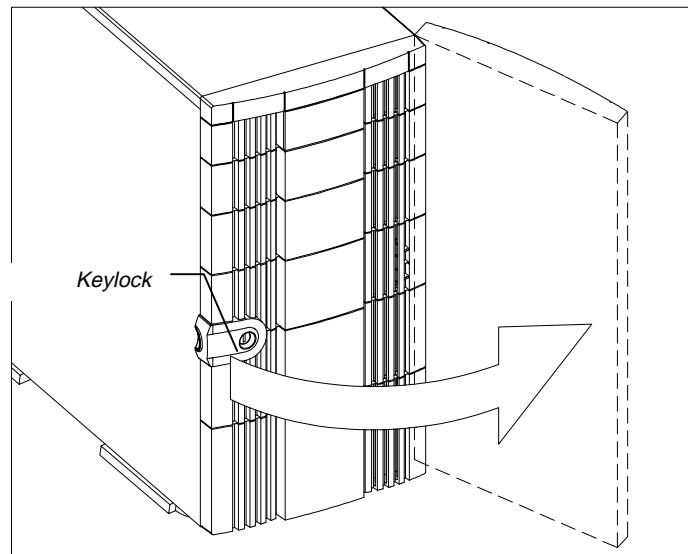
The figure below shows the housing internal structure and some of the basic system components.



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## 4 Opening the Housing Panels

### 4.1 Front Panel



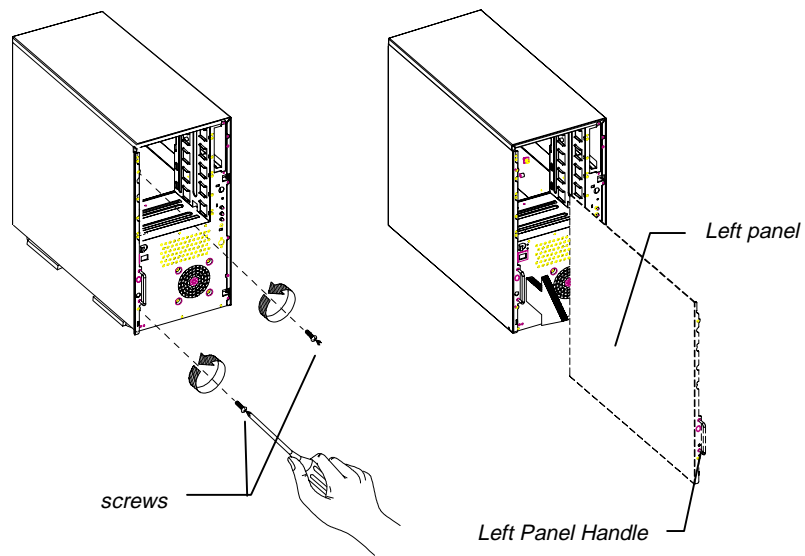
Unlock the housing with the key and then pull the panel to access the drive trays.

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## 4.2 Left Panel

To remove the left panel:

1. Use a screw driver to remove the two screws securing it to the rear panel.
2. Pull the panel handle to slide the left panel open.



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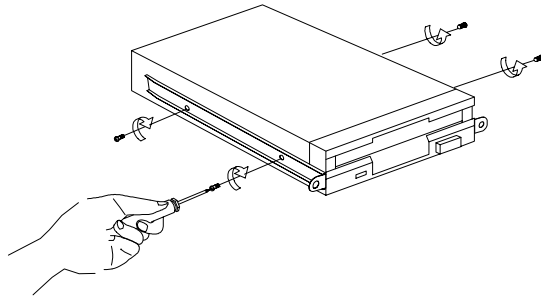
## 5 Installing Disk Drives and Hot-Swap Cage



*Turn off the power switch and unplug the power cord before installing or removing diskette drives.*

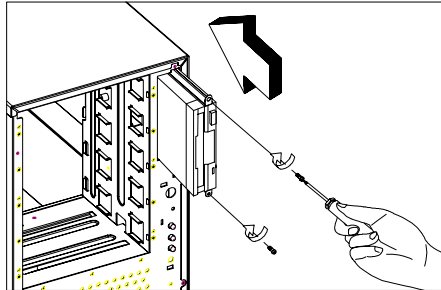
### 5.1 3.5-inch Drive

1. Open the front panel and remove the left panel of the housing. See section 4 for more information on opening the housing panels.
2. Remove the screws attaching the 3.5-inch drive frame (2 pieces) to the housing.
3. Secure a 3.5-inch drive on the drive frame with four screws as shown below.





- 
4. Insert the drive into the drive bay and secure it with two screws.

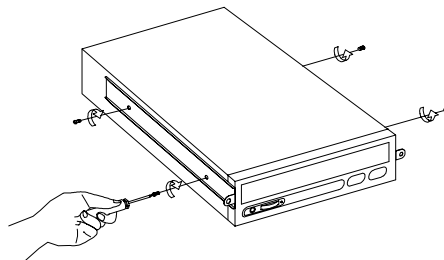


5. Connect the diskette drive cables.

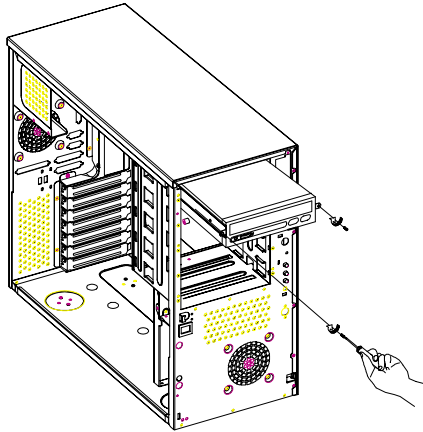
## 5.2 5.25-inch Drives

You may install a CD-ROM, digital audio tape (DAT), hard disk, diskette drive or any other 5.25-inch device into the drive bay.

1. Open the front panel. See section 5 for more information on opening the housing panel.
2. Remove the screws attaching the 5.25-inch drive frame (2 pieces) to the housing.
3. Attach the drive guides on the sides of a 5.25-inch drive with two screws on each side.



- 
4. Insert the drive into the drive bay and secure it with two screws.



5. Connect the signal and power cables to the drive.

### 5.3 Hot-Swap Cage

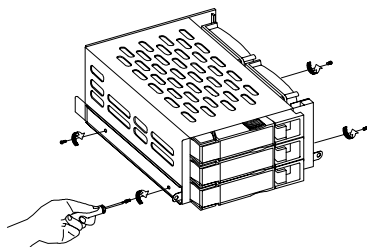
The hot-swap cage box includes the following components:

- One hot-swap cage (with back plane board attached)
- Three hard disk drive tray
- One system board connector cable
- Two Hard disk drive fault LED connector cable

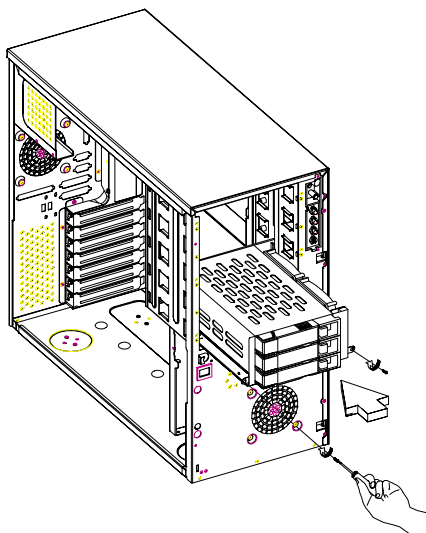
To install the hot-swap cage into the housing:

1. Open the front panel and remove the left panel of the housing. See section 4 for more information on opening the housing panels.

- 
2. Attach the drive guides on the sides of the hot-swap cage with two screws on each side.

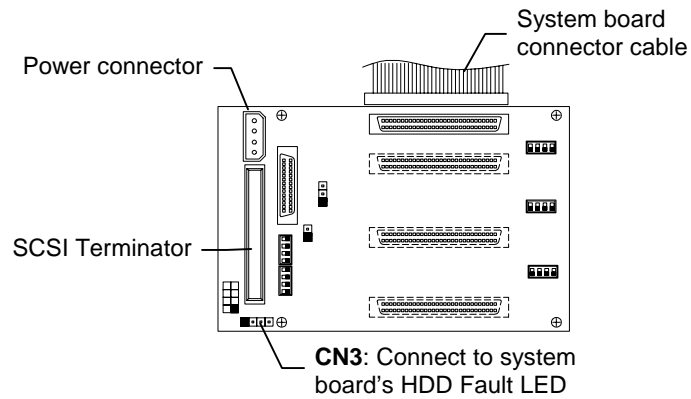


3. Insert the hot-swap cage into the housing and secure the hot-swap cage with two screws.



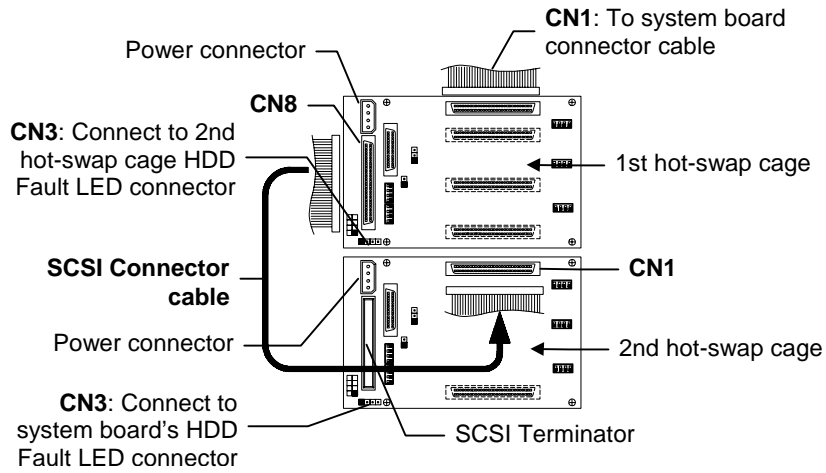
- 
4. Attach the power cable, the SCSI terminator, the HDD fault LED cable, and the system board connector cable to the backplane board and attach the other end of the connector cable to the system board. For the location of the SCSI connector, please refer to the system board manual.

#### Single Hot-swap Cage Configuration



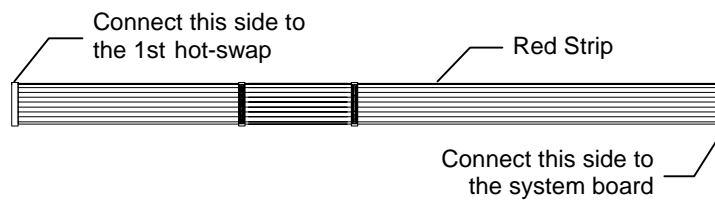
*There are two kinds of HDD Fault LED cable supplied. The cable with two 4-pin connector should be use with AcerAltos 1100 and AcerAltos 11000 systems. The other cable with AcerPro Station 7000.*

### Cascading Hot-swap Cage Configuration



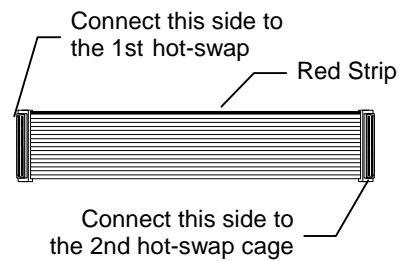
*The SCSI connector cable and the three-connector HDD fault LED cable is an optional item needed for installing two hot-swap cages. Consult your dealer for the availability of this cable.*

### System Board Connector Cable



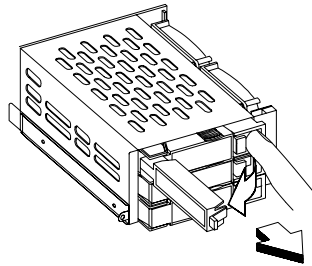
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### SCSI Connector Cable

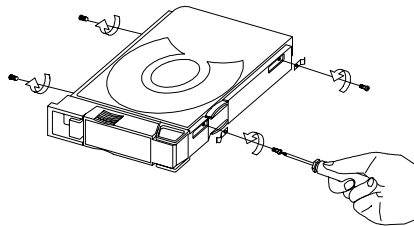


## 5.4 Hard Disk Drive Tray

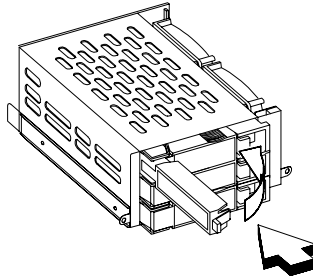
1. Use your finger to release the drive tray as shown below and then pull it out.



2. Place a hard disk on the tray. Secure it with four screws and four metal support braces as shown below.

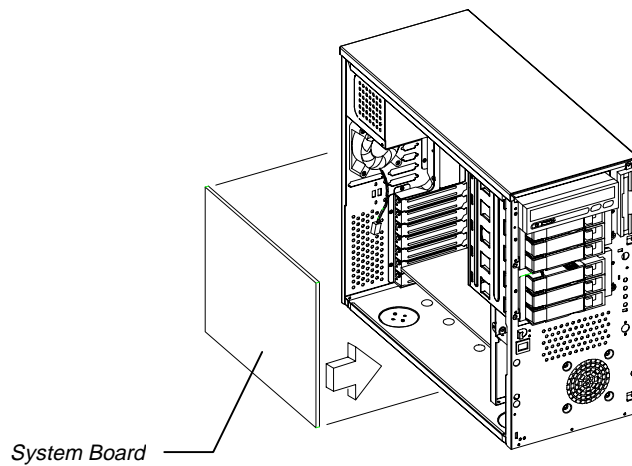


- 
4. Insert the tray into the hot-swap cage and then close the lever as shown below.



## 6 Installing a System Board

The housing accommodates various system board sizes. You can rearrange the pegs on the system board plate to fit the board that you wish to install.

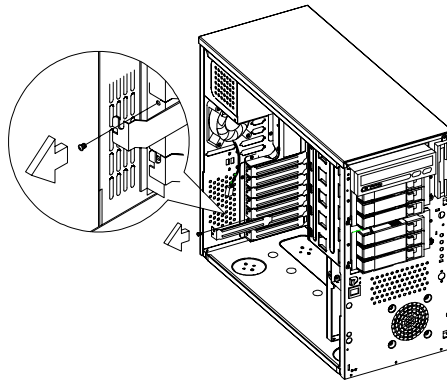


Align the system board holes to the pegs with the external ports facing the rear of the housing. Secure the board with eight screws.

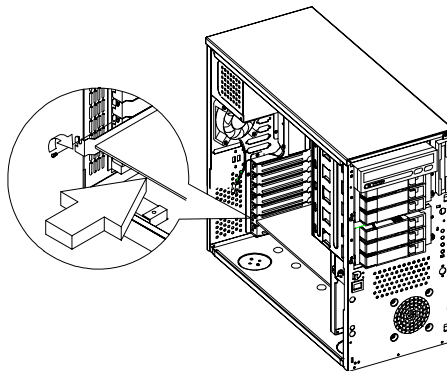
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## 7 Installing an Expansion Board

1. Remove an expansion slot bracket cover. Save the screw to secure the expansion board.



2. Align an expansion board with the open slot and insert the golden fingers into the expansion bus connector.
3. Secure the board with the screw.





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## 8 Installing a CPU or Memory Board

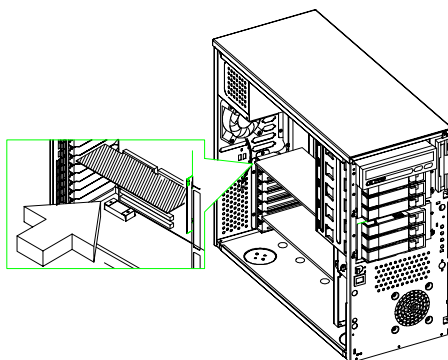
Follow these steps to install a CPU or memory board if your system board does not include them.

1. Remove a bracket opposite the CPU or memory board slot.
2. Insert the board into the slot.



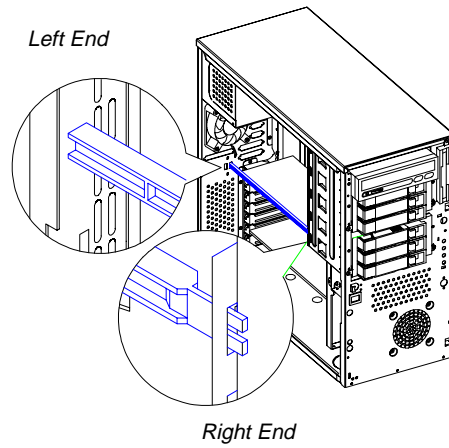
*Make sure that the board is properly seated in the slot.*

3. Secure the board with a screw.



4. Align the plastic support bar with the board edge.

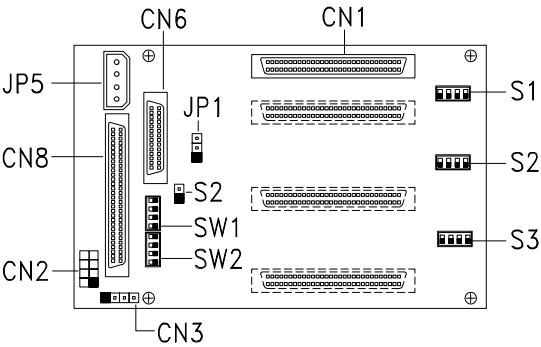
- 
5. Insert the right end of the bar into the hole near the hard disk drive frame and the left end into the hole on the rear panel.



# 9 LVD SCSI Backplane Board

The LVD SCSI hot-swap cage includes a hot plug SCA single-ended backplane, LED board, and the hard drive cage itself. It supports three 1-inch SCA-II SCSI hard drives in one channel with active terminator built-in. The SCA II connector design allows for the addition and removal of SCSI drives without shutting down the system.

## 9.1 Jumpers and Connectors



Jumper	Setting	Function
JP1	1-2	<b>I<sup>2</sup>C Buffer ID</b> 21h 23h
	2-3	
JP4	Short	<b>Terminator Power Source</b> Both from Backplane and Host Only from Host
	Open	

Connector	Description
CN1	SCSI 68-pin P connector - In
CN2	Front power LED connector
CN3	I <sup>2</sup> C Buffer connector
CN5	Slot 1

---

Connector	Description
CN7	Slot 2
CN8	SCSI 68-pin connector - Out
CN9	Slot 3
JP5	Power connector
S1	Slot 1 ID switch
S2	Slot 2 ID switch
S3	Slot 3 ID switch