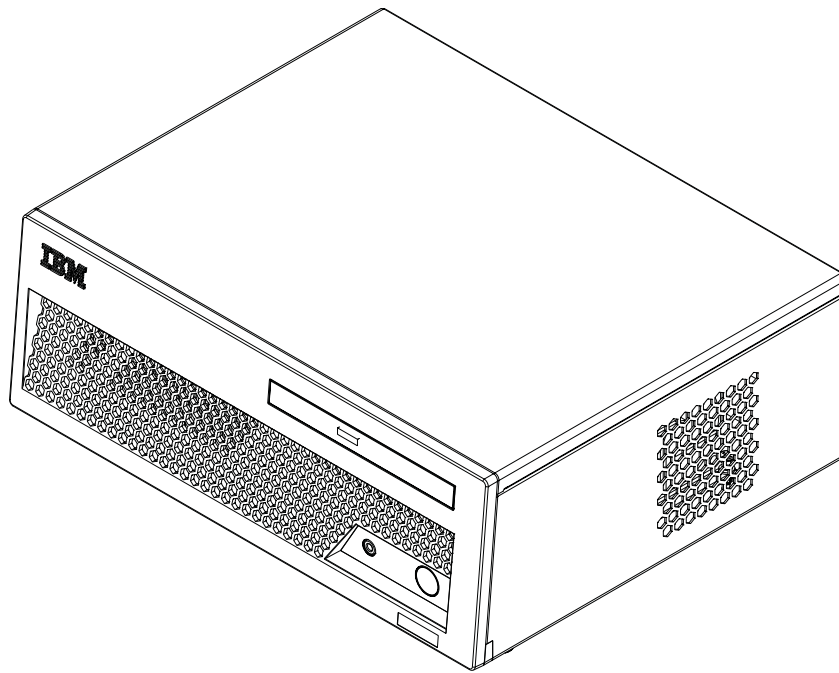


SurePOS 300



Installation and Service Guide for 4810 Model 330



SurePOS 300



Installation and Service Guide for 4810 Model 330

Note

Before using this information and the products it supports, be sure to read the safety information booklet (GA27-4004) and the general information under Appendix A, "Notices," on page A-1.

First Edition (July 2005)

This edition applies to Model 330 of the IBM 4810 Point of Sale terminal. This publication is available on the IBM Retail Stores Solutions Web site.

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About this guide

This guide provides product planning information, replacement and removal procedures, problem determination and parts listings of field-replaceable-units (FRUs) for Model 330 of the IBM SurePOS 300 (also referred to as the *4810*). Within this guide, the terms *4810* or *Model 330* refer to models 330 and 33H (and other similar models) of the the IBM SurePOS 300.

The chapters are organized as follows:

- Chapter 1, "Introduction," on page 1-1 provides an overview of the 4810 Model 330.
- Chapter 2, "Remove/replace procedures for the 4810 SurePOS 300," on page 2-1 describes the procedures for removing parts from the 4810.
- Chapter 3, "Problem determination," on page 3-1 describes the procedures for resolving problems.
- Chapter 4, "Parts catalog," on page 4-1 provides information about the field-replaceable units (FRUs) for the product.

Who should read this manual

This manual is intended for use by experienced personnel responsible for installing and maintaining Model 330 of the IBM 4810 SurePOS 300.

Related publications, drivers, and service packages

The following IBM publication is available from the IBM Retail Store Solutions Web site at <http://www.ibm.com/solutions/retail/store>. Select **Support**, then select **Publications**.

- *IBM 4810 SurePOS 300 Technical Reference*

Model 330 of the IBM 4810 SurePOS 300 requires UPOS drivers at level 1.7.5 or higher. IBM drivers are available from the IBM Retail Store Solutions Web site at <http://www.ibm.com/solutions/retail/store>. Select **Support**, then select the link under Peripheral Drivers to access these drivers:

- OLE for POS (OPOS)
- JavaPOS
- POSS for Linux

Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use the 4810 SurePOS 300 successfully. This is a high-level list of the accessibility features:

- All controls are located on the front of the machine, in easy reach.
- Industry-standard serial and USB ports allow alternative I/O devices.
- Manuals are available in PDF format and can be downloaded from the Web. See "Related publications, drivers, and service packages" for the Web address.
- Displays can be driven at 60 Hz to eliminate problems caused by screen flicker.

End of life disposal

This unit must be recycled or discarded according to applicable local and national regulations. IBM encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. IBM offers a variety of product return programs and services in several countries to assist equipment owners in recycling their IT products. Information on IBM product recycling offerings can be found on IBM's Internet site at <http://www.ibm.com/ibm/environment/products/prp.shtml>.



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- Print and complete the form at the end of this document. Return the form to IBM by mail or by giving it to an IBM representative.

If applicable, include a reference to the specific location of the text (for example, the page or table number) on which you are commenting.

Update 4/18/2007

Between major revisions of this document, there might be minor technical updates. The latest version of this document is available on the Retail Store Solutions Web site at www.ibm.com/solutions/retail/store/support/publications/.

Update 4/18/2007

Summary of changes

Part numbers have been updated.

Chapter 1. Introduction

This chapter describes the characteristics of the 33x models of the IBM 4810 SurePOS 300.

Product summary

The 4810 consists of a personal computer (PC) core with expansion slots and I/O ports. Designed specifically for distributed environments, the 4810 can be mounted under a check stand or counter.

Features

Table 1-1 describes the features of Model 330 of the 4810 SurePOS 300.

Table 1-1. Summary of features

Type of feature	Model 330 characteristic
CPU	Intel 2.0 GHz Celeron
Core chip set	Intel 845GV + ICH4
I/O ports	<ul style="list-style-type: none"> • One parallel printer port • Six RS-232 ports: <ul style="list-style-type: none"> – Two standard – Four powered • Five USB ports: <ul style="list-style-type: none"> – Two PC-type – Two +12V powered – One +24V powered • Keyboard and mouse ports
Memory	<ul style="list-style-type: none"> • Two DIMM slots for 266 / 333 MHz DDR RAM • 256 MB standard, expandable to 2 GB
Video	AGP, integrated in chip set
LAN	<ul style="list-style-type: none"> • 10/100 Ethernet chip capable of supporting both 10BASE-T or 100BASE-TX full- or half-duplex Ethernet • PXE 2.0 support • Intel LAN ICH4/82562
Slots	One PCI feature card slot (maximum length 200 mm)
Clock	Nonvolatile real-time clock
Keyboard/ mouse	IBM PS/2® or equivalent keyboard
Hard disk drive (HDD)	Optional 3.5-inch SATA
Floppy diskette drive	External, via USB
Cash drawer port	One standard IBM 24V-compatible
Audio	AC97-compatible audio with microphone in, line in and headphone out
CD-ROM	Internal as an option (IDE); external via USB

Table 1-2 lists the standard features shipped with each model.

Table 1-2. Models and features

Model	Base-unit standard feature
4810-330	Base model, no media

Table 1-2. Models and features (continued)

Model	Base-unit standard feature
4810-33H	40 GB HDD

Other similar models of the 4810 exist. Refer to the sales pages on the Retail Store Solutions Web site for details of each model.

Physical dimensions

Figure 1-1 shows the dimensions of the product.

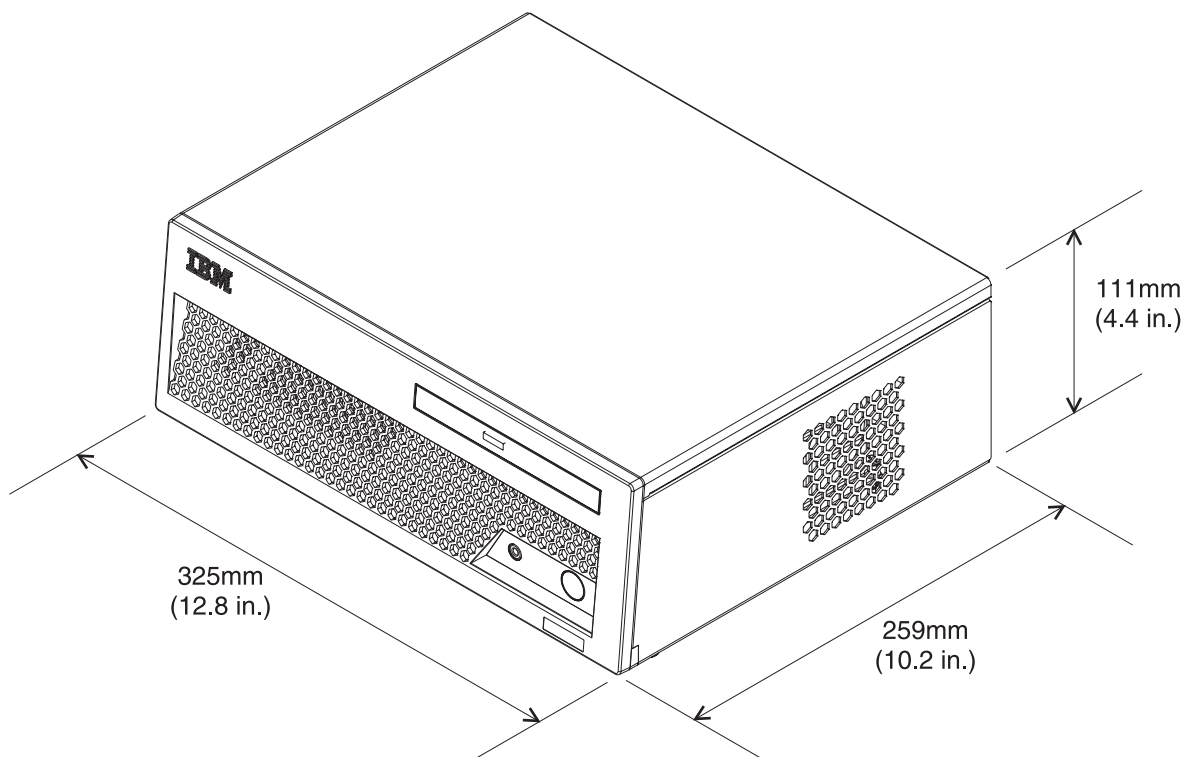


Figure 1-1. Dimensions of the 4810 SurePOS 300

- Width: 325 mm (12.8 in.)
- Depth: 259 mm (10.2 in.)
- Height: 111 mm (4.4in.)
- Weight: 6.9 kg (15.1 lb.)

Power and cooling

- Input voltage: 100 - 127 V or 200 - 240 V ac, auto-sensing
- Frequency: 50 - 60 Hz (\pm 3 Hz)
- Power consumption: 250 W maximum; 60 W typical

A fan contained in the power supply provides forced air cooling. All vents on the 4810 must have two inches of clearance.

Environmental considerations

These are the temperature and humidity requirements:

- Operating: +10°C to 40°C (50° to 104°F) with 8% to 80% relative humidity

- Shipping: -40°C to $+60^{\circ}\text{C}$ (-40° to 140° F), which includes condensation but not rain.
- Storage: 0°C to $+60^{\circ}\text{C}$ (32° to 140° F)

The 4810 SurePOS 300 meets applicable worldwide Electromagnetic Compatibility (EMC) standards. Refer to Appendix A, "Notices," on page A-1 for a complete description.

Front view

Figure 1-2 shows the indicators on the front cover of the 4810.

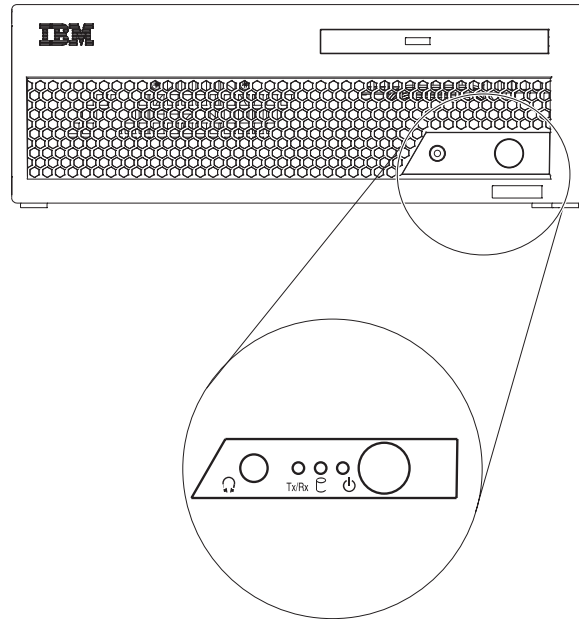


Figure 1-2. Front view of 4810

These are the descriptions of the indicators on the front cover:

Tx/Rx

This LED blinks during receive/send of data.



This LED indicates HDD activity.



This LED indicates that the 4810 is powered on. The LED blinks when the 4810 is in standby mode.



This graphic indicates the headphone jack. When you use the headphone jack, the audio output port is disabled.

Rear connectors

Figure 1-3 on page 1-4 shows the connections available on the 4810 models 33x.

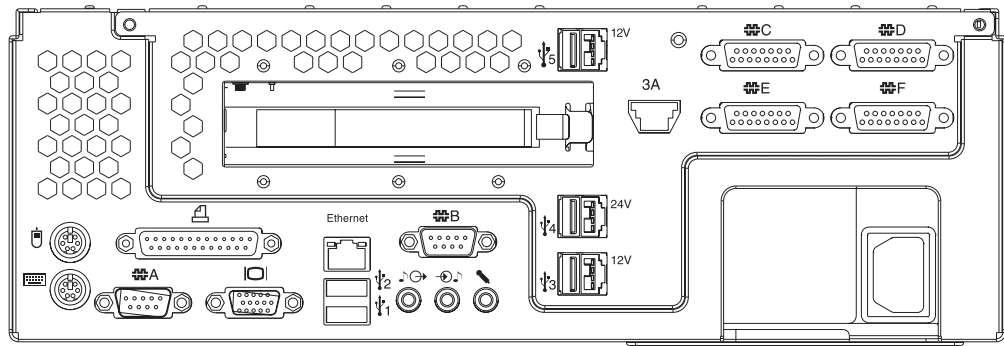


Figure 1-3. 33x models - rear view connections



Mouse port.



Port for a PS/2 or compatible keyboard.



Printer port.



USB ports.



SVGA display port.



Port for first and second external serial devices, such as a scale or a scanner.



Ports for third, fourth, fifth, and sixth external serial devices. These connectors also provide 12 V and 5 V for external devices.



Port for an Ethernet LAN cable.



Microphone port.



Audio input port.



Port for audio output, such as self-amplified speakers.



Outlet for power cord.

Chapter 2. Remove/replace procedures for the 4810 SurePOS 300

This section describes how to remove the replaceable components of Model 330 of the 4810 SurePOS 300. These are the procedures that are included:

- “Opening the unit” on page 2-2
- “Removing the CD-ROM” on page 2-3
- “Removing the hard-disk drive” on page 2-5
- “Removing memory” on page 2-7
- “Removing the heat sink and fan assembly” on page 2-8
- “Removing the CPU” on page 2-9
- “Removing the LED assembly” on page 2-10
- “Removing the power supply” on page 2-11
- “Removing the riser card and the I/O card” on page 2-12
- “Removing the planar” on page 2-14

Opening the unit

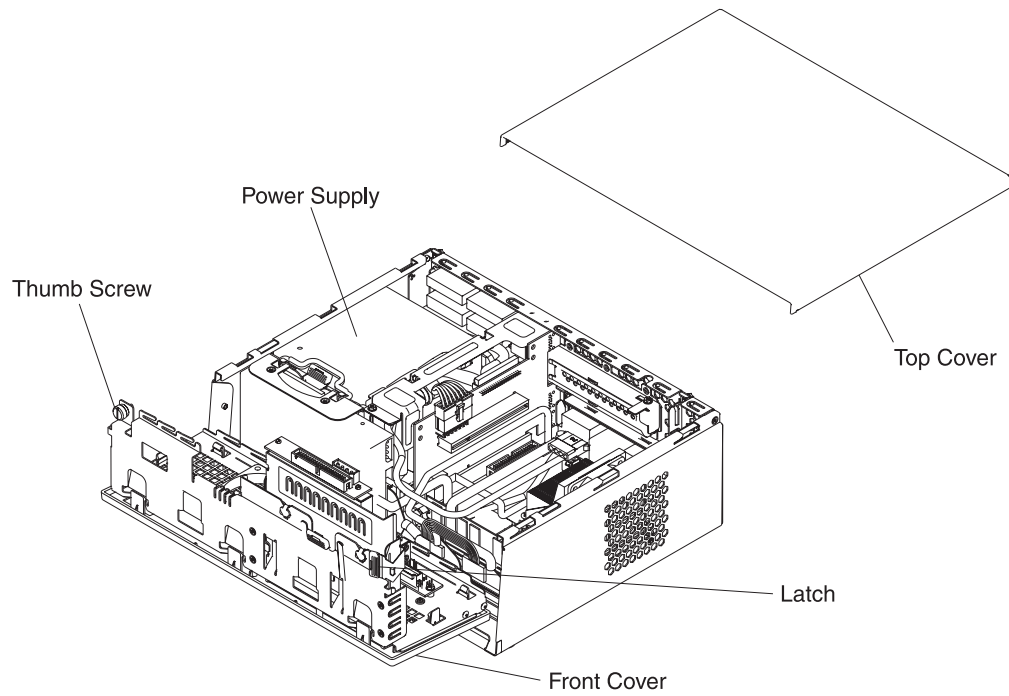


Figure 2-1. Opening the unit

1. Unplug the power cord.
2. Remove the two screws at the top of the back of the unit.
3. Slide the top cover back, then lift it up.
4. Loosen the thumb screw, which holds the front cover in place.
5. While pushing down on the blue latch (see Figure 2-1 for location), rotate the front cover down.

Removing the CD-ROM

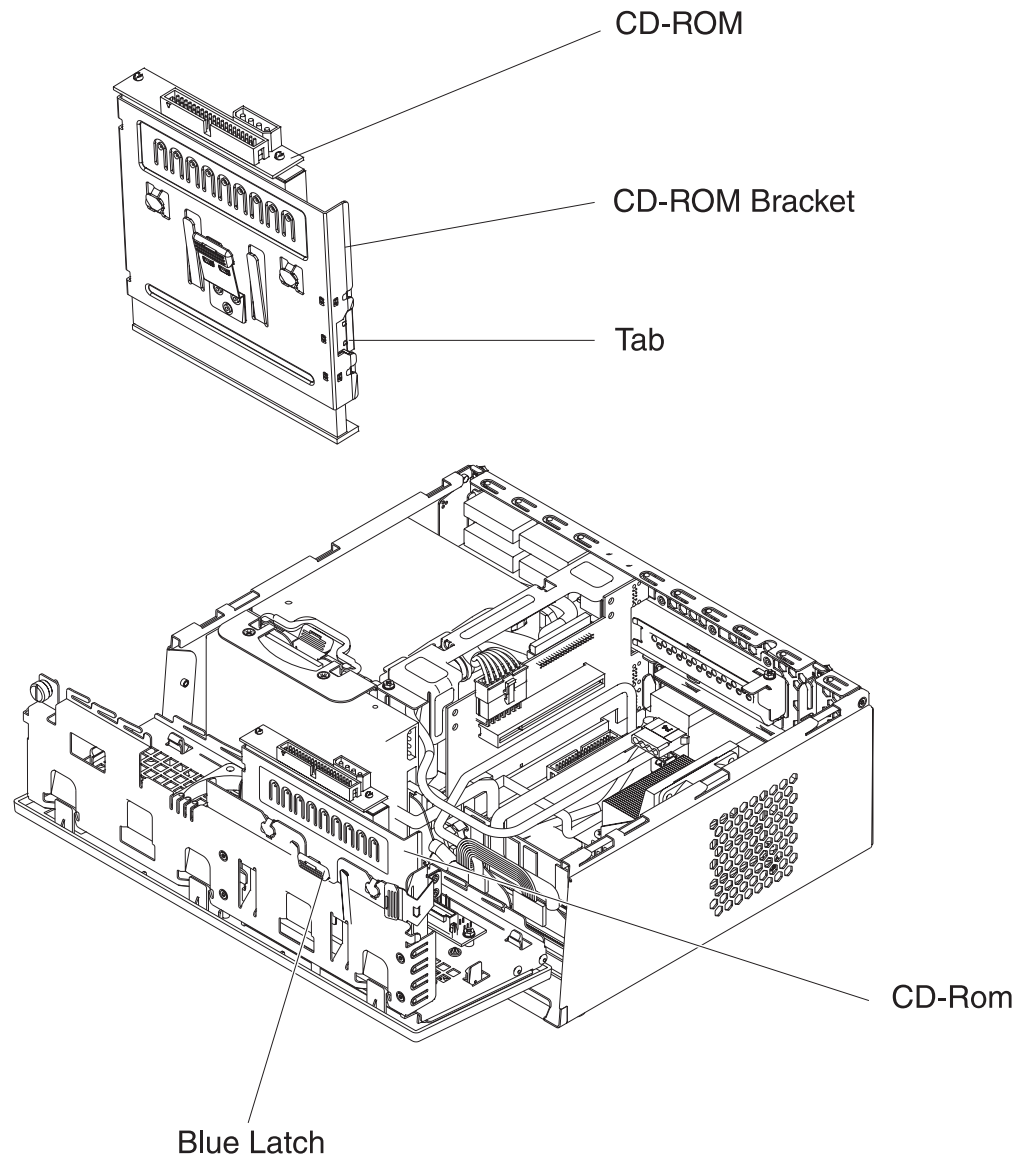


Figure 2-2. Removing the CD-ROM

To remove the CD-ROM:

1. Open the unit (see "Opening the unit" on page 2-2).
2. Disconnect the power and signal cables from the CD-ROM.
3. While pressing the blue latch toward the CD-ROM, lift the CD-ROM out.
4. While pulling the tab on the side of the CD-ROM bracket outward, pull the bracket away from the CD-ROM.

To replace the CD-ROM:

1. Fit the two prongs on the non-latch side of the CD-ROM bracket into the holes in the side of the CD-ROM.
2. Snap the CD-ROM into the CD-ROM bracket.

3. Insert the CD-ROM bracket into position on the front cover. The blue latch on the CD-ROM bracket will snap into place when the bracket is fully inserted.
4. Reconnect the power and signal cables.
5. Close the unit.

Removing the hard-disk drive

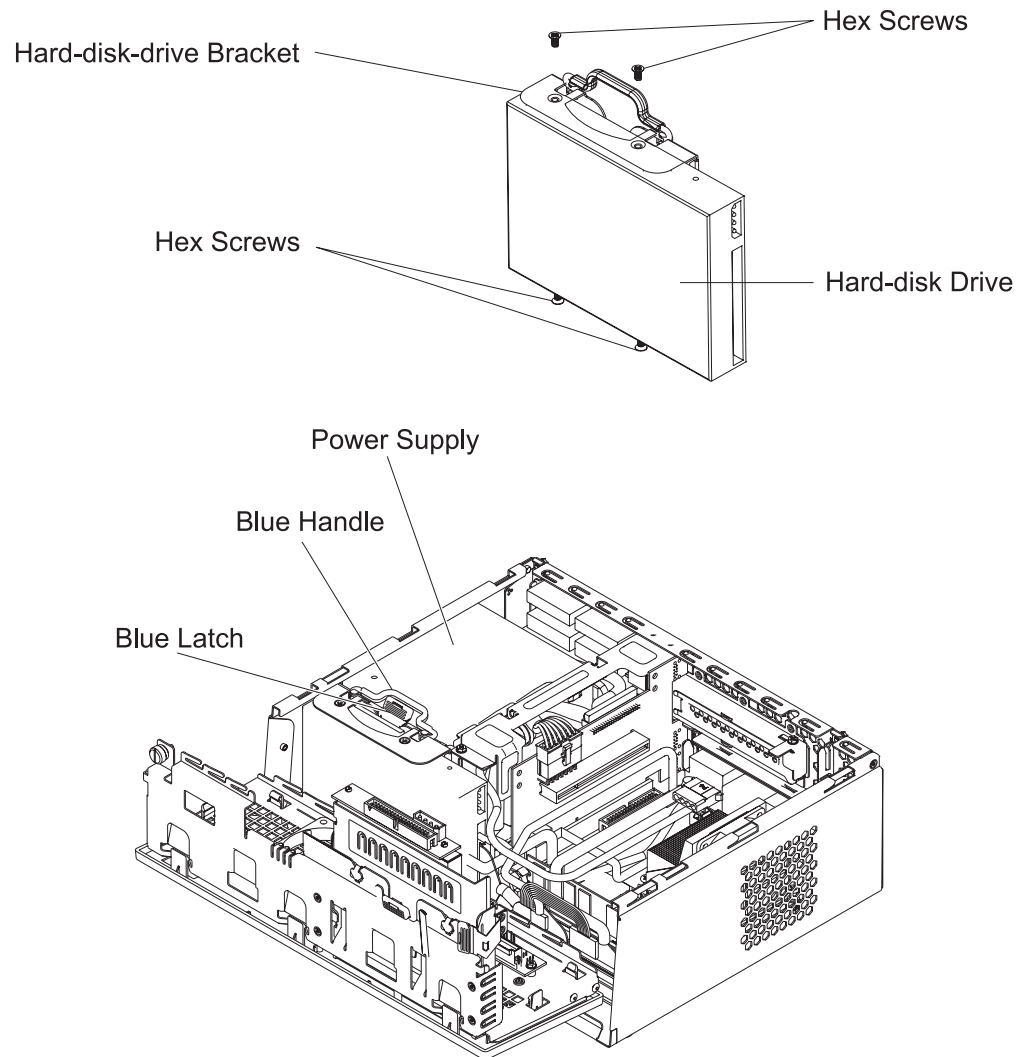


Figure 2-3. Removing the hard-disk drive

To remove the hard-disk drive:

1. Open the unit (see "Opening the unit" on page 2-2).
2. While pushing the blue latch down toward the power supply, use the blue handle to lift the hard-disk drive up out of the 4810.
3. Disconnect the power and interface cables from the hard-disk drive.
4. Remove the four hex screws at the sides of the hard-disk-drive bracket.
5. Slide the hard-disk drive out of the hard-disk-drive bracket.

To replace the hard-disk drive:

1. Slide the hard-disk drive into the hard-disk-drive bracket.
2. Insert and tighten the four hex screws at the sides of the hard-disk-drive bracket.
3. Reconnect the power and interface cables to the hard-disk drive.

4. Align the flanges on the back of the hard-disk-drive bracket with the grooves on both sides of the blue latch.
5. Push the hard-disk drive down into place.
6. Close the 4810.

Removing memory

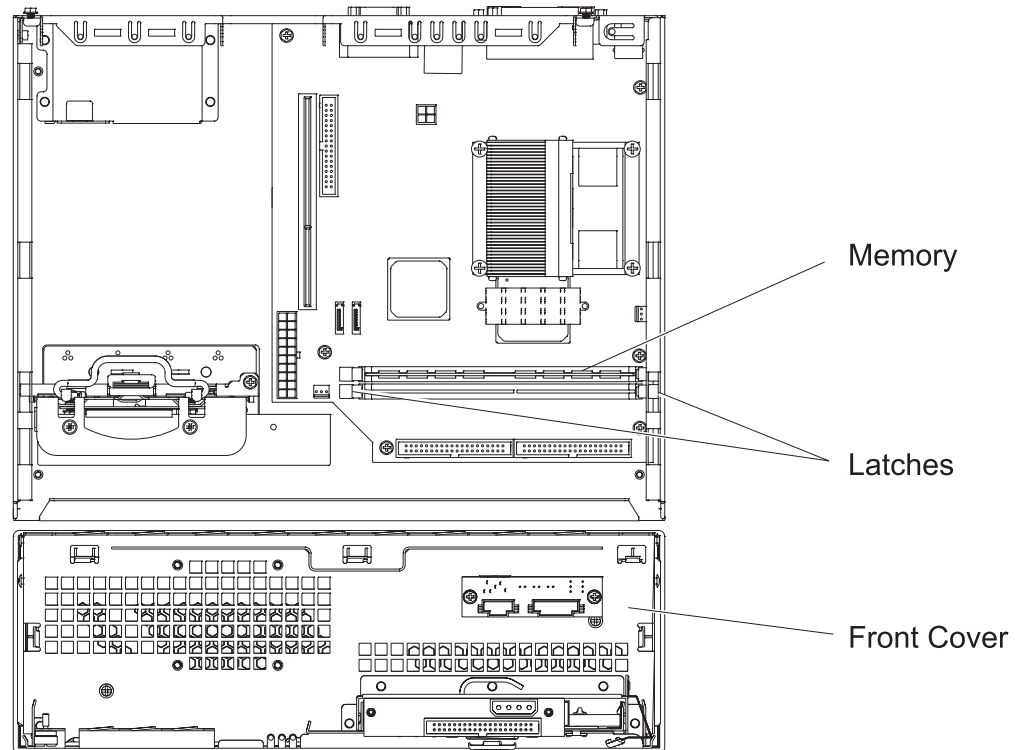


Figure 2-4. Removing memory

1. Open the unit (see “Opening the unit” on page 2-2).
2. Disconnect the power and interface cables from the hard-disk drive.
3. On the DIMM to be removed, push the latches outward.
4. Lift the DIMM from the socket.
5. To replace the memory, reverse this procedure.

Removing the heat sink and fan assembly

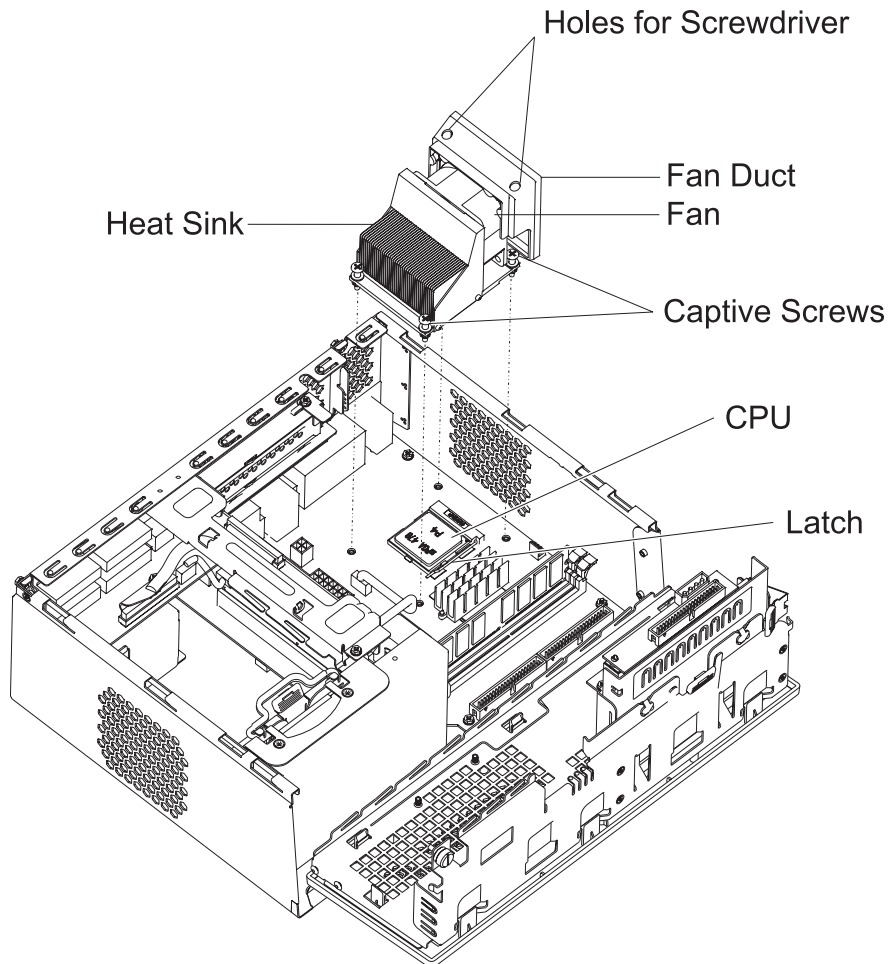


Figure 2-5. Removing the heat sink and fan assembly

1. Open the unit (see "Opening the unit" on page 2-2).
2. Disconnect the fan power cable from the planar.
3. Loosen the four captive screws at the corners of the heat sink. For the two screws under the fan duct, insert your screwdriver down through the holes in the fan duct.
4. Lift the heat sink and fan assembly up out of the unit.
5. To replace the heat sink and fan assembly, reverse this procedure.

Removing the CPU

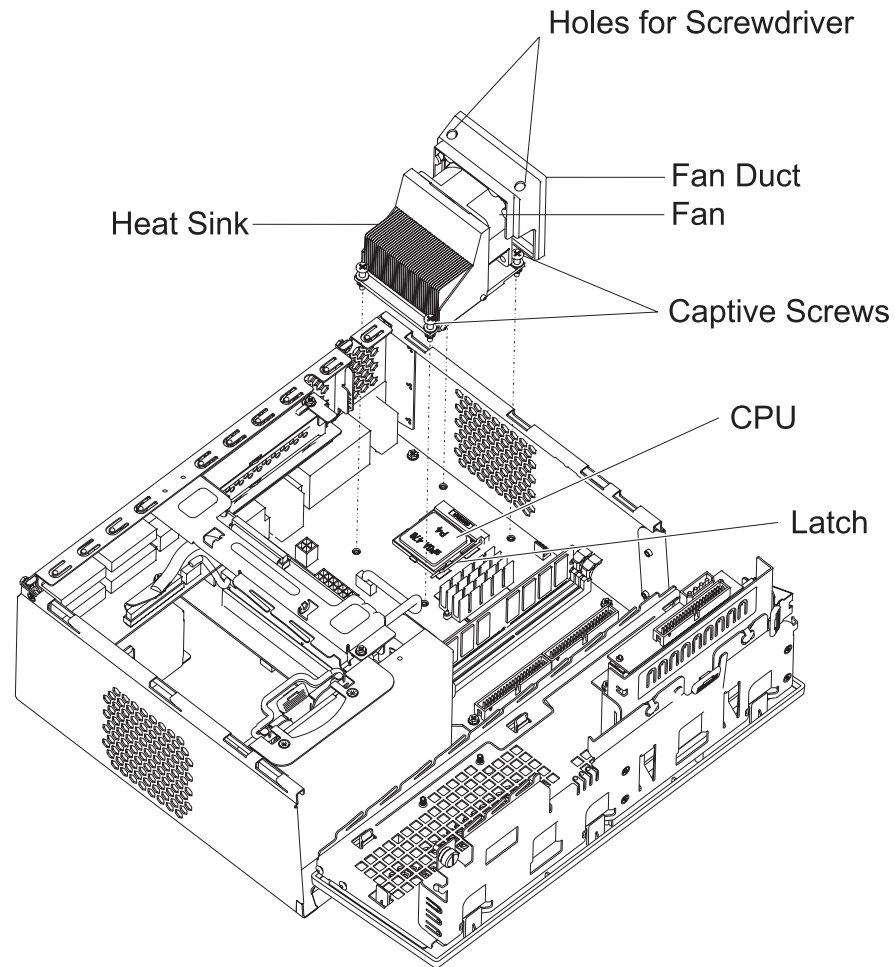


Figure 2-6. Removing the CPU

1. Open the unit (see "Opening the unit" on page 2-2).
2. Remove the heat sink and fan assembly (see "Removing the heat sink and fan assembly" on page 2-8).
3. Lift the latch next to the CPU.
4. Lift the CPU out of the unit.
5. To replace the CPU, reverse this procedure.

Removing the LED assembly

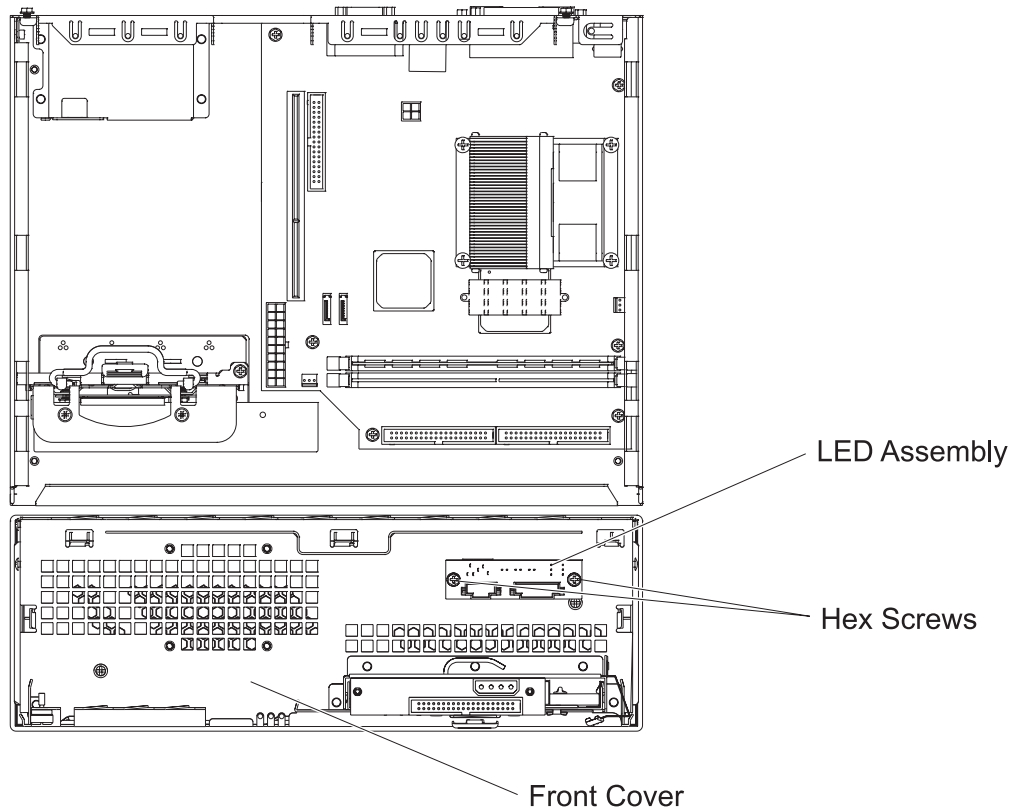


Figure 2-7. Removing the LED assembly

1. Open the unit (see “Opening the unit” on page 2-2).
2. Disconnect the audio and LED switch cables from the LED assembly.
3. Remove the two hex screws that attach the LED assembly to the front cover.
4. Lift the LED assembly out.
5. To replace the LED assembly, reverse this procedure.

Removing the power supply

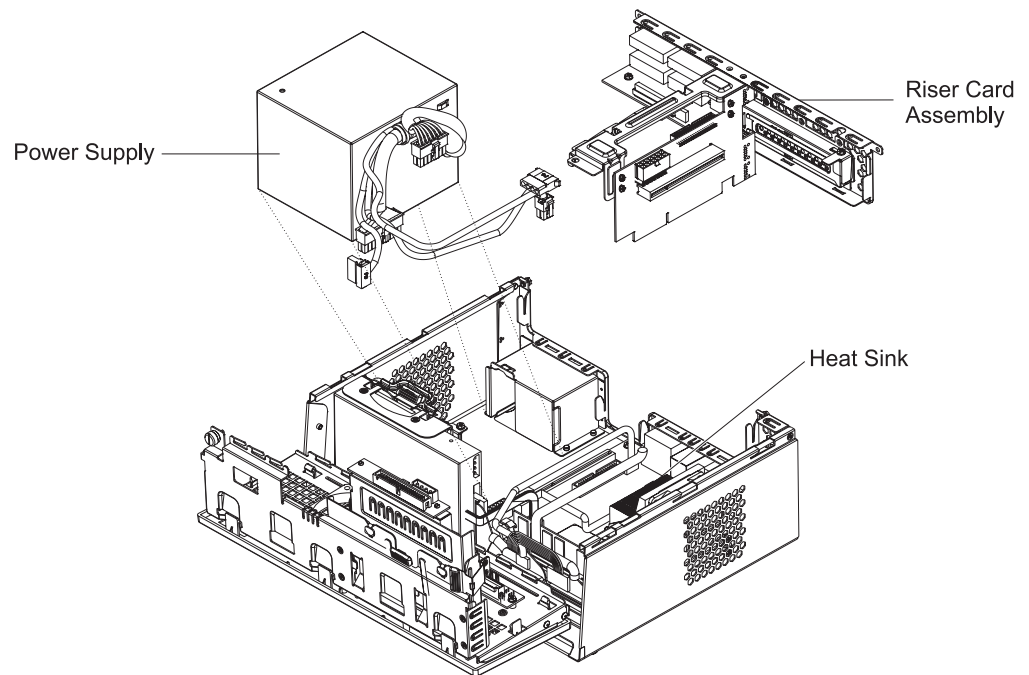


Figure 2-8. Removing the power supply

Note: The power supply is held in place by the thumb screw in the front cover. There are no screws that need to be removed during this procedure.

1. Open the unit (see "Opening the unit" on page 2-2).
2. Disconnect the power cable from the riser card.
3. Lift the riser card assembly out of the 4810.
4. Disconnect the power cable attached to the hard-disk drive, the power cable attached to the CD-ROM, and the two power cables attached to the planar.
5. Slide the power supply toward the heat sink, then lift it up and out.
6. To replace the power supply, reverse this procedure.

Removing the riser card and the I/O card

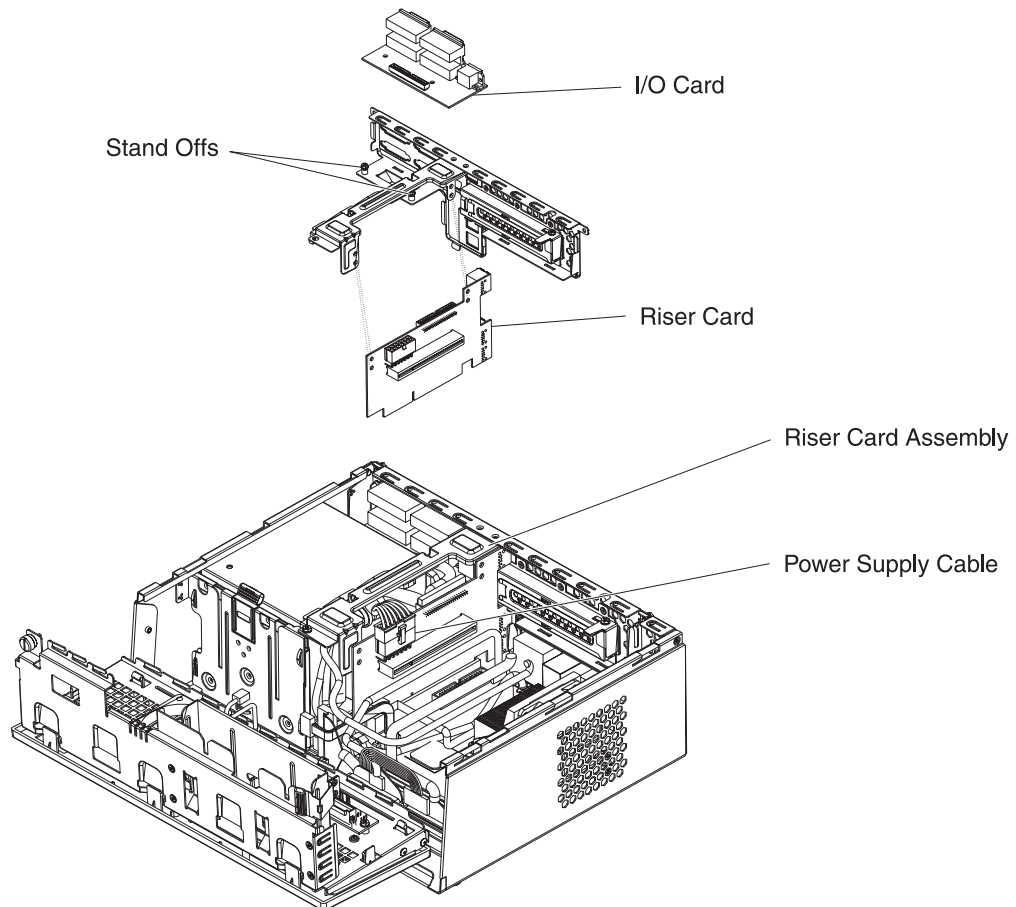


Figure 2-9. Removing the riser card and the I/O card

To remove the riser card:

1. Open the unit (see "Opening the unit" on page 2-2).
2. Disconnect the power-supply cable from the riser card.
3. Lift the riser card assembly up and out.
4. Disconnect the two cables that connect the riser card to the I/O card.
5. Remove the two hex screws at each upper corner of the riser card.
6. Pull the riser card out of the riser card assembly.
7. To replace the riser card, reverse this procedure, being careful to avoid pinching the cables.

To remove the I/O card:

1. Remove the screws beside serial ports C and D on the back cover of the 4810.
2. Remove the riser card assembly. (See steps 1 through 4 of the procedure to remove the riser card.)
3. Remove the two screws from the I/O card.
4. Rotate the I/O card toward the back of the 4810 (which lifts the card off two standoffs), and lift the card out.

Note: When replacing the I/O card, the reverse of this step is to position the card over the two standoffs, and press the card down into place.

5. To replace the I/O card, reverse this procedure.

Removing the planar

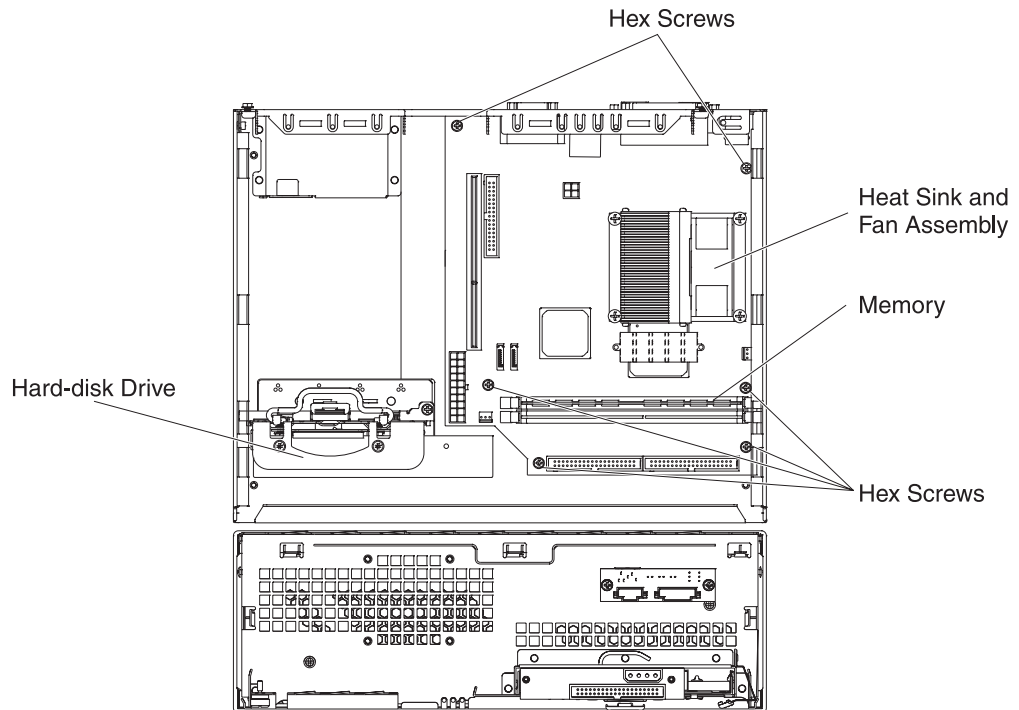


Figure 2-10. Removing the planar. (View after the riser card assembly has been removed)

1. Open the unit (see "Opening the unit" on page 2-2).
2. Lift the riser card assembly out of the 4810.
3. Disconnect all cables that are attached to the planar.
4. Remove the hard-disk drive (see "Removing the hard-disk drive" on page 2-5).
5. Remove the memory (see "Removing memory" on page 2-7).
6. Remove the heat sink and fan assembly (see "Removing the heat sink and fan assembly" on page 2-8).
7. Remove the CPU (see "Removing the CPU" on page 2-9).
8. Remove the screws beside the printer port and serial port B on the back cover of the 4810.
9. Remove the six hex screws on the planar.
10. Slide the planar toward the front of the 4810, then lift the planar out of the 4810.
11. To replace the planar, reverse this procedure.

Chapter 3. Problem determination

Note: Refer to *IBM Safety Information - Read This First*, GA27-4004, before beginning the procedures in this chapter.

Either software errors or hardware failures can cause problems with the 4810 SurePOS 300. This chapter contains information to help you begin troubleshooting a problem. For detailed troubleshooting, a diagnostic package is available on the Retail Store Solutions Web site.

Preliminary checklist

Begin each service call by checking all of the items in this preliminary checklist. If, after performing all the steps, a problem still exists, refer to Table 3-1 to continue problem determination.

1. Observe the power light. If it is not on, refer to Table 3-1.
2. Verify that the cables are securely and correctly connected.
3. Verify that the I/O devices, which have their own power switches, are connected to an ac power outlet that is operating correctly and that the devices are powered on.
4. Verify that the contrast and brightness controls on the video display (if attached) are set correctly.
5. Verify that all installed hardware devices (such as a memory module, feature card, printer, or mouse) are connected correctly and securely.

Table 3-1. 4810 symptoms

Symptom	Actions
The power LED is off.	<ol style="list-style-type: none"> 1. Verify that the power cord is plugged into both the wall outlet and the back of the terminal. 2. Verify that the terminal is powered on. 3. Verify that the outlet has power. 4. Disconnect all attached devices and feature cards to determine if one is overloading the power supply. If the power light returns, reconnect them one at a time to determine the unit causing the failure. 5. Ensure that all internal cabling and memory modules are correctly inserted. 6. Exchange the power supply. 7. Exchange the system board.
Terminal is not operating.	<ol style="list-style-type: none"> 1. Unplug the power outlet, wait 5 seconds, and then power ON. Verify that the power light on the front panel is on. Look for any error messages and listen for a beep at the completion of the POST. 2. Check for a blown fuse, a tripped circuit breaker, or a power failure. 3. Verify that all cables are securely connected to and inside of the terminal.
Power on, LED does not light.	<ol style="list-style-type: none"> 1. Replace the LED assembly cables. 2. Replace the LED assembly. 3. Replace the planar.

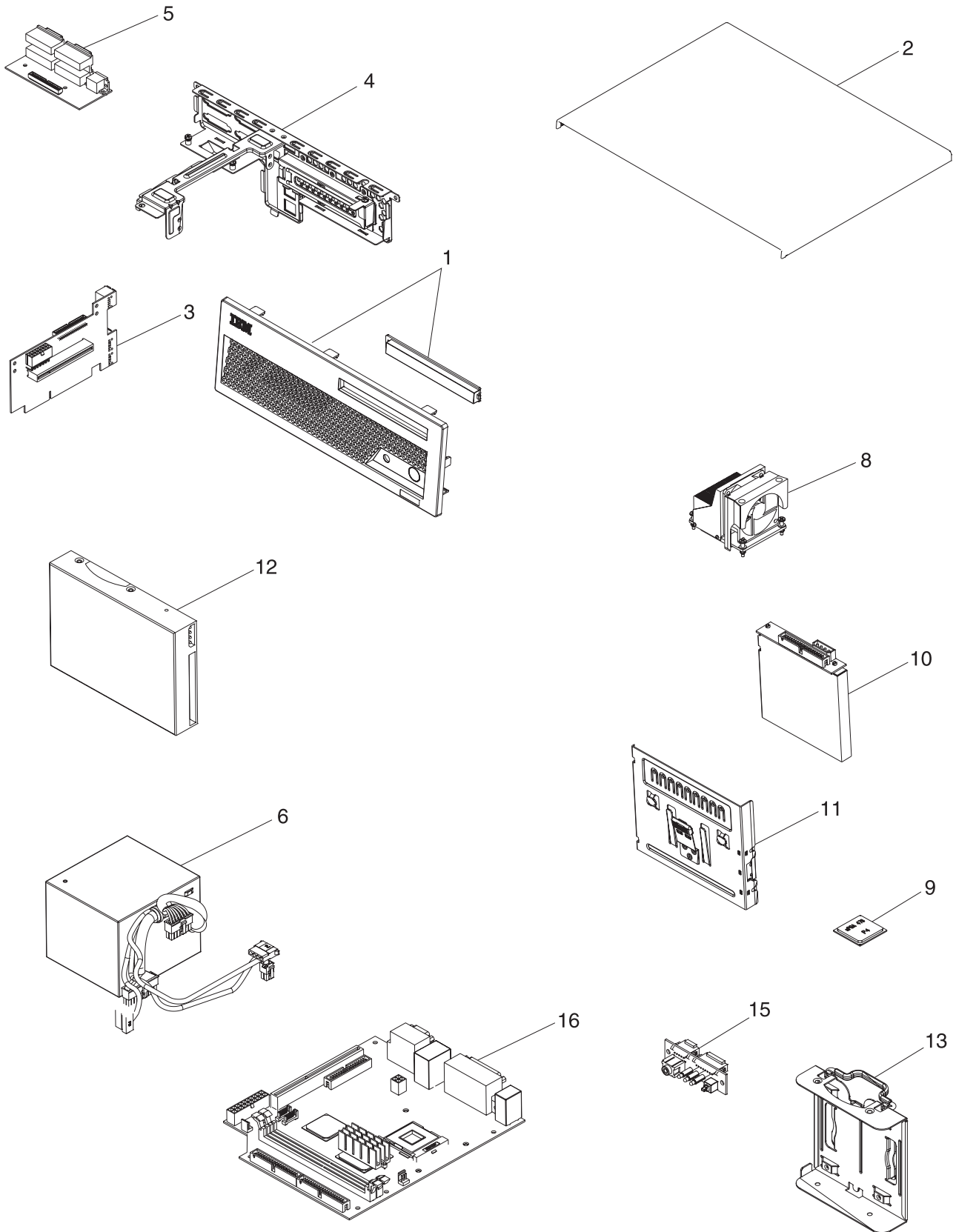
Chapter 4. Parts catalog

Assembly 1: Field-replaceable units 4-2

This chapter provides parts information available for the Model 330 system units.

See the hardware service guide for each peripheral device for parts information about the device.

Assembly 1: Field-replaceable units



Asm- Index	Part Number	Units	Description
1-1	41A2716	1	Front bezel, iron gray, with CD-ROM blank
-2	41A2717	1	Top cover, iron gray
-3	41A2725	1	Riser card
-4	41A2718	1	Riser module bracket
-5	41A2726	1	I/O card for powered RS-232 ports and cash drawer
-6	41A2722	1	Power supply (Leadyear)
-6	41A2723	1	Power supply (Pi)
-8	41A2740	1	Heat sink and fan assembly
-9	41A2123	1	2.0 GHz Celeron CPU
-10	41A2728	1	CD-ROM with connector card
-11	41A2721	1	CD-ROM bracket
-12	41A3640	1	40 GB HDD SATA drive
-13	41A2720	1	HDD bracket
-15	41A2727	1	Switch/LED card with headphone jack
-16	41A2724	1	System board (with battery)
-	45P6222		Battery (for System Board) (not shown)
-	41A2820	1	256 MB DDR memory (not shown)
-	41A2821	1	512 MB DDR memory (not shown)
-	41A2822	1	1 GB DDR memory (not shown)
-	10N0519	1	Dual display adapter (not shown)
-	41A2730	1	Cable, HDD SATA signal (not shown)
-	41A2731	1	Cable, DVD parallel signal (not shown)
-	41A2732	1	Cable, I/O card power (not shown)
-	41A2733	1	Cable, I/O card signal (not shown)
-	41A2734	1	Cable, Switch/LED card (not shown)
-	41A2735	1	Cable, Audio signal (not shown)
-	41A2739	1	Miscellaneous hardware kit (not shown) Includes screws, feet, PCI bracket, and PCI lock bracket

Appendix A. Notices

References in this publication to IBM products, programs, and services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, are the user's responsibility.

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Electronic emission notices

Federal Communications Commission (FCC) statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada class A emission compliance statement

This Class A digital apparatus complies with Canadian ICES-003.

Avis de conformité aux normes d'Industrie Canada

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

European Community (CE) mark of conformity statement

This product is in conformity with the protection requirements of EC Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

Warning: This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

Germany

Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG) vom 30. August 1995 (bzw. der EMC EG Richtlinie 89/336).

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen.

Verantwortlich für die Konformitätserklärung nach Paragraph 5 des EMVG ist die IBM Deutschland Informationssysteme GmbH, 70548 Stuttgart.

Informationen in Hinsicht EMVG Paragraph 3 Abs. (2) 2:

Das Gerät erfüllt die Schutzanforderungen nach EN 50082-1 und EN 55022 Klasse A.
--

EN 55022 Klasse A Geräte müssen mit folgendem Warnhinweis versehen werden:

"Warnung: dies ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen."

EN 50082-1 Hinweis:

"Wird dieses Gerät in einer industriellen Umgebung betrieben (wie in EN 50082-2 festgelegt), dann kann es dabei eventuell gestört werden. In solch einem Fall ist der Abstand bzw. die Abschirmung zu der industriellen Störquelle zu vergrößern."

Anmerkung:

Um die Einhaltung des EMVG sicherzustellen, sind die Geräte, wie in den IBM Handbüchern angegeben, zu installieren und zu betreiben.

Australia / New Zealand

Attention: This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

Japanese power line harmonics compliance statement

高調波ガイドライン適合品

高調波ガイドライン適合品

Japanese Voluntary Control Council for Interference (VCCI) statement

This product is a Class A Information Technology Equipment and conforms to the standards set by the Voluntary Control Council for Interference by Technology Equipment (VCCI). In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Korean Communications Statement

Please note that this device has been approved for business purposes with regard to electromagnetic interference. If you find this is not suitable for your use, you may exchange it for a non-business purpose one.

A급 기기(업무용)

이 기기는 업무용으로 전자파적합등록을 받은 기기이오니 판매자 또는 이용자는 이점을 주의하시기 바라며, 만약 구입하였을 때에는 구입한 곳에서 가정용으로 교환하시기 바랍니다.

Taiwanese class A warning statement

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Taiwanese battery recycling statement

Waste batteries, please recycle.



Chinese Class A warning statement

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

中华人民共和国“A类”警告声明

声 明

此为 A 级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

Electrostatic discharge (ESD)

Attention: ESD damage can occur when there is a difference in charge between the part, the product, and the service person. No damage will occur if the service person and the part being installed are at the same charge level.

ESD Damage Prevention

Anytime a service action involves physical contact with logic cards, modules, back-panel pins, or other ESD sensitive (ESDS) parts, the service person must be connected to an ESD common ground point on the product through the ESD wrist strap and cord.

The ESD ground clip can be attached to any frame ground, ground braid, green wire ground, or the round ground prong on the AC power plug. Coax or connector outside shells can also be used.

Handling Removed Cards

Logic cards removed from a product should be placed in ESD protective containers. No other object should be allowed inside the ESD container with the logic card. Attach tags or reports that must accompany the card to the outside of the container.

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Appendix B. Safety information



Danger:

Before you begin to install this product, read the safety information in *IBM Safety Information — Read This First*, GA27-4004. This booklet describes safe procedures for cabling and plugging in electrical equipment.



Gevaar:

Voordat u begint met de installatie van dit produkt, moet u eerst de veiligheidsinstructies lezen in de brochure *Veiligheidsinstructies—Lees dit eerst*, GA27-4004. Hierin wordt beschreven hoe u elektrische apparatuur op een veilige manier moet bekabelen en aansluiten.



Perigo:

Antes de começar a instalar este produto, leia as informações de segurança contidas em *Informações Sobre Segurança—Leia Isto Primeiro*, GA27-4004. Esse folheto descreve procedimentos de segurança para a instalação de cabos e conexões em equipamentos elétricos.



Fare!

Før du installerer dette produkt, skal du læse sikkerhedsforskrifterne i *Sikkerhedsforskrifter—Læs dette først* GA27-4004. Vejledningen beskriver den fremgangsmåde, du skal bruge ved tilslutning af kabler og udstyr.



Gevaar

Voordat u begint met het installeren van dit produkt, dient u eerst de veiligheidsrichtlijnen te lezen die zijn vermeld in de publikatie *IBM Safety Information — Read This First*, GA27-4004. In dit boekje vindt u veilige procedures voor het aansluiten van elektrische apparatuur.



VAARA

Ennen kuin aloitat tämän tuotteen asennuksen, lue julkaisussa *Turvaohjeet—Luetämä ensin*, GA27-4004, olevat turvaohjeet. Tässä kirjasessa on ohjeet siitä, miten sähkölaitteet kaapeloidaan ja kytketään turvallisesti.



Danger

Avant d'installer le présent produit, consultez le livret *Informations pour la sécurité—Lisez-moi d'abord*, GA27-4004, qui décrit les procédures à respecter pour effectuer les opérations de câblage et brancher les équipements électriques en toute sécurité.



Vorsicht

Bevor mit der Installation des Produktes begonnen wird, die Sicherheitshinweise in *Sicherheitsinformationen—Bitte zuerst lesen*, IBM Form GA27-4004. Diese Veröffentlichung beschreibt die Sicherheitsvorkehrungen für das Verkabeln und Anschließen elektrischer Geräte.



Vigyázat

Mielőtt megkezdi a berendezés üzembe helyezését, olvassa el a *IBM Safety Information — Read This First*, GA27-4004 könyvecskében leírt biztonsági információkat. Ez a könyv leírja, milyen biztonsági intézkedéseket kell megtenni az elektromos berendezés huzalozásakor illetve csatlakoztatásakor.



Pericolo

prima di iniziare l'installazione di questo prodotto, leggere le informazioni relative alla sicurezza riportate nell'opuscolo *Informazioni di sicurezza—Prime informazioni da leggere* in cui sono descritte le procedure per il cablaggio ed il collegamento di apparecchiature elettriche.



Fare

Før du begynner å installere dette produktet, må du lese sikkerhetsinformasjonen i *Sikkerhetsinformasjon—Les dette først, GA27-4004* som beskriver sikkerhetsrutinene for kabling og tilkobling av elektrisk utstyr.



Perigo

Antes de iniciar a instalação deste produto, leia as informações de segurança *Informações de Segurança—Leia Primeiro, GA27-4004*. Este documento descreve como efectuar, de um modo seguro, as ligações eléctricas dos equipamentos.



Peligro

Antes de empezar a instalar este producto, lea la información de seguridad en *Información de Seguridad—Lea Esto Primero, GA27-4004*. Este documento describe los procedimientos de seguridad para cablear y enchufar equipos eléctricos.



Varning—livsfara

Innan du börjar installera den här produkten bör du läsa säkerhetsinformationen i dokumentet *Säkerhetsföreskrifter—Läs detta först*, GA27-4004. Där beskrivs hur du på ett säkert sätt ansluter elektrisk utrustning.

危險：安裝本產品之前，請先閱讀
"IBM Safety Information--Read
This First" GA27-4004 手冊中所提
供的安全注意事項。這本手冊將會說明
使用電器設備的纜線及電源的安全程序。

Opasnost: Prije nego što počnete sa instalacijom produkta,
pročitajte naputak o pravilima o sigurnom rukovanju u
Upozorenje: Pravila o sigurnom rukovanju - Prvo pročitaj ovo,
GA27-4004. Ovaj privitak opisuje sigurnosne postupke za
priključivanje kabela i priključivanje na električno napajanje.

Upozornění: než zahájíte instalaci tohoto produktu, přečtěte si
nejprve bezpečnostní informace v pokynech „Bezpečnostní
informace“ č. GA27-4004. Tato brožurka popisuje bezpečnostní
opatření pro kabeláž a zapojení elektrického zařízení.

Κίνδυνος: Πριν ξεκινήσετε την εγκατάσταση αυτού του προϊόντος,
διαβάστε τις πληροφορίες ασφάλειας στο φυλλάδιο *IBM Safety
Information-Read this first, GA27-4004*. Στο φυλλάδιο αυτό
περιγράφονται οι ασφαλείς διαδικασίες για την καλωδίωση των
ηλεκτρικών συσκευών και τη σύνδεσή τους στην πρίζα.

危險：導入作業を開始する前に、安全に関する
小冊子 GA27-4004 の「最初にお読みください」
(Read This First) の項をお読みください。
この小冊子は、電気機器の安全な配線と接続の
手順について説明しています。

위험: 이 제품을 설치하기 전에 반드시
"주의: 안전 정보-시작하기 전에"
(GA27-4004) 에 있는 안전 정보를
읽으십시오.

סכנה: לפני שמתחילים בהתקנת מוצר זה, יש לקרוא את הוראות הבטיחות בחוברת
Caution: Safety Information - Read This First, GA27-4004
חוברת זו מתארת את הוראות הבטיחות לחיבור הכבלים ולחיבור לחשמל של ציוד חשמלי.

خطر: قبل عملية بدء تركيب هذا المنتج، قم بقراءة معلومات
الحمية الموجودة في التحذير: معلومات الحماية - Read This First
GA27-4004 . يقوم هذا الكتيب بوصف اجراءات الأمان
لتوصيل الأدوات الكهربائية بالكابلات والمقبس الكهربائي.

ОПАСНОСТ

Пред да почнете да го инсталирате овој продукт, прочитајте ја информацијата за безбедност:
"Предупредување: Информација за безбедност: Прочитајте го прво ова", GA27-4004.
Оваа брошура опишува безбедносни процедури за каблирање и вклучување на електрична опрема.

Uwaga:

Przed rozpoczęciem instalacji produktu należy zapoznać się z instrukcją: "IBM Safety Information - Read This First", GA27-4004.
Zawiera ona warunki bezpieczeństwa przy podłączaniu do sieci elektrycznej i eksploatacji.

ОСТОРОЖНО: Прежде чем устанавливать этот продукт, прочтите Инструкцию по технике безопасности в документе "Внимание: Инструкция по технике безопасности -- Прочестъ в первую очередь", GA27-4004. В этой брошюре описаны безопасные способы каблирования и подключения электрического оборудования.

Nebezpečenstvo: Pred inštaláciou výrobku si prečítajte bezpečnostné predpisy v
Výstraha: Bezpečnostné predpisy - Prečítaj ako prvé, GA27-4004. V tejto brožúrke sú opísané bezpečnostné postupy pre pripojenie elektrických zariadení.

Pozor: Preden začnete z instalacijo tega produkta preberite poglavje: "Opozorilo: Informacije o varnem rokovanju-preberi pred uporabo," GA27-4004. To poglavje opisuje pravilne postopke za kabliranje,

危險：

開始安裝此產品之前，請先閱讀安全資訊。

注意：

請先閱讀 - 安全資訊 GA27-4004

此冊子說明插接電器設備之電纜線的安全程序。

危險：

在开始安装本产品之前，请阅读

IBM Safety Information - Read This First,
GA27-4004 中的安全信息。

此手册描述了如何安全地连接和插拔电气设备。

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Readers' Comments — We'd Like to Hear from You

**SurePOS 300
Installation and Service Guide for 4810
Model 330**

Publication No. GA27-7355-00

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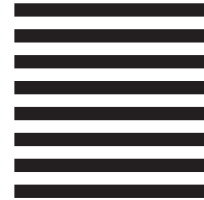
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