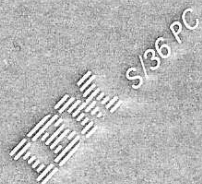


Start Here

Setting Up Your Computer 5364



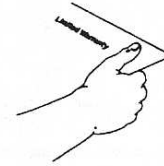
IBM S/36 PC

# IBM S/36 PC

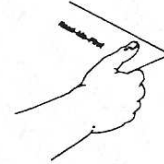
## Overview of System/36 PC Installation

The following sequence shows the steps you must follow to successfully install the System/36 PC. The sequence is intended as an overview only; specific instructions are provided in the appropriate documentation.

1. Read and file the Limited Warranty that came with your 5364 System Unit.



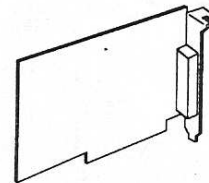
2. If you received any read-me-first bulletins, read them carefully. Modify the installation instructions accordingly.



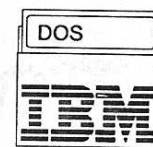
3. If not already done, set up and check out the personal computer and the personal computer printer (if you are using a printer).



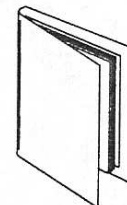
4. Install the 5364 driver card in the personal computer. If you ordered additional PC options, such as other adapters or cards, install them in the personal computer also.



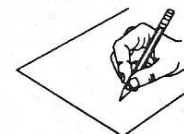
5. If you have a disk-based system, install the appropriate level of the Disk Operating System (DOS). If you have a diskette-based system, skip this step.



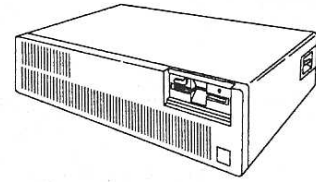
6. Complete the "Getting Started with System/36 PC" course, especially the topics on the 5364 operating system, components and functions of 5364, and how to use 5250 emulation.



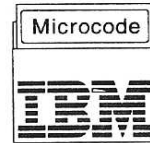
7. Fill out the planning forms.



8. Set up the 5364 System Unit and connect the cables.



9. Install the microcode and customize your system.



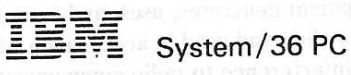
10. Load the System Support Program Product (SSP) and perform the first system configuration.





Federal Communications Commission (FCC) Station

Warning: This equipment generates and radiates radio frequency energy. If not properly installed and used, it may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device as defined in part 15 of the FCC rules, which provides a certain level of protection against such interference when operated in a residential area. Operation of this equipment in a residential area is likely to cause interference in which case the user of the system will be required to take whatever measures may be required to correct the interference.



System/36 PC

### Setting Up Your Computer-5364

IBM (June 1982)

IBM Business Center (SA21-9505-2)

IBM provides a number of IBM products designed to help you set up your IBM System/36 PC. These products are available in all countries where IBM operates. A reference to an IBM product name in this manual does not imply that only that IBM product may be used. An optionally available replacement part may be used.

The information in this manual is preliminary and subject to change without notice. IBM makes no warranty of fitness for a particular purpose.

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File Number  
S36-00

Order Number  
SA21-9505-2

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## Federal Communications Commission (FCC) Statement

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

## Third Edition (June 1986)

This major revision makes obsolete SA21-9505-1.

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## About This Manual

This manual, *Setting Up Your Computer—5364*, is the first of three manuals you will use as you install your System/36 PC. It is the starting point for installation of your System/36 PC and contains the step-by-step procedures you should follow as you connect all the cables and set the necessary switches for the display stations and printers.

Once that is done, you should install the microcode using the instructions in the manual *Installing and Customizing Your System—5364* for the release level you are installing. Part of the process of installing microcode involves tailoring the system to more specifically match your needs.

After the microcode is installed, use the step-by-step instructions in the manual *Performing the First System Configuration for Your System—5364*, SC21-9115, to install the System Support Program (SSP) and the other programs you plan to use.

### Customization Information

If you were referred to this manual from another publication, and are looking for information on customization (including instructions for making a working diskette), microcode installation, or system checkout, go to the manual *Installing and Customizing your System—5364* for the release level you are installing.

## Who should use this manual . . .

This manual is intended for the person who is installing the IBM System/36 5364 System Unit. No special skills are required.

## How this manual is arranged . . .

Task 1 describes what must be done before you can begin setup. Task 2 gives instructions for cabling the 5364 System Unit to the personal computer. Tasks 3 and 4 present instructions for connecting the work station cables.

Appendix A contains instructions for installing the 5364 System Unit into the floor-standing enclosure. Appendix B contains instructions for removing the 5364 System Unit from the floor-standing enclosure. Appendix C gives physical specifications for the 5364 System Unit.

## What you should know . . .

You should have completed the training course in *Getting Started with System/36 PC*, SC21-9267.

If you are installing work stations, you should have completed planning form F in *Preparing to Install Your System—5364*, SC21-9084, *System/36 PC Buyer's Guide*, GC21-9144, or *Preparing to Install Your Work Stations*, SA21-9845.

In this manual, personal computer means one or all of the following:

- IBM 5150 Personal Computer
- IBM 5160 PERSONAL COMPUTER XT<sup>1</sup>
- IBM 5170 PERSONAL COMPUTER AT®

When you have completed setup of your system, continue with *Installing and Customizing Your System—5364* for the release level you are installing.

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<sup>1</sup> Trademark of IBM

## Task 1. Getting Ready for Setup

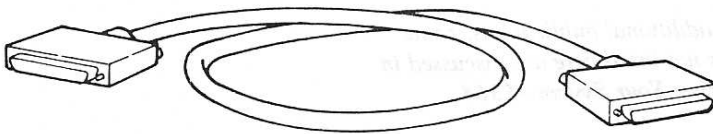
This task describes what must be done before you can begin setting up the System/36 PC.

---

### 1.1

Make sure you have the following items available before proceeding in this manual:

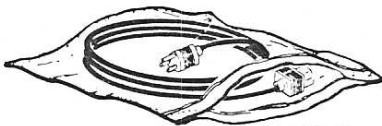
- An IBM 5150 Personal Computer, IBM 5160 Personal Computer XT, or IBM 5170 Personal Computer AT (hereafter referred to as the personal computer)
- System/36 5364 System Unit
- 5364 Driver Card (if not already installed)
- Expansion cable



HB9505202

The expansion cable and power cord are shipped with the 5364 System Unit.

- Power cord (in its protective bag)



HAAP178

- Publications:

- *Installing and Customizing Your System—5364* for the release level you are installing
- *Preparing to Install Your System—5364*, SC21-9084, *Preparing to Install Your Work Stations—5364*, SA21-9845, or *System/36 PC Buyer's Guide*, GC21-9144
- *IBM Personal Computer Guide to Operations*
- *IBM Personal Computer Disk Operating System User's Guide*
- *Guide to Operations—5364 Driver Card* (if the driver card is not installed)

- You may also wish to consider your furniture and telephone locations.

- If you have ordered optional communications features or wish to connect additional display stations or printers to the 5364 System Unit, you may also need the following items:

- Communications feature(s) and the accompanying installation instructions (further explained later in this manual)
- Any display stations or printers (including a PC printer) and their accompanying setup instructions
- Work station cables for your display stations and printers
- Printer supplies (paper, ribbons, and so forth)

*Note: Other items, such as diskettes and additional publications, come with your system unit. Those items not listed here are discussed in the manual **Installing and Customizing Your System—5364**.*

You may wish to file all publications in binders and label the binders for easy recognition.

Make sure you review and file any technical updates you may have received.

*Work station* means display station or printer.

---

## 1.2

Place the 5364 System Unit near the personal computer. (Do not put anything, such as parts of a work station, on top of the system unit.)

### Safety Precaution:

Your 5364 System Unit weighs 26 kilograms (57 pounds). Be careful when you lift it.

The 5364 System Unit can be placed horizontally on a desk or a table or vertically in an optional floor-standing enclosure. If you are going to use a floor-standing enclosure for the system unit, place the system unit in the floor-standing enclosure before continuing with the next step. Follow the floor-standing enclosure installation instructions in Appendix A, "Installing the 5364 System Unit into the Floor-Standing Enclosure" then return to step 1.3.

---

## 1.3

Is the personal computer set up according to the instructions in the *IBM Personal Computer Guide to Operations*, and is the PC printer (if you have a PC printer) set up according to the setup instructions that came with it?

YES



NO

Set up the personal computer according to the instructions in the *IBM Personal Computer Guide to Operations*.

If you are using a PC printer, set up the PC printer according to the setup instructions that came with it. Continue with the next item.

---

## 1.4

Does the personal computer have a double-sided diskette drive (or a high-density diskette drive if it is a Personal Computer AT)?

YES



NO

See the *IBM Personal Computer Guide to Operations* for information about upgrading your personal computer. Continue with the next item.

---

## 1.5

If you have a fixed disk, is DOS (level 3.1 or higher) loaded in the personal computer?

*DOS* means Disk Operating System.

YES



NO

Load DOS according to the instructions in the manual, *IBM Personal Computer Disk Operating System User's Guide*.

---

## 1.6

Are the driver card and any communications features (if you ordered any communications features) installed in the personal computer?

Examples of communications features are:

YES



NO

Install the driver card using the *Guide to Operations—5364 Driver Card* for the model of personal computer you are using. (Do not use slot J8 in the IBM Personal Computer XT).

*Note: Do not install the 5364 expansion cable before testing or before running diagnostics.*

Install any communications feature (if you ordered any) using the manual that was shipped with the feature.

- SDLC (Synchronous Data Link Control) Communications Adapter
- BSCA (Binary Synchronous Communications Adapter)

If you ordered your personal computer and 5364 System Unit at the same time, the communications features are already installed.

**You may wish to check 5364 driver card installation using the problem determination section in the manual, *IBM Personal Computer Guide to Operations*.**

---

## 1.7

Are the grounded electrical outlets installed?

YES



NO

**Safety Precaution:**

The power plug on your 5364 System Unit is approved for use with the 5364 System Unit and meets the laboratory or test-house standards. For your safety, the power cord plug must be connected to a properly wired and grounded outlet. An improperly wired outlet can place hazardous voltages on accessible metal parts of this computer. The customer is responsible for the outlet wiring.

---

## 1.8

Are you connecting a work station, other than the personal computer used as the system console, to the 5364 System Unit?

*Work station* means display station or printer.

YES



NO

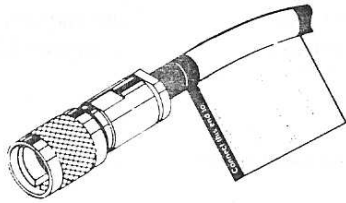
**You have completed this task; continue with Task 2, "Cabling the 5364 System Unit to Your Personal Computer."**

---

## 1.9

Remove from the protective bag the cables that you ordered for your work stations. Uncoil the cables and place them near the system unit and work stations. Are the cables labeled?

*Work station* means display station or printer.



HB9505108

**CAUTION:**

The cables and cable connectors are durable but can be damaged if stepped on or thrown.

YES



NO

For information about labeling cables, see *Preparing to Install Your System—5364*, SC21-9084, *System/36 PC Buyer's Guide*, GC21-9144, or *Preparing to Install Your Work Stations—5364*, SA21-9845; then go to item 1.10



## 1.10

Do you have a completed copy of Form F?

**F** Local Work Station Diagram

PC		PC Printer	
Name		Name	
Device Type		Device Type	
Location		Location	
Work Station Address	0	Work Station Address	1
Display Unit		Printer	
Telephone		Telephone	

YES



NO

Form F should have been completed using *Preparing to Install Your System—5364*, *SC21-9084*, *System/36 PC Buyer's Guide*, *GC21-9144*, or *Preparing to Install Your Work Stations—5364*, *SA21-9845*.

Complete the form and continue with the next step.

## 1.11

Unpack the display stations and printers and place them where they will be used. (Unpacking instructions come with each device.)

*Work station* means display station or printer.

Do not place any work stations on the 5364 System Unit.

---

## 1.12

Perform only the basic setup tasks for each work station at this time.  
Basic setup includes:

- Connecting the keyboard cable to the display station
- Plugging in the power cord plug
- Adding optional paper feeding devices

The following tasks are *not* included in basic setup and will be covered in the remainder of this manual:

- Setting the address switches
- Setting the Terminator switch
- Connecting any work station cables to the system unit
- Performing any test with the display station or printer connected to the computer

---

Set up the display stations and printers one at a time. To set up a display station or printer, use the setup manual for that work station. (The manual is packed inside the carton on top of the display station or printer.)

---

## 1.13

When you have set up all of your display stations and printer(s), return to this manual.

**You have completed this task; go to Task 2, "Cabling the 5364 System Unit to Your Personal Computer."**

---

Keep the setup manual you used to set up each work station(s) near the work station; you will use the setup manual for that work station later in this manual.

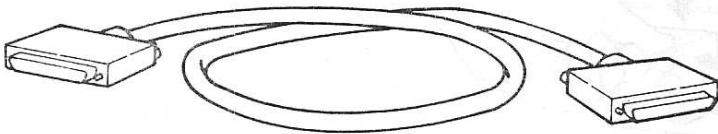
## Task 2. Cabling the 5364 System Unit to Your Personal Computer

This task provides instructions for cabling the 5364 System Unit to the personal computer. Before you begin this task, make sure you have completed Task 1, "Getting Ready for Setup."

---

### 2.1

Find the expansion cable that connects the 5364 System Unit to the personal computer.



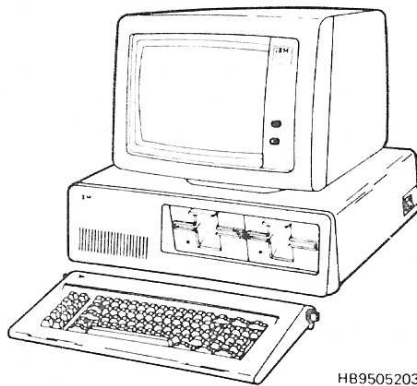
HB9505202

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### 2.2

Attach the expansion cable to the personal computer:

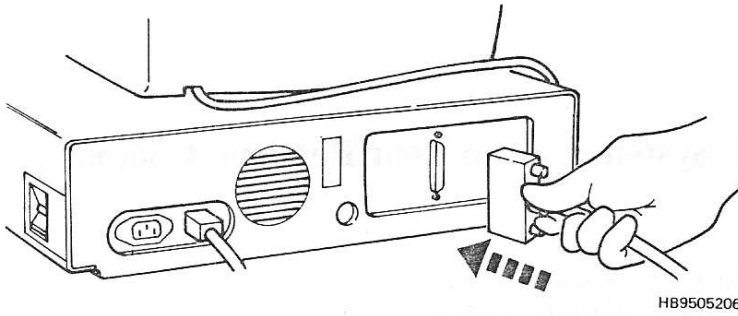
1. Make sure the power switch on the personal computer is set to the O (Off) position.



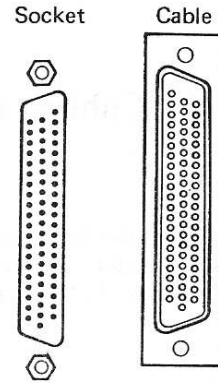
HB9505203

- Align the expansion cable with the socket in the personal computer. Push in until it is tight.

You can attach either end of the expansion cable to the personal computer.

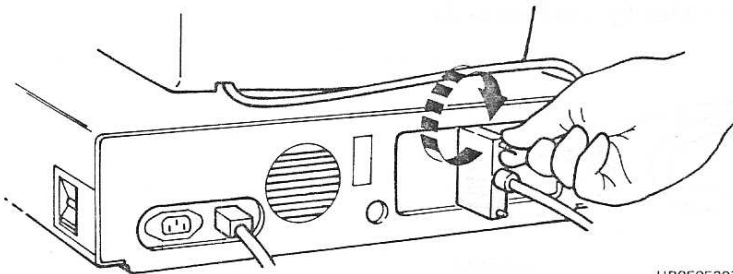


HB9505206



HB9505208

- Tighten the thumbscrews.

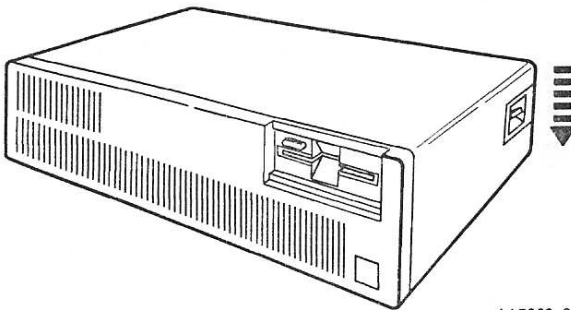


HB9505207

## 2.3

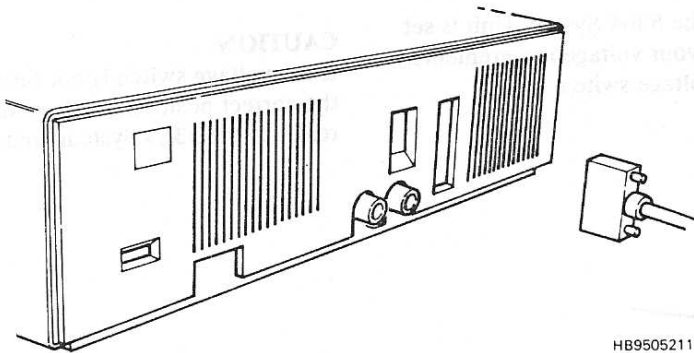
Attach the expansion cable to the 5364 System Unit:

- Make sure the power switch on the 5364 System Unit is set to the O (Off) position.

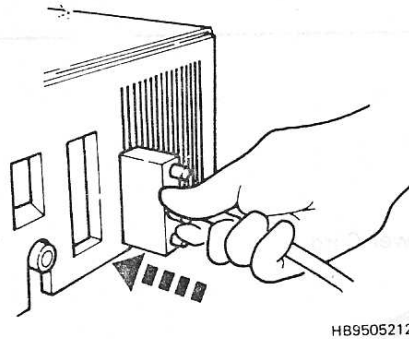


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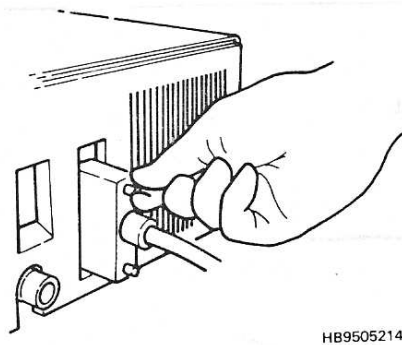
2. Align the expansion cable with the socket in the 5364 System Unit.



3. Push in until it is tight.



4. Tighten the thumbscrews.



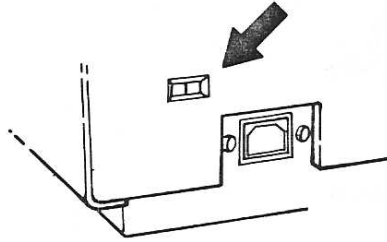
---

## 2.4

Make sure the voltage switch on the back of the 5364 System Unit is set to the correct position (115 or 230 volts) for your voltage requirements. You may need to use a paper clip to set the voltage switch.

### CAUTION:

If the voltage switch is not set to the correct position, damage may result to the 5364 System Unit.

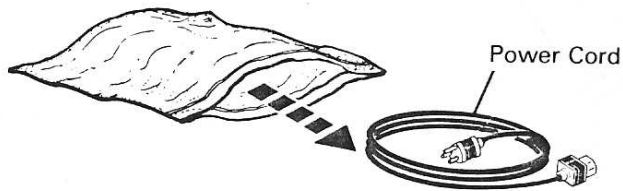


HB9505215

---

## 2.5

Remove the power cord from its protective bag.

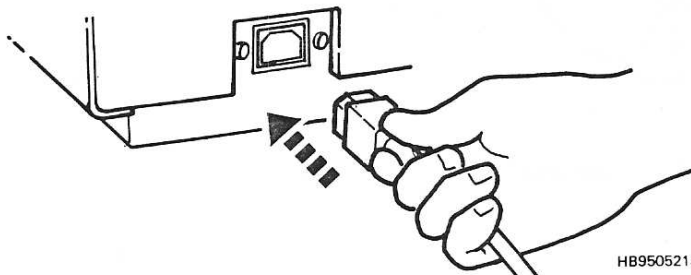


HB9505216

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## 2.6

Insert the power cord into the 5364 System Unit.

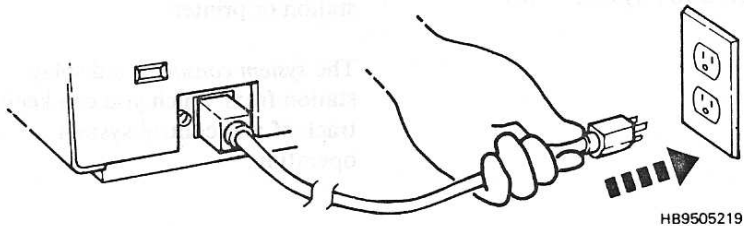


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## 2.7

Plug in the power cord.

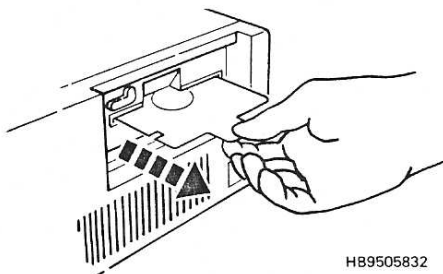


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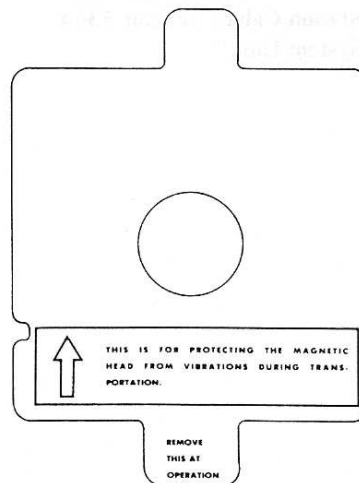
## 2.8

Remove the protective cardboard from the 5364 System Unit diskette drive.



HB9505832

*Note: If the diskette lever is locked, turn the lever to unlock it before removing the cardboard.*



HB9505833

---

## 2.9

Do you have another work station (other than the personal computer used as the system console) to connect to the 5364 System Unit?

*Work station* means display station or printer.

The *system console* is a display station from which you can keep track of and control system operation.

### YES

You have completed this task; continue with Task 3, "Connecting Work Station Cables to Your 5364 System Unit."

### NO

You have completed setting up your computer. Continue with the manual *Installing and Customizing Your System—5364* for the release level you are installing.



## Task 3. Connecting Work Station Cables to Your 5364 System Unit

This task provides instructions for connecting work station cables to your 5364 System Unit.

*Work station* means display station or printer.

If you plan to install Release 3 SSP, do not attach work stations to port 2.

If you plan to install Release 4 SSP, you must install PTF number 04021 before any work stations attached to port 2 will be recognized by the system. (This PTF is on PTF diskettes numbered DK2400 or higher.) You will apply PTFs when you perform your first system configuration.

If you plan to install SSP that is a later release level than Release 4, you do not need PTF 04021 to support work stations attached to port 2.

---

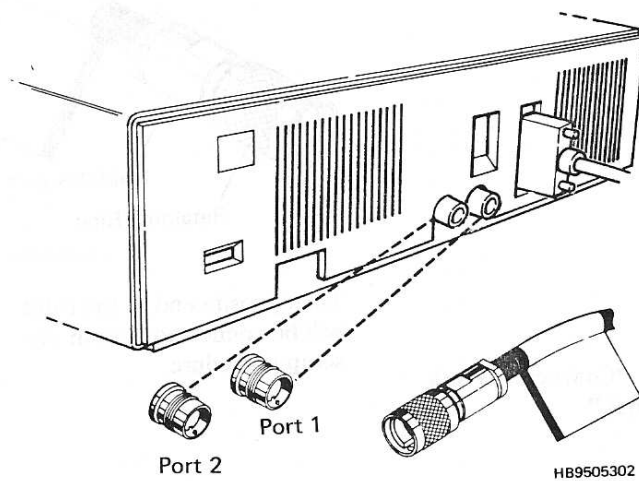
### 3.1

Find the work station cable that connects to the port on the 5364 System Unit.

The *port* is a part of the system unit to which a cable for a display station or printer is attached.

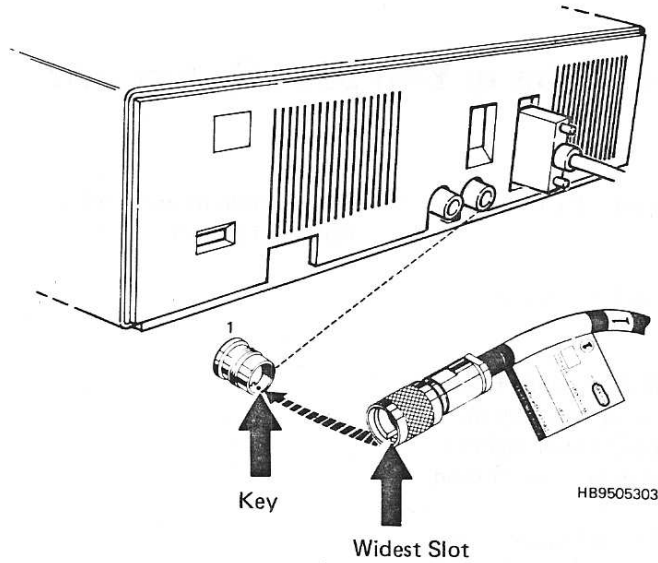
**CAUTION:**

The cables and cable connectors are durable but can be damaged if stepped on or thrown.



### 3.2

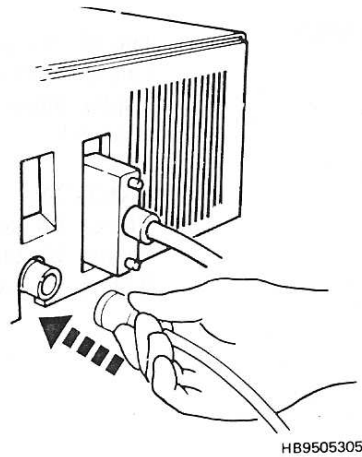
Align the widest slot in the cable connector with the key in the port.



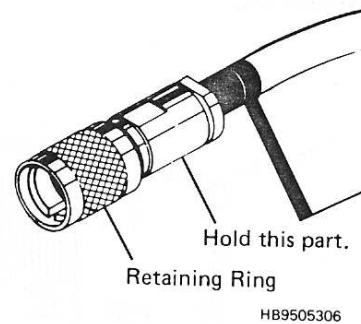
The *key* may be located anywhere along the inside edge of the port.

### 3.3

Push in, hold, and turn the retaining ring to the right until it is tight.



The retaining ring is the part of the cable connector that turns.



**You have completed this task; continue with Task 4, "Connecting Work Station Cables to Your Display Station(s) and Printer(s)."**

The opposite end of the cable will be connected later in the setup procedure.

## Task 4. Connecting Work Station Cables to Your Display Station(s) and Printer(s)

This task describes how to connect cables to your display station(s) or printer(s).

### **CAUTION:**

Avoid connecting cables during an electrical storm.

---

### 4.1

Select the display station or printer you are going to attach to the 5364 System Unit.

You may want to use the manual that came with each display station or printer to help locate the various parts referred to in this section.

Use Form F to guide you when selecting a display station or printer.

---

### 4.2

Set the power switch to O (Off) on the work station you are working with. Unplug the power cord for the work station from the wall outlet.

A *work station* is a display station or printer.

---

### 4.3

Unplug the power cord for the 5364 System Unit from the wall outlet.

---

## 4.4

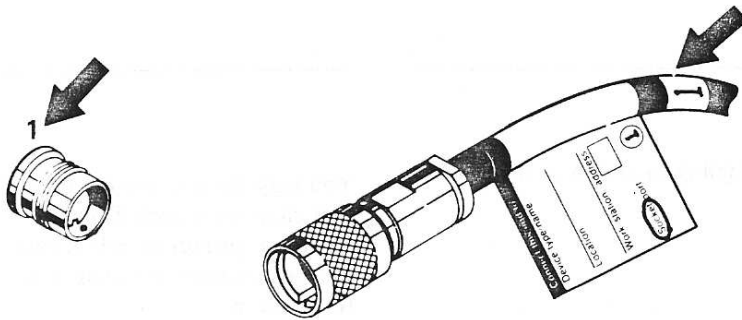
Find socket 1 on the work station you are working with. Socket 1 is where you will connect the cable.

*Note: Certain IBM printers (for instance, the 4214 Model 2, 5224, 5225, 5256, and 5262 Model 1) have arrows instead of numbers to indicate sockets 1 (→ or ↑) and 2 (← or ↓).*

---

## 4.5

Find the cable that will connect to socket 1 on the work station you are working with.



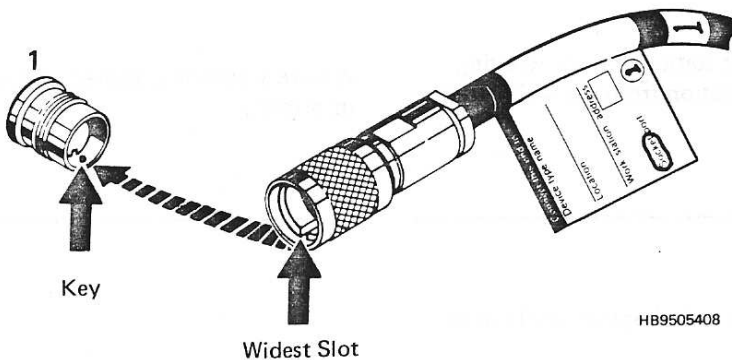
HB9505406

On the 5251 Model 11 Display Station, the cable that attaches to socket 1 passes under the machine from the back to the front.

---

## 4.6

Align the widest slot in the cable with the key in socket 1.

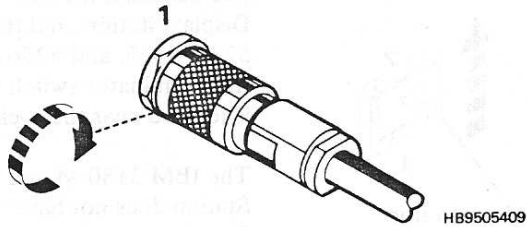


HB9505408

---

## 4.7

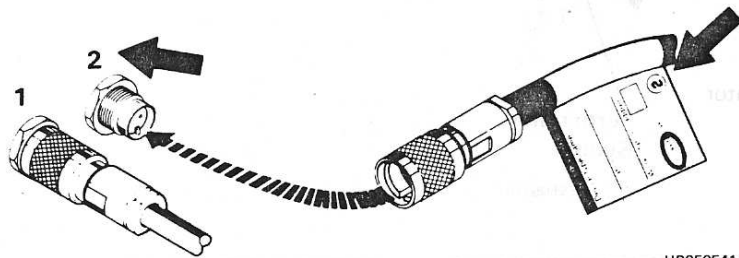
Push in, hold, and turn the retaining ring until it is tight.



---

## 4.8

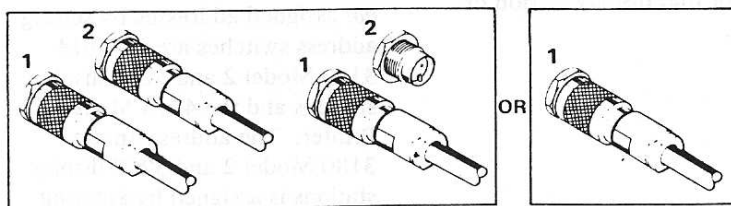
If you are attaching a second display station or printer, connect its cable to socket 2 of the first display station or printer you attached (as shown on Form F).



---

## 4.9

Count the number of sockets on the work station you are working with.

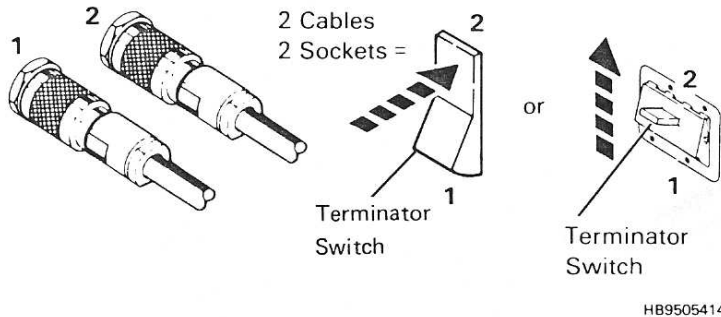


If the work station has **two sockets**, go to step 4.10.

If the work station has **one socket**, go to step 4.11.

## 4.10

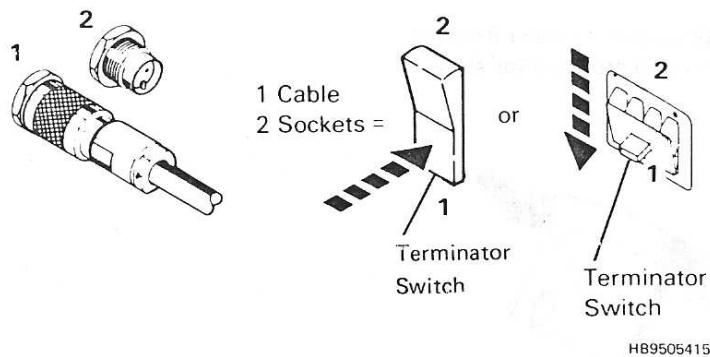
- If **two cables** are connected, set the Terminator switch to 2.



On certain IBM work stations (for instance, the 5251 Model 11 Display Station, and the 5219, 5224, 5225, and 5256 printers), the Terminator switch is blue and is located near the sockets.

The IBM 3180 Model 2 Display Station does not have a Terminator switch. Termination is done automatically when you connect the cables.

- If **one cable** is connected, set the Terminator switch to 1.



## 4.11

Set the address switches for the display station or printer you are working with using the instructions in the setup manual for that display station or printer. Use Form F to determine what the addresses should be. Each display station and printer must be assigned an address. Most display stations and printers are assigned addresses by setting address switches. After you set the address switches for that display station or printer, continue with step 4.12 in this manual.

Form F should have been completed in Task 1, "Getting Ready for Setup."

Some examples of work stations *not* assigned addresses by setting address switches are the IBM 3180 Model 2 and 5292 display stations and the 4214 Model 2 Printer. The address on the 3180 Model 2 and 5292 display stations is assigned by entering the address using the display station keyboard. The address on the 4214 Model 2 Printer is assigned by entering the address using the printer operator panel.

---

## 4.12

Have you connected all the display stations and printers?

**YES**

**You have completed setting up your computer. Set the power switches to | (On) on the display stations or printers you are working with, and continue with the manual *Installing and Customizing Your System—5364* for the release level you are installing.**

**NO**

**Return to the beginning of this task to connect any other display stations and printers.**

There are several ways to connect your computer to the Internet.

112

113

1. To connect to the Internet, you need a modem and a telephone line.

2. You can also connect to the Internet using a cable modem or a DSL line.



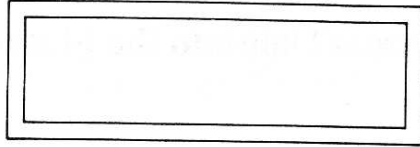
## Appendix A. Installing the 5364 System Unit into the Floor-Standing Enclosure

This appendix provides instructions for installing the 5364 System Unit in the floor-standing enclosure so that the system unit can be conveniently yet securely stored on the floor.

## A.1

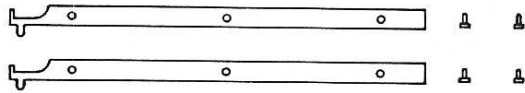
Make sure the floor-standing enclosure has been set up and that you have received the following items with your floor-standing enclosure:

- Front cover



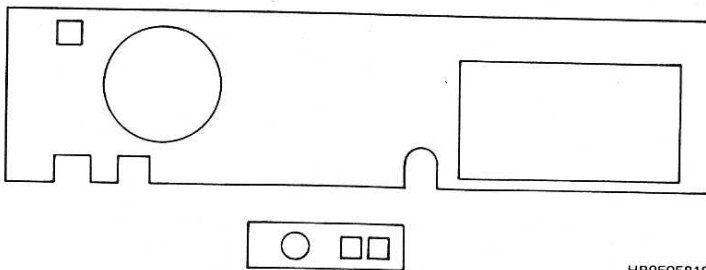
HB9505817

- Two guide rails and four screws



HB9505818

*Note: You also received a back cover, a template, and the Option Installation Instructions. They are not used with a 5364 System Unit.*



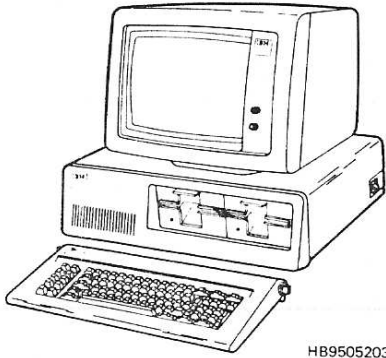
HB9505819

*Note: If you were directed to this appendix from step 1.2 in this manual, go to step A.9.*

---

## A.2

Set the power switch on the personal computer to the O (Off) position.



---

## A.3

Set power switches on all work stations attached to the personal computer to the Off position.

*Work station means display station or printer.*

---

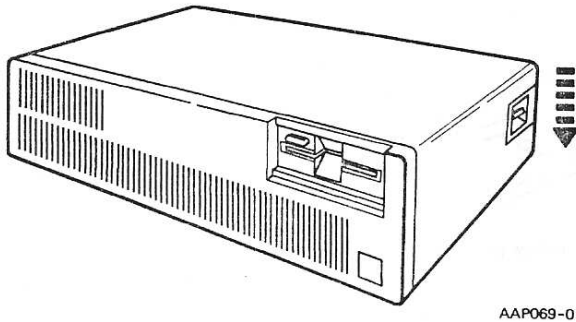
## A.4

Set power switches on all work stations attached to the 5364 System Unit to the Off position.

---

## A.5

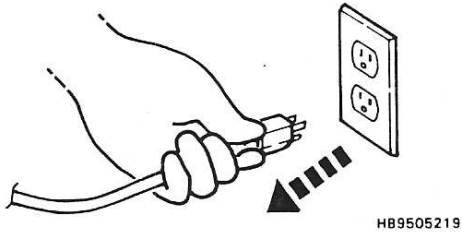
Set the power switch on the 5364 System Unit to the O (Off) position.



---

## A.6

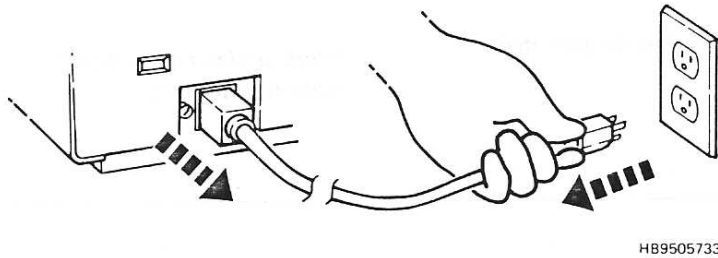
Unplug the personal computer power cord from the wall outlet.



---

## A.7

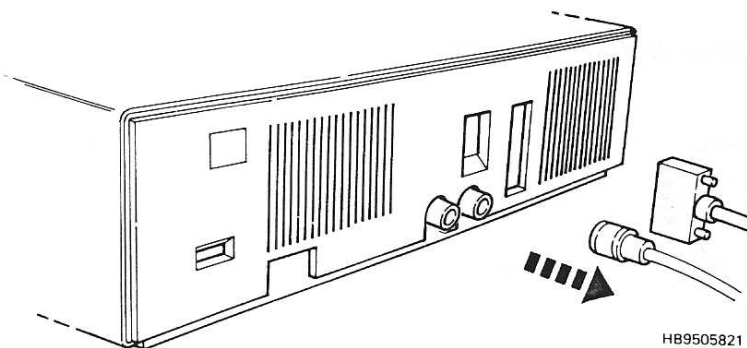
Unplug the 5364 System Unit power cord from the wall outlet and from the rear of the 5364 System Unit.



---

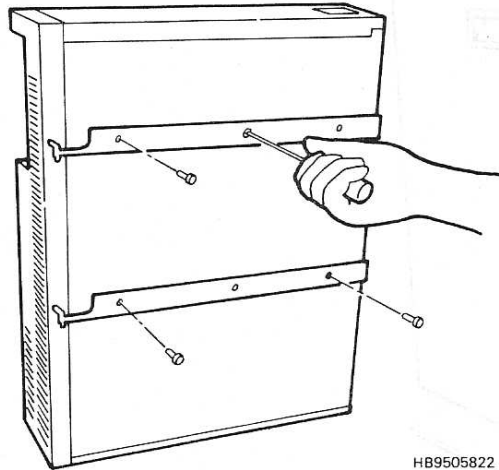
## A.8

Disconnect the expansion cable and the work station cable (if you have one) from the 5364 System Unit.



## A.9

Install the two guide rails on the bottom of the 5364 System Unit by inserting the four screws in the locations shown below.



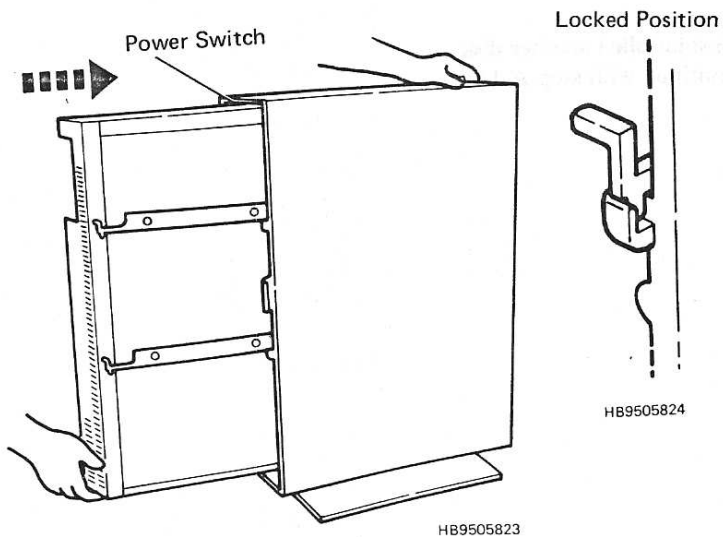
### Safety Precaution

Your 5364 System Unit weighs 26 kilograms (57 pounds). Be careful when you lift it.

Use a flat-blade screwdriver to tighten the screws.

## A.10

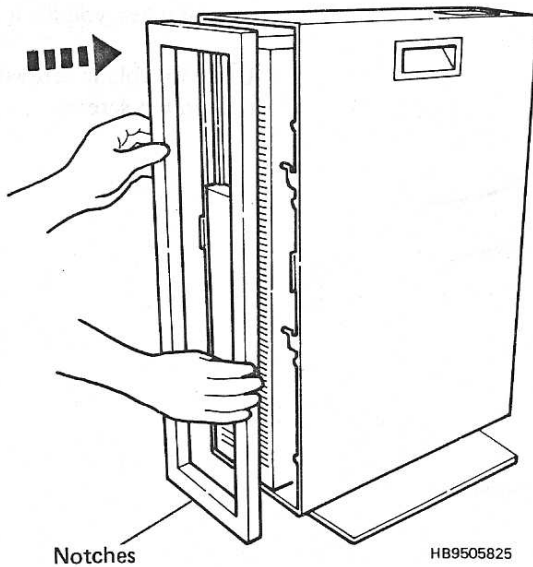
While holding the back of the floor-standing enclosure, align the guide rails and slots and slide the 5364 System Unit into the floor-standing enclosure until the guide rails lock into place.



---

## A.11

Align the notches on the bottom of the front cover and push the front cover into place.



---

## A.12

Select the appropriate path.

If your 5364 System Unit is being set up for the first time, go to step 1.3.

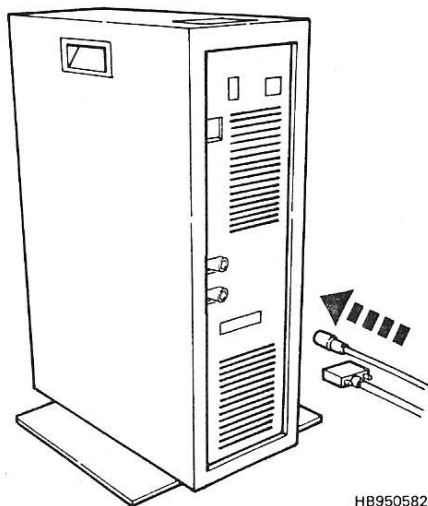
If you just installed another disk drive, continue with step A.13.

If your 5364 System Unit was previously set up, continue with step A.13.

---

## A.13

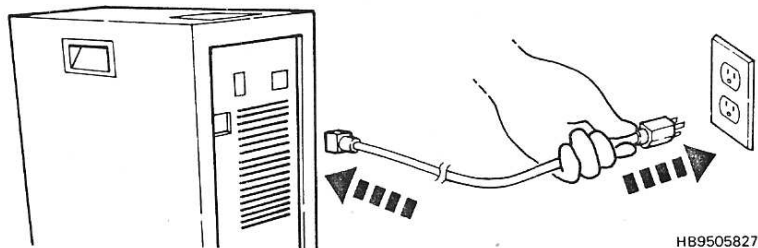
Attach the expansion cable and the work station cable (if you have one) to the 5364 System Unit.



---

## A.14

Plug the 5364 System Unit power cord into the wall outlet and into the 5364 System Unit.

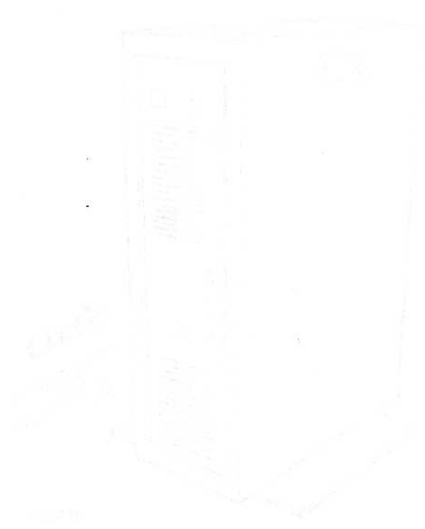


---

## A.15

Plug the personal computer power cord into the wall outlet.

and connect the cables to the ports on the back of the computer.



and connect the cables to the ports on the back of the computer.





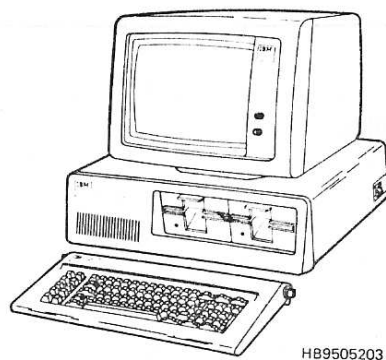
## Appendix B. Removing the 5364 System Unit from the Floor-Standing Enclosure

This appendix describes how to remove the 5364 System Unit from the floor-standing enclosure to make repairs or adjustments to the system unit or to discontinue using the floor-standing enclosure.

---

### B.1

Set the power switch on the personal computer to the O (Off) position.



---

### B.2

Set all power switches on work stations attached to the personal computer to the Off position.

*Work station* means display station or printer.

---

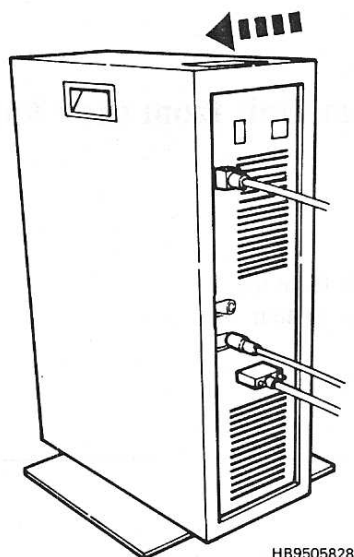
### B.3

Set all power switches on work stations attached to the 5364 System Unit to the Off position.

---

## B.4

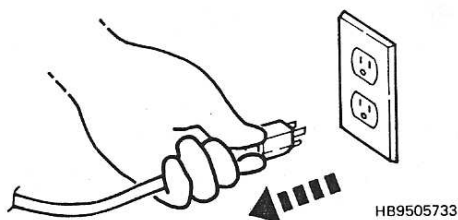
Set the power switch on the 5364 System Unit to the O (Off) position.



---

## B.5

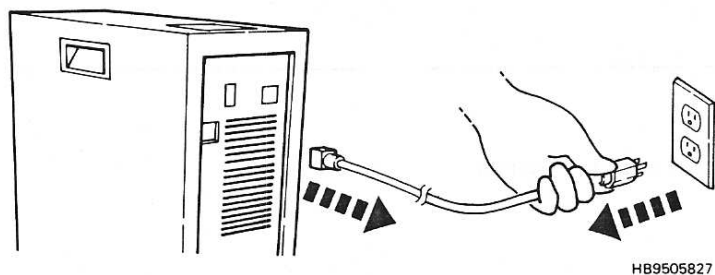
Unplug the personal computer power cord from the wall outlet.



---

## B.6

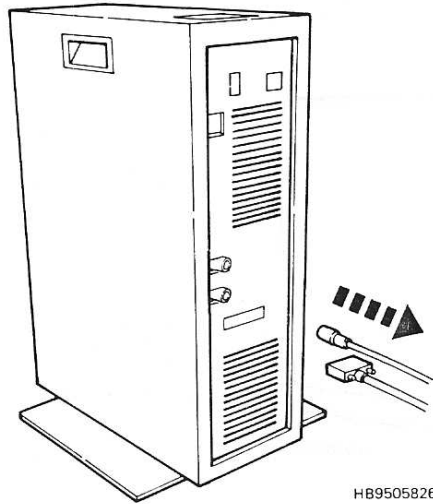
Unplug the 5364 System Unit power cord from the wall outlet and from the rear of the 5364 System Unit.



---

## B.7

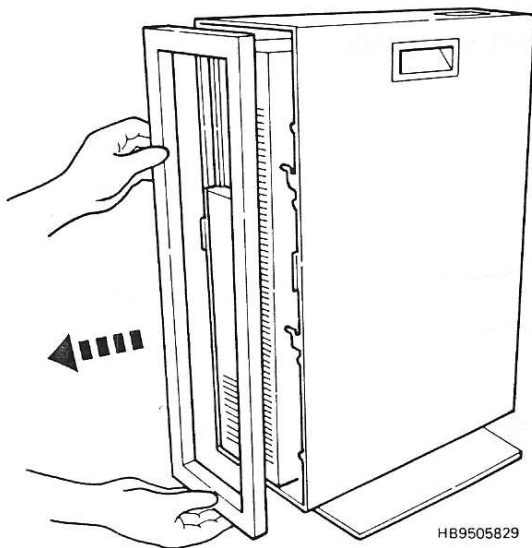
Disconnect the expansion cable and the work station cable (if you have one) from the 5364 System Unit.



---

## B.8

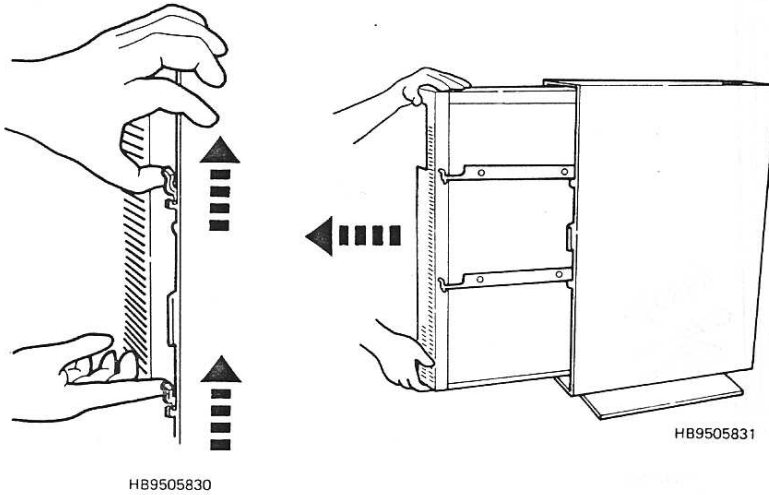
Remove the front cover of the floor-standing enclosure by gripping the notches on the bottom of the front cover and pulling.



---

## B.9

Push up on the guide rails, then slide the 5364 System Unit out of the floor-standing enclosure.



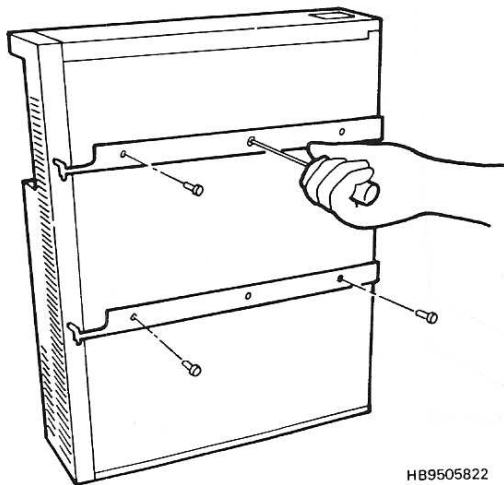
### Safety Precaution:

Your 5364 System Unit weighs 26 kilograms (57 pounds). Be careful when you lift it.

---

## B.10

Remove the two guide rails on the bottom of the 5364 System Unit.



---

## B.11

Are you going to use your 5364 System Unit without the floor-standing enclosure?

YES



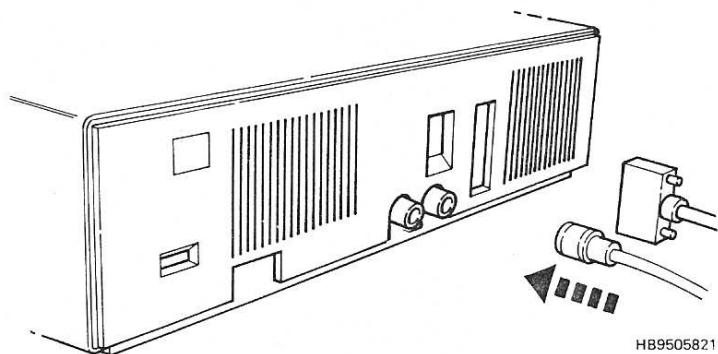
NO

Floor-standing enclosure removal is complete.

---

## B.12

Attach the expansion cable and the work station cable (if you have one) to the 5364 System Unit.



---

## B.13

Plug the 5364 System Unit power cord into the wall outlet and into the 5364 System Unit.

---

## B.14

Plug the personal computer power cord into the wall outlet.



B-1

After you have installed your hard drive, you can format it and install the operating system.

Yes

Format the hard drive and install the operating system.



B-2

Click the hard drive icon and the volume icon in the list of drives in the Disk Management console.



B-3

Right-click the hard drive icon in the list of drives and click Format.

B-4

Click the format button in the Format dialog box.



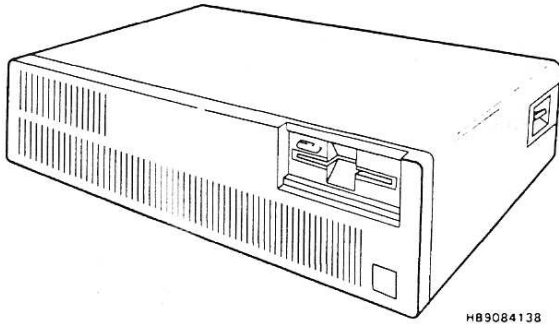
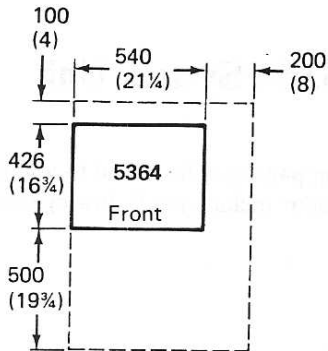
## Appendix C. Physical Specifications for the 5364 System Unit

The physical specifications on the following page may be useful to you as you install your System/36 PC. The specifications include the following information about the 5364 System Unit:

- Size
- Minimum space needed for clearance to service the unit
- Heat output
- Electrical power requirements
- Temperature and humidity limits

# 5364 System Unit

## Plan View



## Specifications

### Dimensions:

	Width	Depth	Height
Millimeters	540	426	162
Inches	21-1/4	16-3/4	6-3/8

### Service Clearances:

	Front	Rear	Right	Left
Millimeters	500	100	200	0
Inches	19-3/4	4	8	0

**Weight:** 26 kg (57 lb)

**Heat Output:** 230 watts  
200 kcal/hr  
800 BTU/hr

### Power Requirements:

Voltage	100-127
	200-240
kVA	0.6
Phase	1
Plug type	H

Plug Type	Receptacle Configuration	Receptacle Number
-----------	--------------------------	-------------------

(H)		5-15R
120 V		
15 A		
Nonlocking		

The power cord is 1.8 meters (6 feet) long in the United States, and 2.3 meters (9 feet) elsewhere.

### Operating Environment:

Temperature, dry bulb: 15 to 32°C (60 to 90°F)  
Relative humidity: 8% to 80%  
Temperature, wet bulb: Maximum of 23°C (73°F)

### Nonoperating Environment:

Temperature, dry bulb: 10 to 43°C (50 to 110°F)  
Relative humidity: 8% to 80%  
Temperature, wet bulb: Maximum of 27°C (80°F)



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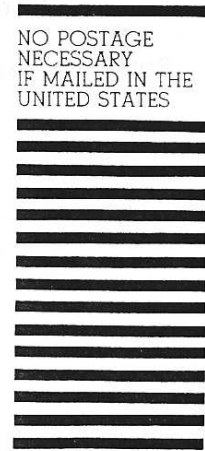
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