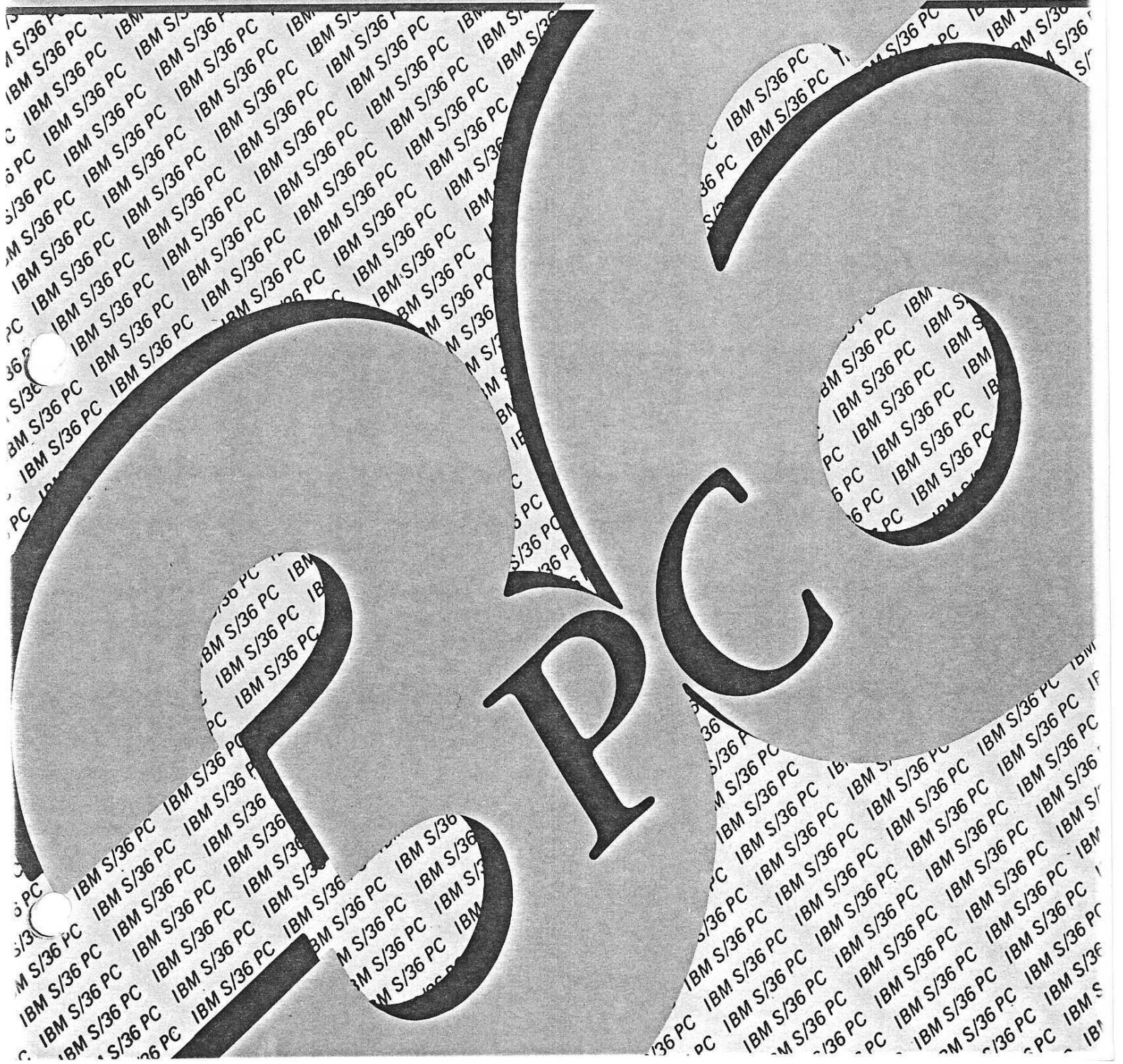
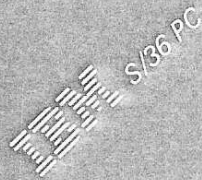


Release 4

Installing and  
Customizing  
Your System 5364







System/36 PC

## Installing and Customizing Your System-5364

File Number  
S36-00

Order Number  
SA21-9881-0

## **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.**

## **First Edition (June 1986)**

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## About This Manual

This manual, *Installing and Customizing Your System—5364*, is the second of three manuals you will use as you install your System/36 PC. This manual contains instructions for installing the microcode. 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 Product (SSP) and other programs you plan to use.

## Who should use this manual . . .

This manual contains step-by-step procedures needed by the person responsible for customizing the System/36 PC and installing microcode. Instructions are also included for checking out your system and printers. No special skills are required.

## How this manual is arranged . . .

Tasks 1 through 6 give instructions for customizing your System/36 PC. Task 7 presents the steps required to load microcode. Task 8 contains procedures for checking out your system and printer(s).

Appendix A contains instructions for installing another disk drive into a computer that is already set up and customized. Appendix B contains information that will help you if you have a problem during installation or customization. Appendix C lists the instructions for responding to system reference codes and indicators during setup and checkout. Appendix D provides instructions for changing emulation defaults to support host graphics.

## What you should know . . .

You should have completed the instructions in the manual *Setting Up Your Computer—5364, SA21-9505*.

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

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

When you have completed installing and customizing your system, read *Performing the First System Configuration for Your System—5364, SC21-9115*.

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<sup>®</sup>

You should also know the following information concerning emulation, the enter key, and handling diskettes.

---

<sup>1</sup> Trademark of IBM.



## Emulation: "The Great Pretender"

The PC display stations and printers that can be used with the 5364 System Unit have somewhat different characteristics from the displays and printers that the System/36 was originally designed to use:

- The keyboards are arranged differently
- The printers have different character sets
- And so forth

To allow these PC devices to work properly with the 5364, the system uses a process called **emulation**, which means that it requires one device (like the PC keyboard) to *imitate* another device (like a 5291 keyboard).

Much of the emulation process is done automatically by the computer, without your even being aware of it. But in some instances, emulation will affect you, the user. For example:

- While you use your personal computer as the system console, you will also be able to use it *at the same time* as a printer control panel and/or as a stand-alone personal computer, by using a "hot key sequence" to switch from one use (or *session*) to another.
- When you use your personal computer as a System/36 display station, the display screen looks somewhat different from the way it looks as a stand-alone personal computer.
- When you enter information from the personal computer into your system, you may need to refer to a keyboard template that shows which keys on your PC keyboard act as the command and function keys needed to use the System/36 programs.
- When you use a PC printer as a System/36 printer, its controls and characteristics may be different from when it is used as a PC printer.

## Emulated Sessions

A session is the period of time that starts when an operator signs on the system and ends when that operator signs off the system.

The personal computer, however, can "pretend" to be more than one device and thus have several sessions in progress at one time. Normally, a personal computer attached to the system acts as a display station, but it can also act as a printer (or, more precisely, as a printer control panel for the PC printer attached to it). It can also be used simply as a stand-alone personal computer, although that is not really a session, because it is not communicating with the system.

You can change between sessions (without signing off and then on again) by typing in a special sequence of keys (that is, a "hot key sequence").

## **Emulated Display Screen**

The screen of a personal computer when it is communicating with a System/36 looks like that of an IBM 5291 Display Station. The screens use 25 lines (the bottom line is a status line) and show 80 characters per line. The displayed information is green on a black background.

## **Emulated Keyboards**

When your personal computer is attached to the System/36, its keyboard normally works like a 5291 keyboard. The command and function key assignments are located as close to the normal 5291 key position as practical for each keyboard style. (If you use the "hot key sequence" to operate the personal computer as a personal computer, the keyboard again works like a personal computer.)

A set of keyboard templates to help you find the right keys is included in the package with this manual and the 5364 System Unit.

## **Emulated Printers**

When any PC printer is used as a System/36 printer, it normally "looks like" an IBM 5256 Printer to the system unit, and it is controlled from the PC display as an emulated session.

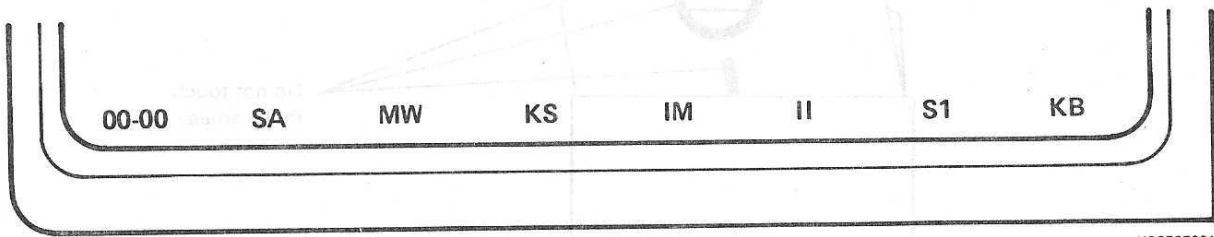
Some of the PC printers (NEC 3550, IBM 5216, IBM 5182) can, if you choose, "look like" an IBM 5219 Printer instead of a 5256. (However, you choose just one printer type to emulate; it takes several steps to switch back and forth between 5256 and 5219.)

## A Note about the Enter Key

When you load the System/36 attachment programs (later in this manual), an Enhanced 5250 Emulation Program is one of the programs loaded. The Enhanced 5250 Emulation Program allows the personal computer to emulate, or imitate, 5250 display stations and printers.

The Enhanced 5250 Emulation Program contains defaults (choices stored in the system that are used when you do not make a choice). The default for keyboard style is a 5250 keyboard. You can use the default enter key or choose another key to be the assigned enter key.

You will be instructed at times in this manual to press the assigned enter key. The assigned enter key is used when the personal computer acts as a system console for the System/36 and *may not* be the same as the PC enter key. When the following status indicators appear at the bottom of your display screen, the assigned enter key (and all other keys) will depend on what style keyboard you choose in the Enhanced 5250 Emulation Program (later in this manual):



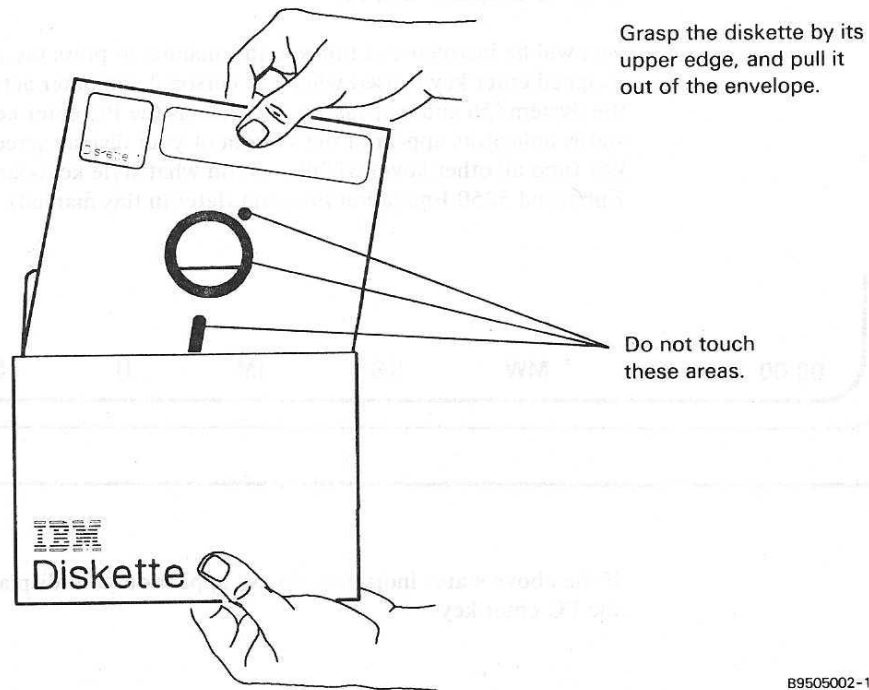
HB9505001

If the above status indicators do not appear on your display screen, the enter key is the PC enter key.

## Handling a Diskette

IBM diskettes are designed to take the stress of normal and frequent handling. However, there are some precautions that you should note as you handle your diskettes. If you follow these precautions carefully, your diskettes will last longer.

The proper way to remove a diskette from its protective envelope is shown in the following illustration.

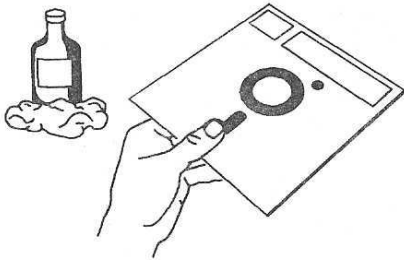


B9505002-1

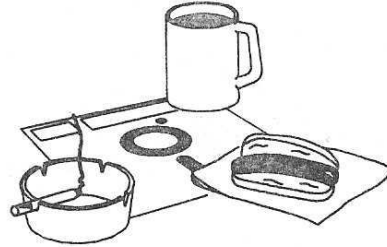
Be sure to keep the protective envelope and return the diskette to the envelope every time you remove the diskette from the diskette drive. A diskette drive is the mechanism used to read and write information on diskettes. As its name implies, the protective envelope is provided to help prevent damage to the diskette. Damage to a diskette can cause problems that range from occasional reading and writing errors to a permanent loss of the information on the diskette.

When a diskette is damaged or not handled properly, the information on that diskette can be lost or altered. The following paragraphs and illustrations point out some of the more common handling mistakes. These mistakes are almost always the result of not being careful. Diskettes are not, in themselves, costly; but the information they contain can be very costly if it is lost.

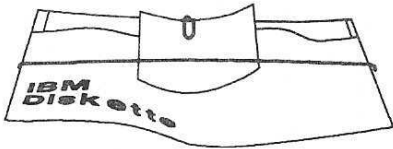
**Do not** touch or attempt to clean a diskette surface. A contaminated diskette will not work correctly.



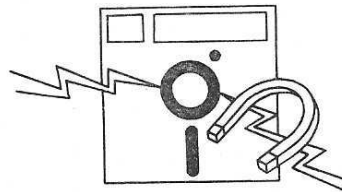
**Do not** lay a diskette near smoke or other things that can cause the diskette to be contaminated.



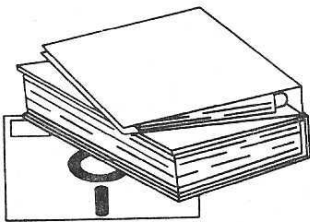
**Do not** use clips or rubber bands on a diskette.



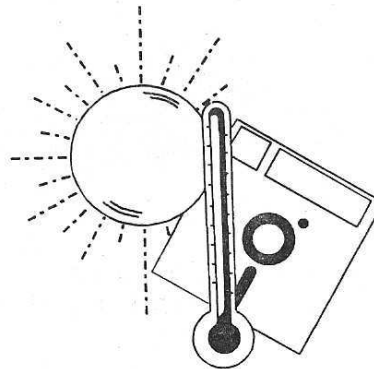
**Do not** place a diskette near magnetic materials. Data can be lost from a diskette exposed to a magnetic field.



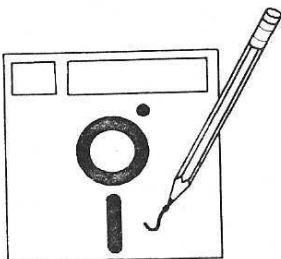
**Do not** place heavy books on a diskette.



**Do not** expose diskettes to heat greater than 51.5°C (125°F) or to direct sunlight.



**Do not** write outside the label area on a diskette and only write on the label with a felt-tip pen.



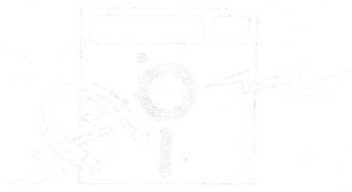
The not... to clean a diskette...  
The not... to clean a diskette...



The not... to clean a diskette...  
The not... to clean a diskette...



The not... to clean a diskette...  
The not... to clean a diskette...



The not... to clean a diskette...  
The not... to clean a diskette...



The not... to clean a diskette...  
The not... to clean a diskette...



The not... to clean a diskette...  
The not... to clean a diskette...



The not... to clean a diskette...  
The not... to clean a diskette...



## Task 1. Preparing to Customize Your System

This task outlines what you need before you can begin customizing your 5364 System Unit. It also instructs you how to power on the System/36 PC.

Before you begin this task, make sure of the following:

- You have completed the instructions in the manual *Setting Up Your Computer—5364, SA21-9505*.
- The personal computer is set up according to the instructions in the *IBM Personal Computer Guide to Operations*.
- You are familiar with the steps necessary to start the Disk Operating System (DOS) program. See "Getting DOS Started" in the *IBM Personal Computer Disk Operating System Guide to Operations* for information about what must be done to load the DOS program.

---

## 1.1

Make sure you have the following items available before you begin to install and customize:

- Diskettes:
  - DOS (level 3.1 or higher)
  - PC DSKT 01
  - PC DSKT 02
  - PC DSKT 03
  - PC DSKT 04
  - MCODE DSKT 11 (Program 5727-SS6)
  - MCODE DSKT 12 (Program 5727-SS6)
  - Blank 2D (double density) diskettes for the personal computer
  
- PC publications:
  - *IBM Personal Computer Guide to Operations*
  - *IBM Personal Computer Disk Operating System Guide to Operations*
  
- System/36 5364 publications:
  - *Preparing to Install Your Work Stations—5364*, SA21-9845, or *System/36 PC Buyer's Guide*, GC21-9144
  - *Preparing for Data Communications—5364*, SA21-9844 (if installing data communications)
  - *Operating Your Computer—5364*, SC21-9085
  - *Performing the First System Configuration for Your System—5364*, SC21-9115
  - *System Messages*, SC21-7938
  
- Keyboard templates

Diskettes with **gray** labels are used in the personal computer. Diskettes with **white** labels are used in the 5364 System Unit.

Remove the write-protect tape from **all** 5364 diskettes. *Write-protect tape* is a small piece of tape on the right edge of the diskettes, wrapped front to back. If this tape is present, it must be removed.

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

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

Store all reference manuals near your system for easy access during daily system operation.



---

## 1.2

Choose the keyboard layout for your System/36 PC. You can use either the keyboard template or the stick-on keytop labels to indicate System/36 functions on your personal computer keyboard.

If you are not sure which template to use, the following are recommended for initial use:

- For an IBM Personal Computer or IBM Personal Computer XT, use the template *5250 Emulated in 5291 Style on a PC Keyboard*.
- For an IBM Personal Computer AT, use the template *5250 Emulated in 5250 Style on a PC AT Keyboard*.

Place the keyboard template above the top row of keys on the personal computer keyboard. When you feel comfortable with the System/36 keyboard layout you have selected, apply the stick-on labels, using the instructions provided.

---

## 1.3

Does the personal computer have at least 256K of storage (or 320K, if personal computer applications are to be run concurrently with the 5364)?

If you do not know, insert the DOS diskette into the personal computer and use the CHKDSK command.

**If your personal computer has only 256K**, the Session Selection menu will only show options 2 and 3. Also, you should not create the autoexec procedure during the setup function.

YES



NO

You need a minimum of 256K of storage on the personal computer. If personal computer applications are to be run concurrently with the 5364, you will need at least 320K. See the *IBM Personal Computer Guide to Operations* for information about increasing storage size before continuing with the next step.

More storage will be required for some personal computer applications.

---

## 1.4

Does the personal computer have more than 640K of storage?

**YES**

You cannot have storage greater than 640K. See the *IBM Personal Computer Guide to Operations* for information about changing storage size.

**NO**



---

## 1.5

Have you installed additional work stations (other than the personal computer that acts as the system console)?

**YES**

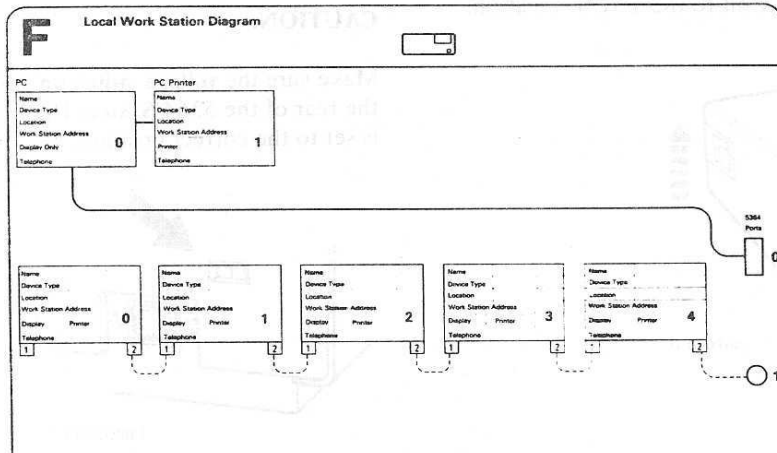


**NO**

Go to step 1.8.

## 1.6

Do you have a completed copy of Form F?



YES



NO

Form F should have been completed using *Preparing to Install Your Work Stations—5364, SA21-9845*. (This is the same form that was used in the manual *Setting Up Your Computer—5364*.)

Complete the form and continue with the next step.

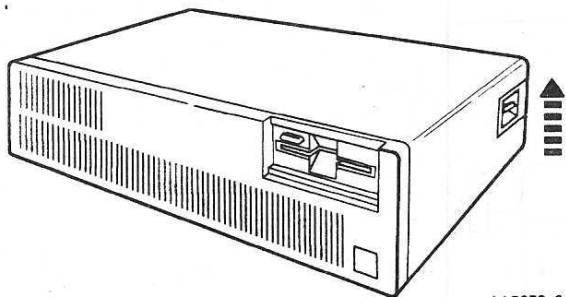
## 1.7

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

---

## 1.8

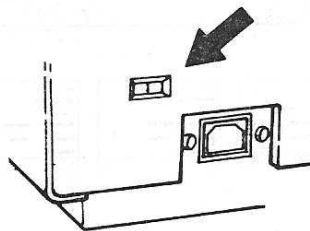
Set the power switch on the 5364 System Unit to the | (On) position.



AAP070-0

### CAUTION:

Make sure the **voltage switch** on the rear of the 5364 System Unit is set to the correct position.

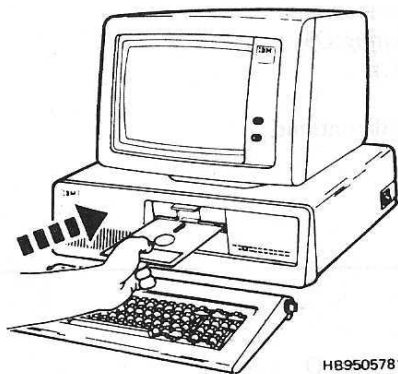


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---

## 1.9

Insert the DOS diskette into the PC diskette drive A (unless you already have DOS on PC disk). Close the diskette drive lever.



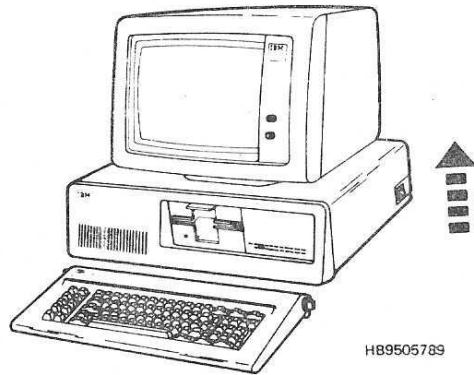
HB9505781

The DOS diskette must be inserted with the label positioned as shown.

---

## 1.10

Set the power switch on the personal computer to the | (On) position.



If you have a PC printer, set its power switch to the | (On) position at this time also.

**You have completed this task; continue with Task 2, "Getting Ready to Load the System/36 Attachment Programs."**

This will IPL (initial program load) the personal computer. The system will prompt you for the time and date. To continue, you can enter the time and the date or press the PC enter key. The DOS prompt will appear on the PC display screen.

The system will be installed in the home office. The system will be used for all business transactions. The system will be used for all business transactions. The system will be used for all business transactions.

Get a power supply for the system. The power supply should be at least 300W.



It is important to check the power supply for the system. The power supply should be at least 300W.

The system should be installed in a cool, dry place. The system should be installed in a cool, dry place.

## Task 2. Getting Ready to Load the System/36 Attachment Programs

The System/36 attachment programs, contained on PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04, run in the personal computer and exchange information with the 5364 System Unit. They also contain the Enhanced 5250 Emulation Program, which will be discussed later in this task. In this task, you will copy these programs to working diskettes or, if your personal computer has a disk drive, to a PC disk. If you copy the attachment programs to working diskettes, your system will be a **diskette-based system**. If you copy the attachment programs to a PC disk, your system will be a **disk-based system**.

---

### 2.1

Select the appropriate path to load the System/36 attachment programs.

If you are going to make your system **diskette-based** (that is, copy the System/36 attachment programs to diskettes), continue with the next step.

If you are going to make your system **disk-based** (that is, copy the System/36 attachment programs to a PC disk), go to step 2.4.

After you have copied the attachment programs to diskettes or to a PC disk, they will be loaded into the personal computer each time you turn on the System/36 PC (and insert the diskette into the diskette drive, if your system is diskette-based).

---

## 2.2

### To make a diskette-based system:

A working copy is a copy of the original PC diskette with the DOS system files added. You will use the working copies of PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04 for setup and save the original PC diskettes as backup copies.

Do the following to make working copies of PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04:

1. Make sure the DOS diskette is in diskette drive A. Enter the following: `DISKCOPY A: B:`  
and press the PC enter key. Remove the DOS diskette.
2. Insert PC DSKT 01 (the *source* diskette) and a blank diskette (the *target* diskette) as prompted by the system. The blank diskette will be formatted during the copy procedure.
3. When copying is complete, remove the target diskette and label it **WORKING PC DSKT 01**. Remove the source diskette, the original PC DSKT 01, and save it as the backup copy.

When making working copies of PC diskettes, you must use 2D diskettes.



4. The system will ask if you want to copy another diskette. Select the Y (Yes) option.
5. Repeat items 2 through 4, using PC DSKT 02 and PC DSKT 03 as the source diskettes and new, blank diskettes as the target diskettes. When copying is complete, remove the target diskettes and label them appropriately (WORKING PC DSKT 02 and WORKING PC DSKT 03).
6. Repeat items 2 and 3, using PC DSKT 04 as the source diskette and a new, blank diskette as the target diskette. Label this diskette WORKING PC DSKT 04.
7. The system will ask if you want to copy another diskette. Select the N (No) option.
8. Insert the DOS diskette into diskette drive A. (If you have two diskette drives, insert WORKING PC DSKT 01 into diskette drive B.)

Enter the following: SYS B:

and press the PC enter key.

*Note: If you have one diskette drive on your personal computer, you will be prompted for the diskettes. Insert WORKING PC DSKT 01 when prompted Insert diskette for drive B:.. Insert the DOS diskette when prompted Insert diskette for drive A:.*

9. Make sure the DOS diskette is in diskette drive A. (If you have two diskette drives, insert the WORKING PC DSKT 01 into diskette drive B.)

Enter the following: COPY A:COMMAND.COM B:

and press the PC enter key.

*Note: If you have one diskette drive on your personal computer, insert WORKING PC DSKT 01 when prompted Insert diskette for drive B:.. Insert the DOS diskette when prompted Insert diskette for drive A:.*

10. Repeat items 8 and 9, using WORKING PC DSKT 03 in place of WORKING PC DSKT 01.

11. Insert WORKING PC DSKT 01 into the diskette drive A.

If your personal computer attached to the 5364 System Unit has a U.S. English keyboard, go to step 2.7.

If your personal computer attached to the 5364 System Unit *does not* have a U.S. English keyboard, continue with the next step.

A *U.S. English* keyboard has keys written in the English language.

---

## 2.3

Enter the following commands:

*Note: If your personal computer has one diskette drive, the system will repeatedly prompt you for diskettes in the following steps. Use your DOS diskette created by the SELECT command as the drive A diskette and WORKING PC DSKT 01 as the drive B diskette. To start, place the DOS diskette in the PC diskette drive.*

1. COPY A:CONFIG.SYS B:

and press the PC enter key.

2. COPY A:KEYBxx.COM B:

(where xx is the DOS country-specific keyboard code)

*Note: If you do not know the DOS country-specific keyboard code, enter:*

```
DIR A:KEYB*.COM
```

*for a listing of the codes.*

3. REN B:AUTOEXEC.BAT AUTOEXEC.TMP

and press the PC enter key.

4. COPY A:AUTOEXEC.BAT+B:AUTOEXEC.TMP B:AUTOEXEC.BAT

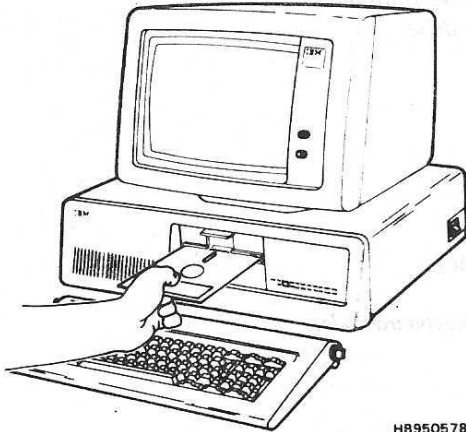
and press the PC enter key.

Insert WORKING PC DSKT 01 into diskette drive A. Go to step 2.7.

## 2.4

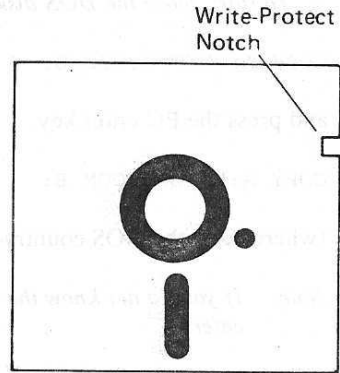
### To make a disk-based system:

Insert PC DSKT 01 into the PC diskette drive A.



HB9505781

Do not cover the write-protect notch on the diskette because information is written to the diskette during setup.



HB9505834

If your personal computer attached to the 5364 System Unit *does not* have a U.S. English keyboard, continue with the next step.

If your personal computer attached to the 5364 System Unit has a U.S. English keyboard, go to step 2.6.

---

## 2.5

To copy the files from PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04 to the disk drive if you do **not** have a U.S. English keyboard:

1. Enter the following command:

```
REN C:\AUTOEXEC.BAT AUTOEXEC.TMP
```

and press the PC enter key.

2. Enter the following command: A:

and press the PC enter key.

3. Enter the following command to copy the files from PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04 to the disk drive:

```
S36SETUP A: C: /A
```

and press the PC enter key. An AUTOEXEC.BAT file is built.

4. A System/36 subdirectory will be created and the files from PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04 copied to it. If you already have a System/36 subdirectory, the system renames the previous subdirectory and creates a new System/36 subdirectory.

5. The system will prompt you to insert the other PC diskettes.

6. Enter the following command:

```
REN C:\AUTOEXEC.BAT AUTOEXEC.S36
```

and press the PC enter key.

7. Enter the following command:

```
COPY C:\AUTOEXEC.TMP+C:\AUTOEXEC.S36 C:\AUTOEXEC.BAT
```

and press the PC enter key.

8. Continue with step 2.7.

---

## 2.6

To copy the files from PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04 to the disk drive if you have a U.S. English keyboard:

1. Enter the following command: A:  
  
and press the PC enter key.
2. Enter one of the following commands to copy the files from PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04 to the disk drive:

If you want the System/36 attachment programs automatically started when you power on the system, enter this command:

```
S36SETUP A: C: /A
```

An AUTOEXEC.BAT file is built.

If you want a DOS prompt to appear when you power on the system, enter this command:

```
S36SETUP A: C: /NA
```

(Whenever you want to start the System/36 attachment programs, you must enter:

```
S36
```

at the DOS prompt.)

Commands can be entered in upper- or lowercase.

You might want to transfer the files from PC DSKT 01 to a disk drive other than C. If so, use the destination disk drive you want. For example, instead of C:, use D:.

3. Press the PC enter key.  
  
A System/36 subdirectory will be created and the files from PC DSKT 01, PC DSKT 02, PC DSKT 03, and PC DSKT 04 copied to it.
4. The system will prompt you to insert the other PC diskettes.

---

## 2.7

When the System/36 attachment programs are loaded (you will load the System/36 attachment programs in an upcoming step), an Enhanced 5250 Emulation Program is loaded automatically and it contains the following defaults:

- Two emulated sessions
  - **Session 1** emulates a display station session (system console).
  - **Session 2** emulates a 5256 Printer session.
- 5250 style keyboard
- IBM PC Graphics Printer

If you do not want to use the default emulation options (for instance, when you want to change defaults for 5250 emulation or you want to use graphics support), you can change the defaults for the emulation program.

Do you want to change the defaults for the emulation program?

**YES**

**You have completed this task.**

**If you want to keep enhanced 5250 emulation but would like to change the enhanced 5250 emulation options, continue with Task 3, "Changing the Defaults for 5250 Emulation." If you want to use host graphics support, you must change the emulation options using Appendix D, "Changing Emulation Options for Host Graphics Support."**

**NO**

**You have completed this task; go to Task 4, "Loading the System/36 Attachment Programs."**

---

The Enhanced 5250 Emulation Program allows the personal computer to emulate 5250 display stations and printers. *Defaults* are options already assigned by the system or device.

*Emulated* means imitated; for example, an imitated computer or device.

*Session* means the length of time that starts when an operator signs on the system and ends when that operator signs off the system.

For more information on emulation, see "About This Manual."





## Task 3. Changing the Defaults for 5250 Emulation

This task provides instructions for changing the defaults, or currently assigned options, for the Enhanced 5250 Emulation Program.

### 3.1

Select the appropriate path:

If you are making a **disk-based** system, enter the following command:

```
CD \S36
```

and continue with step 3.2.

If you are making a **diskette-based** system, then make sure PC DSKT 02 is in PC diskette drive A and continue with step 3.2.

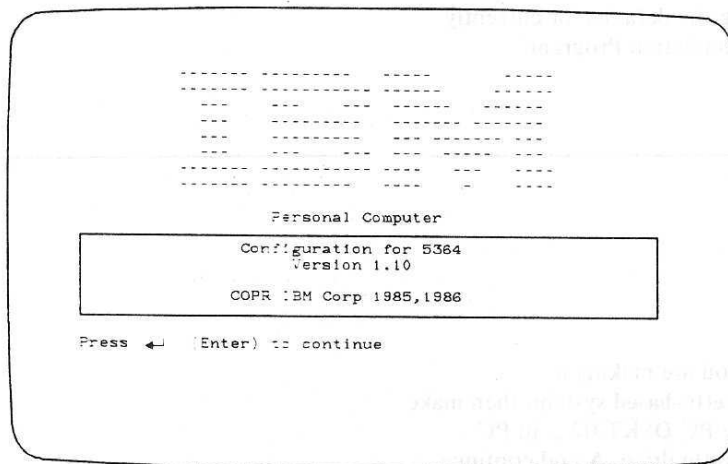
## 3.2

Enter:

CONFIG

and press the PC enter key.

Is the following information displayed on the personal computer after about 20 seconds?



AAP001-0

**YES**

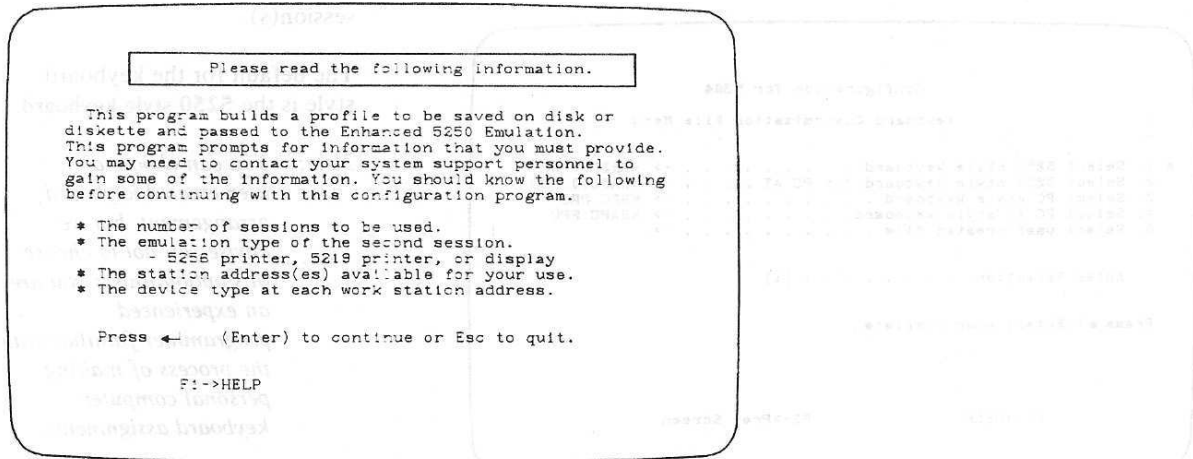
Press the PC enter key and then continue with step 3.3.

**NO**

Refer to Appendix B, "Responding to System Problems."

### 3.3

The following information appears after about 15 seconds:

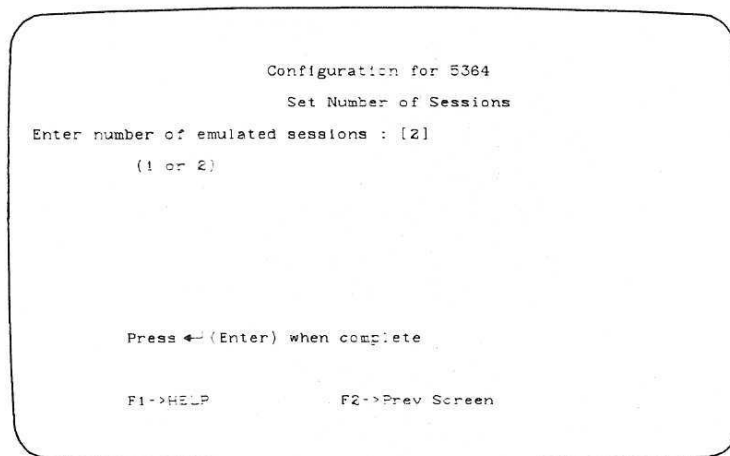


AAPO02-0

After you have read the above information, press the PC enter key.

### 3.4

The following display appears:



AAPO03-0

Enter the number of emulated sessions (1 or 2) and press the PC enter key.

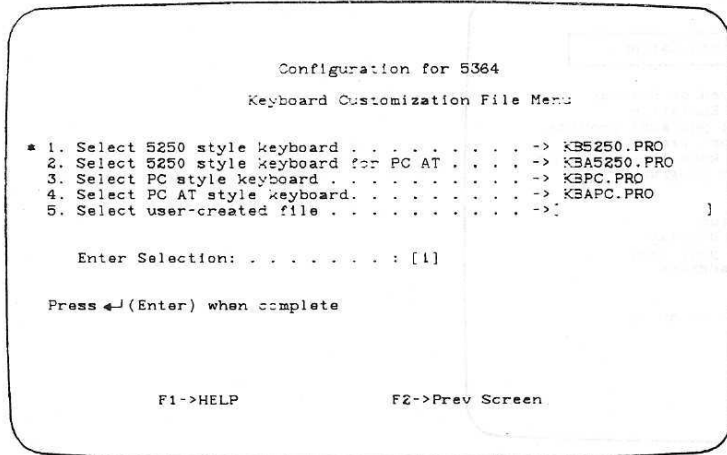
The *number of emulated sessions* can be either 1 or 2. If you specify 1, the session will be as a display station (used as the system console). If you specify 2, you will also need to specify what device you want to emulate in the second session.

The system automatically assigns some options for you called *defaults*. The default appears in the selection position on the emulation displays. If you wish to choose the default on a display, press the PC enter key only.

The default for the number of emulated sessions is 2.

## 3.5

The following display appears:



AAP004-0

Select the style of keyboard you want and press the PC enter key.

If you selected emulated session 1 in step 3.4, go to step 3.10. If you selected emulated session 2 in step 3.4, continue with the next step.

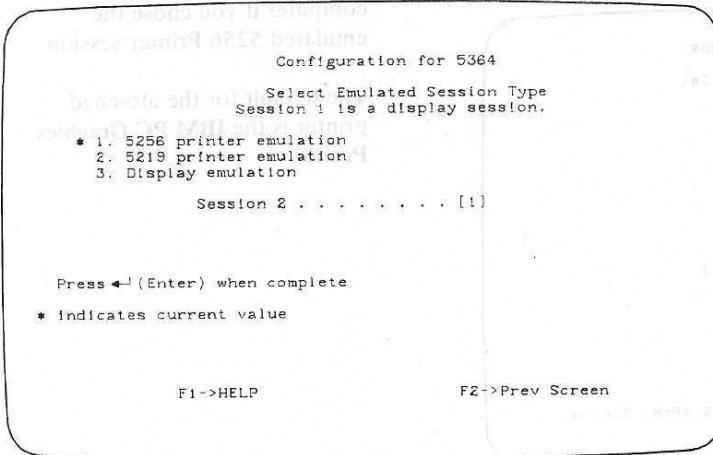
*Keyboard style* describes which keyboard style you want to emulate for your display session(s).

The default for the keyboard style is the **5250 style keyboard**.

*Note:* You can choose a user-created keyboard arrangement, but we advise you not to choose this option unless you are an experienced programmer familiar with the process of making personal computer keyboard assignments.

### 3.6

The following display appears:



AAPO05-0

The default for session 2 is the **5256 Printer**.

If printer emulation was not decided when you ordered your system, your IBM marketing representative or your IBM-approved remarketer can explain why you would choose to emulate one printer or the other.

Select what you want to emulate for session 2 and press the PC enter key.

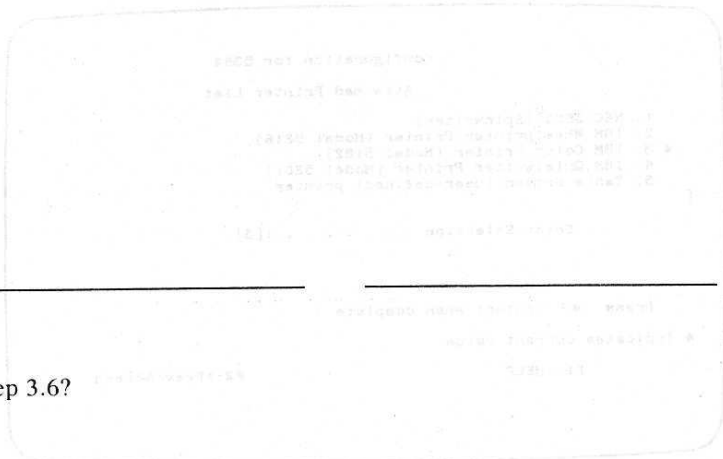
*Note: You can only emulate a 5219 Printer if you have one of these personal computer printers installed: NEC 3550, IBM 5216, or IBM 5182.*

Did you select option 1 for the above display?

YES

Go to step 3.8

NO



### 3.7

Did you select option 2 for the display in step 3.6?

YES

Go to step 3.9.

NO

Go to step 3.10.

### 3.8

The following display appears:

```
Configuration for 5364
Attached Printer List
* 1. IBM PC Graphics Printer
  2. IBM PC Matrix Printer
  3. IBM Proprinter
  4. NEC 3550 (Spinwriter)
  5. IBM Wheelprinter Printer (Model 5216)
  6. IBM Color Printer (Model 5182)
  7. IBM Quietwriter Printer (Model 5201)
  8. Table driven (user-defined) printer
[
Enter Selection . . . . . : [1]

Press ← (Enter) when complete
* indicates current value
F1->HELP                               F2->Prev Screen
```

AAP006-0

*Attached printer for 5256 emulation* is the printer you have attached to the personal computer if you chose the emulated 5256 Printer session.

The default for the attached printer is the **IBM PC Graphics Printer**.

Select the appropriate printer and press the PC enter key. Go to step 3.10.

### 3.9

The following display appears:

```
Configuration for 5364
Attached Printer List
1. NEC 3550 (Spinwriter)
2. IBM Wheelprinter Printer (Model 5216)
* 3. IBM Color Printer (Model 5182)
4. IBM Quietwriter Printer (Model 5201)
5. Table driven (user-defined) printer
[
Enter Selection . . . . . : [3]

Press ← (Enter) when complete
* indicates current value
F1->HELP                               F2->Prev Screen
```

AAP007-0

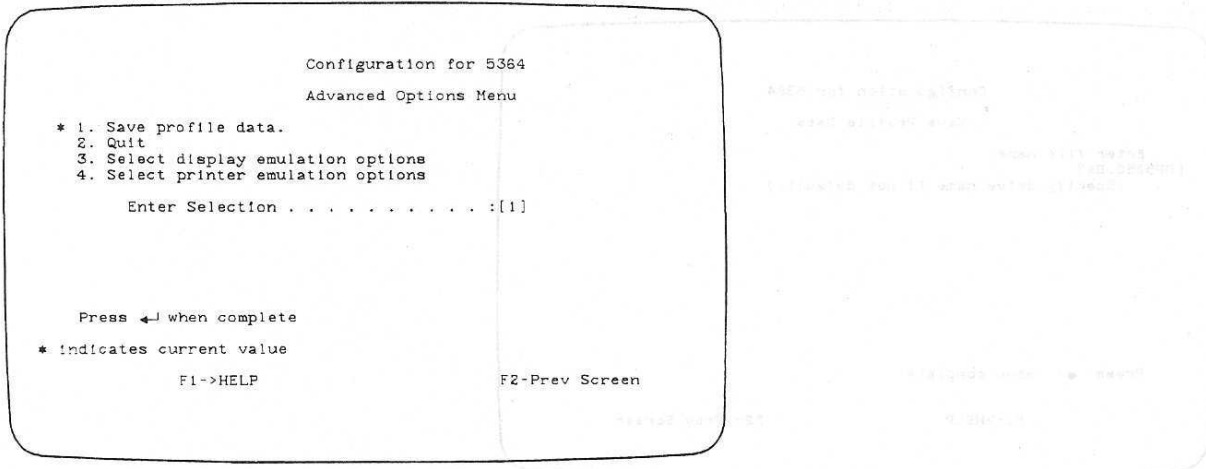
*Attached printer for 5219 emulation* is the printer you have attached to the personal computer if you chose the emulated 5219 Printer session.

The default for the attached printer is the **IBM Color Printer (Model 5182)**.

Select the appropriate printer and press the PC enter key.

### 3.10

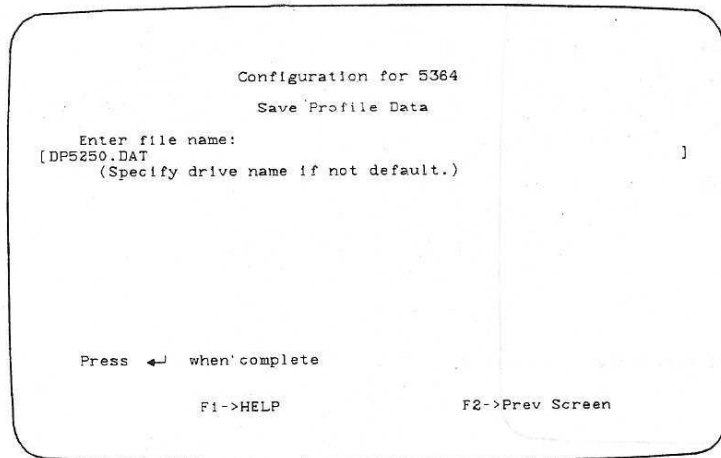
The following display appears:



Select option 1 and press the PC enter key.

### 3.11

The following display appears:



AAP009-0

*Note: If you transferred the files from PC DSKT 01 to a disk drive other than C in step 2.3, you must specify the destination disk drive at the prompt on the display. For instance, if you used D instead of C, type:*

D:DP5250.DAT

*at the prompt in place of DP5250.DAT.*

Press the PC enter key.



---

### 3.12

Select the appropriate path:

If you are making a **disk-based** system, you have completed this task. Continue with **Task 4, "Loading the System/36 Attachment Programs"**.

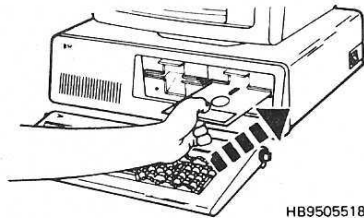
If you are making a **diskette-based** system and your personal computer has **two diskette drives**, continue with the next step.

If you are making a **diskette-based** system and your personal computer has **one diskette drive**, go to step 3.14.

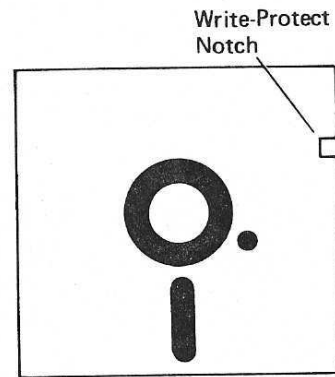
---

### 3.13

Insert WORKING PC DSKT 01 into PC diskette drive B.



Do not cover the write-protect notch on the diskette because information is written to the diskette during setup.



### 3.14

Enter the following command:

COPY DP5250.DAT B:

*Note:* If you have **one** diskette drive, you will be prompted to insert the diskette for drive B. Insert **WORKING PC DSKT 01** in the diskette drive.

Press the PC enter key.

**You have completed this task; continue with Task 4, "Loading the System/36 Attachment Programs."**



## Task 4. Loading the System/36 Attachment Programs

This task provides instructions for loading the System/36 attachment programs.

### 4.1

If you have PC PTF diskettes, go to *Operating Your Computer—5364* and install them now. Return here after the PC PTF diskettes have been applied.

Whether you have installed PC PTF diskettes or not, IPL the system again using the following instructions.

#### IPL Instructions

1. If your System/36 attachment programs are on a PC disk, continue with item 2.

If your System/36 attachment programs are on diskette, insert **WORKING PC DSKT 01** (or **WORKING PC DSKT 03** if you have configured for host graphics support) into PC diskette drive A.

2. Press and hold the Alt and Ctrl keys, then press the Del key. (If a warning message is displayed, repeat this key sequence.)

## 4.2

If you have a diskette-based system, make sure WORKING PC DSKT 01 is in diskette drive A.

If the DOS prompt is displayed, enter the following command to start loading the System/36 attachment programs:

S36

Press the PC enter key.

After about 20 seconds, is the Service Control menu displayed with the service level (upper right corner of screen) reading **Service**?

```
Service Control Menu

Service level:
Service

Select one of the following:

1. Change service level
2. Display communication line status
3. Perform an IPL from disk
4. Reload the SSP and microcode
5. Configure, customize or verify the system
6. Initialize the disk
7. Perform a system dump
8. Display service function menu
9. Display or alter the modifier code

Alt-Esc=Session selection menu
F1=Help

Ready for option number
-
(message)

(Processor check)
(Program check)
(Console check)
(SRC - XXXX)

COPR IBM Corp. 1986
```

AAP010-0

**YES**

**You have completed this task;  
continue with Task 5, "Making  
Customization Decisions".**

**NO**

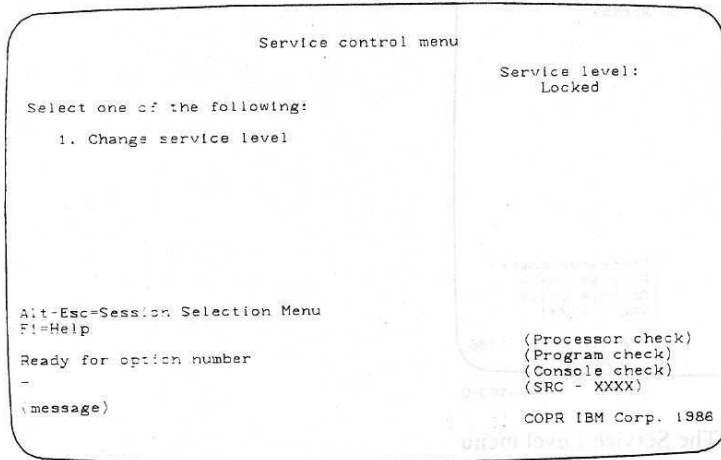


If a system reference code appears in the lower right corner of the screen, go to Appendix C, "Responding to System Reference Codes." Be sure to read the introduction to the appendix.

### 4.3

After about 20 seconds, is the Service Control menu displayed with the service level (upper right corner of screen) reading **Normal** or **Locked**?

If a system reference code appears in the lower right corner of the screen, go to Appendix C, "Responding to System Reference Codes." Be sure to read the introduction to the appendix.



AAP011-0

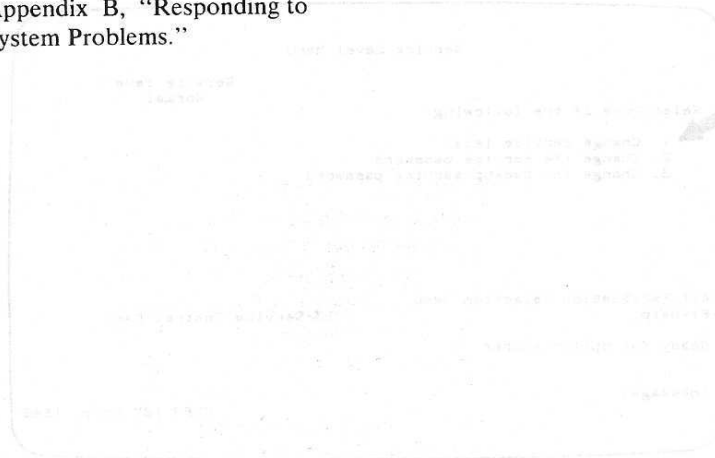
#### YES

If the Service Control menu is displayed with the service level **Locked**, continue with the next step.

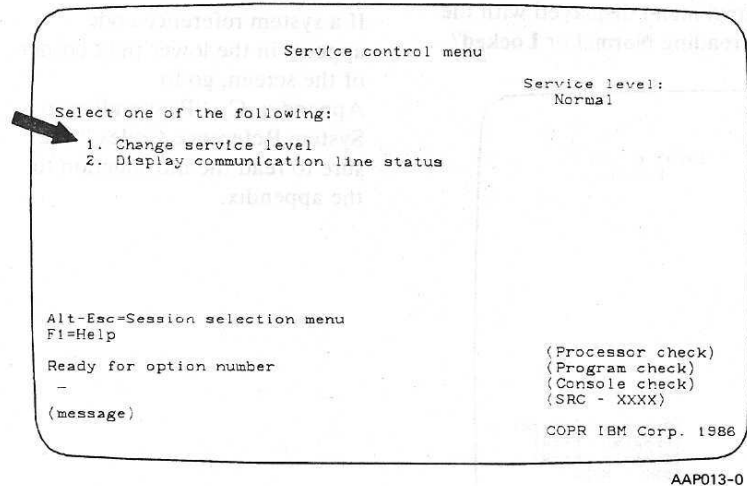
When the service level is **Normal**, the IPL Sign-On display is automatically shown after a short time. If the IPL Sign-On display is shown, press and hold the Alt key, then press the Esc key. Repeat until the Session Selection menu appears. Select the service option on the Session Selection menu and press the PC enter key. The Service Control menu is displayed. Continue with the next step.

#### NO

Go to Appendix B, "Responding to System Problems."



## 4.4

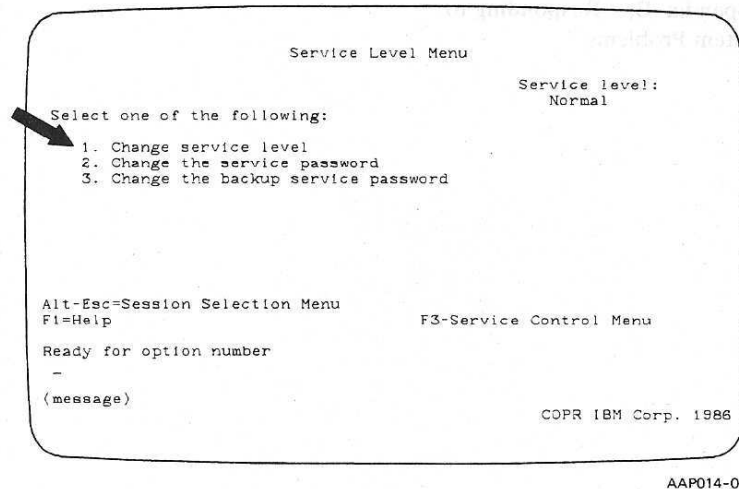


Option 2 is not displayed if the service level is **Locked**.

AAP013-0

Select option 1 and press the PC enter key. The Service Level menu appears.

## 4.5



The Service level could also be **Locked**.

AAP014-0

Select option 1 and press the PC enter key. The Change Service Level menu appears.

## 4.6

```
Change Service Level
Service level:
Normal

Enter service or backup service password .....
Enter service level
1-Normal,2-Service,3-Locked ..... 2

Alt-Esc=Session Selection Menu
F1=Help
F3=Service Level Menu

(message)

COPR IBM Corp. 1986

AAP015-0
```

The Service level could also be **Locked**.

Type password or master as the password. (The password is not displayed as you type it.) Then press the Tab key to move the cursor to the next prompt.

Select option 2 and press the PC enter key. The Service Control menu appears.

Do not select an option for the Service Control menu at this time. **You have completed this task; continue with Task 5, "Making Customization Decisions."**

*Password* is the service password and *master* is the backup service password.

The Service is self-contained and  
locked.



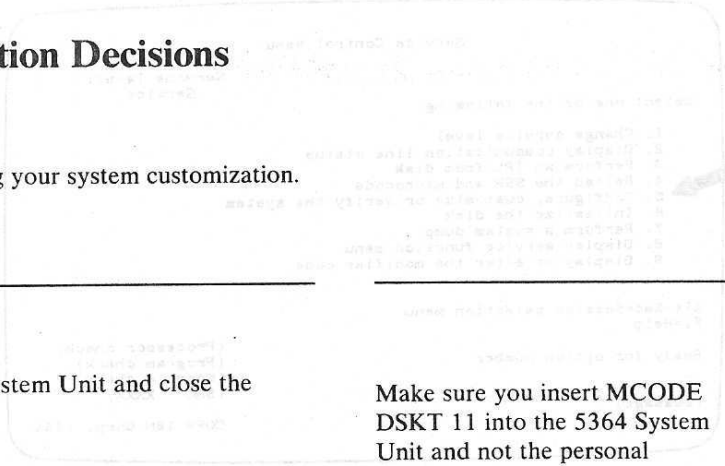
Always use the service password  
and never use the factory password.

Type password or pass key as the password. If you are not  
in range of your type key, then press the Tab key to move the cursor to  
the next page.  
Press option 2 and press the TV enter key. The Service Control menu  
appears.  
Do not select an option for the Service Control menu at this time. You  
will return to the lock control with Task 5. When the installation  
is complete.



## Task 5. Making Customization Decisions

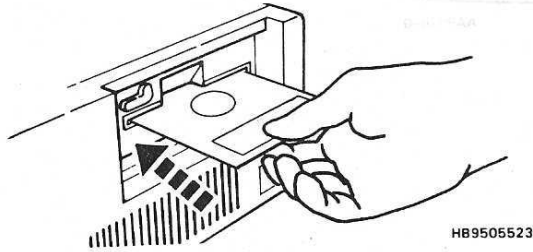
This task provides instructions for verifying your system customization.



### 5.1

Insert MCODE DSKT 11 into the 5364 System Unit and close the diskette locking lever.

Make sure you insert MCODE DSKT 11 into the 5364 System Unit and not the personal computer.



HB9505523

## 5.3

Display 08 should appear on the system console in about 3 to 5 minutes.

The system console (in this case, the personal computer) is a display station from which you can keep track of and control system operation.

```
08      SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
      Keyboard character set selection

Select one of the following:

1. Austria/Germany      12. Japanese (Katakana)
2. Belgium              13. Norway
3. Canadian French     14. Portugal
4. Denmark              15. Spain
5. Finland              16. Spanish Speaking
6. France (AZERTY)     17. Sweden
7. France (QWERTY)     18. Swiss (French)
8. International,     19. Swiss (German)
9. Italy                 20. United Kingdom
10. Japan (English)    21. United States
11. Japanese (Kanji)   22. Special Character Set (RPQ)

Option:  _
Press the Enter key
```

AAP017-0

Is display 08 shown on the system console?



**YES**

Go to step 5.5.

**NO**



## 5.4

Is display 02 shown on the system console?

**YES**

Go to step 5.9.

**NO**

The Service Control menu appears. Look for a system reference code in the lower right corner and go to Appendix C, "Responding to System Reference Codes."

## 5.6

The *Multinational character set* provides additional characters for language groups; however, the set is not on this system.

```
09          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Multinational character set selection

Select one of the following:
1. Use multinational character set
2. Do not use multinational character set

Option: _
Press the Enter key
```

AAP025-0

Select option 2 on display 09, and then press the assigned enter key. Display 10 appears.

## 5.7

*Computer location* refers to the country in which your system is located.

```
10          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Computer location

Select one of the following:
1. Canada
2. Japan
3. United States
4. Any other country

Option: _
Press the Enter key
```

AAP026-0

Select one of the four options on display 10, and then press the assigned enter key. Display 02 appears.

```

02          SYSTEM/38 CONFIGURE-CUSTOMIZE PROGRAM
          Configuration verification
Is the following configuration list correct (1 = Yes, 2 = No)?
Documentation group . . . . . United States
Main storage size . . . . . 256K bytes (See Note 1)
Work stations supported . . . . . 6
Communications type . . . . . PC SDLC
Disk storage size . . . . . 40M bytes
Keyboard character set . . . . . United States
Multinational character set . . . . . No
Computer location . . . . . Other (See Note 2)
RPQ to be installed . . . . . No
Computer serial number . . . . . 1234567
Extended input fields . . . . . No

Option: -
Press the Enter key
Note 1: 4 2K segments of main storage are not available
Note 2: Country other than Canada, Japan, or United States

```

EXAMPLE ONLY

AAP027-0

Do you see a message line (for Note 1) on display 02?

YES

Refer to Appendix B, "Responding to System Problems."



- Japan (English)
- Japan (Japanese)
- Austria (German)
- Belgium (Dutch)
- Belgium (French)
- Canada (French)
- Denmark
- Finland
- France
- Germany
- Italy
- United Kingdom
- Sweden
- Spanish Speaking
- Spain
- Portugal
- Norway
- Netherlands

- **Disk storage size:** The size listed should be the storage size that you ordered.
- **Keyboard character set:** The keyboard character set is the defined collection of graphic symbols (including alphabetic, numeric, and special characters) that are supported by the displays attached to your system. The following character sets are available:

Austria/Germany	Japanese (Katakana)
Belgium	Norway
Canada (French)	Portugal
Denmark	Spain
Finland	Spanish Speaking
France (AZERTY)	Sweden
France (QWERTY)	Swiss (French)
International	Swiss (German)
Italy	United Kingdom
Japan (English)	United States
Japanese (Kanji)	Special Character Set (RPQ)

- **Multinational character set:** The multinational character set provides additional characters for language groups; however, the set is not supported on this system.
- **Computer location:** Computer location refers to the country in which your system is located.
- **RPQ to be installed and Computer serial number:** An RPQ is a type of feature or function designed especially for a group of customers. You do not need to check **RPQ to be installed** or **Computer serial number** at this time.
- **Extended input fields:** This feature increases the maximum number of input fields from 127 to 254 that may be defined on locally attached displays that are running 3270 Device Emulation. This increase in the maximum number of input fields is accompanied by a decrease in the maximum number of local work stations that may be supported from six to three.

Do those items on display 02 match your requirements?

**YES**

Do not select an option for display 02 at this time. **You have completed this task; continue with Task 7, "Installing Your Microcode."**

**NO**

Do not select an option for display 02 at this time. **You must correct display 02 to match your requirements; go to Task 6, "Correcting Customization Problems"**

## Task 6. Correcting Customization Problems

This task provides instructions for correcting the customization items that did not match your requirements in Task 5, "Making Customization Decisions."

### 6.1

```
02          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Configuration verification
Is the following configuration list correct (1 = Yes, 2 = No)?
Documentation group . . . . . United States
Main storage size . . . . . 256K bytes (See Note 1)
Work stations supported . . . . . 6
Communications type . . . . . PC SDLC
Disk storage size . . . . . 40M bytes
Keyboard character set . . . . . United States
Multinational character set . . . . . No
Computer location . . . . . Other (See Note 2)
RPQ to be installed . . . . . No
Computer serial number . . . . . 1234567
Extended input fields . . . . . No

Option: _
Press the Enter key
Note 1: 4 2K segments of main storage are not available
Note 2: Country other than Canada, Japan, or United States
```

**EXAMPLE ONLY**

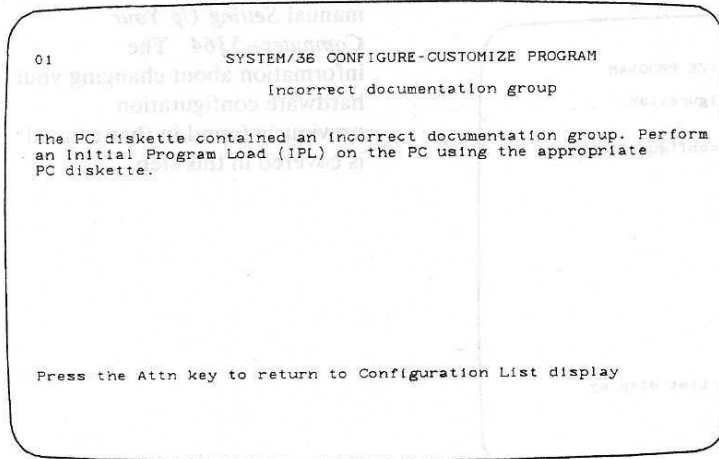
AAPO38-0

Select option 2 on display 02 and press the assigned enter key. Display 19 appears.

If you filled out Form C2 in the *IBM System/36 PC Buyer's Guide*, GC21-9144, you may want to refer to it in the next steps.

## 6.3

Display 01 appears.



A list of the available languages for the documentation group can be found at step 5.10 in Task 5, "Making Customization Decisions."

AAP041-0

The PC DSKT 01 you used contains the incorrect documentation group. Check the part number on the diskette to make sure it is the documentation group you ordered. When you have the correct diskette, set the power switches on the 5364 System Unit and the personal computer to O (Off). Return to step 1.8 in Task 1, "Preparing to Customize Your System" to continue.

## 6.5

Display 08 appears.

A list of the available keyboard character sets can be found at step 5.10 in Task 5, "Making Customization Decisions."

```
08          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Keyboard character set selection

Select one of the following:

1. Austria/Germany          12. Japanese (Katakana)
2. Belgium                 13. Norway
3. Canadian French        14. Portugal
4. Denmark                 15. Spain
5. Finland                 16. Spanish Speaking
6. France (AZERTY)         17. Sweden
7. France (QWERTY)         18. Swiss (French)
8. International           19. Swiss (German)
9. Italy                    20. United Kingdom
10. Japan (English)        21. United States
11. Japanese (Kanji)       22. Special Character Set (RPQ)

Option: _
Press the Enter key
```

AAP017-0

Select the correct keyboard character set on display 08 and press the assigned enter key. Go to step 6.8.

## 6.6

Display 10 appears.

```
10          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Computer location

Select one of the following:

1. Canada
2. Japan
3. United States
4. Any other country

Option: _
Press the Enter key
```

AAP045-0

Select the correct computer location on display 10 and press the assigned enter key. Display 02 appears. Go to step 6.8.



---

## 6.9

Do you have additional items on display 02 to be corrected?

### YES

Return to the beginning of this task to correct any other customization item(s).

### NO

Do not select an option for display 02 at this time. **You have completed this task; continue with Task 7, "Installing Your Microcode."**

## Task 7. Installing Your Microcode

This task provides instructions for installing your microcode.

### 7.1

```
02          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Configuration verification
Is the following configuration list correct (1 = Yes, 2 = No)?
Documentation group . . . . . United States
Main storage size . . . . . 256K bytes (See Note 1)
Work stations supported . . . . . 8
Communications type . . . . . PC SDLC
Disk storage size . . . . . 40M bytes
Keyboard character set . . . . . United States
Multinational character set . . . . . No
Computer location . . . . . Other (See Note 2)
RPQ to be installed . . . . . No
Computer serial number . . . . . 1234567
Extended input fields . . . . . No

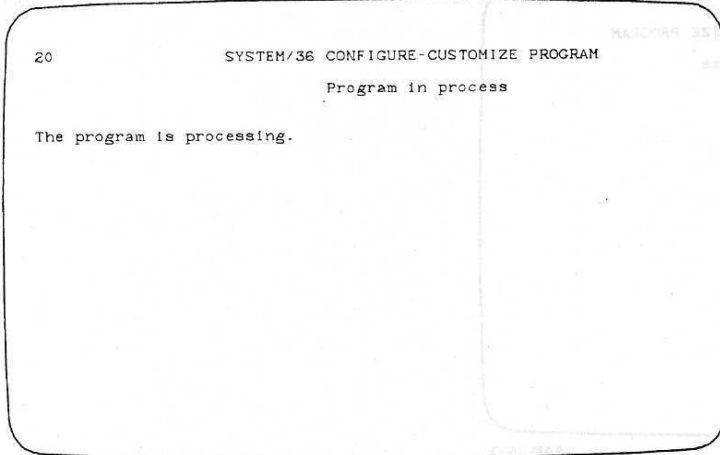
Option: _
Press the Enter key
Note 1: 4 2K segments of main storage are not available
Note 2: Country other than Canada, Japan, or United States
```

AAP030-0

Select option 1 on display 02 and press the assigned enter key. Display 03 appears.

---

## 7.4



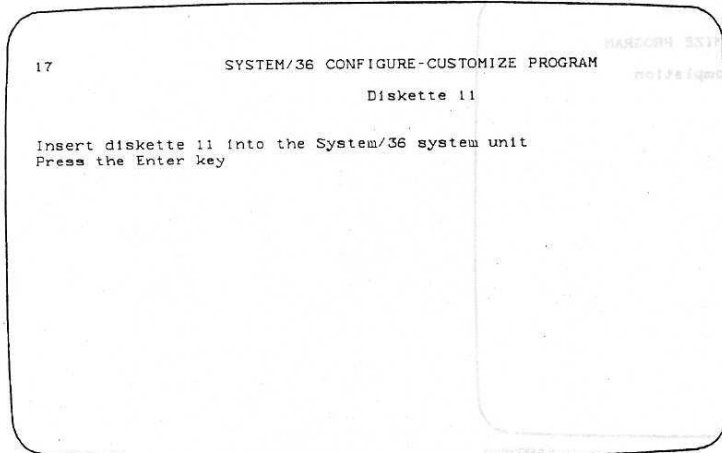
AAP033-0

The information takes about 5 to 7 minutes to be processed.

When the information loaded from MCODE DSKT 12 is processed, display 17 appears.

---

## 7.5



AAP034-0

Remove MCODE DSKT 12 from the 5364 System Unit and insert MCODE DSKT 11. Press the assigned enter key.

---

## 7.8

```
51          SYSTEM/36 CHECKOUT PROGRAM
          Device Checkout Selection Menu

Select one of the following options and press Enter key:

  1. Work station
  2. End checkout

Option: _
```

AAP037-0

Do not select an option for display 51 at this time. **You have completed this task; go to Task 8, "Checking Out Your System and Printer(s)" in this manual.**

## Task 8. Checking Out Your System and Printer(s)

This task provides instructions for checking out your system and printer(s).

Before you begin this task, make sure:

- You have a completed copy of Form F (Local Work Station Diagram). You will use the form later in the procedure.
- All printers (including the PC Printer, if attached to the personal computer) have been prepared for system checkout. When you prepare a printer for system checkout, you should:
  1. Insert forms or paper into the printer and connect the appropriate forms attachment(s), if any.
  2. Turn on the printer.
  3. Check the printer for any displayed error codes.

If you have trouble preparing a printer, go to the problem determination section in the setup manual for that printer.

- All power switches on all work stations for your system are set to the | (On) position.
- MCODE DSKT 11 is in the 5364 System Unit.
- The security key on each display station is turned to the On (unlocked) position (see the setup manual for that display station).

*Work station* means display station or printer.

Display stations will not have the security key unless the keylock feature was ordered.

## 8.2

Display 61 appears. Compare display 61 (Work Station) to Form F.

```

61          SYSTEM/36 CHECKOUT PROGRAM
          Work Station

Compare the following with your local work station diagram.

      Address
      0   1   2   3   4   5   6
      D . . . . .
      D . . . . .
      D . . . . .

D = Display station
P = Work station printer

This shows all correctly installed work stations at this time.

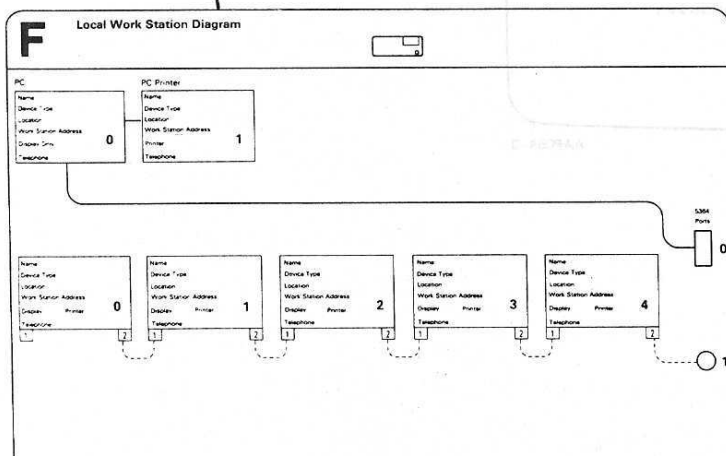
Press ENTER key to continue/update.
Press ATTN key to return to selection menu.
    
```

AAP052-0

The display on your system console should show which display (D) and printer (P) are connected to the computer and turned on.

The address and port number for each work station, shown on display 61, should match the work stations recorded on Form F.

*Work station* means display station or printer.



Do the address and port numbers for each work station match?

YES



NO

Go to Appendix B, "Responding to System Problems."

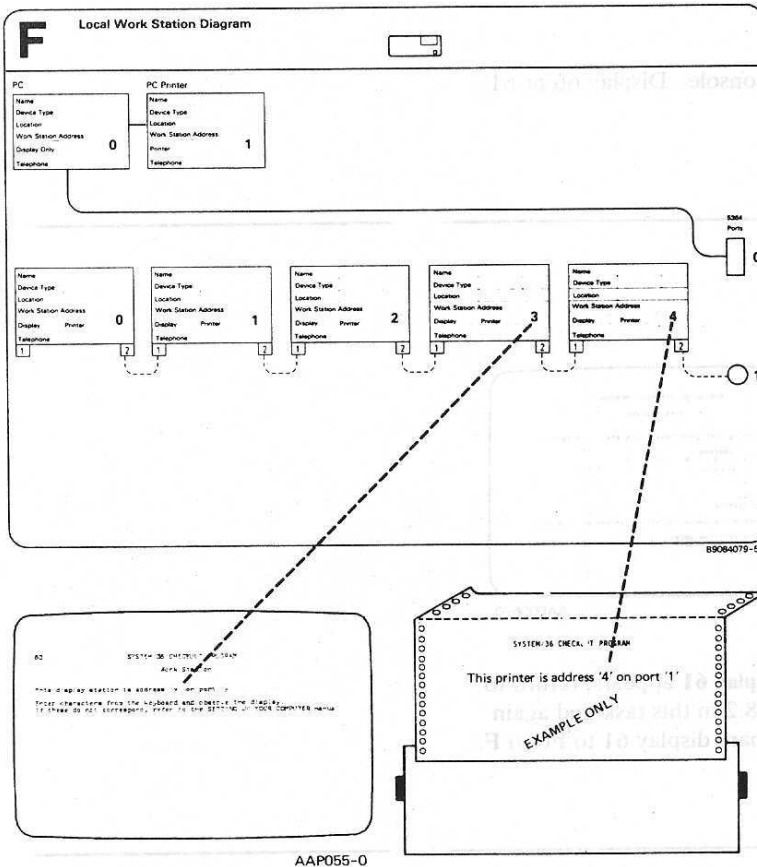
## 8.4

Go to each display station and printer to see if the displayed or printed address is correct (use Form F).

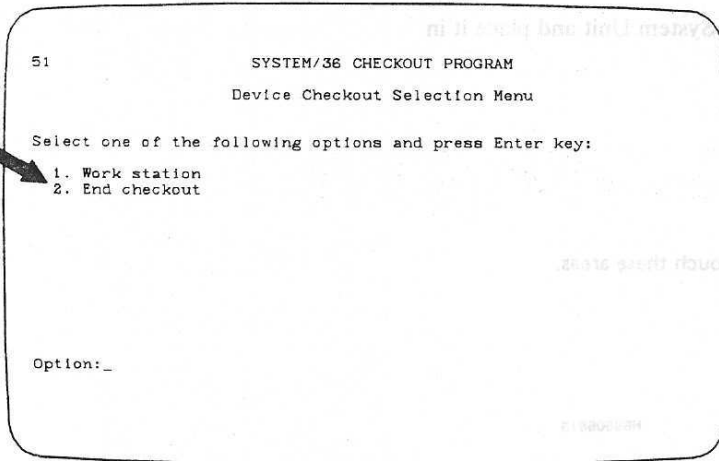
At each display station (except for the system console), type in some information (such as your name) and see it displayed.

*Note: Typing in the information and seeing it displayed tells you the display station is working properly. If you cannot type in information from the keyboard, go to Appendix B, "Responding to System Problems."*

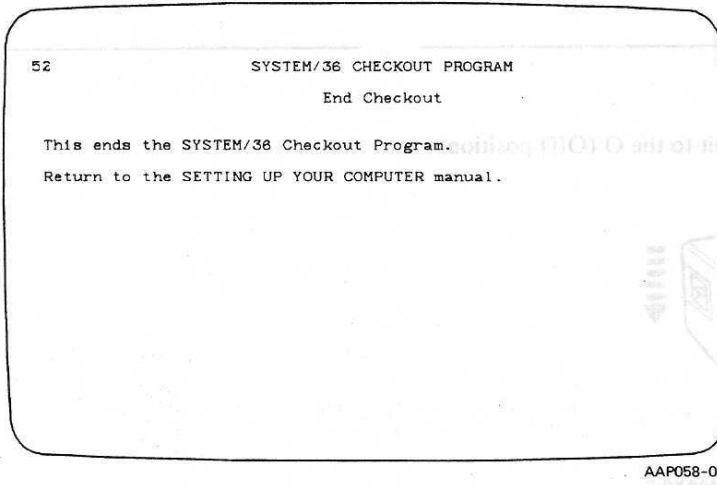
If it is inconvenient for you to check each display station and printer, call someone near that work station. Ask that person to check the address and type in some information (if the work station is a display station).



## 8.9



Select option 2 (*End checkout*) on display 51, and then press the assigned enter key. Display 52 appears.



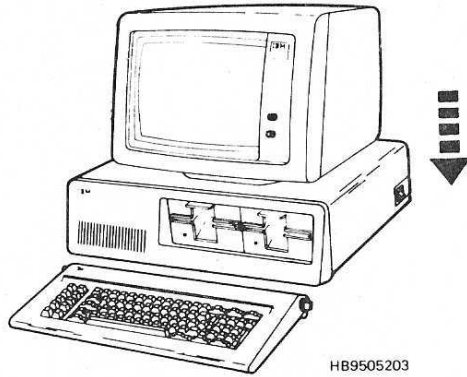
Do **not** return to the manual *Setting Up Your Computer—5364* at this time. Continue with step 8.10.



---

## 8.12

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



---

## 8.13

You have completed installing and customizing your system. Be sure to save this manual; you may need it again for reference. Go to the manual *Performing the First System Configuration for Your System—5364*, SC21-9115, to configure your system.

You are now ready to load the System Support Program Product (SSP) into the computer.

Set the power switch on the 5364 System Unit to the I (On) position.

## Appendix A. Adding Another Disk Drive to the 5364 System Unit



After Task 8, "Checking Out Your System and Printer(s)" in this manual, you can install another disk drive in your 5364 System Unit.

If you are using the 5364 System Unit in a floor-standing enclosure, you must remove the system unit from the floor-standing enclosure. Follow the floor-standing enclosure removal instructions in the manual *Setting Up Your Computer—5364*.

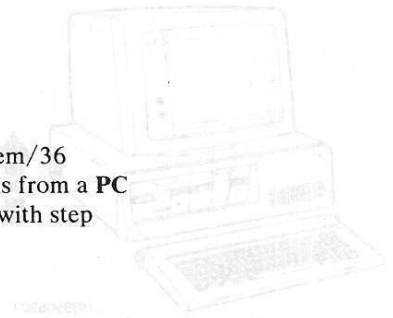
Set the power switch on the personal computer to the I (On) position.

### A.1

Select the appropriate path.

If you load the System/36 attachment programs from a **diskette drive**, insert WORKING PC DSKT 01 (or WORKING PC DSKT 03 if supporting host graphics) into the PC diskette drive A. Then, continue with step A.2.

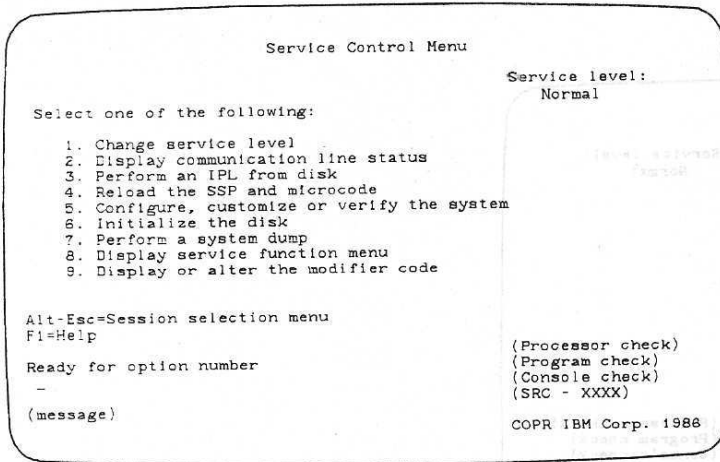
If you load the System/36 attachment programs from a **PC disk drive**, continue with step A.2.



Select the appropriate path.

The Service 1 menu appears. Continue with the next step.  
The DOS prompt appears. Enter the command:  
and continue with the next step.

## A.5



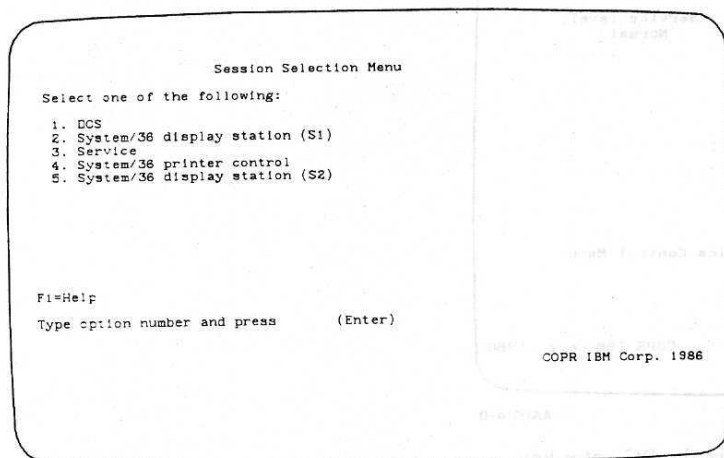
AAP201-0

While the Service Control menu is displayed, press and hold the Alt key, then press the Esc key.

*Note: If the Session Selection menu does not appear immediately, continue to press and hold the Alt key and the Esc key until the Session Selection menu does appear.*

## A.6

The Session Selection menu appears.



AAP185-0

Select option 3 (*Service*) and press the PC enter key.

## A.9

The Change Service Level menu appears.

```
Change Service Level
Service level:
Normal

Enter service or backup service password .....
Enter service level
1-Normal,2-Service,3-Locked ..... 2

Alt-Esc=Session Selection Menu      F3=Service Level Menu
F1=Help

(message)
COPR IBM Corp. 1986
```

AAP202-0

Enter the password and select the *Service* option; then press the PC enter key.

The Service Control menu appears and the service level displayed is *Service*.

```
Service Control Menu
Service level:
Service

Select one of the following:
1. Change service level
2. Display communication line status
3. Perform an IPL from disk
4. Reload the SSP and microcode
5. Configure, customize or verify the system
6. Initialize the disk
7. Perform a system dump
8. Display service function menu
9. Display or alter the modifier code

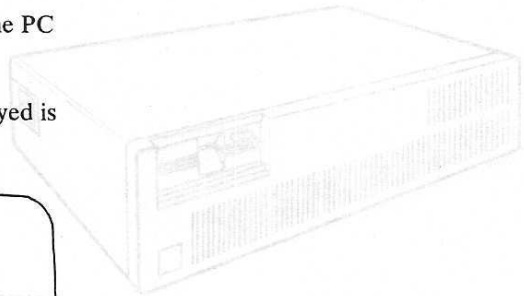
Alt-Esc=Session selection menu
F1=Help

Ready for option number
-
(message)

(Processor check)
(Program check)
(Console check)
(SRC - XXXX)

COPR IBM Corp. 1986
```

AAP010-0



## A.10

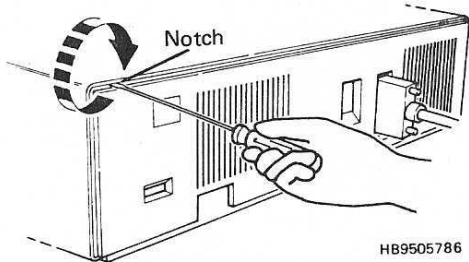
Set the PC power switch to the O (Off) position.

## A.16

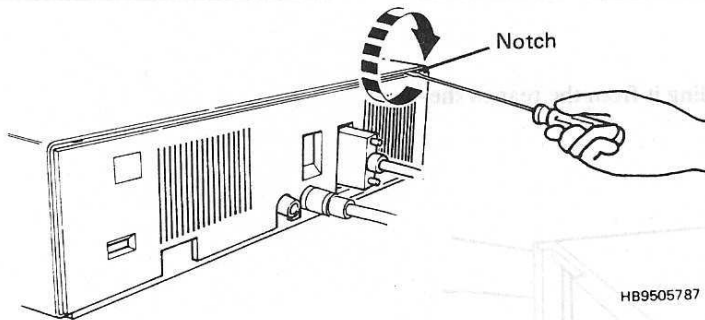
Remove the back panel from the 5364 System Unit by doing the following steps.

*Note: If you are not using a 5364 System Unit with a floor-standing enclosure, you can leave the cables connected.*

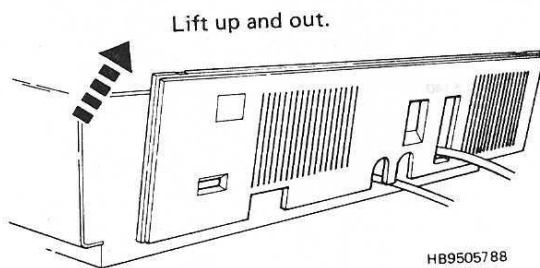
1.



2.

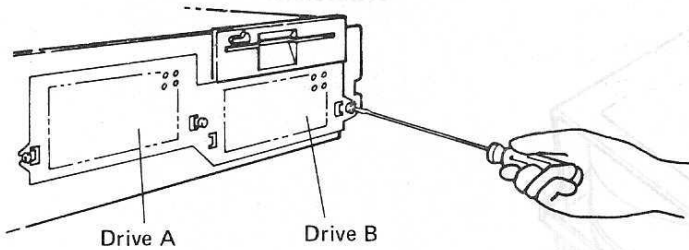


3.



## A.19

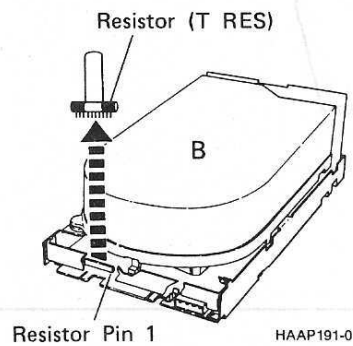
Use the same screwdriver (or nutdriver) and remove the three screws holding the plate on the front of the 5364 System Unit.



A baffle (acoustical buffer) may cover the plate. Remove both the baffle and plate at the same time because they are held in place by the same screws.

## A.20

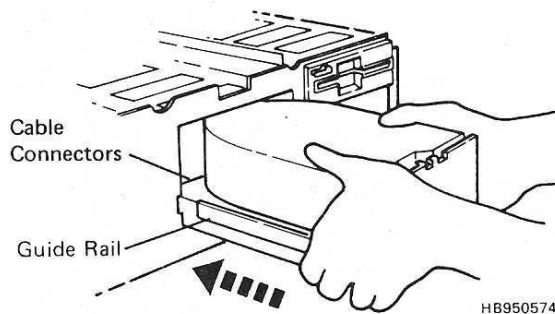
Pull the tab on the resistor to remove the resistor from the resistor pin.



The resistor at the back of the disk drive must be removed before you can install the disk drive.

## A.21

Slide the disk drive into position in Drive B. Make sure that you are inserting the disk drive in the 5364 System Unit with the disk drive connectors facing into the system unit.



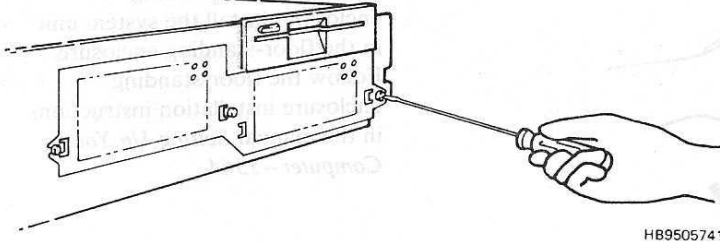
**CAUTION:**  
Handle the disk drive with care.

---

## A.24

Attach the plate to the front of the 5364 System Unit.

If you removed a baffle in step A.19, reattach it along with the plate.

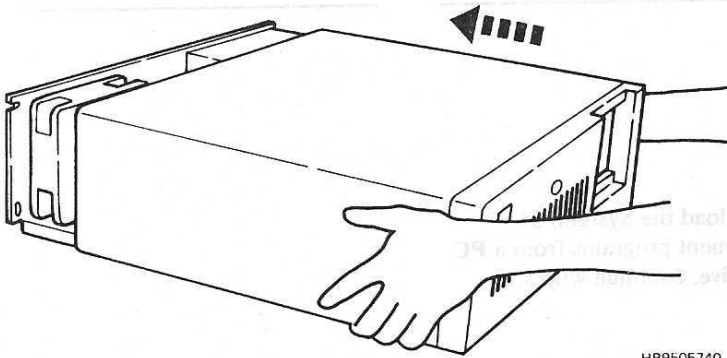


HB9505741

---

## A.25

Slide the 5364 System Unit cover on from the front to the rear.

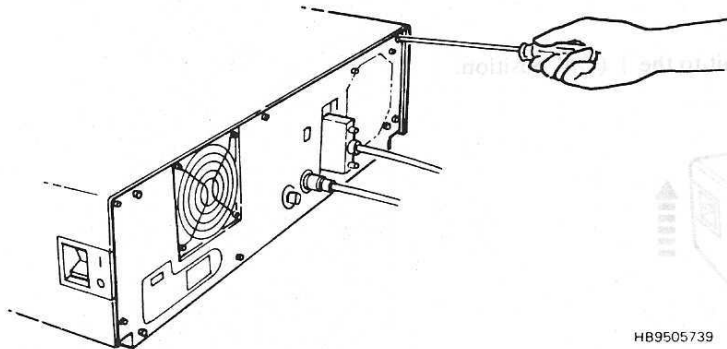


HB9505740

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## A.26

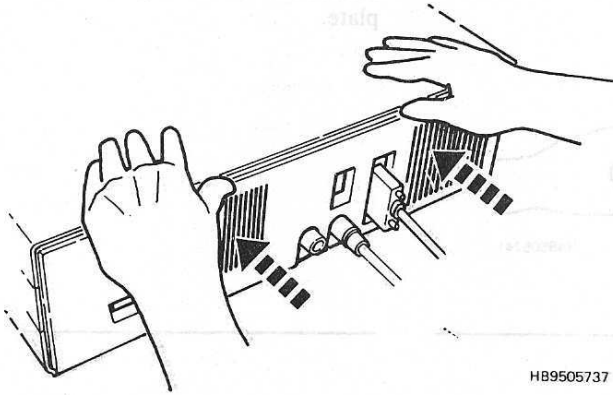
Attach the cover to the 5364 System Unit.



HB9505739

## A.27

Attach the back panel to the 5364 System Unit.



HB9505737

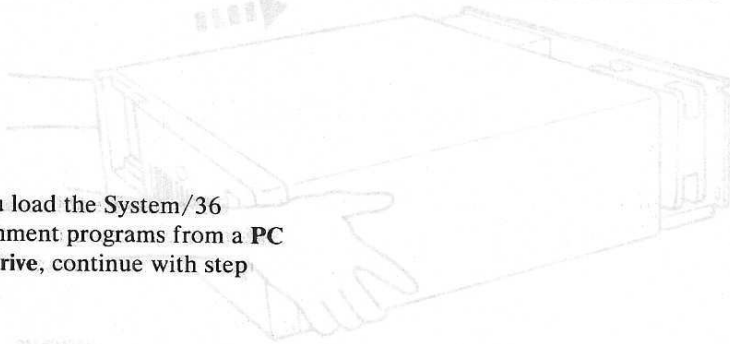
If you are using the 5364 System Unit in a floor-standing enclosure, install the system unit in the floor-standing enclosure. Follow the floor-standing enclosure installation instructions in the manual *Setting Up Your Computer—5364*.

## A.28

Select the appropriate path.

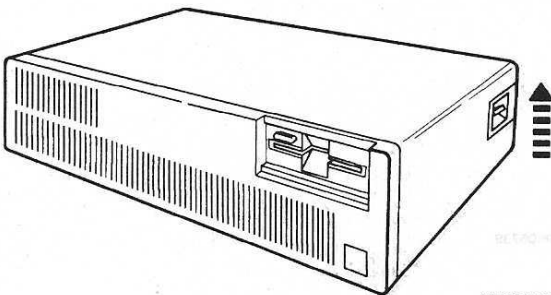
If you load the System/36 attachment programs from a **diskette drive**, insert **WORKING PC DSKT 01** (or **WORKING PC DSKT 03** if supporting host graphics) into the PC diskette drive A. Then, continue with step A.29.

If you load the System/36 attachment programs from a **PC disk drive**, continue with step A.29.

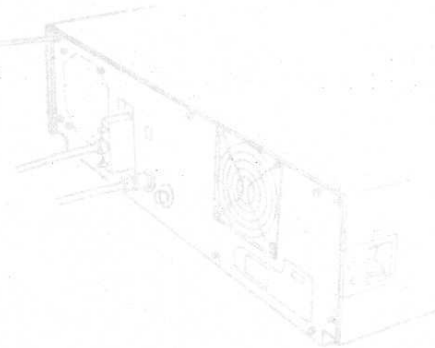


## A.29

Set the power switch on the 5364 System Unit to the | (On) position.



AAP070-0

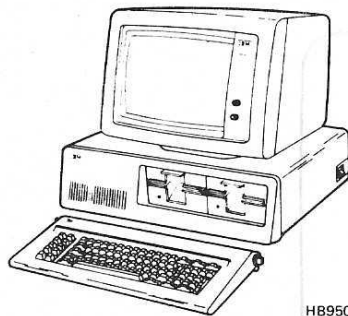




---

## A.30

Set the power switch on the personal computer to the | (On) position.



HB9505203

---

## A.31

Select the appropriate path.

The **Service Control** menu appears. Continue with the next step.

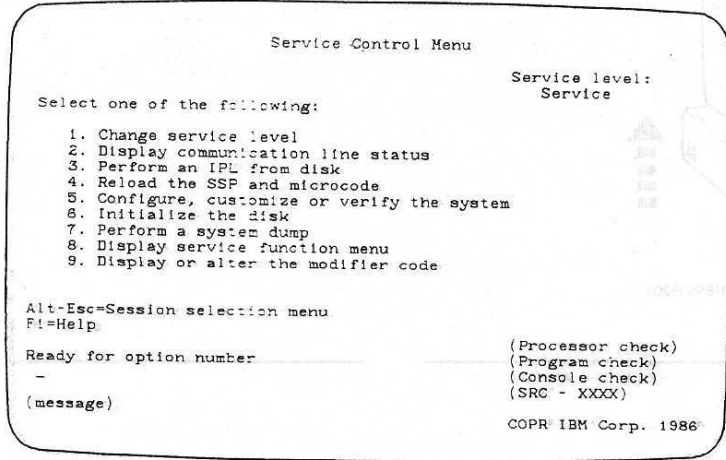
The **DOS prompt** appears. Enter the command:

S36

and continue with the next step.

A.32

Does the Service Control menu have a 4-digit system reference code in the lower right corner?



AAP010-01

YES

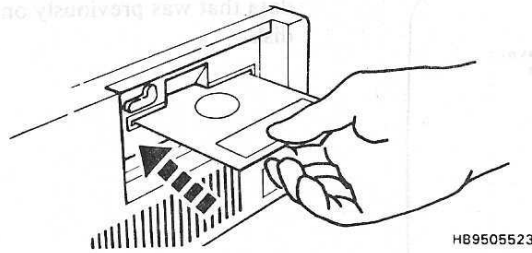
NO

Go to the problem determination procedures in the manual *Operating Your Computer—5364, SC21-9085.*

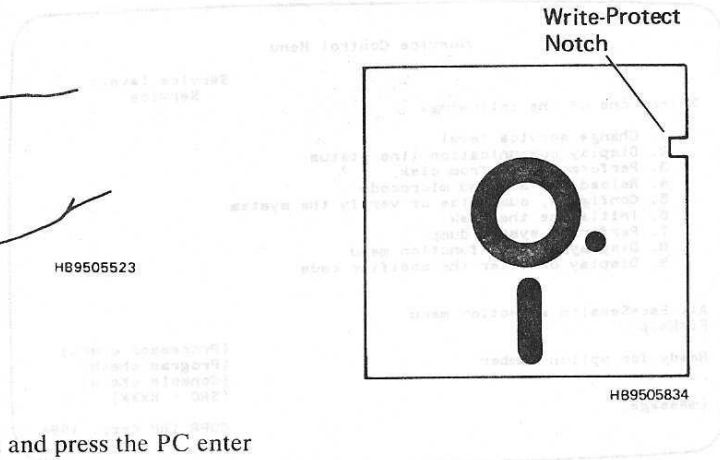


### A.33

Insert MCODE DSKT 11 into the 5364 System Unit and close the diskette locking lever.



Do not cover the write-protect notch on the diskette because information is written to the diskette during setup.



Select option 5 on the Service Control menu and press the PC enter key.

### A.34

Press the Alt, Ctrl, and Del keys at the same time. The Session Selection menu appears. Press the Alt, Ctrl, and Del keys again.

Does the DOS prompt appear on the system console?

YES

Enter:

S36

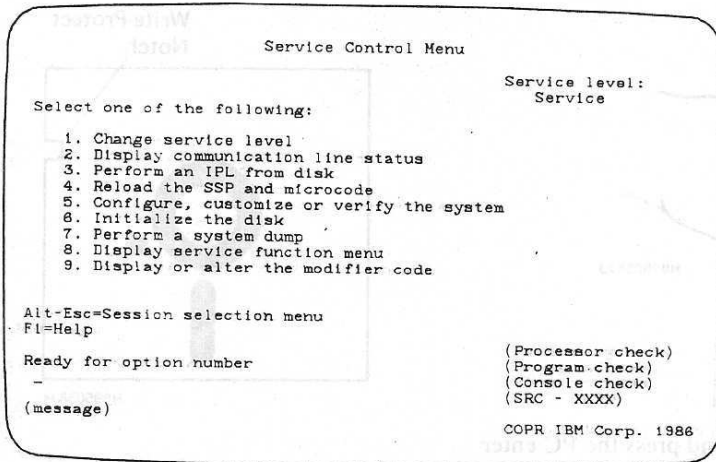
and press the PC enter key.  
Continue with the next step.

NO



## A.35

The Service Control menu appears. Select option 9 and press the PC enter key. Enter 22FF and press the PC enter key again.



Option 6 lets you initialize the disk drive(s). When you initialize a disk, you erase any data that was previously on that disk.

The Service Control menu reappears. Select option 6 and press the PC enter key.

Select the appropriate path.

If your 5364 System Unit has **one** disk drive, continue with step A.36.

If your 5364 System Unit has **two** disk drives, go to step A.38.

## A.36

The following display will appear on the system console in about 3 to 5 minutes.

```
DISK INITIALIZATION PROGRAM
Device selection

Select one of the following:
1. Initialize disk A
2. Return to the Service Control Menu

Option:
Press the Enter key
```

AAP180-0

The system console (in this case, the personal computer) is a display station from which you can keep track of and control system operation.

Is the above display on the system console?

YES



NO

The Service Control menu appears. Look for a system reference code in the lower right corner and go to Appendix C, "Responding to System Reference Codes."

```
Service Control Menu Service level:
Service

Select one of the following:
1. Change service level
2. Display communication line status
3. Perform an I/O from disk
4. Reload the SSP and microcode
5. Configure, customize or verify the system
6. Initialize the disk
7. Perform a system dump
8. Display service function menu
9. Display or alter the modifier code

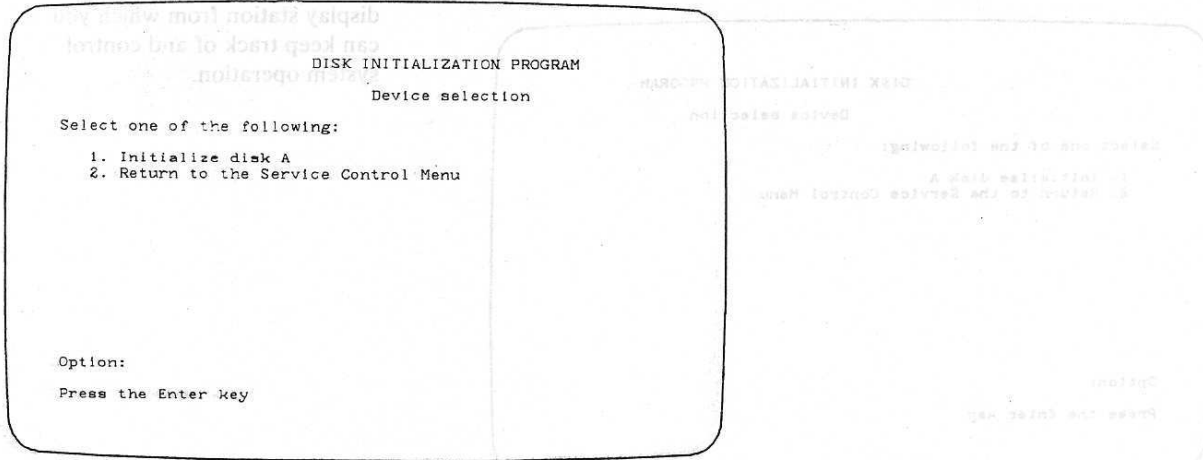
All-Session selection menu
F=Help
Ready for option number
(message)
```

AAP023-0

A system reference code (if one is displayed) appears here. A system reference code is a 4-digit number that tells you something about the operation of the computer. The meaning of each code is explained in Appendix C, "Responding to System Reference Codes."

# A.37

Select option 1 and then press the assigned enter key.



AAP180-0

Go to step A.40.



The Service Control menu appears. Look for a system reference code in the lower right corner and go to Appendix C, "Responding to System Reference Codes."

NO

YES



## A.38

The following display will appear on the system console in about 3 to 5 minutes.

```

                                DISK INITIALIZATION PROGRAM
                                Device selection

Select one of the following:

1. Initialize disk A
2. Initialize disk B
3. Initialize disk A and disk B
4. Return to the Service Control Menu

Option:
Press the Enter key

```

AAP181-0

Is the above display on the system console?

YES



NO

The Service Control menu appears. Look for a system reference code in the lower right corner and go to Appendix C, "Responding to System Reference Codes."

```

                                Service Control Menu
                                Service level:
                                Service

Select one of the following:

1. Change service level
2. Display communication line status
3. Restore an I/O from disk
4. Reload the SSP and microcode
5. Configure, customize or verify the system
6. Initialize the disk
7. Restore a system dump
8. Display service function menu
9. Display or alter the modifier code

All-Esc=Session selection menu
Firmware
Ready for option number
(average)

[Processor check]
[Program check]
[Console check]
[ERC - XXXX]

IBM Corp. 1988

```

AAP023-0

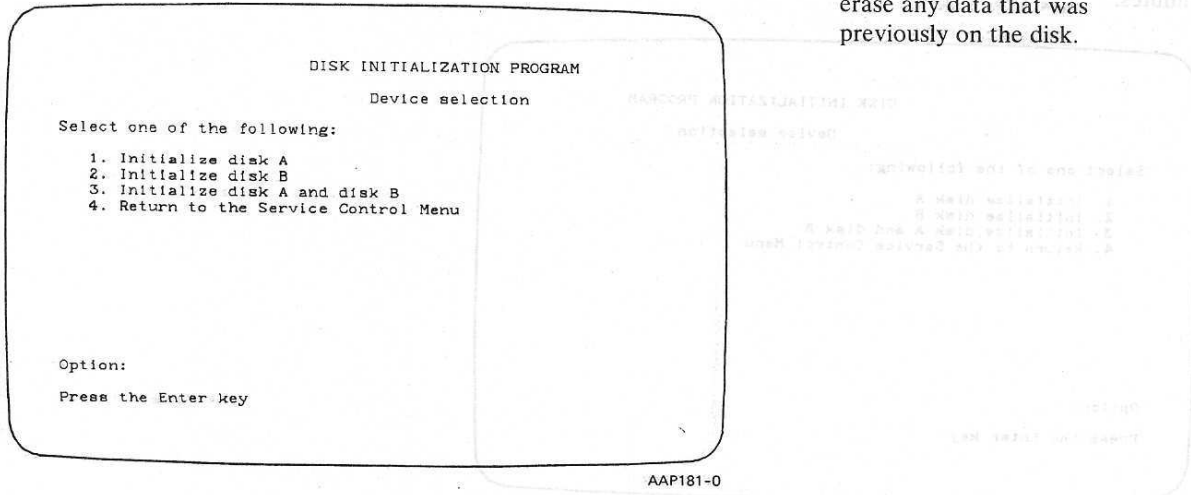
A system reference code (if one is displayed) appears here. A system reference code is a 4-digit number that tells you something about the operation of the computer. The meaning of each code is explained in Appendix C, "Responding to System Reference Codes."

# A.39

83A

Select option 2 and then press the assigned enter key.

When you initialize a disk, you erase any data that was previously on the disk.



*Note:* If message SYS-0019 appears, press the assigned enter key and continue.



A system reference code (in this case, SYS-0019) appears here. A system reference code is a 4-digit number that tells you something about the operation of the computer. The meaning of each code is explained in Appendix C, "Responding to System Reference Codes."



## A.40

Select the appropriate option and then press the assigned enter key.

If you select option 2 (No), you return to the Device Selection menu.

```

                                DISK INITIALIZATION PROGRAM
                                Verify selection

Caution:
  This program destroys all data fields on the selected disk.
  Make sure that all files, libraries, and folders have been
  saved before continuing.

The following disk selection was made.

Do you want to continue Disk Initialization (1 = Yes, 2 = No)?

Option:
  Press the Enter key

```

AAP182-0

If you selected option 1 on the previous display, the following display appears while the disk is being initialized.

*Note: If anything other than the following display appears, call for hardware service.*

```

                                DISK INITIALIZATION PROGRAM
                                In process

This program runs for a maximum of xx minutes with disk x.
xxx percent of this disk has been initialized.

```

AAP183-0

When the disk initialization procedure is complete, the System Control menu appears.

## A.41

Press the Alt, Ctrl, and Del keys at the same time. The Session Selection menu appears. Press the Alt, Ctrl, and Del keys again.

*Note:* If the DOS prompt appears, enter S36 and press the PC enter key.

The Service Control menu appears. Insert MCODE DSKT 11 into the 5364 System Unit and close the diskette locking lever. Select option 5 on the Service Control menu and press the PC enter key. Display 02 appears.

## A.42

Is the new disk storage size displayed?

The new disk storage size should be the sum of the additional disk storage size and the disk storage size already in the 5364 System Unit. For instance, if a *second* 40-megabyte disk drive were added to an already existing 40 megabytes, the new disk storage size displayed would be 80 megabytes.

```
02          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Configuration verification
Is the following configuration list correct (1 = Yes, 2 = No)?
Documentation group . . . . . United States
Main storage size . . . . . 256K bytes (See Note 1)
Work stations supported . . . . . 6
Communications type . . . . . PC SDLC
Disk storage size . . . . . 40M bytes
Keyboard character set . . . . . United States
Multinational character set . . . . . No
Computer location . . . . . Other (See Note 2)
RPQ to be installed . . . . . No
Computer serial number . . . . . 1234567
Extended input fields . . . . . No

Option: _
Press the Enter key
Note 1: 4 2K segments of main storage are not available
Note 2: Country other than Canada, Japan, or United States
```

**EXAMPLE ONLY**

AAPO22-0

YES

Go to step A.46.

NO



## A.43

```
02          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Configuration verification
Is the following configuration list correct (1 = Yes, 2 = No)?

Documentation group . . . . . United States
Main storage size . . . . . 256K bytes (See Note 1)
Work stations supported . . . . . 6
Communications type . . . . . PC SDLC
Disk storage size . . . . . 40M bytes
Keyboard character set . . . . . United States
Multinational character set . . . . . No
Computer location . . . . . Other (See Note 2)
RPQ to be installed . . . . . No
Computer serial number . . . . . 1234567
Extended input fields . . . . . No

Option: _
Press the Enter key
Note 1: 4 2K segments of main storage are not available
Note 2: Country other than Canada, Japan, or United States
```

**EXAMPLE ONLY**

AAP038-0

Select option 2 on display 02 and press the assigned enter key. Display 19 appears.

## A.44

```
19          SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
          Incorrect configuration
Select an item to be corrected:

1. Documentation group . . . . . United States
2. Main storage size . . . . . 256K bytes (See Note 1)
3. Work stations supported . . . . . 6
4. Communications type . . . . . PC SDLC
5. Disk storage size . . . . . 40M bytes
6. Keyboard character set . . . . . United States
7. Multinational character set . . . . . No
8. Computer location . . . . . Other (See Note 2)
9. RPQ to be installed . . . . . No
10. Computer serial number . . . . . 1234567
11. Extended input fields . . . . . No

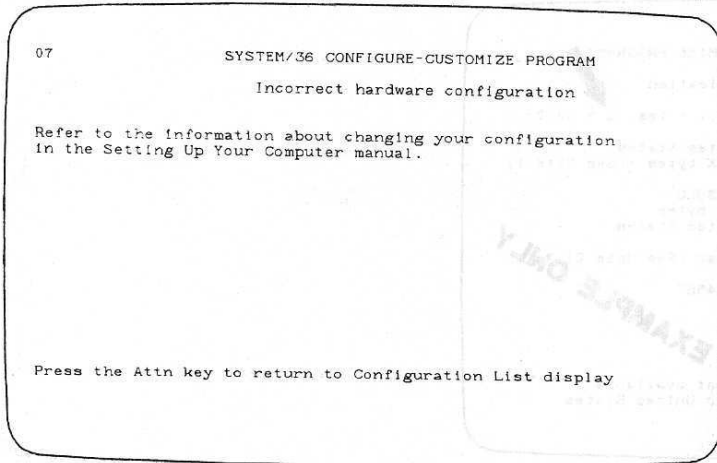
Option: _
Press the Enter key
Note 1: 4 2K segments of main storage are not available
Note 2: Country other than Canada, Japan, or United States
```

**EXAMPLE ONLY**

AAP039-0

Select option 5 (*Disk storage size*) on display 19 and press the assigned enter key. Display 07 appears.

## A.45

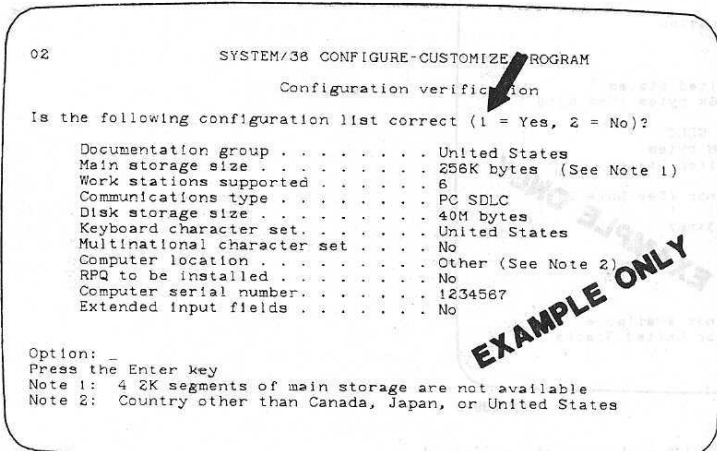


AAP042-0

It is not necessary to refer to the manual *Setting Up Your Computer-5364*. The information about changing your hardware configuration previously found in that manual is covered in this step.

Make sure the disk drive is installed according to the previous instructions in this appendix. If the disk drive is installed according to the installation instructions and the problem still exists, call for hardware service. Otherwise, continue with the next step.

## A.46



AAP030-0

Select option 1 on display 02 and press the assigned enter key. Display 03 appears.

## A.47

03 SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

Feature Installation

Select one of the following:

1. No feature will be installed
2. No more features will be installed
3. More features will be installed
4. Return to Configuration List display

Option: \_

Press the Enter key

AAP031-0

Select option 1 on display 03 and press the assigned enter key. Display 16 appears.

## A.48

16 SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

Diskette 12

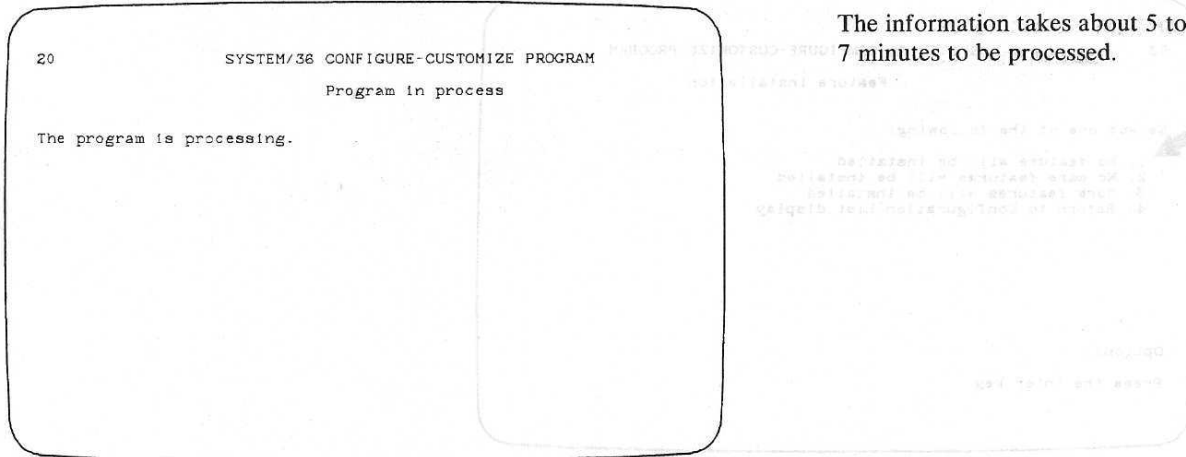
Insert diskette 12 into the System/36 system unit  
Press the Enter key

MCODE DSKT 11 is in the  
5364 System Unit.

AAP032-0

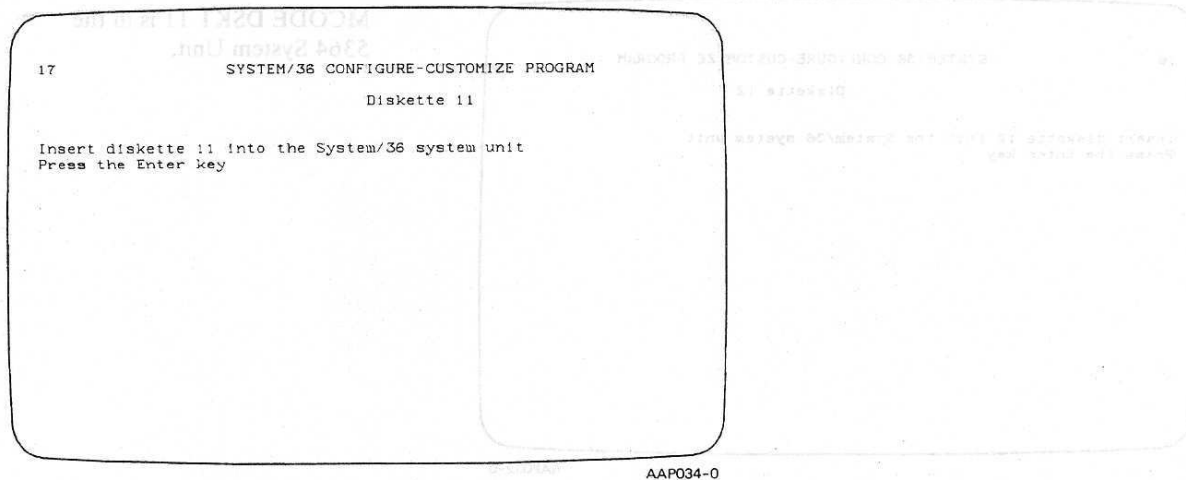
Remove MCODE DSKT 11 and insert MCODE DSKT 12. Press the assigned enter key. Display 20 appears.

## A.49



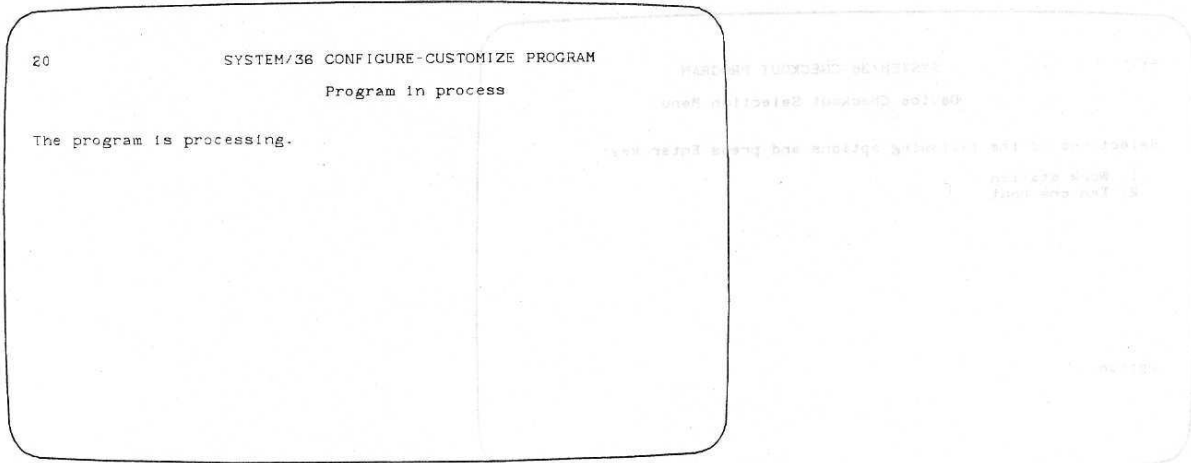
When the information loaded from MCODE DSKT 12 is processed, display 17 appears.

## A.50



---

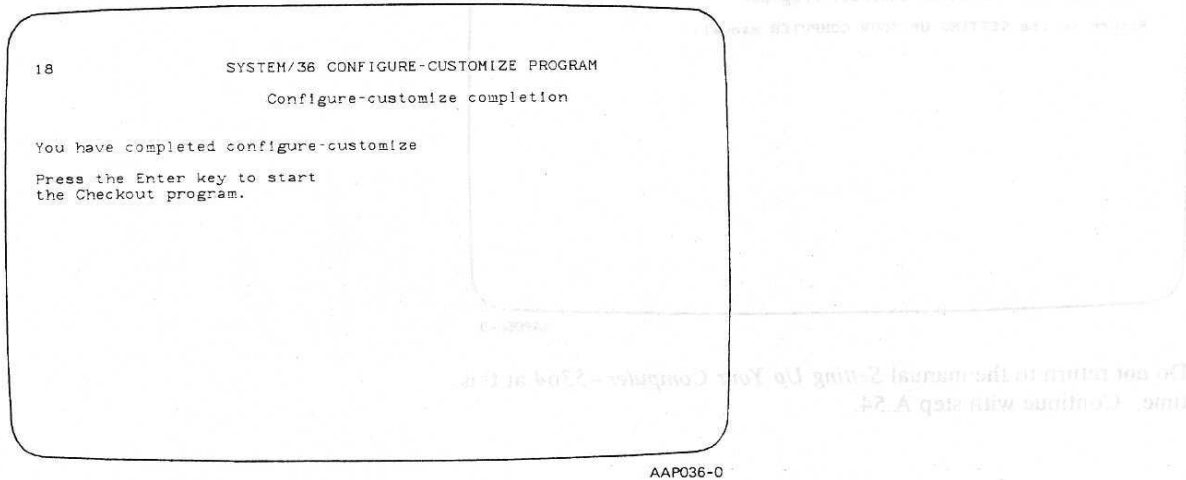
## A.51



When the information loaded from MCODE DSKT 11 is processed, display 18 appears.

---

## A.52



Press the assigned enter key. Display 51 appears.

---

## A.53

```
51                SYSTEM/36 CHECKOUT PROGRAM
                Device Checkout Selection Menu

Select one of the following options and press Enter key:

1. Work station
2. End checkout

Option: _
```

AAP037-0

Select option 2 (*End checkout*) on display 51, and then press the assigned enter key. Display 52 appears.

```
52                SYSTEM/36 CHECKOUT PROGRAM
                End Checkout

This ends the SYSTEM/36 Checkout Program.
Return to the SETTING UP YOUR COMPUTER manual.
```

AAP058-0

Do not return to the manual *Setting Up Your Computer—5364* at this time. Continue with step A.54.

---

## A.54

Remove MCODE DSKT 11 from the 5364 System Unit.



---

## A.55

Press and hold the Alt key, and then press the Esc key.

*Note: If the Session Selection menu does not appear immediately, continue to press and hold the Alt key and the Esc key until the Session Selection menu does appear.*

---

## A.56

Do the following:

1. Select the *Service* option on the Session Selection menu and press the PC enter key. The Service Control menu appears.
  2. Select the *Change service level* option on the Service Control menu and press the PC enter key. The Service Level menu appears.
  3. Select the *Change service level* option on the Service Level menu and press the PC enter key. The Change Service Level menu appears.
  4. Enter the password and select the *Normal* option on the Change Service Level menu; then press the PC enter key. The Service Control menu appears and the service level displayed is Normal.
- 

## A.57

Press the Alt, Ctrl, and Del keys at the same time. The Session Selection menu appears.

Press the Alt, Ctrl, and Del keys again.

Does the DOS prompt appear on the system console?

**YES**

Enter:

s36

and press the PC enter key.  
Continue with the next step.

**NO**



---

## A.58

Enter the sign-on parameters on the IPL Sign-On display and press the assigned enter key. The Main System/36 help menu appears.

---

## A.59

Although it is not required, you might want to increase the size of your disk VTOC (volume table of contents), your history file, and your task work area. You can make these changes by using the CNFIGSSP procedure. The manual *Changing Your System Configuration*, SC21-9052, has information about using the CNFIGSSP procedure to change these system area sizes.

To use the CNFIGSSP procedure to change the system area sizes in your configuration member, then use this member to change the master configuration record, perform the following steps.

1. On the command line of the System/36 Main help menu, type CNFIGSSP. Press the assigned enter key.
2. On display 1.0 (CNFIGSSP Main menu), select option 2 (*Create, change, or delete a configuration member*). Press the assigned enter key.
3. On display 3.0 (Configuration Member Definition), press the assigned enter key.
4. On display 6.0 (Configuration Member Description), the previous size of your disk is displayed. Type the new disk size.

Press the assigned help key. Use the roll key to display the two tables of default values for the system area sizes. It is recommended that you use the sizes specified in these tables for your system area sizes. Write the sizes that correspond to the new size of your disk. To exit from help text, press the assigned enter key.

Display 6.0 is shown again. Press the assigned enter key.

5. On display 5.0 (Configuration Member menu), select option 4 (*Specify sizes for disk VTOC, history file, and task work area*). Press the assigned enter key.

6. On display 38.0 (CNFIGSSP—Sizes for disk VTOC, history file, and task work area), type the new sizes.

The manual *Changing Your System Configuration* has more information about these system areas, including tables of default sizes. Look for the heading “Changing Base SSP Values” in Chapter 3.

Press the assigned enter key.

7. On display 5.0 (Configuration Member menu), select option 5 to save the configuration member. Press the assigned enter key.
8. On display 1.0 (CNFIGSSP Main menu), select option 12 (*Apply change to the master configuration member*). Press the assigned enter key.
9. On display 3.0 (Configuration Member Definition), press the assigned enter key.
10. On display 7.0 (CNFIGSSP—Change Master Configuration), select option 4 (*Base SSP values and system area sizes*). Press the assigned enter key.
11. The CNFIGSSP procedure makes the changes to the master configuration record, then displays a prompt asking if you want a printout of the configuration. Type Y and press the assigned enter key. When the printing has completed, save the printout for your records.
12. The system prompts you to press the Enter key to IPL from disk. Press the assigned enter key. Disk drive installation is complete.

6. On display 18.3 (CHANGESP - Sizes for disk VTDC history file) and the work area, type the new sizes.  
The screen's changing Your System Configuration area now displays information about these system areas, including tables of default sizes. Look for the heading "Changing Base SSP / sizes" in Chapter 7.  
Press the assigned enter key.
7. On display 18.4 (Configuration Member menu), select option 2 to select a configuration member. Press the assigned enter key.
8. On display 18.5 (CHANGESP Main menu), select option 12 (App) Change to the main configuration window. Press the assigned enter key.
9. On display 18.6 (Configuration Member Definition), press the assigned enter key.
10. On display 18.7 (CHANGESP - Change Master Configuration), select option 1 (view SSP when not active). Press the assigned enter key.
11. The CHANGESP procedure makes the changes to the master configuration record, then displays a prompt asking if you want a backup of the configuration. Type Y and press the assigned enter key. When the printing has completed, save the amount for your record.
12. The screen prompts you to press the F10 key to IPL from disk. Press the assigned enter key. Disk drive installation is complete.

---

## Appendix B. Responding to System Problems

If a problem occurs during setup, this appendix contains procedures that will help you find the problem. If you get a system reference code (SRC), refer to Appendix C, "Responding to System Reference Codes."

Procedures are provided for the following problems:

- B.1** No Power
- B.2** 5364 Service Control Menu Does Not Appear on the Personal Computer
- B.3** Work Station Addresses and Port Numbers Do Not Match
- B.4** Information Cannot Be Entered from the Keyboard and Displayed
- B.5** Faulty 2K Segments in Main Storage
- B.6** Enhanced 5250 Emulation Configuration Screen Does Not Appear on the Personal Computer

After you solve the problem, return to the section where you originally encountered the problem to continue setup. If you cannot solve the problem, instructions within each procedure tell you what to do next.

---

### B.1

#### No Power

Make sure:

- The power cord is plugged in.
- There is power to the electrical outlet.

If you still cannot get power on your computer, call for hardware service.

---

## B.2

### 5364 Service Control Menu Does Not Appear on the Personal Computer

Make sure:

- The brightness control on the personal computer is not turned too low.
- The expansion cable connecting the personal computer and the 5364 System Unit is:
  - Connected
  - Connected properly
  - Connected to the right socket or port
  - Not defective

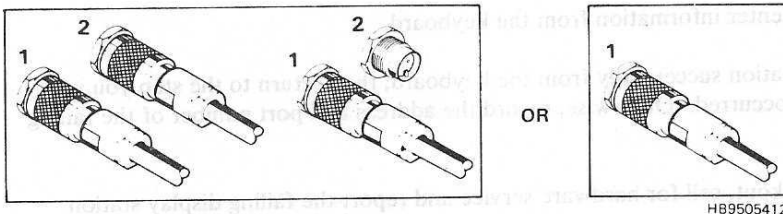
If you still cannot get the 5364 Service Control menu to appear on the personal computer, call for hardware service.

## B.3

### Work Station Addresses and Port Numbers Do Not Match

Do the following for each display station or printer that is not shown on display 61:

1. Make sure the power switch on each display station and printer is set to the | (On) position.
2. Make sure the keylock is turned to the On (unlocked) position (see the setup manual for that display station).
3. Check the work station address switches to make sure they match Form F (Local Work Station Diagram). If any two work stations on the same port have the same address, neither work station is shown on display 61.
4. Check the Terminator switches.



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

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

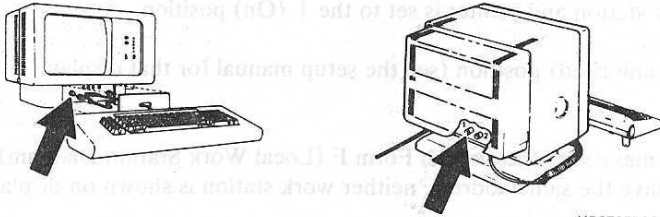
Display stations and printers with only one socket do not have Terminator switches.

5. Check both the cable ends (make sure the cables are connected to the correct ports and sockets and that the connection is tight).
6. After you make the previous checks, press the assigned enter key at the system console to update display 61. Then go back to step 8.2 in Task 8, "Checking Out Your System and Printer(s)."
7. If you still cannot get display 61 to match Form F (Local Work Station Diagram), do the following:
  - a. Record the address and port number of the display station(s) or printer(s) that does not match.
  - b. Turn off the work station causing the error.
  - c. Press the assigned enter key on the system console.
  - d. Continue the system checkout at step 8.7 in Task 8, "Checking Out Your System and Printer(s)."
  - e. Call for hardware service after you complete the system checkout.

## B.4

### Information Cannot Be Entered from the Keyboard and Displayed

1. Check the keyboard cable connection on the display station that you are working with.



2. If the display station has the keylock feature, make sure the key is turned to the on position (see the setup manual for that display station).
3. Try again to select an option or enter information from the keyboard.
4. If you were able to enter information successfully from the keyboard, then return to the step you were performing before the problem occurred. Otherwise, record the address and port number of the failing display station.
5. After you complete system checkout, call for hardware service and report the failing display station.
6. If you have another display station to check, go to step 8.4 in Task 8, "Checking Out Your System and Printer(s)." Otherwise, go to step 8.6.



---

## **B.5**

### **Faulty 2K Segments in Main Storage**

- If the number near the bottom of display 02 is greater than 7, you cannot continue with setup. Call for hardware service and report the problem.
- If the number near the bottom of display 02 is less than or equal to 7, you can continue with setup. However, the main storage card in your computer has defective 2K segments.

After setup, call for hardware service and report the defective main storage cards. Then go to step 5.10 in Task 5, "Making Customization Decisions" to check main storage.

---

## **B.6**

### **Enhanced 5250 Emulation Configuration Display Does Not Appear on the Personal Computer**

Make sure:

- The right command was entered.
- The right diskette was inserted.
- The diskette is not damaged.

If you still cannot get the 5250 Emulation Configuration Display to appear on the personal computer, call for hardware service.

Family 2K Segments in Main Storage

- If the number near the bottom of display 02 is greater than 7, you cannot continue with setup. Call for hardware service and report the problem.
  - If the number near the bottom of display 02 is less than or equal to 7, you can continue with setup. However, the main storage card in your computer has defective 2K segments.
- After setup, call for hardware service and report the defective main storage cards. Then go to step 5.10 in Task 5, "Making Customization Decisions," to check main storage.

Enhanced 7250 Installation Configuration Display Does Not Appear on the Personal Computer

Make sure:

- The right command was entered.
- The right diskette was inserted.
- The diskette is not damaged.

If you still cannot get the 7250 Installation Configuration Display to appear on the personal computer, call for hardware service.

## Appendix C. Responding to System Reference Codes

A system reference code means that you might have a problem with the computer. If a system reference code (SRC) appears, do the following:

1. Check and secure all cable connections.
2. Make sure all display stations and printers are plugged in.
3. Make sure all switches are set to the | (On) position.
4. Record the SRC code in case hardware service may be needed. Then refer to the information about the SRC code in this appendix and perform any recommended recovery procedures. If the SRC is still displayed, return here to IPL the system again using the following instructions:
5. To IPL the system again, do the following:
  - a. If the System/36 attachment programs are on a PC disk, go to item 5b.  
  
If the System/36 attachment programs are on diskettes, insert WORKING PC DSKT 01 (or WORKING PC DSKT 03 if you have configured for host graphics support) into PC diskette drive A.
  - b. Press and hold both the Alt key and the Ctrl key, then press the Del key.
  - c. A warning message is displayed. Repeat item 5b to begin the IPL.

After you IPL the system, you can then try the operation you were performing again.

If you desire more detail or the system reference code is not listed in this section, see the manual *IBM System/36 5364 System Unit System Reference Codes (SRC)*, SY31-9027, or call for hardware service.

---

Code	Cause and Response
0005	<p>The keystroke was invalid or the cursor was not in an input field.</p> <p>Press the Error Reset key and the Erase Input/Home key.</p> <p><i>Note:</i> The Error Reset key may also be called the Reset key if a keyboard template is used.</p>

---

0012 The computer tried to insert a character in the last position of a field or the last position of every field needs to be blank.

Press the Error Reset key.

---

0016 The Field Minus key was pressed in a numeric field that does not allow the minus (-) sign.

Press the Error Reset key.

---

0019 The Dup key was pressed in a field where it is not allowed.

Press the Error Reset key.

---

1410 An error occurred while accessing a System/36 attachment program file.

1411

1418

1419

141A

1420

1421

1422

1426

1427

1430

1431

Either make a new working copy of the PC DSKT 01 or recopy the PC DSKT 01 to the PC disk.

---

1416 An error occurred while initializing the 5250 emulation program.

1417

Press the Alt and Esc keys at the same time. The Session Selection menu will appear. Select option 1 for the DOS Session. If your System/36 attachment programs are on diskette, make sure PC DSKT 01 is in PC diskette drive A. If your attachment programs are on a PC disk, and if S36 is not the current directory, enter CD/36 and press the PC enter key. Enter S36S5250 and press the PC enter key. A 52xx message will appear.

---

2035 The option to reload the SSP and microcode was selected at the Service Control menu but the first SSP diskette is not inserted in the 5364 diskette drive.

Insert the correct diskette and IPL again.

---

210A The option to configure, customize, or verify the system was selected at the Service Control menu but the correct diskette is not inserted in the 5364 diskette drive.

Insert the correct diskette and IPL again.

---

2400 An IBM program error occurred.  
2401  
2402 Call for software service. You can still use the system as it was being used before this  
2403 reference code appeared. IPL the system again and continue.  
2404  
2405  
240A  
240C

---

240E An IBM program error occurred.  
Call for software service.

---

240F An IBM program error occurred.  
2410  
2416 Call for software service. You can still use the system as it was being used before this  
2417 reference code appeared. IPL the system again and continue.  
2450  
2451

---

2452 An IBM program error occurred.  
Perform IPL again. If you get the same reference code again, call for software service.

---

2453 An IBM program error occurred.  
Call for software service. You can still use the system as it was being used before this  
reference code appeared. IPL the system again and continue.

---

2454 An IBM program error occurred.  
Call for software service. You probably cannot use the system because of this reference  
code.

---

2455 An IBM program error occurred.  
Perform IPL again. If you get the same reference code again, call for software service.

---

2456 An IBM program error occurred.  
Call for software service. You can still use the system as it was being used before this  
reference code appeared. IPL the system again and continue.

---

2457           The wrong diskette was inserted.  
              Insert the correct diskette and try again. If you get the same reference code again, call for hardware service.

---

24A0           An IBM program error occurred.  
24A1           Call for software service.

---

24A3           An IBM program error occurred.  
24A4             
24A5           Call for software service. You can still use the system as it was being used before this  
24A6           reference code appeared. IPL the system again and continue.  
24A7             
24A8             
24A9           

---

24AA           An IBM program error occurred.  
24AC             
24AE           Call for software service. You probably cannot use the system because of this reference  
24AF           code.  
24C0             
24C1             
24C2             
24C3             
24C4             
24C5             
24FF           

---

50CE           The disk assembly in your computer is not working correctly.  
              Call for hardware service.

---

5100           An error occurred at a display station.

1. Press the assigned enter key at the system console to try again. If the same reference code is displayed again, record the port number and address of the failing display station.
2. Turn off the failing display station.
3. Press the assigned enter key to bypass the error condition.
4. After you complete system checkout, call for hardware service and report the port number and address of the failing display station.

---

5200

The printer has an error that you cannot fix.

1. Record the system reference code and printer address.
  2. Turn off the printer.
  3. Press the assigned enter key to bypass the error condition.
  4. After you complete system checkout, call for hardware service and report the system reference code and printer address.
- 

5210

The printer has a machine check.

1. Go to the operator's manual for that printer and perform the machine check recovery procedure.
  2. Press the assigned enter key at the system console to try again.
  3. If the same reference code is displayed again, record the port number and address of the failing printer.
  4. Turn off the printer.
  5. Press the assigned enter key at the system console to bypass the error condition.
- 

5226

The printer has a graphic check.

1. Go to the operator's manual for that printer and perform the graphic check recovery procedure.
2. Press the assigned enter key at the system console to try again.
3. If the same system reference code is displayed again, record the port number and address of the failing printer.
4. Turn off the printer.
5. Press the assigned enter key at the system console to bypass the error condition.

---

5230

The printer has a print check.

1. Go to the operator's manual for that printer and perform the print check recovery procedure.
  2. Press the assigned enter key at the system console to try again.
  3. If the same system reference code is displayed again, record the port number and address of the failing printer.
  4. Turn off the printer.
  5. Press the assigned enter key at the system console to bypass the error condition.
- 

5240

The printer has a forms check.

1. Go to the operator's manual for that printer and perform the forms check recovery procedure.
  2. Press the assigned enter key at the system console to try again.
  3. If the same system reference code is displayed again, record the port number and address of the failing printer.
  4. Turn off the printer.
  5. Press the assigned enter key at the system console to bypass the error condition.
- 

5247

The printer has a paper jam.

1. Go to the operator's manual for that printer and perform the paper jam recovery procedure.
2. Press the assigned enter key at the system console to try again.
3. If the same system reference code is displayed again, record the port number and address of the failing printer.
4. Turn off the printer.
5. Press the assigned enter key at the system console to bypass the error condition.



---

5250

The printer is out of forms.

For a PC printer attached to the system console:

1. Make sure the PC printer cable is attached to the personal computer.
2. Press both the Alt and Esc keys to display the Session Selection menu.
3. On the Session Selection menu, select the *printer control* option and press the PC enter key.
4. On the Printer Control display, select the option to stop the printer and press the assigned enter key.
5. Go to the operator's manual for the printer and perform the necessary recovery procedure.
6. On the Printer Control display, select the option to start the printer and press the assigned enter key.
7. Press both the Alt and Esc keys to display the Session Selection menu.
8. Return to the operation you were performing and press the assigned enter key.

For other printers:

1. Go to the operator's manual for that printer and perform the out-of-forms recovery procedure.
2. Press the assigned enter key at the system console to try again.
3. If the same system reference code is displayed again, record the port number and address of the failing printer.
4. Turn off the printer.
5. Press the assigned enter key at the system console to bypass the error condition.

---

5251

The printer is not ready.

For a PC printer, follow the instructions for system reference code 5250.

For other printers, go to the setup manual for the device you are working with for instructions on how to make the printer ready.

---

5288

The printer has a ribbon jam.

1. Go to the operator's manual for that printer and correct the ribbon jam.
  2. Press the assigned enter key at the system console to try again.
  3. If the same system reference code is displayed again, record the port number and address of the failing printer.
  4. Turn off the printer.
  5. Press the assigned enter key at the system console to bypass the error condition.
- 

5CCE

The Device Checkout Selection menu (display 51) does not appear on the system console.

1. Make sure that the system console is plugged in and that there is electrical power at the outlet.
  2. Make sure that the power switch on the system console is set to the | (On) position.
  3. Check the system console work station cable; it should be securely connected to the personal computer and port 1 on your computer.
  4. If you make the above checks and your computer still does not display the Device Checkout Selection menu, call for hardware service.
- 

9A28

A temporary memory failure occurred. The service passwords have been reset to initial values (*password* or *master*).

1. Select the *Change service level* option on the Service Control menu and press the PC enter key. The Service Level menu is displayed.
2. Select the *Change service level* option and press the PC enter key.
3. Enter *password* or *master* as the password. Select option 1 or 2 and press the PC enter key. The Service Control menu appears.
4. IPL the system again.
5. If system reference code 9A28 persists, call for hardware service.

## Appendix D. Changing Emulation Options for Host Graphics Support

### D.1

To complete the following steps, you must know how to use a personal computer editor and how to copy and erase personal computer files. If your attachment programs are on diskette, you might want to print the directory for each of the four PC DSKT diskettes before you begin. If your attachment programs are on disk, you might want to print the directory for the S36 subdirectory.

Before you begin, determine which device driver you need. (You will need to know which device driver to use in a later step.) The following device drivers are included in the attachment programs. If your attachment programs are on diskette, the device drivers are on WORKING PC DSKT 03. If your attachment programs are on disk, the device drivers are in the S36 subdirectory. Use the following chart to determine which device driver you want, depending on your display, your adapter, and the resolution you want for your display.

Device Driver	Monitor/Display	Graphics	
		Adapter	Resolution
VDIDY004	5153 Color Graphics	Color	320x200
VDIDY006	5153 Color Graphics	Color	640x200
VDIDY00D	5153 Color Graphics	Enhanced	320x200
VDIDY00E	5153 Color Graphics	Enhanced	640x200
VDIDY00F	5151 Monochrome	Enhanced	640x350
VDIDY010	5154 Enhanced Graphics	Enhanced	640x200
VDIDYPGD	5175 Professional Graphics	Professional	640x480

If you include graphics support in your profile data and later decide not to use the support, you must use the CONFIG procedure again to change your emulation profile data.

*Note: After you configure for host graphics support, PCGRAPH messages might be displayed. Refer to the manual **Operating Your Computer—5364** for information about these messages.*

Make sure you do not have a System/36 session active.

If your attachment programs are on diskette, continue with step D.2.

If your attachment programs are on disk, go to step D.3.

---

## D.2

To use CONFIG from PC diskettes:

1. If the file **COMMAND.COM** is on **WORKING PC DSKT 01**, erase the file from the diskette.

*Note: After you erase **COMMAND.COM** from **WORKING PC DSKT 01**, you must use **WORKING PC DSKT 03** to IPL the system.*

2. Make sure the following files are on **WORKING PC DSKT 01**. If any of the files are not on the diskette, copy the files from **WORKING PC DSKT 04** to **WORKING PC DSKT 01**:

- **PCGRAPH.COM**
- **PCVDI.EXE**
- **GR5250.COM**

3. Make sure the file **MODE.COM** is on **WORKING PC DSKT 03**. If it is not already on the diskette, copy the file from your DOS diskette to **WORKING PC DSKT 03**.

4. If you are using a device driver other than **VDIDY010**, use an editor to edit **CONFIG.SYS** on **WORKING PC DSKT 03** to specify the device driver you selected. Find the following statement in **CONFIG.SYS**:

```
DEVICE=A:VDIDY010.SYS /R
```

Change the name of the device driver to the one you selected. (Make sure, however, that the **/R** remains at the end of the statement.)

5. Insert **WORKING PC DSKT 02** in the personal computer diskette drive **A**. On the DOS prompt, enter the following:

```
CONFIG
```

Press the PC enter key. Go to step D.4.

IPL (initial program load) is the process of loading the system programs and preparing the system to run jobs.

## D.3

To use CONFIG from a PC disk:

1. Make sure the file MODE.COM is in your root directory. If it is not already in the directory, copy the file from your DOS diskette to your root directory.
2. If the file CONFIG.SYS is in your root directory, go to item 3.

If the file CONFIG.SYS is not in your root directory, copy the file from the S36 subdirectory. To copy the file, enter the following on the DOS prompt:

```
COPY d:\S36\CONFIG.SYS d:\CONFIG.SYS
```

where d: is the letter of the drive. Press the PC enter key.

3. The following statements must be present in the CONFIG.SYS file in your root directory. Use an editor to add or edit the following statements to specify the device driver you selected. The statements must be present in the order that they appear here:

```
DEVICE=d:\S36\VDIDYnnn.SYS /R
```

```
DEVICE=d:\S36\VDI.SYS /R
```

where d: is the letter of the drive for the S36 subdirectory and VDIDYnnn is the name of the device driver you selected.

Change the name of the device driver (in the first statement) to the one you selected.

4. If the file AUTOEXEC.BAT is in your root directory, go to item 5.

If the file AUTOEXEC.BAT is not in your root directory, copy the file from the S36 subdirectory. To copy the file, enter the following on the DOS prompt:

```
COPY d:\S36\AUTOEXEC.BAT d:\AUTOEXEC.BAT
```

where d: is the letter of the drive. Press the PC enter key.

5. Make sure the following commands are the first two commands in the AUTOEXEC.BAT file in your root directory. If they are not, use an editor to add the following commands to the beginning of your AUTOEXEC.BAT file:

```
MODE CO80
```

```
d:\S36\INIT_VDI
```

where d: is the letter of the drive for the S36 subdirectory.

If you have more than one disk drive, use the root directory of the drive that loads your system.

In the MODE command, the alphabetic characters CO stand for color; the number 80 stands for 80 columns on your display.

6. On the DOS prompt, enter:

```
CD d:\S36
```

where d: is the letter of the drive for the S36 subdirectory. Press the PC enter key.

7. On the DOS prompt, enter the following:

```
CONFIG
```

Press the PC enter key. Continue with step D.4.

---

## D.4

Help text is available during the CONFIG procedure.

1. When the IBM logo is displayed, press the PC enter key.
2. Refer to steps 3.4 through 3.10 to respond to the CONFIG displays. Return here when the Advanced Options menu is displayed.
3. On the Advanced Options menu, enter 3 to select display emulation options and press the PC enter key.
4. On the next display, enter 5 to select the emulated display device and PC/5292-2 graphics and press the PC enter key.
5. On the next display, enter 3 to select the 5292 Mod 2 Color Graphics Display for the session you want. Press the PC enter key.
6. On the next display, enter 1 to save profile data. Press the PC enter key.

7. The next display shows

```
DP5250.DAT
```

which is the name for the file that will contain the profile data. Press the PC enter key.

8. The display that appeared in item 6 reappears. Enter 2 to quit and press the PC enter key.

---

## D.5

If you want to change the options for host graphics support, you may do so now or after any IPL, **but you must use the GCONFIG procedure.** You must use GCONFIG to change the graphics options if you want to use a plotter.

If you do not want to change the options for host graphics support at this time, go to step 3.12.

If you want to use the GCONFIG procedure now, perform the following steps.

If you load the System/36 attachment programs from a diskette drive, continue with step D.6.

If you load the System/36 attachment programs from a PC disk drive, go to step D.7.

---

## D.6

To use GCONFIG from PC diskettes:

1. Insert WORKING PC DSKT 03 into PC diskette drive A.
2. Press and hold the Alt and Ctrl keys, then press the Del key. If a message is displayed, again press and hold the Alt and Ctrl keys, then press the Del key. DOS is reloaded.
3. When the system prompts you for the next diskette, insert WORKING PC DSKT 02 into PC diskette drive A. Press the PC enter key.
4. At the DOS prompt, enter the following:  

```
GCONFIG DP5250.DAT
```

Press the PC enter key.
5. The program displays the emulation options so you can make your changes. Help text is available during the GCONFIG procedure. After you have made your changes, save your profile data and end the GCONFIG procedure.
6. Go to step 3.12.

## D.7

To use GCONFIG from a PC disk:

1. Use an editor to change the AUTOEXEC.BAT file in your root directory. Change the line that contains S36 to the following:

```
REM S36
```

2. Press and hold the Alt and Ctrl keys, then press the Del key. If a message is displayed, again press and hold the Alt and Ctrl keys, then press the Del key. DOS is reloaded.

3. Display the DOS prompt. On the DOS prompt, enter the following:

```
GCONFIG DP5250.DAT
```

where DP5250.DAT is the name of the file that contains the profile data (saved in item 7 of step D.4). Press the PC enter key.

4. The program displays the emulation options so you can make your changes. Help text is available during the GCONFIG procedure. After you have made your changes, save the profile data and end the GCONFIG procedure.

5. Use an editor to change the AUTOEXEC.BAT file in your root directory. Change the line that contains REM S36 to the following:

```
S36
```

6. Go to Task 4, "Loading the System/36 Attachment Programs."



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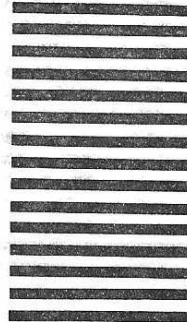
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