IBM System/36

Installing and
Customizing
Your System

5363

IBM System/36

Installing and Customizing Your System—5363

Program Number 5727-SS6

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.

Instructions to User: In many instances, shielded cables and connectors must be used for connection to peripherals. Proper IBM cables are available from authorized dealers. The manufacturer is not responsible for any radio or television interference caused by using other than the recommended cables or by unauthorized modifications to this equipment; it is the responsibility of the user to correct such interference.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

How to Identify and Resolve Radio-TV Interference Problems

This booklet is available from the following:

FOB Public Contact Branch
Room 725
1919 M St. NW
Washington, DC 20554
Tele. (202) 634-1940

Consumer Assistance and
 Small Business Division
Room 254
1919 M St. NW
Washington, DC 20554
Tele. (202) 632-7000

Contents

About This Manual

This manual, *Installing and Customizing Your System—5363*, is the second of three manuals you will use as you install yoJr System/36. 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 Computer—5363*, 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 and installing microcode. Instructions are also included for checking out your system and work stations. No special skills are required.

How this manual is arranged . . .

- Tasks 1 through 4 give instructions for customizing your System/36.

- Task 5 presents the steps required to load microcode.

- Task 6 contains procedures for checking out your system and work station(s).

- Appendix A contains information that will help you if you have a problem during installing or customizing.

- Appendix B lists the instructions for responding to system reference codes and indicators during setup and checkout.

What you should know . . .

You should have completed the instructions in the manual *Setting Up Your Computer—5363*.

You should have completed the required tasks and planning form F in the *System/36 Buyer's Guide* or in *Preparing to Install Your Work Stations—5363*.

When you have completed installing and customizing your system, read *Performing the First System Configuration for Your Computer — 5363*.

You should also know how to handle diskettes. This information is found in the section "Handling a Diskette."

Related Publications . . .

Customer/Operator Publications

- *Setting Up Your Computer—5363*, SA21-9926, contains procedures to:
  - Get ready for setup
  - Connect work stations
  - Install communication cables
  - Test the system

- *Performing the First System Configuration for Your Computer—5363*, SC21-9686, contains information needed to configure a new system.

- *Operating Your Computer—5363*, SC21-9685, contains system operating procedures for:
  - Subconsole operators
  - System console operators
  - Alternative console operators

- *Using Your Display Station—5363*, SC21-9692, contains display operating procedures for:
  - Command display station operators
  - Data display station operators

- *5363 System Reference Codes*, SY31-9055, contains information to perform tasks that use system commands, procedures, and OCL statements.

- *System Problem Determination—5363*, SC21-9684, contains error analysis information to isolate and determine the cause of the system and communications problems.

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.

Grasp the diskette by its upper edge, and pull it out of the envelope.

Do not touch these areas.

IBM
Diskette
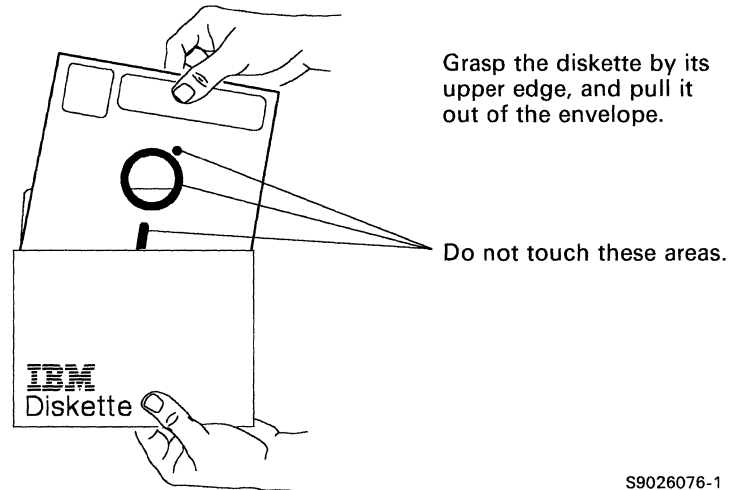
S9026076-1

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.
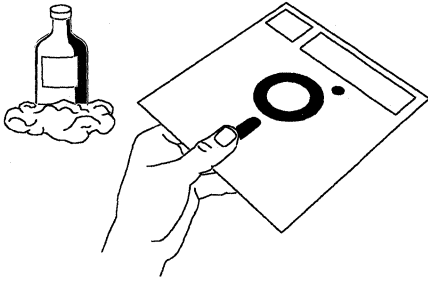
Do not lay a diskette near smoke or other things that can cause the diskette to be contaminated.
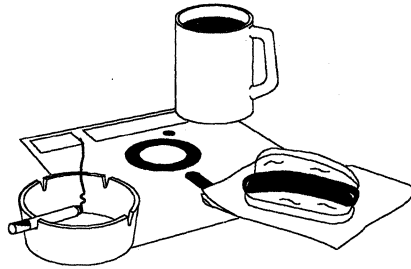
Do not use clips or rubber bands on a diskette.
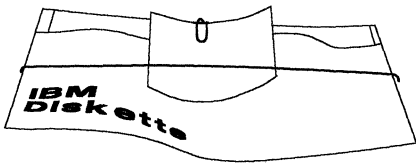
Do not place a diskette near magnetic materials. Data can be lost from a diskette exposed to a magnetic field.
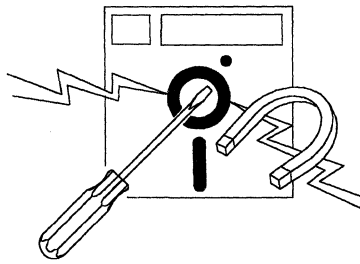
Do not place heavy books on a diskette.
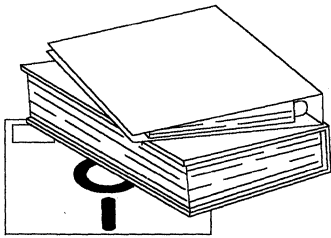
Do not expose diskettes to heat greater than 51.5°C (125°F) or to direct sunlight.
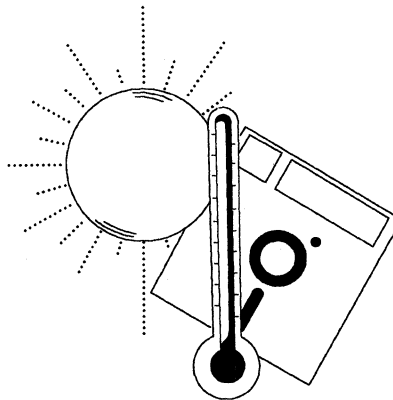
Do not write outside the label area on a diskette and only write on the label with a felt-tip pen.
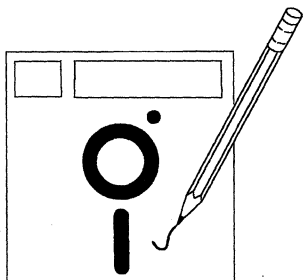
S9026077-1

Task 1. Preparing to Customize Your System

This task outlines what you need before you can begin customizing your 5363 System Unit.

Before you begin this task, make sure you have completed the instructions in the manual *Setting Up Your Computer—5363* .

1.1

Power on the system console, all display stations, and all printers.

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

- Diskettes:
  - MCODE DSKT 61 (Program 5727-SS6)
  - MCODE DSKT 62 (Program 5727-SS6)
- System/36 5363 publications:
  - *Operating Your Computer—5363*
  - *Preparing to Install Your Work Stations—5363*
  - *Preparing for Data Communications—5363* (if installing data communications)
  - *Performing the First System Configuration for Your Computer—5363*
  - *System Messages*

Remove the write-protect tape from **all** 5363 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.

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

1.2

Do you have a completed copy of Form F?

Form F — Local Work Station Diagram (5363) R36D313-1

Yes	No
Go to Task 2, "Making Customizing Decisions"	Form F should have been completed using *Preparing to Install Your Work Stations—5363.* (This is the same form that was used in the manual *Setting Up Your Computer—5363.*)
	Complete the form and continue with Task 2, "Making Customizing Decisions"

Task 2. Making Customizing Decisions

This task provides instructions for verifying your system customization.

2.1

Remove the MCODE DSKT 61 from the its jacket, insert it into the
5363 System Unit, and close the diskette locking lever.

R36H006-0
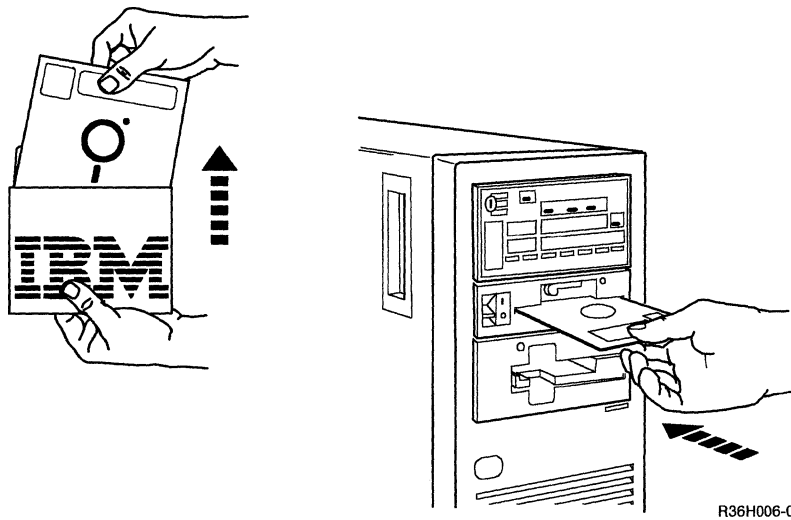
2.2

Check the position of the security lock. If the security lock is not in
the Service position, turn it to the Service position.

R36A023-0
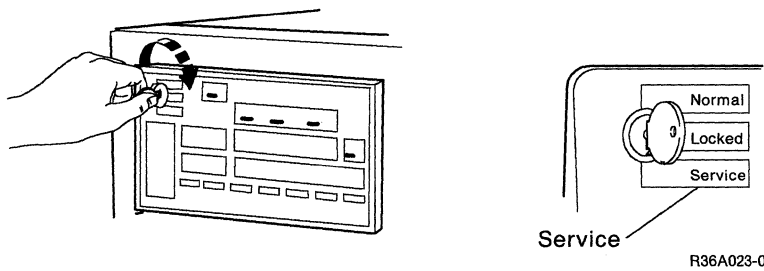
2.3

Plug in the system unit. Set the Power switch to the | (On) position.

R36H004-1
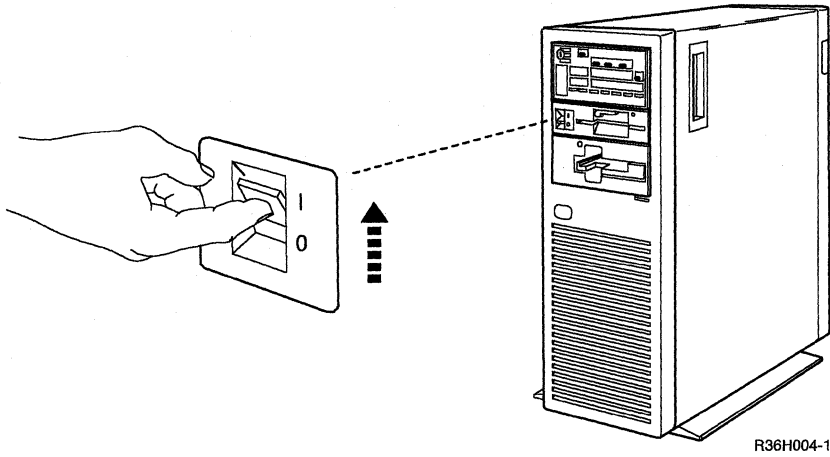
Note: If the Power On light does not come on, go to the *System Problem Determination—5363* manual.

2.4

Press the Select Function key until 3 appears in the Select Function display.

If you go beyond the number 3, just keep pressing the Select Function key until it appears again.
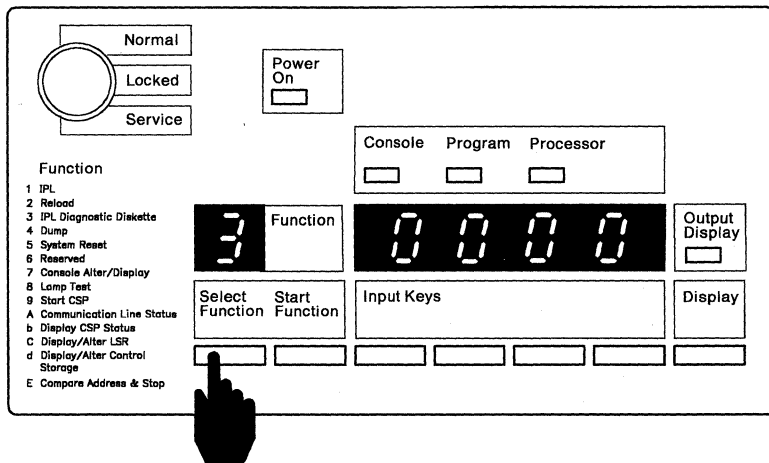
R36H002-1

Enter 1000 by pressing the first input key.

Normal
Locked
Service

Power On

Console   Program   Processor

Function
1 IPL
2 Reload
3 IPL Diagnostic Diskette
4 Dump
5 System Reset
6 Reserved
7 Console Alter/Display
8 Lamp Test
9 Start CSP
A Communication Line Status
b Display CSP Status
C Display/Alter LSR
d Display/Alter Control Storage
E Compare Address & Stop

Function

1 0 0 0

Output Display

Select Function   Start Function   Input Keys   Display

R36A015-1

An input key automatically advances the numbers (0 through 9) and letters (A through F) until you release the key.

Note: Letters b and d are displayed in lowercase.

If you go beyond the number 1, just keep pressing the input key until it shows up again.

1000 is a special code that the computer uses when the security key is in the Service position.

Press the Start Function key.

Normal
Locked
Service

Power On

Console   Program   Processor

Function
1 IPL
2 Reload
3 IPL Diagnostic Diskette
4 Dump
5 System Reset
6 Reserved
7 Console Alter/Display
8 Lamp Test
9 Start CSP
A Communication Line Status
b Display CSP Status
C Display/Alter LSR
d Display/Alter Control Storage
E Compare Address & Stop

Function

1 0 0 0

Output Display

Select Function   Start Function   Input Keys   Display

R36A017-1

A series of double bars moves across the control panel display and then numbers are displayed. During system checkout, characters will continue to appear and disappear on your system console in 30-second to 3-minute intervals until the system checkout is complete.

When you press the Start Function key, the computer takes from 4 to 10 minutes to check itself to make sure it is ready to operate.

2.6

Go to the system console. Display 01 appears when the system check is completed.

```
┌─────────────────────────────────────────────────────────────────┐
│ 01              SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM             │
│                                                                   │
│                 DOCUMENTATION GROUP SELECTION MENU                │
│                                                                   │
│                                                                   │
│ SELECT ONE OF THE FOLLOWING OPTIONS AND PRESS THE ENTER KEY.      │
│                                                                   │
│     1. \STERREICH/DEUTSCHLAND      10. pt   (pr   )               │
│     2. BELGIE (VLAAMS)             11. NEDERLAND                   │
│     3. BELGIQUE (FRANCAIS)         12. NORGE                       │
│     4. CANADA (FRANCAIS)           13. PORTUGAL                    │
│     5. DANMARK                     14. ESPA#A                      │
│     6. SUOMI                       15. HABLA ESOA#OLA              │
│     7. FRANCE                      16. SVERIGE                     │
│     8. ITALIA                      17. UNITED KINGDOM              │
│     9. JAPAN (ENGLISH)             18. UNITED STATES               │
│                                                                   │
│                                                                   │
│  Option: _                                                        │
│                                                                   │
│                                                                   │
└─────────────────────────────────────────────────────────────────┘
```

Note: Displays 01, 08 and 10 will appear **ONLY THE FIRST TIME** the diskettes are used. Thereafter, display 02 will be the first screen displayed.

The Configure-Customize Program display number is always in the upper left corner of the display.

Is display 01 on the system console?

Yes

↓

No

Go to step 2.10. If you select the wrong option and see Invalid Input or Invalid Selection shown at the bottom of your display, type in the correct option and press the Enter key.

On some display stations, four numbers identifying the cursor position on the screen appear in the lower left corner of the display. They change when the cursor moves to a new position. Do not confuse these numbers with the system reference code (also four numbers).

A system reference code (if one is displayed) appears in the lower left corner, in the first four positions. 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 B.

Notes:

1. Some system reference codes have an alphabetic prefix. If one of those system reference codes appear, the cursor position numbers (if the device has them) move to the right.

2. You must complete the Configure-Customize Program. Any changes made during Configure-Customize do not take effect until the Configure-Customize Program is completed and your computer is IPLed.

2.7

Type in the Documentation Group number to be used on the system.

Press the Enter key.

2.8

Display 08 appears on the system console.

```
08            SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                  Keyboard character set selection


Select one of the following:

   1. Austria/Germany            14. Japanese (Katakana)
   2. Belgium                        (with Enhanced keyboard)
   3. Canadian French            15. Norway
   4. Denmark                    16. Portugal
   5. Finland                    17. Spain
   6. France (AZERTY)            18. Spanish Speaking)
   7. France (QWERTY)            19. Sweden
   8. International              20. Swiss (French)
   9. Italy                      21. Swiss (German)
  10. Japan (English)            22. United Kingdom
  11. Japanese (Kanji)           23. United States
  12. Japanese (Kanji)           24. Netherlands
      (with Enhanced keyboard)
  13. Japan (Katakana)           25. Special Character Set (PRQ)

Option: __    Press the Enter key
```

Type in the Keyboard Character Set number to be used on the system.

Press the Enter key.

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

The *keyboard character* is the predefined set of alphabetic, numeric, and special characters on a keyboard used for a given country.

2.9

Display 10 appears on the system console.

```
 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
```

Type in the Computer Location number.

Press the Enter key.

2.10

Is display 02 shown on the system console?

Yes	No
↓	Look for a system reference code on the panel and go to Appendix B, "Responding to System Reference Codes."

2.11

```
┌──────────────────────────────────────────────────────────────────┐
│  02              SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM             │
│                       Configuration Verification                  │
│                                                                    │
│  Is the following configuration list correct (1 = Yes, 2 = No)?   │
│                                (See note 1)                       │
│                                                                    │
│                                                                    │
│         Documentation group . . . . . . . . United States         │
│         Disk storage size . . . . . . . . . 67.5M 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 supported . . No                    │
│                                                                    │
│                                                                    │
│  Option: _   Press the Enter key                                  │
│                                                                    │
│  Note 1:  Features installed will appear when option 1 is chosen  │
│  Note 2:  Country other than Canada, Japan, or United States      │
│                                                                    │
└──────────────────────────────────────────────────────────────────┘
```

Check to see that the items on display 02 match your requirements.
The items to be checked are:

- **Documentation group**: The documentation group is the language in
  which your prompts and menus are displayed. The following lan-
  guages are available:

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

- **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. Refer to the display in step 2.8 for a list of the avail-
  able character sets.

- **Multinational character set**: The multinational character set pro-
  vides additional characters for language groups. (The default is
  No.)

- **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. If you choose to use extended input fields, this increase is accompanied by a decrease in the maximum number of local work stations that may be supported, as follows:

  - If no expansion feature installed, the decrease is from 16 to 9.

  - If expansion feature installed, the decrease is from 28 to 14.

  (The default is No.)

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.** Go to Task 4, "Customizing for Your Features"

No

Do not select an option for display 02 at this time. You have completed this task. **You must correct display 02 to match your requirements**. Go to Task 3, "Correcting Customizing Problems"

Task 3. Correcting Customizing Problems

This task provides instructions for correcting the customizing items that did not match your requirements in Task 2, "Making Customizing Decisions."

3.1

```
02                    SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
                           Configuration Verification

Is the following configuration list correct (1 = Yes, 2 = No)?
                               (See note 1)



      Documentation group . . . . . . . . United States
      Disk storage size . . . . . . . . . 67.5M 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 supported . . No



Option: _    Press the Enter key

Note 1:  Features installed will appear when option 1 is chosen
Note 2:  Country other than Canada, Japan, or United States
```

Type in 2 on display 02 and press the Enter key.

3.2

Display 19 appears.

```
┌─────────────────────────────────────────────────────────────┐
│  19              SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM        │
│                       Incorrect configuration                │
│                                                              │
│  Select an item to be corrected:                            │
│                                                              │
│                                                              │
│    1. Documentation group . . . . . . . . United States     │
│    2. Disk storage size . . . . . . . . . 67.5M bytes       │
│    3. Keyboard character set  . . . . . . United States     │
│    4. Multinational character set . . . . No                │
│    5. Computer location . . . . . . . . . Other (See note 2)│
│    6. RPQ to be installed . . . . . . . . No                │
│    7. Computer serial number. . . . . . . 1234567           │
│    8. Extended input fields supported . . No                │
│                                                              │
│                                                              │
│                                                              │
│                                                              │
│  Option: __   Press the Enter key                           │
│                                                              │
│                                                              │
│  Note 2:  Country other than Canada, Japan, or United States│
│                                                              │
└─────────────────────────────────────────────────────────────┘
```

1. Type in the number indicating what item is not correct on display 19 and press the Enter key.

2. Go to the appropriate step in this section determined by using the following chart. For example, if you want to correct the keyboard character set, go to step 3.5.

Option	Step
Documentation group	3.3
Disk storage size	3.4
Keyboard character set	3.5
Multinational character set	3.7
Computer location	3.6
Extended input fields	3.7

   If you return to this step again after attempting to correct the option, call for hardware or software service.

3.3

Type in the Documentation Group number to be used on the system and press the Enter key. Go to step 3.8.

A list of the available languages for the documentation group can be found in step 2.11 in Task 2, "Making Customizing Decisions."

```
01                SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                  DOCUMENTATION GROUP SELECTION MENU


SELECT ONE OF THE FOLLOWING OPTIONS AND PRESS THE ENTER KEY.

   1. \STERREICH/DEUTSCHLAND      10. pt   (pr   )
   2. BELGIE (VLAAMS)             11. NEDERLAND
   3. BELGIQUE (FRANCAIS)         12. NORGE
   4. CANADA (FRANCAIS)           13. PORTUGAL
   5. DANMARK                     14. ESPA#A
   6. SUOMI                       15. HABLA ESOA#OLA
   7. FRANCE                      16. SVERIGE
   8. ITALIA                      17. UNITED KINGDOM
   9. JAPAN (ENGLISH)             18. UNITED STATES



Option: _
```

3.4

Display 07 appears.
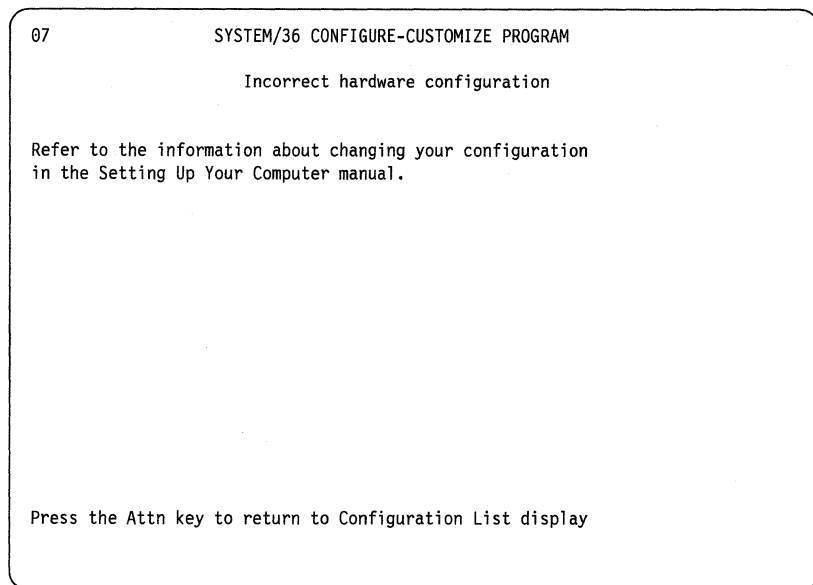
It is not necessary to refer to the manual *Setting Up Your Computer—5363*. The information about changing your hardware configuration previously found in that manual is covered in this step.

```
07              SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                   Incorrect hardware configuration


Refer to the information about changing your configuration
in the Setting Up Your Computer manual.














Press the Attn key to return to Configuration List display
```

If the **disk storage size** is incorrect, call for hardware service.

Return to display 02 by pressing the Attn key. Go to step 3.8.

3.5

Display 08 appears.

```
08              SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                   Keyboard character set selection


Select one of the following:

    1. Austria/Germany          14. Japanese (Katakana)
    2. Belgium                      (with Enhanced keyboard)
    3. Canadian French          15. Norway
    4. Denmark                  16. Portugal
    5. Finland                  17. Spain
    6. France (AZERTY)          18. Spanish Speaking)
    7. France (QWERTY)          19. Sweden
    8. International            20. Swiss (French)
    9. Italy                    21. Swiss (German)
   10. Japan (English)          22. United Kingdom
   11. Japanese (Kanji)         23. United States
   12. Japanese (Kanji)         24. Netherlands
       (with Enhanced keyboard)
   13. Japan (Katakana)         25. Special Character Set (PRQ)

Option: __    Press the Enter key
```

Type in the correct keyboard character set and press the Enter key.
Go to step 3.8.

3.6

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
```

Type in the correct computer location and press the Enter key.
Display 02 appears. Go to step 3.8.

3.7

The computer automatically updated display 02 when you pressed the
Enter key in step 3.2 of this task. Go to step 3.8.

3.8

```
 02                   SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
                            Configuration Verification

 Is the following configuration list correct (1 = Yes, 2 = No)?
                                (See note 1)



        Documentation group . . . . . . . . United States
        Disk storage size . . . . . . . . . 67.5M 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 supported . . No



 Option: _   Press the Enter key

 Note 1:  Features installed will appear when option 1 is chosen
 Note 2:  Country other than Canada, Japan, or United States
```

Do the corrected items on display 02 now match your requirements?

Yes	**No**
↓	Return to the beginning of this task. If, after returning to make the *same* correction(s), the item(s) still do not match your requirements, call for software service.

3.9

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

Yes	**No**
Return to the beginning of this task to correct any other customizing item(s).	Do not select an option for display 02 at this time. **You have completed this task**. Continue with Task 4, "Customizing for Your Features."

Task 4. Customizing for Your Features

This task provides instructions for customizing for your features.

4.1

Make sure the MCODE DSKT 61 is in the 5363 System Unit.

4.2

Display 02 is on the screen.

```
02                  SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
                             Configuration Verification

Is the following configuration list correct (1 = Yes, 2 = No)?
                                 (See note 1)



     Documentation group . . . . . . . . United States
     Disk storage size . . . . . . . . . 67.5M 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 supported . . No



Option: _   Press the Enter key

Note 1:  Features installed will appear when option 1 is chosen
Note 2:  Country other than Canada, Japan, or United States
```

Type in 1 and press the Enter key.

4.3

Display 35 appears.

```
35              SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
                        Configuration verification
                           Features Installed

Is the following configuration list correct (1 = Yes, 2 = No)?



     Main Storage size . . . . . . . . . 1024K byte
     Workstations supported  . . . . . . 16
     Communications types
         Line 1  . . . . . . . . . . . . PC Async
         Line 2  . . . . . . . . . . . . PC Async
     6157 Tape Drive supported . . . . . No
     LAN Line  9 . . . . . . . . . . . . IBM Token-Ring
     LAN Line 10 . . . . . . . . . . . . IBM Token-Ring



Option: _  Press the Enter key


```

Do you see a message line (for Note 2) on display 35?

No   **Yes**

- If you do not have an IBM Realtime Interface Coprocessor feature for communications, the display will have 2 lines for communication.

- If you have an IBM Realtime Interface Coprocessor feature for communications, the display will have 4 lines for communication, numbered 1, 2, 3 and 4. However, the 5363 supports a maximum of only 3 lines.

4.4

Check to see that the items on display 35 in step 4.3 match your requirements. The items to be checked are:

- **Main storage**: The size listed should be the storage size that you ordered.

- **Work stations supported**: The work stations supported include the system console, the system printer, and any additional local work stations. The number shown on display 35 represents the maximum number of work stations allowed for your system rather than the number you currently support. The number of work stations allowed depends on the storage available and whether or not you use extended input fields, as follows:

  - If no work station expansion feature installed, 16 work stations are allowed. If extended input fields are used, support decreases to 9 work stations.

  - If the work station expansion feature is installed, 28 work stations are allowed. If the extended input fields are used, support decreases to 14 work stations.

- **Communications types**: If you have remote work stations, the communications type is SDLC or X.25/SDLC. If you have a communications line to a remote system, it may be either ASYNC, BSC, SDLC or X.25/SDLC. If you have neither, you will see the words Not installed.

- **6157 Tape Drive supported**: If you have an internal tape drive installed, you will see the word Yes.

- **LAN lines supported**: If you have LAN lines installed, you will see the words IBM Token-Ring. (If you do not have the feature, you will see the words Not installed.)

ASYNC = Asynchronous Communications

BSC = Binary Synchronous Communications

SDLC = Synchronous Data Link Control

X.25/SDLC = IBM Realtime Interface Coprocessor is installed and can support X.25 or SDLC. See *Preparing for Data Communications—5363* for valid configurations.

Do those items on display 35 match your requirements?

No	Yes
↓	**You have completed this task.** Go to Task 5, "Installing Your Microcode"

4.5

Type in 2 on display 35 and press the Enter key. Display 36 appears.

```
┌─────────────────────────────────────────────────────────────────────┐
│  36                SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM              │
│                        Incorrect configuration                        │
│                         Features Installed                            │
│                                                                       │
│  Select an item to be corrected:                                      │
│                                                                       │
│                                                                       │
│     1. Main Storage size . . . . . . . . . 1024K byte                 │
│     2. Workstations supported  . . . . . . 16                         │
│     3. Communications types                                           │
│             Line 1 . . . . . . . . . . . . PC Async                   │
│             Line 2 . . . . . . . . . . . . PC Async                   │
│     4. Tape drive installed  . . . . . . . No                         │
│     5. LAN Line  9 . . . . . . . . . . . . IBM Token-Ring             │
│     6. LAN Line 10 . . . . . . . . . . . . IBM Token-Ring             │
│                                                                       │
│                                                                       │
│                                                                       │
│  Option: _   Press the Enter key                                      │
│                                                                       │
│                                                                       │
└─────────────────────────────────────────────────────────────────────┘
```

Select the option indicating which item is not correct on display 36 and press the Enter key.

4.6

Display 07 appears.

```
 07              SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                   Incorrect hardware configuration


Refer to the information about changing your configuration
in the Setting Up Your Computer manual.












Press the Attn key to return to Configuration List display
```
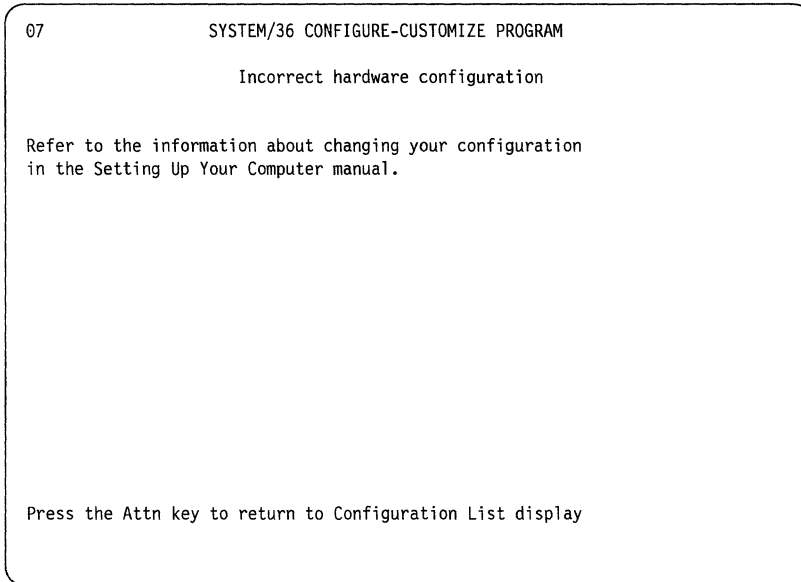
To clear display 07, press the Attn key. Display 02 appears. Go to step 2.11.

Note: It is not necessary to refer to the manual *Setting Up Your Computer—5363*. The information about changing your hardware configuration previously found in that manual is covered in this step.

Refer to the following instructions for the item(s) you wish to correct:

- **Main storage size**: If main storage size is incorrect, call for hardware service.

- **Communications feature(s)**: If the communications feature(s) is incorrect, call for hardware service.

- **6157 Tape Drive supported**: If Tape Support is incorrect, call for hardware service.

- **LAN lines supported**: If LAN support is incorrect, call for hardware service.

The maximum number of work stations supported **where extended input fields are not supported** (as indicated previously on display 02) is as follows:

- 16 (no work station expansion)

- 28 (work station expansion)

4.6 (continued)

The maximum number of work stations supported **where extended input fields are supported** (as indicated previously on display 02) is as follows:

- 9 (no work station expansion)
- 14 (work station expansion)

If you wish to change the maximum number of work stations back to the number previously displayed, return to step 3.1 by pressing the Attn key.

If the maximum number of work stations supported is not listed above or is not correct for your system, call for hardware service.

If the item is installed according to installation instructions and the problem still exists, set the power switches to the O (Off) position on all work stations attached to the 5363 System Unit and the 5363 System Unit. Call for hardware service.

After you have corrected any problem(s) listed in this step, return to Task 2, "Making Customizing Decisions" to continue in this manual.

4.7

Do the corrected items on display 35 in step 4.3 now match your requirements?

Yes	No
Do not select an option for display 35 at this time. **You have completed this task**. Continue with Task 5, "Installing Your Microcode."	Return to the beginning of this task. If, after returning to make the *same* correction(s), the item(s) still do not match your requirements, call for software service.

Task 5. Installing Your Microcode

This task provides instructions for installing your microcode.

The information takes about 7 to 9 minutes to be processed. You should stay at the computer to respond to the system's requests.

5.1

```
35                  SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM
                         Configuration verification
                            Features Installed

Is the following configuration list correct (1 = Yes, 2 = No)?



      Main Storage size . . . . . . . . . 1024K byte
      Workstations supported  . . . . . . 16
      Communications types
           Line 1 . . . . . . . . . . . . PC Async
           Line 2 . . . . . . . . . . . . PC Async
      6157 Tape Drive supported . . . . . No
      LAN Line  9 . . . . . . . . . . . . IBM Token-Ring
      LAN Line 10 . . . . . . . . . . . . IBM Token-Ring



Option: _  Press the Enter key
```

Type in 1 on display 35 and press the Enter key.

5.2

Display 03 appears.

```
┌─────────────────────────────────────────────────────────────┐
│ 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                                          │
│                                                               │
└─────────────────────────────────────────────────────────────┘
```

Type in 2 and press the Enter key.

5.3

Display 16 appears.

```
┌──────────────────────────────────────────────────────────┐
│ 16               SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM     │
│                                                            │
│                          Diskette 62                       │
│                                                            │
│                                                            │
│ Insert diskette 62 into the System/36 system unit          │
│ Press the Enter key                                        │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
└──────────────────────────────────────────────────────────┘
```

Remove MCODE DSKT 61 from the 5363 System Unit and insert
MCODE DSKT 62. Press the Enter key.

Display 20 appears when the program is processing.

```
┌──────────────────────────────────────────────────────────┐
│ 20               SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM     │
│                                                            │
│                        Program in process                  │
│                                                            │
│ The program is processing.                                 │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
│                                                            │
└──────────────────────────────────────────────────────────┘
```

Note: Display 20 will appear
each time the MCODE
DSKT 61 or MCODE
DSKT 62 is processing.

5.4

When the information from MCODE DSKT 62 is processed, display
17 appears.

```
17                   SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                              Diskette 61


Insert diskette 61 into the System/36 system unit
Press the Enter key
```
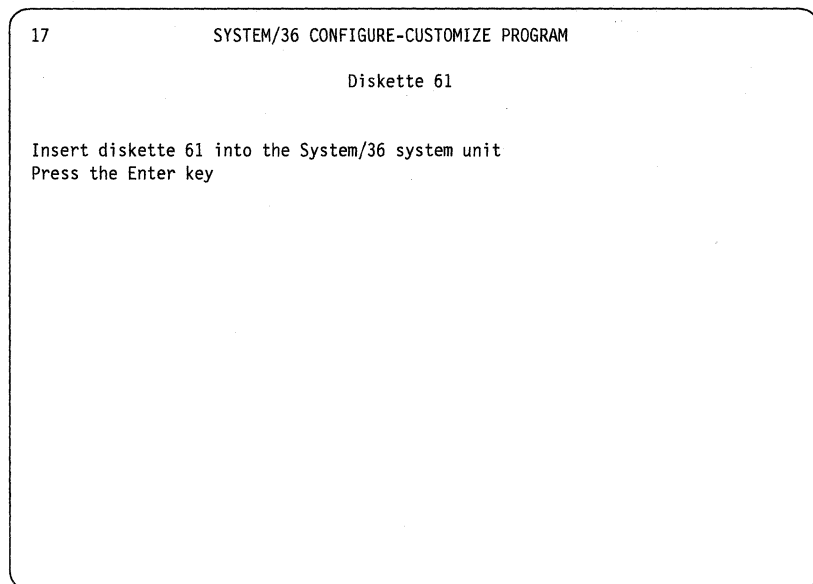
Remove MCODE DSKT 62 from the 5363 System Unit and insert
MCODE DSKT 61. Press the Enter key. Display 20 appears.

5.5

When the information on MCODE DSKT 61 is processed, display 16 appears.

```
16                SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                           Diskette 62


Insert diskette 62 into the System/36 system unit
Press the Enter key
```

Remove MCODE DSKT 61 from the 5363 System Unit and insert MCODE DSKT 62. Press the Enter key. Display 20 appears.

5.6

When the information on the MCODE DSKT 62 is processed, display 17 appears.

```
17                    SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                                Diskette 61


Insert diskette 61 into the System/36 system unit
Press the Enter key
```

Remove MCODE DSKT 62 from the 5363 System Unit and place it in its jacket,
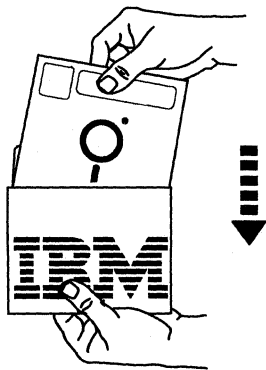
B9085006-1

Insert MCODE DSKT 61 and press the Enter key. Display 20 will appear.

5.7

Display 18 appears after the MCODE DSKT 61 is processed.

```
18                  SYSTEM/36 CONFIGURE-CUSTOMIZE PROGRAM

                        Configure-customize completion


You have completed configure-customize

Note: Any patches or MPTF's that were applied to the disk
      have been destroyed. MPTF's must be reapplied.


Press the Enter key to start
the Checkout program.
```

You do not need to apply or reapply any patches or MPTFs at this
time. A *patch* or *MPTF* is a diskette that provides a microcode
program temporary fix when applied.

Press the Enter key.

5.8

Display 51 appears.

```
51                    SYSTEM/36 CHECKOUT PROGRAM

                      Device Checkout Selection Menu


Select one of the following options and press the Enter key:

   1. Work station
   2. End checkout








Option: _
```

Do not select an option for display 51 at this time. **You have completed this task.** Go to Task 6, "Checking Out Your System and Work Station(s)" in this manual.

Task 6. Checking Out Your System and Work Station(s)

This task provides instructions for checking out your system and work station(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 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 61 is in the 5363 System Unit.

- On each display station that has a security key, the key is turned to the On (unlocked) position (see the setup manual for that display station).

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

6.1

```
┌─────────────────────────────────────────────────────────────────┐
│ 51                    SYSTEM/36 CHECKOUT PROGRAM                  │
│                                                                   │
│                     Device Checkout Selection Menu                │
│                                                                   │
│                                                                   │
│ Select one of the following options and press the Enter key:      │
│                                                                   │
│   1. Work station                                                 │
│   2. End checkout                                                 │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│ Option: _                                                         │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
└─────────────────────────────────────────────────────────────────┘
```

Type in 1 on display 51 and press the Enter key.

Display 51 appears when you complete Task 5, "Installing Your Microcode."

6.2

Display 61 appears.

```
61                    SYSTEM/36 CHECKOUT PROGRAM

                           Work Station


Compare the following with your local work station diagram.

                      Address
          0    1    2    3    4    5    6
                                              Port
          _____
          D . . . . . . . . . . . . . . . .|   0
          D . . D . . D . . . . . . . . . .|   1
          . . . . . . . . . . . . . . . . .|   2
          . . . . . . . . . . . . . . . . .|   3

D = Display station
P = Work station printer

This shows all correctly installed work stations at this time.

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

Compare display 61 (Work Station) to Form F.

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

Yes   **No**

↓   Go to
                                 Appendix A, "Responding to
                                 System Problems."

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.

Note:

- 7 maximum devices per port for work station expansion feature, with a maximum of 28 work stations total.

- 7 maximum devices per port for no work station expansion feature, with a maximum of 16 work stations total.

6.3

Press the Enter key on the system console. Display 65 appears on the system console.

```
65                    SYSTEM/36 CHECKOUT PROGRAM

                            Work Station


All display stations (except the system console) should now display
   their address. All work station printers should have printed
   their address.











Press ENTER key to continue.

```

Note: If display 62 appears, read and follow the instructions on the screen. If the error still exists, go to Appendix A, "Responding to System Problems."

6.4

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 A, "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).

Local Work Station Diagram — Form F — 5363

R36D313-1

6.5

Did you find the correct address and port number displayed at each display station or printed at each printer?

Yes	No
↓	Go to Appendix A, "Responding to System Problems."

6.6

Press the Enter key on the system console. Display 66 or 61 appears on the system console.

6.7

Go to the appropriate step.

If **display 66** appears, continue with the next step.

```
66                    SYSTEM/36 CHECKOUT PROGRAM

                            Work Station


End of work station checkout.








Press the ATTN key to return to selection menu.
```

If **display 61** appears, return to step 6.2 in this task and again compare display 61 to Form F.

6.8

Press the Attn key. Display 51 appears.

```
51                  SYSTEM/36 CHECKOUT PROGRAM

                   Device Checkout Selection Menu


Select one of the following options and press the Enter key:

  1. Work station
  2. End checkout










Option: _



```

Type in 2 on display 51, and then press the Enter key.

6.9

Display 52 appears.

```
52                  SYSTEM/36 CHECKOUT PROGRAM

                          End Checkout


This ends the SYSTEM/36 Checkout Program.










Press the Attn Key to return to selection menu.


```

Go to step 6.10.

6.10

Remove MCODE DSKT 61 from the 5363 System Unit and place it in its jacket.

B9085006-1

6.11

Set the power switch on the 5363 System Unit to the O (Off) position.
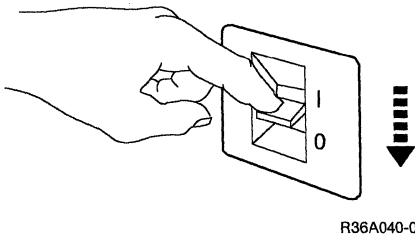
R36A040-0

6.12

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 Computer—5363* to configure your system.

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

Appendix A. Responding to System Problems

If a problem occurs during setup, this appendix contains procedures that will help you find the problem. More problems are covered in the manual *System Problem Determination—5363*. If you get a system reference code (SRC), refer to Appendix B, "Responding to System Reference Codes."

Procedures are provided for the following problems:

A.1   No Power

A.2   Work Station Addresses and Port Numbers Do Not Match

A.3   Information Cannot Be Entered from the Keyboard and Displayed

A.4   Faulty 2K Segments in Main Storage

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.

A.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.

A.2

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 and the device is **Ready** or **On-Line**.

2. Make sure the key is turned to the On (unlocked) position (see the setup manual for that display station).

3. Check the work station addresses 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.

HR36D309-0
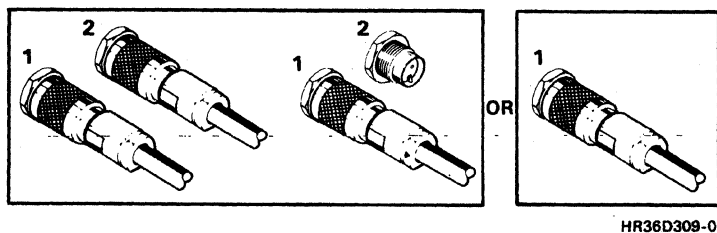
If **two cables** are connected, set the Terminator switch to 2. (Cables attached to the 5363 System Unit or the second port of a work station **must** have a work station attached at the other end of the cable. If you decide to remove a work station, you must also remove its cable from the 5363 System Unit or connecting work station.)

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 Enter key at the system console to update display 61. Then go back to step 6.2 in Task 6, "Checking Out Your System and Work Station(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 Enter key on the system console.

   d. Continue the system checkout in step 6.7 in Task 6, "Checking Out Your System and Work Station(s)."

   e. Call for hardware service after you complete the system checkout.

A.3

Information Cannot Be Entered from the Keyboard and Displayed

1. Make sure the keyboard cable connection on the display station that you are working with is secure.

HB9505706
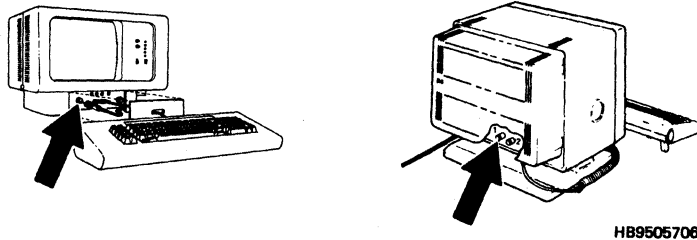
2. If the display station has the keylock feature, make sure the key is turned to the on position (see the setup manual for that display station).

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 6.4 in Task 6, "Checking Out Your System and Work Station(s)." Otherwise, go to step 6.6.

A.4

Faulty 2K Segments in Main Storage

* If the number near the bottom of display 35 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 35 is less than or equal to 7, you can continue with setup. However, the main storage card in your computer has defective 2K segments.

   DO NOT POWER DOWN THE SYSTEM. Call for hardware service and report the defective main storage card. Follow the hardware service personnel's instructions.

Appendix B. 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 reset the system, power it off, wait 10 seconds and then power the system on.

You can then try the operation you were performing again.

If the system reference code is not listed in this section, see the manual *System Problem Determination—5363*, or call for hardware service.

Code	Cause and Response
0005	The keystroke was invalid or the cursor was not in an input field. Press the Error Reset key and the Erase Input/Home key. **Note:** The Error Reset key may also be called the Reset key if a keyboard template is used.
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.
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 5363 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 5363 diskette drive. Insert the correct diskette and IPL again.
2400 2401 2402 2403 2404 2405 240A 240C	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.
240E	An IBM program error occurred. Call for software service.
240F 2410 2416 2417 2450 2451	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.
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
24A1 | An IBM program error occurred.

Call for software service. |
| 24A3
24A4
24A5
24A6
24A7
24A8
24A9 | 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. |
| 24AA
24AC
24AE
24AF
24C0
24C1
24C2
24C3
24C4
24C5
24FF | An IBM program error occurred.

Call for software service. You probably cannot use the system because of this reference code. |
| 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 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 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 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 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 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 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 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 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 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 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 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 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 Enter key at the system console to bypass the error condition.

5250   The printer is out of forms.

1. Go to the operator's manual for that printer and perform the out-of-forms recovery procedure.

2. Press the 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 Enter key at the system console to bypass the error condition.

5251   The printer is not ready.

Go to the setup manual for that printer and follow the 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 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 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 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.
CFB2	The tape attachment is not working properly. Call for hardware service.
CF01	Call for hardware service.
CF61	The work station is not working properly Call for hardware service.
CF65	The disk or diskette is not working properly. Call for hardware service.
CF83	The communication is not working properly. Call for hardware service.
CFA7	The disk is not working properly. Call for hardware service.
CFC2	The work station is not working properly. Call for hardware service.
CFD2	The diskette is not working properly. Call for hardware service.
CF63	The feature IOP is not working properly. Call for hardware service.
F000	The option to configure, customize, or verify the system was selected. The correct diskette is not inserted in the 5363 diskette drive. Insert the correct diskette and IPL the system again.

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