IBM Displaywriter System
Customer Setup Guide
Check the FCC label on the back of the Electronics Module to determine which of the following warning statements applies to your IBM Displaywriter System.

**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. As temporarily permitted by regulation it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference. 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.

**Warning:** This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions 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.

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**Third Edition (February 1981)**

Changes are periodically made to the information herein; these changes will be incorporated in new editions of this publication.

Use this publication only for the purposes stated in the Preface.

Publications are not stocked at the address below. Requests for copies of IBM publications and for technical information about the system should be made to your IBM representative or to the branch office serving your locality.

This publication could contain technical inaccuracies or typographical errors. Use the Reader's Comment Form at the back of this publication to make comment about this publication. If the form has been removed, address your comments to IBM Corporation, Information Development, Department 95H, Building 998, 11400 Burnet Road, Austin, Texas, 78758. IBM may use and distribute any of the information you supply in any way it believes appropriate without incurring any obligation whatever. You may, of course, continue to use the information you supply.

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Preface

Purpose
This Publication provides step-by-step instructions for unpacking and setting up the IBM Displaywriter System components.

Audience
This publication is intended for IBM Displaywriter System customer personnel who are responsible for setting up the system in the work area.

Contents
This guide has five sections:

- Section 0. “Operator Information”, contains information the operator needs if setup problems occur, and also an introduction to the IBM Displaywriter System to help the operator identify system components.

- Section 1. “Single Displaywriter System; Unpacking, Setup, and Testing”, contains instructions for placing components, cabling, and testing the single system.

- Section 2. “Printer Sharing Displaywriter System; Unpacking, Setup, and Testing”, contains instructions for placing components, cabling, and testing the printer sharing system.

- Section 3. “IBM 5215 ‘Selectric’ Element Printer; Unpacking and Setup”, contains instructions for placing and cabling the printer to the work station.

- Section 4. “Relocating the System”, contains information needed if it becomes necessary to uncable and relocate the system.

Prerequisite Reading
The Customer Planning Guide for the IBM Displaywriter System, G544-0852. This publication provides the information needed to successfully prepare for the arrival and setup of the system. The guide discusses such topics as system component sizes and weights, furniture dimensions, supplies, and physical, electrical, and environmental requirements of the system.

Related Publication
The IBM 5218 Printwheel Printer Setup Procedures, GA23-1007. This publication provides the procedures used to set up the IBM 5218 Printer and cable-connect it to the IBM Displaywriter System.
Contents

Section 0. Operator Information .............................. 0-1

Section 1. Single Displaywriter System; Unpacking, Setup, and Testing ............................... 1-1

Section 2. Printer Sharing Displaywriter System; Unpacking, Setup, and Testing ......................... 2-1

Section 3. IBM 5215 "Selectric" Element Printer; Unpacking and Setup ................................. 3-1

Section 4. Relocating the System .............................. 4-1
Section O

This section contains information the operator needs if setup problems occur, and also an introduction to the IBM Displaywriter System to help the operator identify system components.
SECTION O. OPERATOR INFORMATION

Shipping Damage

If any of the system components has physical shipping damage that will prevent system setup, stop setup and call your local IBM branch office for service.

If the shipping damage is minor, and will not prevent system setup, complete setup and then call your local IBM branch office for service.

Missing Items

If your system arrives with any items missing, such as the printer element, printwheel, or power cord, call your IBM marketing representative. If in doubt about the units received, check your system order form.

Setup Problems

If you have any setup problems you cannot correct, call the IBM Office Systems Support Center (OSSC) for Assistance. You must have the system’s access code when you call for assistance.

Access Code

The last seven digits of the IBM 6580 serial number are the access code. This code is required whenever you call the IBM Office Systems Support Center (OSSC) for assistance. (For the location of the serial number, see page 1-6 or 2-6.)

Serial Number: 6580-__-__-__-__-__-

Note: The work station number, used on the shipping cartons for identification, is actually the access code. (See page 0-3) You should copy the access code (work station number) from the carton into the space provided above.

Telephone Numbers

Use one of the following toll free telephone numbers to call for assistance:

U.S. Outside of Texas (Including Puerto Rico) 800-527-9293
Alaska, Hawaii and Guam 0-214-748-1560 (Call Collect)
Within Texas 1-800-492-9774
Within Dallas 748-1560
INTRODUCTION TO THE IBM DISPLAYWRITER SYSTEM

DO NOT UNPACK ANY COMPONENTS UNTIL YOU HAVE VERIFIED THAT YOUR SHIPMENT IS COMPLETE. This page tells you how to identify your work station.

It is *important* to keep the cartons (system components) with the same work station number together for setup.

Your Displaywriter System may be delivered to your office in one of two ways.

If you receive one large carton (about 4 feet long and 4 feet high), you will find four cartons inside. These four cartons contain one work station. The work station number is on the outside of the large carton in the location indicated.

If you receive your Displaywriter as a shipment of four small cartons, you must verify that all the cartons have the same work station number on the outside.

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PRINTING CARTON

Locate the work station number on the printer carton. This number must match the number on the cartons for the work station components.

**Note:** *The printer is shipped separate from the work station components.*

After you have verified that you have all of the correct components, use the illustrations on the next page to identify the type of work station you have.
Before you start setting up the work station for your IBM Displaywriter System, it is important that you know whether or not your work station has the Printer Sharing Feature installed.

If your work station does not have the Printer Sharing Feature, your system will be similar to one of the single systems in the following illustration:

SINGLE DISPLAYWRITER SYSTEMS:

![SINGLE DISPLAYWRITER SYSTEMS Diagram]

IF YOU ARE SETTING UP A SINGLE IBM DISPLAYWRITER SYSTEM, USE SECTION 1 OF THIS GUIDE.

If your work station does have the Printer Sharing Feature installed, it is called a PRIMARY work station. One or two other work stations (called SECONDARY work stations) will be cable-connected to the PRIMARY work station, and will share the use of the IBM 5218 Printer.

The following illustration shows a printer sharing system with one PRIMARY and two SECONDARY work stations:

PRINTER SHARING DISPLAYWRITER SYSTEM:

![PRINTER SHARING DISPLAYWRITER SYSTEM Diagram]

IF YOU ARE SETTING UP A WORK STATION IN A PRINTER SHARING SYSTEM, USE SECTION 2 OF THIS GUIDE.
Section 1. Single Displaywriter System; Unpacking, Setup, and Testing

SECTION I

This section contains instructions for unpacking, setting up, and testing a single IBM Displaywriter System.

(Instructions for a system with the Printer Sharing Feature installed are in Section 2.)

BEFORE YOU BEGIN SETTING UP YOUR WORK STATION, MAKE SURE YOU ARE FAMILIAR WITH THE OPERATOR INFORMATION IN SECTION O.
When you are finished with system setup, the work station should look similar to this.

**Note:** The Diskette Unit can be placed at the right or the left of the Display Station for operator convenience.

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CAREFULLY FOLLOW THE STEPS IN THIS GUIDE. THE ORDER IN WHICH YOU SET UP THE COMPONENTS IS IMPORTANT.
UNPACKING AND SETTING UP THE WORK STATION COMPONENTS

STEP 1. Unpack the Keyboard (Carton 1)

6.8 kg
(15 lbs.)
STEP 2. Place the Keyboard sideways on the work area (cable extended).

Leave sufficient space behind the Keyboard to place the other components sideways, as shown, for access to connect the cables.
STEP 3. Unpack the Electronics Module (Carton 2)

A

B

C

D

13.6 kg (30 lbs.)
STEP 4. Place the Electronics Module over the Keyboard cable.

Make sure the Keyboard cable is in the groove in the bottom of the Electronics Module.

Note: The items stored in the trays on the bottom of the Electronics Module are for your Service Representative.

STEP 5. Write down the serial number from the back of the Electronics Module, on page 0-1, and also on the System Information Card (shipped with this setup guide).

(The last seven digits of this number are the ACCESS CODE. You must have this number to get telephone assistance from the OSSC.)
STEP 6. Unpack the Display (Carton 3).

6.8 kg
(15 lbs.)
STEP 7. Place the Display on top of the Electronics Module.

The Display should tilt and rotate freely when installed.
STEP 8. Unpack the Diskette Unit (Carton 4).

16.0 kg
(35 lbs.)
STEP 9. Place the Diskette Unit on the work area as shown.

Note: It is recommended that from this point on, one person make all of the cable connections while referring to the illustrations in this guide.
When connecting cable plugs, tighten the holding screws *finger tight* only.

STEP 10. Connect the cables in this order:

- Cable 7 (Keyboard)
- Cable 5 (Diskette Unit)
- Cable 2 (Display)
- Cable 10 (Diskette Unit)
- Cable 8 (Diskette Unit)
STEP 11. Press the O (POWER OFF) side of the power switch.

STEP 12. Connect the Work Station power cord *first* to socket 9, and then to the wall socket.

**Note:** The power cord plug is not numbered.
YOU HAVE COMPLETED SETTING UP AND CABLEING THE WORK
STATION COMPONENTS.

THE PRINTER IS NEXT.

If your printer is the IBM 5215 "Selectric" Element Printer:

- Unpack the printer (use the instruction sheet on the carton)
- Go to Section 3 (page 3-1) in this guide for printer setup
  instructions

IBM 5215
Printer

If your printer is the IBM 5218 Printwheel Printer:

- Unpack the printer (use the instruction sheet on the carton)
- Use the IBM 5218 Printwheel Printer Setup Procedures
  (shipped with the printer) and set up the printer
- After printer setup, continue on page 1-14 in this guide for
  testing

IBM 5218
Printer
SYSTEM TESTING

At this point, you should have completed setting up and cabling the work station components.

You should also have your printer set up and ready for testing with the work station.

In this section, the system (IBM Displaywriter and attached printer) will be tested to ensure that it is operating properly and that the cables are correctly connected.

STEP 13. Move the work station components to the desired operating position. (Your work station should be positioned similar to the illustration.)

IBM 6580
Display Station

IBM 6360
Diskette Unit
STEP 14. Press the I (POWER ON) side of the power switch.

Turn the contrast and brightness control knobs fully clockwise.

STEP 15. The IBM logo should appear in about 25 seconds.

Readjust contrast and brightness for eye comfort.

If the IBM logo does not appear:
- Check contrast and brightness adjustment
- Turn off the power switch and check all cable and power cord connections
- Check the wall socket for power
- Turn on the power switch

If the IBM logo still does not appear, call the OSSC for assistance. (See page 0-1)
STEP 16. Check your Diskette Unit.

There will be either a 1 or a \( \frac{1}{20} \) label on the load lever(s).

If your unit has a 1 on the lever, *make sure* you use an IBM 6580 PDD *Diskette 1* for these tests.

If your unit has a \( \frac{1}{20} \) on the lever, *make sure* you use an IBM 6580 PDD *Diskette 2D* for these tests.

If you *did not* receive the correct diskette (type 1 or type 2D) with your system, call your IBM Marketing Representative.
STEP 17. Insert the IBM 6580 PDD diskette in the *left* side of the Diskette Unit.

Open the load lever (if closed)

Insert the diskette

Close the load lever (the Diskette Unit should make a buzzing sound)
FUNCTION SELECTION should appear.

![Diagram of FUNCTION SELECTION screen]

If FUNCTION SELECTION does not appear, remove and reinset the diskette. Make sure the diskette is inserted correctly. (See STEP 17)
If the diskette is correct, but FUNCTION SELECTION does not appear, call the OSSC for assistance. (See page 0-1)

**STEP 18.** Select System Verification Tests by typing A and then pressing the ENTER key:

![Diagram of keyboard and screen with A and ENTER keys highlighted]

If more than one A is typed, or if you typed the wrong letter, use the BKSP (backspace) key to correct the error. Then press the ENTER key.
SYSTEM CONFIGURATION should appear.

![System Configuration Screen]

Note: The list on the display screen should include:
1. Keyboard number
2. All work station components
3. Memory size
4. Any optional features on the work station

DO NOT CONTINUE with testing until all of the components and features on your work station appear in the list on the display screen.

IF ANY ITEM IS MISSING from the list, make sure the component's cables are connected and tight, and that its power switch (if applicable) is on . . .

THEN: REMOVE the IBM 6580 PDD diskette
       TURN OFF the work station power switch
       START again at STEP 14 on page 1-15

If SYSTEM CONFIGURATION does not appear, or if the information in the list is wrong (after doing the above retry steps once), call the OSSC for assistance. (See page 0-1).
STEP 19. Start the System Verification Tests by pressing the ENTER key.

**Note:** *All components listed on your screen will be tested.*

The automatic testing takes up to two (2) minutes to complete.

*DO NOT* touch any keys, levers, or switches unless instructed.

During Testing:

- The display screen may flicker
- The Diskette Unit will make buzzing sounds
- After approximately 40 seconds, the printer will print the pattern shown in STEP 20.
STEP 20. Remove the paper from the printer and compare the printed pattern with the pattern below.

Note: The actual characters on your printout may differ from those below.

Note: When the Sheet-Feed Paper Handler is installed on the IBM 5218 Printwheel Printer, both paper supply trays are tested as follows:

- A blank sheet of paper feeds from the top tray and passes through the printer
- The test pattern (shown above) prints on the second sheet, which feeds from the bottom tray
(KEYBOARD TEST)

When automatic testing ends, the following pattern should appear on the display screen.

Note: • The Pattern on the display screen represents the keyboard.
• Each II in the pattern represents a key position.
• When you press a key, the corresponding II on the display should highlight ( II )

II II

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II II II II II II II II II II II II II II II II II

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II II II II II II II II II II II II II II II II II

If this pattern does not appear, but SERVICE REQUEST does appear, press the ENTER key to run the system tests one more time. If SERVICE REQUEST appears again, write down the service request number and call the OSSC for assistance. (See page 0-1)

STEP 21. While observing the display screen, press every key to make sure each key causes the highlighting ( II ) on the screen.

If any key fails to cause the highlighting, call the OSSC for assistance. (See page 0-1)
STEP 22. End the Keyboard Test by pressing and holding the CODE key while you press and quickly release, the REQST-CANCL key.

STEP 23. If 1 appears on the screen, press and hold the CODE key while you press, and quickly release, the REQST-CANCL key.

If SYSTEM CONFIGURATION appears on the screen, go to the next page.
SYSTEM CONFIGURATION should appear.
TESTS SUCCESSFULLY COMPLETED should also appear.

If a test failed, SERVICE REQUEST, followed by a number, appears at the bottom of the screen. If this occurs, press the ENTER key to restart the system tests. (Make sure the printer has paper.) If SERVICE REQUEST appears again (after running system tests the second time), write down the service request number and call the OSSC for assistance. (See page 0-1)

Locate the IBM Displaywriter System Information Card (sample shown below). The card was in the package with this setup guide and the IBM 6580 PDD diskette.

Use a pen or pencil to fill in the squares on the card only for those components that appear on the display screen. This will be your permanent listing of the components connected to your work station.

- Write in the Memory Size on the card
- Write in the Keyboard number (shown in the top right corner of the screen)
- Make sure the serial number (from the back of the electronics module) is written on the card.

After you have filled in the card, remove the backing strip from the card to uncover the adhesive, and place the card in the recessed area at the top of the keyboard. Press firmly to attach the card securely in place.
STEP 24. Check your Diskette Unit as follows:

- If your Diskette Unit has two load levers, you must test the right side of the unit. Please continue with STEP 25.

(Two Load Levers)
DUAL DISKETTE UNIT

- If your Diskette Unit has only one load lever, you have successfully completed system setup: please go to STEP 29 on page 1-30.

(One Load Lever)
SINGLE DISKETTE UNIT
STEP 25. Press the END key.

FUNCTION SELECTION should appear again.

If FUNCTION SELECTION does not appear, call the OSSC for assistance. (See page 0-1)
STEP 26. Type B and then press the ENTER key:

If more than one b is typed, or if you typed the wrong letter, use the BKSP (backspace) key to correct the error. Then press the ENTER KEY.

Although the message INSERT DESIRED PROGRAM DISKETTE, PRESS ENTER, appears at the bottom of the display screen, use the IBM 6580 PDD Diskette for the remainder of this testing.

If this message does not appear, call the OSSC for assistance. (See page 0-1)
STEP 27. Move the IBM 6580 PDD Diskette from the *left* side of the Diskette Unit to the *right* side.

- Open the load lever
- Remove the diskette from the left side

- Insert the diskette in the right side
- Close the load lever
STEP 28. Press the ENTER key.

FUNCTION SELECTION should appear again.
(This indicates successful testing of the Diskette Unit.)

If FUNCTION SELECTION does not appear, make sure the diskette is inserted correctly. (See step 27) If the diskette is correct, but FUNCTION SELECTION does not appear, call the OSSC for assistance. (See page 0-1)
YOU HAVE SUCCESSFULLY COMPLETED SYSTEM SETUP AND TESTING.

STEP 29. Complete the following steps:

- Remove the diskette from the Diskette Unit and put it in its protective envelope.
- Place all the setup guides for your system in a safe place. You will need these guides if it becomes necessary to uncode and relocate the system.
- If your system reference materials have arrived from IBM, place the IBM 6580 PDD Diskette in the diskette holder at the back of the Operator Reference Package binder. Otherwise, place the diskette in a safe place for future use with the Problem Determination Guide.

YOU ARE NOW READY TO BEGIN OPERATOR TRAINING
BEFORE YOU BEGIN SETTING UP YOUR WORK STATION, MAKE SURE YOU ARE FAMILIAR WITH THE OPERATOR INFORMATION IN SECTION 0.

SECTION 2

This section contains instructions for unpacking, setting up, and testing a printer sharing IBM Displaywriter System.

(Instructions for a single IBM Displaywriter System are in Section 1.)

Section 2. Printer Sharing Displaywriter System; Unpacking, Setup, and Testing ..........................
Remember, the Printer and the PRIMARY work station go together. Make sure you have the correct set of components before you begin setup. Also, make sure that the setup location in your office is the place designated for the type of work station (PRIMARY or SECONDARY) you are setting up.

The printer sharing cable(s) that connects the work stations together is shipped with the PRIMARY work station, in the location shown below.

When you are finished with setup, the work station should look similar to this:

**Note:** The Diskette Unit can be placed at the right or the left of the Display Station for operator convenience.

CAREFULLY FOLLOW THE STEPS IN THIS GUIDE. THE ORDER IN WHICH YOU SET UP THE COMPONENTS IS IMPORTANT.
STEP 1. Unpack the Keyboard (Carton 1)

6.8 kg
(15 lbs.)
STEP 2. Place the Keyboard sideways on the work area (cable extended).

Leave sufficient space behind the Keyboard to place the other components sideways, as shown, for access to connect the cables.
STEP 3. Unpack the Electronics Module (Carton 2)

A

B

C

13.6 kg
(30 lbs.)

D

STEP 4. Place the Electronics Module over the Keyboard cable.

Make sure the Keyboard cable is in the groove in the bottom of the Electronics Module.

Note: The items stored in the trays on the bottom of the Electronics Module are for your Service Representative.

STEP 5. Write down the serial number from the back of the Electronics Module, on page 0-1, and also on the System Information Card (shipped with this setup guide).

(Sample Card)

(The last seven digits of this number are the ACCESS CODE. You must have this number to get telephone assistance from the OSSC.)
STEP 6. Unpack the Display (Carton 3).
STEP 7. Place the Display on top of the Electronics Module.

The Display should tilt and rotate freely when installed.
STEP 8. Unpack the Diskette Unit (Carton 4).

A

B

C

16.0 kg
(35 lbs.)

D
STEP 9. Place the Diskette Unit on the work area as shown.

Note: It is recommended that from this point on, one person make all of the cable connections while referring to the illustrations in this guide.
When connecting cable plugs, tighten the holding screws *finger tight* only.

STEP 10. Connect the cables in this order:

- Cable 7 (Keyboard)
- Cable 5 (Diskette Unit)
- Cable 2 (Display)
- Cable 10 (Diskette Unit)
- Cable 8 (Diskette Unit)
STEP 11. Press the O (POWER OFF) side of the power switch.

STEP 12. Connect the Work Station power cord first to socket 9, and then to the wall socket.

Note: The power cord plug is not numbered.
YOU HAVE COMPLETED UNPACKING AND SETTING UP THE WORK STATION COMPONENTS.

STOP

STEP 13. WILL YOUR WORK STATION HAVE A PRINTER DIRECTLY CONNECTED?

If YES: • Put this setup guide aside, for now
         • Unpack your printer
         • Use the IBM 5218 Printwheel Printer Setup Procedures, shipped with the printer to complete printer setup
         • Return to this guide and continue on the next page

If NO: Continue on the next page
STEP 14. Locate your printer sharing cable(s) and do the following:

If you are setting up a PRIMARY work station, connect the 6 end of the printer sharing cable to socket 6a on the PRIMARY electronics module.

If you are setting up a SECONDARY workstation, connect the 0 end of the printer sharing cable to socket 0 on the SECONDARY electronics module.

If you have 2 SECONDARY workstations sharing the printer, make this connection also.

Printer Sharing Cable(s) (shipped with the PRIMARY work station)
SYSTEM TESTING

At this point, you should have completed setting up and cabling the work station components, and connected the printer sharing cable(s).

If your work station has a printer directly attached, you should have your printer set up and ready for testing with the work station.

In this section, the system [PRIMARY work station and printer, and the SECONDARY work station(s)] will be tested to ensure that they are operating properly and that their cables are correctly connected.

STEP 15. Move the work station components to the desired *operating position.*
(Your work station should be positioned similar to the illustration.)
STEP 16. Before starting system testing, DO ONE OF THE FOLLOWING:

- If you are setting up a SECONDARY work station (no attached printer), go to STEP 17 on page 2-18.
- If you are setting up a PRIMARY work station, continue below.

- If your IBM 5218 printer has the Sheet-Feed Paper Handler or Tractor Feed Features installed, go to page 2-17.

- If your IBM 5218 printer does not have the Sheet-Feed Paper Handler nor the Tractor Feed Features installed:
  - Turn ON the printer power switch
  - Manually insert a sheet of paper in the paper slot
  - Press the LOAD key to position the paper for printing
  - Go to STEP 17 on page 2-18
STEP 16 (continued).

- If your IBM 5218 printer has the Sheet-Feed Paper Handler installed:
  - Make sure there is blank paper in both paper supply trays
  - Turn ON the Printer Power switch

- If your IBM 5218 printer has the Tractor Feed installed:
  - Make sure there is blank paper positioned for printing
  - Turn ON the printer power switch
NOTE:

Complete functional testing of the printer sharing feature can be accomplished only when these two conditions are met:

1. Both the PRIMARY and SECONDARY work station power switches must be turned on.

2. The printer sharing cables connecting the work stations must be connected.

PLEASE WAIT until both of these requirements are satisfied. It will make functional testing quicker and easier.
STEP 17. Press the I (POWER ON) side of the power switch.

Turn the contrast and brightness control knobs fully clockwise.

STEP 18. The IBM logo should appear in about 25 seconds.

Readjust contrast and brightness for eye comfort.

If the IBM logo does not appear:

- Check contrast and brightness adjustment
- Turn off the power switch and check all cable and power cord connections
- Check the wall socket for power
- Turn on the power switch

If the IBM logo still does not appear, call the OSSC for assistance. (See page 0-1)
STEP 19. Check your Diskette Unit.

There will be either a $1$ or a $\frac{1}{2}0$ label on the load lever(s).

If your unit has a $1$ on the lever, make sure you use an IBM 6580 PDD Diskette 1 for these tests.

If your unit has a $\frac{1}{2}0$ on the lever, make sure you use an IBM 6580 PDD Diskette 2D for these tests.

If you did not receive the correct diskette (type 1 or type 2D) with your system, call your IBM Marketing Representative.
STEP 20. Insert the IBM 6580 PDD diskette in the *left* side of the Diskette Unit.

Open the load lever (if closed)

Insert the diskette

Close the load lever (the Diskette Unit should make a buzzing sound)
FUNCTION SELECTION should appear.

If FUNCTION SELECTION does not appear, remove and reinsert the diskette. Make sure the diskette is inserted correctly. (See STEP 20)
If the diskette is correct, but FUNCTION SELECTION does not appear, call the OSSC for assistance. (See page 0-1)

STEP 21. Select System Verification Tests by typing A and then pressing the ENTER key:

If more than one a is typed, or if you typed the wrong letter, use the BKSP (backspace) key to correct the error. Then press the ENTER key.
SYSTEM CONFIGURATION should appear.

**Note:** The list on the display screen should include:
1. Keyboard number
2. All work station components
3. Memory size
4. Any optional features on the work station

![SYSTEM CONFIGURATION Diagram](image)

**Note:** PRIMARY work stations should have SHARED PRINTER CAPABILITY in addition to the components listed on the sample screen above.

SECONDARY work stations should have SHARED PRINTER instead of PRINTER.

SHARED PRINTER will appear on the SECONDARY work station screen only if the following conditions are met:

- The printer sharing cable is connected between the PRIMARY and SECONDARY work stations
- The PRIMARY work station power switch is ON

DO NOT CONTINUE with testing until all of the components and features on your work station appear in the list on the display screen.

*IF ANY ITEM IS MISSING* from the list, make sure the component's cables are connected and tight, and that its power switch (if applicable) is on...

THEN: REMOVE the IBM 6580 PDD diskette
TURN OFF the work station power switch
START again at STEP 17 on page 2-19

If SYSTEM CONFIGURATION does not appear, or if the information in the list is wrong (after doing the above retry steps *once*), call the OSSC for assistance. (See page 0-1)
STEP 22. Start the System Verification Tests by pressing the ENTER key.

Note: *All components listed on your screen will be tested.*

The automatic testing takes up to two (2) minutes to complete.

*DO NOT* touch any keys, levers, or switches unless instructed.

During Testing:

- The display screen may flicker
- The Diskette Unit will make buzzing sounds
- After approximately 40 seconds, the printer will print the pattern shown in STEP 23. (If your work station has the printer directly cable-connected to it.)
STEP 23. Remove the paper from the printer and compare the printed pattern with the pattern below.

**Note:** The actual characters on your printout may differ from those below.

```
"ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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(KEYBOARD TEST)

When automatic testing ends, the following pattern should appear on the display screen.

**Note:**
- The Pattern on the display screen represents the keyboard.
- Each II in the pattern represents a key position.
- When you press a key, the corresponding II on the display should highlight (II).

II II
II II II II II II II II II II II
II II II II II II II II II II
II II II II II II II II II II
II II II II II II II II II II
II II II II II II II II II II
II II II II II II II II II II
II II
II

If this pattern does not appear, but SERVICE REQUEST does appear, press the ENTER key to run the system tests one more time. If SERVICE REQUEST appears again, write down the service request number and call the OSSC for assistance. (See page 0-1)

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**STEP 24.** While observing the display screen, press every key to make sure each key causes the highlighting (II) on the screen.

If any key fails to cause the highlighting, call the OSSC for assistance. (See page 0-1)
STEP 25. End the Keyboard Test by pressing and *holding* the CODE key while you press and *quickly release*, the REQST-CANCL key.

STEP 26. If 1 appears on the screen, press and *hold* the CODE key while you press, and quickly release, the REQST-CANCL key.

If SYSTEM CONFIGURATION appears on the screen, go to the next page.
SYSTEM CONFIGURATION should appear.
TESTS SUCCESSFULLY COMPLETED should also appear.

If a test failed, SERVICE REQUEST, followed by a number, appears at the bottom of the screen. If this occurs, press the ENTER key to restart the system tests. (Make sure the printer has paper.) If SERVICE REQUEST appears again (after running system tests the second time), write down the service request number and call the OSSC for assistance. (See page 0-1)

Locate the IBM Displaywriter System Information Card (sample shown below). The card was in the package with this setup guide and the IBM 6580 PDD diskette.

Use a pen or pencil to fill in the squares on the card only for those components that appear on the display screen. This will be your permanent listing of the connected components connected to your workstation.

- Write in the Memory Size on the card
- Write in the Keyboard number (shown in the top right corner of the screen)
- Make sure the serial number (from the back of the electronics module) is written on the card.

After you have filled in the card, remove the backing strip from the card to uncover the adhesive, and place the card in the recessed area at the top of the keyboard. Press firmly to attach the card securely in place.
STEP 27. Check your Diskette Unit as follows:

- If your Diskette Unit has two load levers, you must test the right side of the unit. Please continue with STEP 28.

(Two Load Levers)
DUAL DISKETTE UNIT

- If your Diskette Unit has only one load lever, you have successfully completed system setup: please go to STEP 32 on page 2-34.

(One Load Lever)
SINGLE DISKETTE UNIT
STEP 28. Press the END key.

FUNCTION SELECTION should appear again.

If FUNCTION SELECTION does not appear, call the OSSC for assistance. (See page 0-1)
STEP 29. Type B and then press the ENTER key:

If more than one b is typed, or if you typed the wrong letter, use the BKSP (backspace) key to correct the error. Then press the ENTER KEY.

Although the message INSERT DESIRED PROGRAM DISKETTE, PRESS ENTER, appears at the bottom of the display screen, use the IBM 6580 PDD Diskette for the remainder of this testing.

If this message does not appear, call the OSSC for assistance. (See page 0-1)
STEP 30. Move the IBM 6580 PDD Diskette from the left side of the Diskette Unit to the right side.

- Open the load lever
- Remove the diskette from the left side
- Insert the diskette in the right side
- Close the load lever
STEP 31. Press the ENTER key.

FUNCTION SELECTION should appear again.

(This indicates successful testing of the Diskette Unit.)

If FUNCTION SELECTION does not appear, make sure the diskette is inserted correctly. (See STEP 30) If the diskette is correct, but FUNCTION SELECTION does not appear, call the OSSC for assistance. (See page 0-1)
YOU HAVE SUCCESSFULLY COMPLETED SYSTEM SETUP AND TESTING.

STEP 32. Complete the following steps:

- Remove the diskette from the Diskette Unit and put it in its protective envelope.
- Place all the setup guides for your system in a safe place. You will need these guides if it becomes necessary to uncable and relocate the system.
- If your system reference materials have arrived from IBM, place the IBM 6580 PDD Diskette in the diskette holder at the back of the Operator Reference Package binder. Otherwise, place the diskette in a safe place for future use with the Problem Determination Guide.

YOU ARE NOW READY TO BEGIN OPERATOR TRAINING
SECTION 3

This section contains instructions for unpacking and setting up the IBM 5215 "Selectric" Element Printer and cable-connecting it to the IBM Displaywriter System work station.

Section 3. IBM 5215 "Selectric" Element Printer; Unpacking and Setup
When you are finished with system setup, it should look similar to the illustration.

**Note:** The printer (and the diskette unit) can be placed at the right or the left of the workstation for operator convenience.

CAREFULLY FOLLOW THE SETUP STEPS IN THIS SECTION.
UNPACKING AND SETTING UP THE IBM 5215 PRINTER

STEP 1. Unpack the Printer

CAUTION
The IBM 5215 Printer weighs 25 kg (55 lbs.)
TWO PEOPLE are required to carry it.
STEP 2. Place the printer in its permanent location on the work area.

CAUTION
The IBM 5215 Printer weighs 25 kg (55 lbs). TWO PEOPLE are required to carry it.

STEP 3. Open the printer cover and remove the following:

- The tape holding the printer element carrier
- The tape on the front and back covers
- The red tags and plastic bag on the cable and power cord.
STEP 4. Raise the printer to the position shown and remove the five shipping screws:

STEP 5. Press the OFF side of the printer power switch:
STEP 6. Connect the printer cable O in socket O on the work station.

STEP 7. Connect the printer power cord to the wall socket.
STEP 8. Open the cover and press down on the ribbon cartridge to make sure it is in place.

STEP 9. Install the Printer Element.
STEP 10. Turn **ON** the printer power switch. Close the cover and open the paper bail.

STEP 11. Check that the printer power light is **ON**.

If the power light is **not** on, check the wall socket for power. If there is power at the wall socket, but no power light, call the OSSC for assistance. (See page 0-1)
STEP 12. Roll in a sheet of paper and position it to the left for printing.

YOU HAVE SUCCESSFULLY COMPLETED PRINTER SETUP.

GO TO PAGE 1-14 (IN SECTION 1) TO COMPLETE SYSTEM TESTING.
SECTION 4

This section contains information needed if it becomes necessary to uncable and relocate the system.

Section 4. Relocating the System .................................
RELOCATING THE SYSTEM

LONG DISTANCE (Another building, another city, another state)

Contact your local IBM office to advise them of the new location address and to get packing and moving information.

SHORT DISTANCE (Another room, another floor)

Advise your local IBM office of the new location.

PHYSICAL PREPARATION OF THE SYSTEM

COMPLETE THE FOLLOWING STEPS:

- Remove diskettes from the diskette unit.
- Turn off power to all system units.
- Disconnect the power cords.
- Carefully disconnect all cables.
- Carefully coil the cables and position them to protect the plugs.
- Remove the display from the top of the electronics module (lift the display straight up).
- For long distances, tape cables and machine covers in place to prevent damage. We recommend filament tape or masking tape for this purpose.

SYSTEM SETUP AT THE NEW LOCATION

Carefully follow the instructions in sections 1, 2, or 3 of this guide.
IBM Displaywriter System
Customer Setup Guide
Order No. G544-0858-2

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