IBM 7426 Terminal Interface Unit

Setup Instructions

Initialization

Operator's Checklist

Problem Analysis and Resolution

Relocation Instructions



GA23-0078-1 File No. 8100-14

Preface

This manual is written primarily for nontechnical personnel who will set up and check out the IBM 7426 Terminal Interface Unit. The same personnel may also initialize the 7426.

The setup person will be concerned only with Chapter 1 (Setup) and Chapter 2 (Initialization). As setup person, turn to Chapter 1, page 1-1 and the illustrated instructions.

Because Chapters 2 through 5 may be used any time after the 7426 has been set up, this manual should always be available.

Second Edition (January 1983)

Changes will be made periodically to the information herein; any such changes will be reported in subsequent revisions. The latest level of this publication will accompany each unit when the unit is shipped.

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Organization

This manual, divided into five chapters and an appendix, contains the following:

- Chapter 1 the step-by-step setup instructions to be used in conjunction with the worksheet developed by the site planner.
- Chapter 2 initialization procedures to activate operational characteristics in the 7426. These procedures are necessary after original setup, but may be used whenever operational environments are changed.
- Chapter 3 a checklist that the operator should use daily before powering on the 7426.
- Chapter 4 problem determination procedures to be used by the operator if difficulties are encountered after the 7426 and its peripheral terminals are operational.
- Chapter 5 step-by-step procedures to disconnect the 7426 and prepare the unit for shipment or relocation.
- Appendix A NTT tests for 7426 units going to Japan.

Related Manuals

IBM 7426 Terminal Interface Unit Description, Site Planning, and Configuration Guide, GA23-0077

IBM 3101 Display Terminal Description, GA18-2033

IBM 3101 Setup Instructions, GA18-2034

IBM 3101 Customer Problem Analysis and Resolution Guide, GA18-2036

IBM 3101 Operator Reference Information, GA18-2035

IBM 7485 Display Terminal Description, GA18-2075

IBM 7485 Display Terminal Setup Instructions, GA18-2073

IBM 7485 Display Terminal Model 53 Operator Reference Guide, GA18-2078

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Chapter 1. Setup Instructions

How to Use This Chapter

You are about to set up a 7426 Terminal Interface Unit that attaches displays and printers to a host system. This chapter contains procedures you must perform sequentially to ensure a successful setup and test of the 7426 Terminal Interface Units, Models 1 and 2. Each procedure is numbered and requires one or more action steps. These action steps are identified with a small box (\Box).

Read each step completely; then refer to the related illustration before attempting the task.

 $\mathbf{\nabla}$ Place a check in each box when the task is finished.

Materials Needed

- The Floor Plan Worksheet that was sent to you by the site planner.
- The Cable Connection Worksheet which also contains the 3101 Initialization Switch Settings.

No Tools

No tools are required to set up the 7426.

Save the Container

Save the protective shipping container for future relocation or shipping to the repair center. Refer all questions or problems to your site planner.

Setup Procedures

Refer any questions or problems encountered in these setup procedures to your supervisor or site planner.

1 Inspecting the 7426

□ Inspect the 7426 for possible damage. If damage is found, notify your site planner.



2 7426 Inventory

The 7426 will arrive with a test plug attached to the communication cable connector.

Ensure that the test plug is in place, but do not remove it.



The carton will also contain a plastic bag with the following items. Check the box as you locate each item.

- Power cord
- Test plug PN 2720166

The 7426 Model 1 will have an extra test plug.

Test plug PN 2720171

Set these items aside until you are instructed to use them.



3 Connecting the Power Cord

Be sure the Power Switch is in the OFF (O) position.



□ Remove the power cord from the plastic bag and connect it to the 7426.



Connect the power cord to the receptacle specified in the Floor Plan Worksheet.



Operator Panel Information

Read the following about the operator panel and review Procedure 4 before you proceed.

Power Switch	Initialization/ Test Switch		India	cator Lar	mps	
Off On	Init	Test Mode	Unit Ready	Line Ready O	Comm Check	Machine Check O

Power Lamp

While the Power Switch is off (O), press the Init/Test switch, both to the left and to the right, just to get the feel of it. The switch is spring-loaded and will return to the neutral position.

Under some conditions, the Machine Check lamp will blink momentarily. This is normal and requires no action. But, if the Machine Check lamp should remain on any time during these setup procedures, it indicates a 7426 test failure. You must then power off and restart the setup procedures.

If a problem persists, notify your supervisor and return the 7426 to IBM (see Chapter 5).



Machine Check Lamp

When the 7426 is powered on, it will automatically perform a self-test. This will last for about 20 seconds. When the self-test has ended, the Unit Ready and Test Mode lamps will begin to blink. This is your signal to press the Init/Test switch to Test (right). The switch must be pressed within 6 seconds after the lamps begin to blink.

4 Powering On

Read this procedure thoroughly before performing any activity, then return to the top of this page and begin.

Press the Power Switch to ON (1).

Did the Power Lamp light?



Are the Unit Ready and Test Mode lamps blinking (after about 20 seconds)?



□ Immediately press the Init/Test switch to Test (right).

Did all lamps light for 3 seconds?



Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?



Go to Procedure 5.

YES











Note: DO NOT turn the power off any time during these setup instructions. All ports must be tested in sequential order.

- Connect test plug PN 2720166 to port 0.
- ☐ Tighten the test plug retainer screws by turning them clockwise (∕).



Screws

□ Press the Init/Test switch to Test (right).





Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?



and the second second

- □ Loosen the retaining screws of the test plug in port 0.
- Remove the test plug from port 0 and insert it in port 1.
- □ Tighten the retainer screws.



Press the Init/Test switch to Test (right).

Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?



Go to Procedure 7.

- □ Loosen the retaining screws of the test plug in port 1.
- □ Remove the test plug from port 1 and insert it in port 2.
- □ Tighten the retainer screws.



Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?







□ Loosen the retaining screws of the test plug in port 2.



- □ Remove the test plug from port 2 and insert it in port 3.
- □ Tighten the retainer screws.

Press the Init/Test switch to Test (right).

Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?





9 Testing the Communication Cable

The communication cable on the 7426 Model 1 contains a round test plug.

The communication cable on the 7426 Model 2 contains a flat test plug.

Be sure that the test plug is securely connected. (On the Model 2, tighten the retainer screws.)



□ Press the Init/Test switch to Test (right).

Is the Unit Ready lamp blinking, the Test Mode lamp on, and the Machine Check lamp out?





1-10

10 Removing the Test Plugs

The test plugs must be removed from all ports and from the communication cable, or the 7426 will not operate properly.

Remove the test plug from the communication cable.



Model 2

- □ Remove the test plug from the port.
- Save these test plugs. They will be needed for future maintenance procedures.
- ☐ If this 7426 is a Model 1, you will also have test plug PN 2720171. Keep it with the others.

11 Connecting the Communication Cable

Use the Floor Plan Worksheet, supplied by your site planner, to make the following connection.

Is this 7426 a Model 1?



Round Connector

Loop Station Connector

12 Connecting the Terminals to the 7426

Note: Prior to the arrival of the displays and printers, communication cables were installed from the display and printer locations to the 7426 location.

- □ Locate the Cable Connection Worksheet sent by the site planner.
- Using the worksheet, connect these cables to the ports shown.
- □ Be sure the label numbers on the connectors match the port numbers.



□ Turn to Chapter 2 for initialization.

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Chapter 2. Initialization

Initialization is the process of loading operational information into the 7426 storage area. It must be performed:

- After setup.
- After changing the 7426 configuration.
- While resolving a hardware problem (as directed by Chapter 4).

How to Use This Chapter

This chapter contains procedures you must perform to ensure a successful initialization of the 7426 Terminal Interface Unit. Each procedure is numbered and requires one or more action steps. These action steps are identified with a small box (\Box).

Read each step completely; then refer to the related illustration before attempting the task.

 \square Place a check in the box when the task is finished.

Materials Needed

- The Initialization Worksheet that was sent by the site planner. It specifies the 3101 or 7485 terminal you are to attach to port 0 and the data you must enter through the terminal.
- The 3101 Switch Setting Checklist if the Initialization Worksheet specifies a 3101. This checklist shows the physical switch settings of the 3101. The 7485 does not require a checklist.

Refer all questions or problems to your site planner.

Procedures

- **1** Powering Off the **7426**
- Press the Power Switch of the 7426 to OFF (O).

2 Connecting the Initializing Terminal

Is a 3101 or a 7485 Display Unit Connected to Port 0?

YES			Connect a 3101 or 7485 display unit to port 0 of the 7426, as specified on the Initialization Worksheet, to perform initialization.
			Return to the question.
	Ensu your	ure th r site	ne 3101 switches match the Switch Setting Checklist sent by planner. (The 7485 does not have setup switches.)

- **3** Powering On the Display Unit
- Press the display unit Power Switch to ON (|).

Read the Next Step Carefully.

- Press the 7426 Power Switch to ON (1).
 Wait 20 seconds; the Unit Ready and Test Mode lamp will blink.
 Ignore all other lamps during this time.
- ☐ While the lamps are blinking, press the 7426 Init/Test switch to Init (left). The Unit Ready and Test Mode lamps will go out.





4 Entering Initialization Data

A format should now appear on the terminal screen similar to that on the Initialization Worksheet. See Figure 2-1 and read the notes relating to it.

The A position is a machine response to the operator. Ignore the first display and continue with the instructions.

* .	_			_	_	_		
0.	_	_	_	_	_	_		
1	_	_	_	_	_	_		
2.	-	-	_	-		-		
3.	-	-	-		-			

Notes:

- 1. The positions on your screen may or may not contain previous data. Regardless, they must be changed to reflect the Initialization Worksheet.
- 2. The numbers on the left side of the format (0, 1, 2, and 3) represent the four ports on the 7426. DO NOT attempt to change these numbers.

Figure 2-1 Initialization Display Format

4 Entering Initialization Data (continued)

Did the format on Figure 2-1 appear on your display terminal?

YES NO Is this the first time you have reached this step? YES NO Have you just completed Chapter 1 setup instructions? YES NO \square Go to Chapter 4, Part 2, and perform the External Port Test and return to this point. Were the tests successful? YES NO Ò Replace the 7426 by following your local procedures. The problem is external to the 7426. Notify your supervisor. □ The problem is external to the 7426. Notify your supervisor. Be sure that a communication cable is attached to the display. Be sure that the display power cable is attached to a proper outlet. Restart with Procedure 1 of this chapter. Use either the Tab key or the Backspace key to move the cursor (position marker). Enter the data shown on the Initialization Worksheet. When all positions are completed, hold the Alt key down and press the D key on the 3101. If you are using a 7485, press the Accept key.

4 Entering Initialization Data (continued)



You have made an invalid entry, or the worksheet is incorrect.
Retry this Procedure. If you still do not get a 3 in the position, ask your site planner to check the worksheet.

□ When the Unit Ready lamp is blinking, press the Init/Test switch to Init (left). The Unit Ready lamp will now be on. Ignore the status of the other lamps.

Initialization is complete. This manual, the Initialization Worksheet, and the Switch Setting Checklist will be needed for future reference. Therefore, always store these items where they will be readily available.

If you were sent here from Chapter 4, return to those procedures; otherwise, go to Chapter 3, Operator's Checklist.

Chapter 3. Operator's Checklist

- Turn power on (1) on all units attached to the 7426.
- □ When the 7426 is powered on, it will automatically perform a self-test. This will last for about 20 seconds. When the self-test has ended, the Unit Ready and Test Mode lamps will begin to blink.
- □ If your 7426 is not powered on at this time, press the 7426 Power Switch to ON (1).

Is the Unit Ready lamp on?



Is the Line Ready lamp on?



Chapter 4. Customer Problem Analysis and Resolution

This chapter contains two parts. Part 1 contains procedures to help you resolve problems indicated by the 7426 display lamps. You can select a specific procedure for your specific problem. Part 2 is an External Port Test and can only be reached as directed by Part 1.

Part 1 Initial Problem Determination Procedures

You may be directed to other chapters and then return. If this happens, you may find it helpful to use a paper clip to clip the page you are leaving, so that you can easily return to the procedure from where you started.

□ In the following chart, find the display that matches your present 7426 display; then go to the procedure indicated.



Legend
• = ON
O = OFF
B = Blinking

Power Lamp	Test Mode	Unit Ready	Line Ready	Comm Check	Machine Check	Description	Go to Procedure
0	0	0	0	0	0	Power Lamp out	1
•	0	0	0	0	0	7426 Models 1 & 2	2
•	0	В	0	0	0	7426 Models 1 & 2	3
•	0	٥	0	0	0	7426 Models 1 & 2	4
•	0	0	0	•	0	7426 Model 1	5
•	0	•	0	0	0	7426 Model 2	6
0	0	0	0	•	۲	7426 Model 1	7
•	0	0	0	В	В	7426 Model 1	7
٠	0	0	0	0	۲	7426 Models 1 & 2	8
٥	0	0	0	0	•	7426 Models 1 & 2	8
٠	0	9	۲	0	0	One or more failing ports 7426 Models 1 & 2	9
•	0	0	0	0	۲	7426 Models 1 & 2	10
•	0	3	В	0	0	7426 Models 1 & 2	11



2	Power	Test	Unit	Line	Comm	Machine
	Lamp	Mode	Ready	Ready	Check	Check
	•	0	0	0	0	0

 \Box Press the Power Switch to OFF (O), then to ON (1).

Are other lamps on (after about 20 seconds)?

YES

Replace the 7426 following your local procedures.

Use the Chapter 3 checklist.

NO

 \Box

3	Power Test	Test Mode	Unit Ready	Line Ready	Comm Check	Machine Check	
	•	0	В	0	0	0	

Perform initialization (Chapter 2), then RETURN TO THIS POINT.

Note: If you have reached this procedure each day when you power on the 7426, replace the 7426 by following your local procedures.

Is the Unit Ready lamp still blinking?

YES NO

Replace the 7426 by following your local procedures.

4	Power Test	Test Mode	Unit Ready	Line Ready	Comm Check	Machine Check	
	•	0	0	0	0	0	

Have you used the Operator's Checklist (Chapter 3) since the failure occurred?





 \Box Go to Part 2 of this chapter and perform the External Port Test. When that is finished, RETURN TO THIS POINT.

Does the problem still exist?



Perform initialization (Chapter 2), then RETURN TO THIS POINT.

Does the problem still exist?

YES NO Go to the Chapter 3 checklist.

The problem is external to the 7426. You may wish to check the modems, direct connect cable, or the loop (whatever your 7426 is attached to).

5

7426 Model 1 Machine Test Unit Line Comm Power Ready Check Check Mode Ready Test 0 0 0 •

The problem is external to the 7426.

Have you used the Operator's Checklist (Chapter 3) since the failure occurred?



Verify that the loop station connector is operational. (Call the host operator to check the loop.)



Have you used the Operator's Checklist (Chapter 3) since the failure occurred?

YES NO

Be sure that the modem is operational.

Be sure that the direct connect cable is securely connected (tighten the retaining screws).

Does the problem still exist?



Go to Part 2 of this chapter and perform the External Port Test. When that is finished, RETURN TO THIS POINT.

Does the problem still exist?

YES NO | | Go to the Chapter 3 checklist.

The problem is external to the 7426. You may wish to check the modem or the direct connect cable.

7	Power Lamp	Test Mode O	Unit Ready ●	Line Ready O	Comm Check ●	Machine Check ●	
		ann an conaithean an a	(DR —	an a shi ka sa		-
	•	0	0	0	В	В	

Go to Part 2 of this chapter and perform the External Port Test. When that is finished, RETURN TO THIS POINT.

Does the problem still exist?



host operator check the loop.

8	Power Lamp	Test Mode	Unit Ready	Line Ready	Comm Check	Machine Check
	۲	0	۲	0	0	۲
	Constant of Constant of Constant		<u> </u>)r —	an ya kana kata kata kata kata kata kata kat	unun karan pertakan karan k
	•	0	0		0	۲

Go to Part 2 of this chapter and perform the External Port Test. When that is finished, RETURN TO THIS POINT.

Does the problem still exist?

YES NO Ò Go to the Chapter 3 checklist. Replace the 7426 by following your local procedures.

~		nation and and and and an	والالارور الأرور المراجع المراجع المراجع	a na an	an the second state of the	
9	Power	Test	Unit	Line	Comm	Machine
	Lamp	iviode	кеасу	Ready	Спеск	Спеск
		0			0	0
	Call the	host ope	rator and	ask that	the 7426 a	and all appro
D-	aa tha mus	blows stil	ll aviat7			
00	es the pro	Diem su	II EXIST.			
YE	S NO	C				
		Your	7426 is o	peration	al Yourm	av now use
		, our	/ 120 13 0	peration		
	Verify	that the	setup swi	tches on	the termir	nal attached
	are in p	roper po	sition. ()	Heter to t	ine termin	al documen
	Be sure	that the	terminal	attached	to the fai	ling port is o
	to the t	terminal	documen	tation.)		
	Be sure	that all	cables are	securely	connecte	d.
	Be sure	that the	modems	and data	link are o	operational (
						J
	Go to F	Part 2 of	this chap	ter and p דעוכ פר	erform the	e External P
Do	es the nro	blem sti	Il exist?	111310	JINT.	
20		, , , , , , , , , , , , , , , , , , ,				
YE	S NO	C				
		Go to	the Cha	oter 3 che	ecklist.	
	Portorn	n initiali-	ration (Cl	aantar 2)	than RE	
	es the pro	hlom eti	ll aviet?	iapter 2)	, then he	
00	es the pit	Diem su	II CXI31.			
YE	S NO	C				
		Go to	the Char	nter 3 cha	ocklist	
					SUNTIƏLI	

The problem is external to the 7426. However, you may use the test plug (PN 2720171) to test the communication cable (PN 2720173 or PN 2720174). If the failing terminal is attached with cable PN 2720150, the cable must be replaced.

Note: In Japan, if the failing terminal is connected through a modem, go to the Chapter 3 checklist.

Perform the test as follows:

Disconnect all the 7426 port cables EXCEPT the cable connected to the failing terminal.

- Disconnect the cable from the failing terminal and attached the test plug (PN 2720171) to the terminal end of the cable.
- Go to the next page and continue.

9 (Continued)

□ Read the following note, then go to Part 2 of this chapter and perform the External Port Test. When that is finished, RETURN TO THIS POINT.

Note: You have already disconnected up to three cables from the 7426 and now you will test the cable to the failing terminal. When performing the External Port Test, you will be directed to remove all the cables from all the ports on the 7426. DO NOT REMOVE THE CABLE TO BE TESTED. You will be directed to move a test plug from port to port. When you get to the port with the cable attached, set the test plug aside because the cable will have a test plug attached. Continue the other procedures as directed, then RETURN TO THIS POINT.

Did the port with the cable attached fail the test?



Go to the Chapter 3 checklist.

Replace the failing cable. (This may have to be ordered by your site planner.)

10	Power	Test	Unit	Line	Comm	Machine
	Lamp	Mode	Ready	Ready	Check	Check
	•	0	0	0	0	۲

 \Box Press the Power Switch to OFF (O) then to ON (1).

Does the Machine Check lamp remain on?

YES NO

Go to the Chapter 3 checklist.

Replace the 7426 by following your local procedures.

11	Power	Test	Unit	Line	Comm	Machine
	Lamp	Mode	Ready	Ready	Check	Check
	•	0	В	В	0	0

Perform initialization (Chapter 2), then RETURN TO THIS POINT.

Does the problem still exist?



_	8-Character,			
*			-	
0 🕳		-		
1 _			-	
2 🕳			-	
3 🔔			-	

The 8-character field on the worksheet must match the name (8 characters) of the data set stored at the host.

- □ Notify the host operator that your 7426 Downstream Load Data Set cannot be found.
- □ Read the 8-character field from your worksheet to the host operator, so that he can determine if there is a match.
- ☐ The host operator will either correct the problem at his end, or may give you a new set of 8 characters which you must record on your Initialization Worksheet. Then repeat Chapter 2 initialization with the new information on the worksheet.

Part 2 External Port Test

1 Powering Off the 7426

Be sure the Power Switch is in the OFF (O) position.



2 Disconnecting the Communication Cable

Disconnect the 7426 communication cable.

Note: In Japan, if the 7426 is connected to a modem and the modem is powered on, turn the Test/Oper switch on the adapter cable to Test. Do not disconnect the communication cable.





3 Disconnecting the Port Cables

Be sure that the number on the cables match the port numbers before you remove any cables.

 Disconnect the cables from the four ports of the 7426.

> **Note:** In Japan, if any ports are connected to a modem, turn the Test/Oper switch on the adapter cable to Test. Do not disconnect the cable.



Communication cables from displays or printers.

4 Inserting the Test Plugs

- Insert the test plug (PN 2720166) into port 0.
- □ Tighten the retainer screws.

1





Operator Panel Information

Read the following about the operator panel and review Procedure 5, before you proceed.



Power Lamp

While the Power Switch is off (O), press the Init/Test switch, both to the left and to the right, just to get the feel of it. The switch is spring-loaded and will return to the neutral position.

Under some conditions, the Machine Check lamp will blink momentarily. This is normal and requires no action. But, if the Machine Check lamp should remain on any time during these procedures, it indicates a 7426 failure. Note the failure and continue.



Machine Check Lamp

When the 7426 is powered on, it will automatically perform a self-test. This will last for about 20 seconds. When the self-test has ended, the Unit Ready and Test Mode lamps will begin to blink. This is your signal to press the Init/Test switch to Test (right). The switch must be pressed within 6 seconds after the lamps begin to blink.

5 Powering On

Read this procedure thoroughly before performing any activity, then return to the top of this page and begin.



Did the Power Lamp light?



A're the Unit Ready and Test Mode lamps blinking (after about 20 seconds)?



□ Immediately press the Init/Test switch to Test (right).

Did all lamps light for 3 seconds?



Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?



☐ Go to Procedure 6.











Note: *DO NOT turn the power off any time during Procedures 6 through 11.*

When both the Machine Check and the Comm Check lamps light, it indicates a port failure. Note the failure and continue with the tests.

□ Press the Init/Test switch to Test (right).



Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?



7 Testing in Port 1

□ Loosen the retaining screws of the test plug in port 0.



- □ Remove the test plug from port 0 and insert it in port 1.
- □ Tighten the retainer screws.



Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?





□ Loosen the retaining screws of the test plug in port 1.



- Remove the test plug from port 1 and insert it in port 2.
- □ Tighten the retainer screws.



Press the Init/Test switch to Test (right).

Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?



- Loosen the retaining screws of the test plug in port 2.
- Retainer Screws
- Remove the test plug from port 2 and insert it in port 3.
- □ Tighten the retainer screws.

Press the Init/Test switch to Test (right).

Is the Test Mode lamp blinking and the Machine Check lamp out (after 3 seconds)?





10 Testing the Communication Cable

The communication cable must have a test plug attached.

□ Securely connect the test plug to the end of the 7426 communication cable.

Note: In Japan, if a model B is connected to a modem, be sure the Test/Operate switch is in the Test position and that the modem is powered on.



Press the Init/Test switch to Test (right).

Is the Unit Ready lamp blinking, the Test Mode lamp on, and the Machine Check lamp out?

YES NO

- \square Press the Power Switch to OFF (O).
- □ Move the test plug from port 3 to port 0.
- Restart Procedure 5, Powering On.
- □ If the problem persists, replace the 7426 following your local procedures.

Note. In Japan, if the model 2 is connected to a modem, disconnect the modem adapter cable from the communication cable and attach test plug PN 2720171 to the communication cable, move the test plug from port 3 to port 0, and restart Procedure 5. If the problem goes away, check the modem and the modem adapter cable.

Press the Init/Test switch to Test (right). The Unit Ready lamp will be on and blinking. Ignore the status of the other lamps.

Go to Procedure 11.



11 Removing the Test Plugs

The test plugs must be removed from all ports and from the communication cable, or the 7426 will not operate properly.

□ Remove the test plug from the communication cable.

Note: In Japan, return the Test/Oper switch to the Oper position on all modem adapter cables.

□ Remove the test plug from the port.



Model 2

Save these test plugs. They will be needed for future maintenance procedures.

12 Reconnecting the Terminals to the 7426

Have you noted any failures on any ports?



Reconnect all the communication cables.

□ Return to where you came from in Part 1 of this chapter.

If you have a spare 7426, use Chapter 1 to replace the failing 7426 with the spare.

If you do not have a spare 7426, the following procedure will allow you to use the terminals that were not failing. However, the 7426 should be replaced as soon as possible.

Note: In Japan, if the failing port is connected to a modem, disconnect the cable from that port and restart Procedure 1. If the problem goes away, check the cables which were connected to the failing port.

Were cables originally connected to all four ports?

YES	NO								
	There is a spare port which may be used with the cable from the failing port. Is port 0 the failing port?								
	YES		Relabel the cable from the failing port with the number from the spare port. Reconnect all the communication cables. Label the failing port (with tape), identifying it as being bad. Check the Initializaiton Worksheet to see if the information about the new port is the same as that of the failing port. (Refer to the worksheet and Figure 2-1						
		ls the failing YES	information on the Initialization Worksheet identical for the new and port? NO						
			 Change the worksheet to make the information about the new port match the information about the failing port. Notify the host operator to activate the new port. Use Chapter 2 to perform initialization. 						
A Go to N Page	Bext		So to the Chapter 3 checklist.						

12 F	Reconn	ecting the Terminals to the 7426 (Continued)
	8	Check the Initialization Worksheet to see if the information
		about the new port is the same as that of the failing port. (Refer to the worksheet and Figure 2-1 in Chapter 2.)
	ls th and	ne information on the Initialization Worksheet identical for the new failing port?
	YES 	\$ NO
		\Box Label port 0 (with tape), identifying it as being bad.
		Reconnect all other communication cables, but leave port 0 disconnected.
		Note: You may continue your operation without the terminal that was on port 0. However, you must replace the 7426 as soon as possible
		Go to the Chapter 3 checklist.
		Relabel the cable from the failing port 0 with the number from the spare port.
		Reconnect all the communication cables.
		Label port 0 (with tape) identifying it as being bad.
		Notify the host operator to activate the new port.
		Go to the Chapter 3 checklist.
 There a	are no s	pare ports on the 7426. You may continue your operation without the termi

nal that was on the bad port. However, you must replace the 7426 as soon as possible.

Label the failing port (with tape), identifying it as being bad.

Reconnect all other communication cables, but leave the bad port disconnected.

Go to the Chapter 3 checklist.

Chapter 5. Relocation Instructions

This chapter contains sequential procedures to prepare a 7426 unit for relocation or shipment. Each procedure is numbered and requires one or more action steps. These action steps are identified with a small box (\Box).

- Read each step completely; then refer to any related illustration before performing the task.
- Place a check in the box when the task is completed.

1 Shipping Container

□ Locate the original shipping container. If it is lost, see your site planner.

2 Test Plugs

□ Locate the two test plugs (refer to Chapter 1, Procedure 10 to remove test plugs).

3 Powering Off

- Press the 7426 Power Switch to OFF (O).
- Power off all terminals attached to the 7426.



4 Removing the Power Cord

Disconnect the power cord from the power outlet.



- Disconnect the power cord from the 7426 unit.
- **5** Disconnecting the Communication Cable
- Disconnect the 7426 communication cable.





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6 Removing the Communication Cables

Remove the communication cables from the back of the 7426.



Communication cables from displays or printers.

7 Replacing the Test Plugs





Go to Procedure 8.

Model 1 test plug

Model 2 test plug PN 2720171

PN 7389282

8 Packing the 7426

Are you preparing this 7426 for shipment to an IBM Repair Center?

- YES NO Use the packing instructions found with the shipping container to pack the 7426 for relocation. Fill in all the information requested on the IBM Repair Center Machine Repair Authorization form (GX27-0006).
 - □ Use the packing instructions found with the shipping container to pack the 7426 for shipment to the repair center.

Appendix A. NTT Tests for Japan

When an NTT modem is provided, an authorized inspector must test and approve the CCITT interface drivers of all 7426 units for use in Japan.

The 7426 units were previously tested at the source of manufacture, and a form (2720351) is documented for each port of the 7426. These forms (four for Model 1 and five for Model 2) are shipped with each 7426. The customer must present these forms to the authorized inspector of the area.

If the inspector should question any of the recorded measurements, the customer must display the initialization screen to activate the 7426 ports. The inspector will then test any questionable port measurements for satisfaction. If the 7426 fails the test, it must be replaced.

Display the initialization screen as follows:

- Attach a 3101 or 7485 display unit to port 0 of the 7426.
- Press the power switches to OFF (O) on the 7426 and the display unit.
- If the display unit is a 3101, be sure the setup switches match the Switch Setting Checklist sent by the site planner. (The 7485 does not have setup switches).
- \square Press the power switch of the display unit to ON (1).
- Press the 7426 Power Switch to ON (1).
 (After about 20 seconds, the Unit Ready and Test Mode lamps will blink. Ignore all other lamps at this time).
- While the lamps are blinking, press the Init/Test switch to Init (left).
 The Unit Ready and Test Mode lamps will go out.





A format similar to that shown below will appear on the display tube. DO NOT change any data already on the screen.



-		-	-	-	
	• •	 _	-	-	
ـ ا		 _	-	-	
2 _		 -	-		
3 _			-	_	
					6-Character Field

Did this format appear on your display terminal?

YES NO	
Is this the first time you have reached this step?	
YES NO	
Have you just completed the Chapter 1 setup instructions?	
YES NO	
Go to Chapter 4, Part 2, and perform the External Port Test. Return here if the tests were successful.	
Were the tests successful?	
YES NO	
Replace the 7426 by following your local procedures.	
The problem is external to the 7426. Notify your supervisor.	
The problem is external to the 7426. Notify your supervisor.	
Be sure that a communication cable is attached to the display.	
Be sure that the display power cable is attached to a proper outlet.	
Restart with Procedure 1 of this chapter.	
Continue with the NTT tests.	

In the lower right corner of the screen, a blank 6-character field is displayed.

- □ Fill this field with "NTTPOL". DO NOT enter this in memory. Read the following instructions:
 - 1. NTT is a constant. It must NOT be changed.
 - 2. P must be changed to:
 1 to test port 1
 2 to test port 2
 3 to test port 3
 9 to test the host connector
 - O must be changed to:
 0 to test all ports
 - 4. L must be changed to:
 0 for down level on interface lines.
 1 for up level on interface lines.

When the proper input is displayed in the 6-character field (example NTT100):

- Hold the Alt key down and press the D key (3101) or Accept key (7485). This action will be referred to as "Press Enter".
- Change the 6-character field for each port to be tested and Press Enter.

To Test Port 0:

- □ Change the field to NTT190.
- Press Enter.

Note: Ignore any line check message on the display.

- Change the display cable from port 0 to port 1.
- The 6-character field has now been changed to underscores; Enter one of the following: NTT000 for down level from port 0 NTT001 for up level from port 0.
- Press Enter.

To End the NTT Tests:

- Put all spaces, nulls, or underlines in the 6-character field.
- Press Enter; a 2 will appear in the A field.
- Press Enter; a 3 will appear in the A field. If it does not, the initialization data has been altered and must be corrected by repeating the Chapter 2 initialization procedure.
- □ For CCITT interface information, refer to *IBM 7426 Terminal Interface Unit Description Guide*, GA23-0077.

IBM 7426 Terminal Interface Unit

Order No. GA23-0078-1

User's Comment Form

Your comments will help us improve the quality of this manual. If you answer a question by checking a NO \square , please explain.

Did you find that the information was:

	Yes	No		Yes	No
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 Complete 			Well Illustrated		
Easy to Find			Well Organized		
 Easy to Read 			 Flexible (fits your program) 		

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