

# Field Feature Bill of Material (FFBM)

#### PN 94H7368

FC 5113 or 5123

# Replace CBSP with CBSP3 (SC 9018) or CBSP2 with CBSP3 (SC 9103) in IBM 3746 Models 9X0

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# **Before Installation (Steps 1-8)**

Net Priced Feature

All parts removed from this machine are IBM property and must be returned to IBM.

#### 1.0 Machines Affected

All 3746 Models 900 or 950.

This feature should only be applied on the machine serial for which it is specified.

#### 2.0 Related BMs and ECs

# 2.1 Prerequisites

(Must be installed prior to this installation)

• EC microcode D46130D minimum level or higher.

**Checkpoint:** Check that the CSS basic level packaging unit (BLPU) EC level is D46133-011 or higher.

(Refer to SPIM, Chapter 3, 'Displaying the EC Level of Code Installed on the Hard Disk).

If the EC level is not present you must upgrade the Licensed Internal Code.

#### 2.2 Concurrent

(Must be installed together)

None.

# 2.3 Companion

(May be installed together)

None.

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#### 3.0 BMs to be Used

FFB/M

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# 4.0 Preparation

- 1. Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.
- 2. Check all items listed on the BM(s) to determine that all parts have been received.
- 3. This FFBM contains ESD sensitive parts. Prior to handling such part refer to "ESD Sensitive Parts Handling," outlined in Service Memorandum No. 305 of the IBM General Technical Service Memorandums group, IBM order number S230-9009.
- 4. Ask the customer:
  - For the maintenance password (Default: IBM3745).
  - To stop traffic on the 3745 and on the 3746-900
  - To logoff the Service Processor (SP), if not already done.

# 5.0 Programming

### 5.1 Diagnostic Programs

None.

# 6.0 Purpose and Description

#### 6.1 Purpose

Replace CBSP or CBSP2 with CBSP type 3

#### 6.2 Description

Replace a CBSP type 1 or 2 with a CBSP type 3 Cassette.

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# 7.0 Installation Time

FFBM	Machine Hours	System Hours	Nbr of CE's
94H7368	1	0.0	1

# 8.0 Tools/Materials Required.

Part No. Name.6428316 ESD kit

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# **Installation (Steps 9-12)**

# 9.0 Safety

Review the **Safety Notices** and the **Safety Inspection Procedures** located at the beginning of the *IBM 3745 Communication Controller All Models*, *IBM 3746 Expansion Unit Model 900*, *IBM 3746 Nways Multinetwork Controller Model 950 Safety Information*, GA33-0400.

### 10.0 Details of the Installation

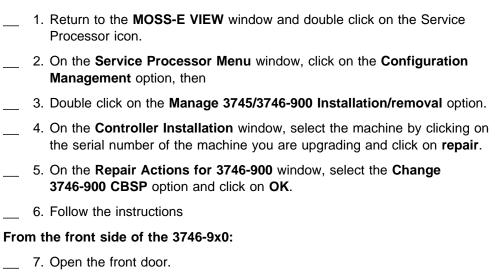
Logging Ol	N the Service Processor.
_	1. On MOSS-E View window, click on Program.
	2. Click on LOG ON MOSS-E.
_	3. Enter the maintenance password, press <b>Enter</b> .
Setting the	3746-9X0 in Offline Mode
_	1. Return to the 3746-9x0 Menu window.
	2. Click on the <b>Problem Management</b> option.
_	3. Double click on the Set 3746-9x0 Online/Offline option.
_	<ol> <li>The Set 3746-9x0 Online/Offline window is displayed, follow the instruc- tion to set the machine Offline</li> </ol>
_	<ol><li>Wait for the IML to end with 00000000 and ready LED ON, on the 3746-900 Control panel.</li></ol>
Setting the	3746-900 Power Mode
On	the 3746-9x0 Control Panel:
	Check that the <b>Power Control</b> indicator displays 3.
	If it does not, record the value, press the <b>Power Control</b> key until (3) is displayed in the Power Control window. Then, press the <b>Validate</b> key.
	Otherwise, continue with next step.
	Setting the  Setting the

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# 10.4 Replacing a CBSP with a CBSP3

#### On the Service Processor:



Q	Р	М	К	Н	F	D	В
Dummy	TRP / ESCP / CLP	CBSP	SPS	CSCE			

8. Locate the CBSP cassette using the following figure and the labels on the

Figure 1. Basic Enclosure

doors.

# Use the ESD kit and procedures. 9. If there is a cable plugged in the front of the CBSP, remove the bracket, and unplug the cable. 10. Remove the cassette: • Press the two unlocking buttons and

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· pull out the cassette.



		11. Insert the CBSP3 cassette into the enclosure and slide it firmly in until it clicks (locks in).
		12. If there was a cable in front of the CBSP, plug it again and secure it with the bracket previously removed.
		On the 3746-9x0 Control Panel:
		13. Press <b>General IML</b> button.
		CBSP3 hardware initialization phase is started which should terminate with <b>05282805</b> displayed at the 3746-900 control panel. If a problem occurs during this phase, a code is displayed on the control panel. This code can be flashing or steady (more than 60 seconds).
		Is code 05282805 displayed?
		• YES, Go to 14.
		• NO, Go to 22 on page 9.
		14. Return to Service Processor, then click on <b>OK</b> .
		15. Continue with the displayed instruction of the <b>Controller Repair Message</b> .
		On the 3746-9x0 Control Panel:
		Is the Standby LED ON?
		• YES, Go to 16.
		• NO, Go to 10.5, "Upgrading 3746-900 EEPROM." on page 9.
		16. Press the <b>Start</b> key. An IML is started.
		A normal IML is terminated by <b>0000000</b> displayed on the 3746-9x0 control panel.  If a problem occurs during IML, a code is displayed on the control panel.  This code can be flashing or steady (more than 60 seconds).
		Is code 00000000 displayed?
		• YES, Go to 17.
		• NO, Go to 19.
		On the Service Processor:
		17. Return to the <b>Controller Repair Message</b> window and click on <b>OK</b> .
		18. Continue with the displayed instruction of the Controller Repair Message,
		then go to 10.5, "Upgrading 3746-900 EEPROM." on page 9.
		19. Record the displayed control panel code, then
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20. To fix the problem, go to 3746-9x0 Control panel code reported on Chapter 1. Start - How to Begin Troubleshooting: Selection Table of the 3746-950 Service Guide, SY33-2108, or 3746-900 Service Guide, SY33-2116
21. Go to 10.5, "Upgrading 3746-900 EEPROM.."
22. Record the displayed control panel code.
23. Return to Service Processor, then click on OK.
24. Remove the CBSP3 that you have installed and order a replacement CBSP3 from C.E. Stores.
25. Reinstall a new CBSP3, go to step 9 on page 7.

#### 10.5 Upgrading 3746-900 EEPROM.

#### On the Service Processor:

- Return to the 3746-900 menu
- 2. Click on the Change Management Option
- 3. Double click on the Upgrade/downgrade EEPROM Code Level option.
- 4. An EEPROM Upgrade window is displayed telling that the Service Processor is searching the 3746-900 configuration.
  - 5. On the EEPROM Upgrade window, the upgradable or downgradable processors are highlighted in reverse video according to the preselected status of the **Upgrade** or **Downgrade** options at the top of the window.

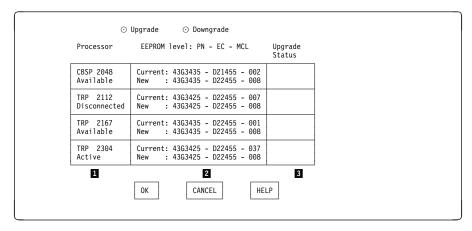


Figure 2. EEPROM Upgrade Window.

- **1** Gives the list of the 3746-9x0 processors in CDF-E with their status (available/disconnected/active).
- 2 Gives the current and new EEPROM level: PN/EC/Level of each processor.
- **3** Gives the status after the activation of the function.

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			6. Se	Select the <b>Upgrade</b> option at the top of the screen, then click on <b>OK</b> .						
		_		. An <b>EEPROM Upgrade</b> window informs you that the EEPROM upgrade in progress and the time duration.						
		_		. At the end, an updated <b>EEPROM Upgrade</b> window is displayed with the status of the upgrade for each processor.						
			CI	Check the result and take the appropriate action:						
			S	tatus	Action					
			C	omplete	Upgrade do exit the fun		ror, click on C	cancel button to		
			St	art failed	Call your s	upport.				
			Fa	niled	Call your s	upport.				
			C	ompletion faile	<b>d</b> Call your s	upport.				
10 6	Runnin	a th	ΔD	iaanostic	s on 37	46-9 <b>y</b> 0				
10.0	<ul><li>10.6 Running the Diagnostics on 3746-9x0.</li><li> 1. Return to the 3746-9x0 Menu window, the icon should be Red (Machir offline).</li></ul>									
			2. Cl	Click on the <b>Problem Management</b> option.						
			3. D	. Double click on the <b>Perform Offline Diagnostics</b> option.						
			4. Tł	. The <b>Diagnostics</b> window is displayed.						
			5. Se	5. Select the Whole 3746-900 and the No wrap options and click on Start						
		_		6. The <b>Diagnostics</b> window is displayed again and the <b>Elapsed time</b> is incremented during test						
		_	7. At	At the end of the test the number of errors is indicated by an arrow.						
				If an error is detected, refer to 3746-950 Service Guide, SY33-2108 o 3746-900 Service Guide, SY33-2116, go to:						
	<ul> <li>Display the Field Replacement Unit (FRU) List After a Diagnostic Failure, then</li> <li>to 3746-900 Maintenance Using the FRU list.</li> </ul>									
			lf	no error is det	ected, click o	n <b>Cancel</b> , the	n go to next s	tep.		
10.7	Setting	the	374	46-900 to	Online I	Mode				
. •		_		eturn to the 374						
	2. Click on the <b>Problem Management</b> option.									
	3. Double click on the <b>Set 3746-9x0 Online/Offline</b> option.									
4. The Set 3746-9x0 Online/Offline window is displayed, follow the instruction to set the machine Online										
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10										



# 10.8 Resetting the 3746-900 Power Mode

The Power Control is 3 (local). If its original value was 1 (remote), do the following: 1. On the Control Panel, press the Power Control key until (1) is displayed in the Power Control window, then \_\_ 2. Press the **Validate** key. 1. Close the 3746-9x0 front door.

# 10.9 Returning the Machine to the Customer

2. Log the Service Processor OFF

3. Inform the Customer to restart the traffic on the 3745 and on the 3746-9x0.

## 11.0 Test Procedures

No test required.

# 12.0 Field Updating

None.

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# After Installation (steps 13-15)

# 13.0 Publications Update

None.

# 14.0 Parts Disposition

All replaced/removed parts become the property of IBM. You MUST RETURN these parts following the instructions given on the Returned Material Equipment Report (RMER) provided with this FFBM.

### 15.0 Machine Records

- Install the new MACHINE HISTORY supplied.
- Report installation and quality problems using existing procedures.

End of instructions.

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