Field Feature Bill of Material (FFBM)

PN 08J5503

Installation of a Serial Optical Channel Processor Type 3 (FC 5523) in IBM 3746 Models 9X0

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Before Installation (Steps 1-8)

1.0 Machines Affected

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.

3.0 BMs to be Installed

FFBM	Title
08J5382	Installation of an ESCP3 processor (FC 5523)
08J5503	Installation Instruction.

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 the 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. Obtain the *HONE configuration/plugging sheet* from the Customer or from the IBM representative.

5.0 Programming

5.1 Diagnostic Programs

None.

6.0 Purpose and Description

6.1 Purpose

Installation of a new feature.

6.2 Description

Installation of a cassette and reconfiguration of the machine.

7.0 Installation Time

FFBM	Machine Hrs	System Hrs	Nbr of CE
08J5382	0.5	0.0	1

8.0 Tools/Materials Required

Part No. Name.

6428316 ESD kit

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 Multiprotocol Controller Model 950 Safety Information*, GA33-0400.

10.0 Details of Installation

Before the installation, ask the customer:

__ • For the maintenance password.

__ • To logoff the Service Processor (SP), if not already done.

10.1 Setting 3746-9x0 Power Mode

On the 3746-9x0 Control Panel:

__ Check that the **Power Control** indicator displays **3**.

If it does not, record the value __, press the **Power Control** key until (3) is displayed in the Power Control window. Then, press the **Validate** key.

Otherwise, continue with next step.

10.2 Logging ON the Service Processor

__ 1. On **MOSS-E View** window, click on **Program**.

__ 2. Click on **LOG ON MOSS-E**.

__ 3. Enter the maintenance password (default is IBM3745), then press **Enter** and go to 10.3, "Installing the Processor" on page 6.

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10.3 Installing the Processor

__ 1. Double click on the 3746-9x0 icon.

__ 2. On **3746-9x0 Menu** window, click on **Configuration Management**.

__ 3. Double click on **Add/Retrieve Resources in Concurrent Mode**.

__ 4. When **Confirmation** screen is displayed,

From the front side of the 3746-9x0:

__ 5. Open the 3746-9x0 front door.

__ 6. Locate the position where the ESCP3 is to be installed. Refer to the *HONE configuration/plugging sheet* and the following figures to help with the locations.

> **Note:** Some combinations of ESCP3 and CLP processor cards will not let the new ESCP3 initialize properly. For CLP processors, the positions are organized in pairs as follows:
>
> - D and F (in 1st and 2nd Expansion Enclosures)
> - H and K (in all Enclosures)
> - M and P (in all Enclosures).

Please read the following for these combinations before continuing to the next step.

- If you are installing the ESCP3 in position D and a CLP is already installed in F, make sure no LICs are currently installed on the **coupler side** in positions C and D.
- Similarly, if you are installing the ESCP3 in position F and a CLP is already installed in D, make sure no LICs are currently installed on the **coupler side** in positions E and F.
- If you are installing the ESCP3 in position H and a CLP is already installed in K, make sure no LICs are currently installed on the **coupler side** in positions G and H.
- Or, if you are installing the ESCP3 in position K and a CLP is already installed in H, make sure no LICs are currently installed on the **coupler side** in positions J and K.
- Similarly, if you are installing the ESCP3 in position M and a CLP is already installed in P, make sure no LICs are currently installed on the **coupler side** in positions L and M.
- Or, if you are installing the ESCP3 in position P and a CLP is already installed in M, make sure no LICs are currently installed on the **coupler side** in positions N and P.

If you encounter one of the above conditions, do not install the ESCP3 and report a configuration error to the customer. Have the customer assign another location for the card.

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Q	P	M	K	H	F	D	B
Dummy	TRP / ESCP / CLP	TRP / ESCP / CLP	TRP / ESCP / CLP	TRP / ESCP / CLP	CBSP	SPS	CSCE

Figure 1. Basic Enclosure

Q	P	M	K	H	F	D	B
Dummy	TRP / ESCP / CLP	TRP / ESCP / CLP	TRP / ESCP / CLP	TRP / ESCP / CLP	TRP / ESCP / CLP	TRP / ESCP / CLP	CSCE

Figure 2. 1st or 2nd Expansion Enclosure.

__ 7. Remove the dummy cassette from the location where the new ESCP3 is to be installed.

__ 8. Insert the ESCP3 cassette into the enclosure and slide it firmly until it clicks (locks in).

On the Service Processor:

__ 9. **Wait** for alarm 0052 or 0572 as instructed on the confirmation window, verify the displayed positions of the processor cassette. Click on **OK**.

__ 10. On confirmation screen, click on **OK**.

__ 11. On **Resource Selector** window, click on the resource you want to add, click on **OK**.

__ 12. On **Add/Retrieve Resource Options** window, click on **OK**.

__ 13. On **Diagnostics** window, click on **Start**.

__ 14. On **Specific Adapter** window, select adapter, click on **OK**.
Diagnostics start and takes between 3 and 5 minutes to run.

__ 15. On **Diagnostics** window, check that no errors are logged, click on **Cancel**. If an alarm is displayed, see the *MIP*, Chapter 1, and follow the appropriate procedure.

__ 16. On **Add/Retrieve Resource Options** window, click on **Initialize the resource**, click on **OK**.
Wait for request is complete warning screen to appear, click on **OK**.

__ 17. **Wait** for alarm IML COMPLETE, click on **OK**.

__ 18. Click on **Remove the resource from the concurrent mode**, click on **OK**.

__ 19. On the Warning window, click on **OK**.
Wait for alarm 0657 concurrent mode, click on **OK**.

__ 20. If a **Confirmation** window is displayed, click on **Cancel**.
If the **Resource Selector** window is displayed, click on **Cancel**. Then, on **Confirmation** window, click on **OK**.

> **Important Note**
>
> According to the level of microcode the following pop up screen **Active CDF-E has been successfully saved as reference CDF-E** may not be displayed (within 1 minute). Click on **OK** if displayed.

10.4 Saving CDF-E on Diskette

___ 1. Double click on the SP icon.

___ 2. On **Service Processor Menu** window, click on **Configuration Management**.

___ 3. Double click on **Manage 3745/3746-9x0 Installation**.

___ 4. On **Controller Installation** window, select the machine you are installing/removing the cassette.

___ 5. Click on **Save**.

___ 6. When requested, insert the *Installation Parameters Diskette* in the diskette drive of the SP.

___ 7. When the **Warning** window is displayed, remove the diskette and click on **OK**.

___ 8. On **Controller Installation** window, click on **Cancel**.

10.5 Upgrading EEPROM

On the Service Processor:

___ 1. 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.
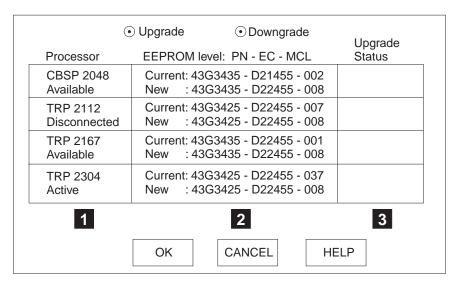
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	⊙ Upgrade	⊙ Downgrade	Upgrade
Processor	EEPROM level: PN - EC - MCL		Status
CBSP 2048 Available	Current: 43G3435 - D21455 - 002 New : 43G3435 - D22455 - 008		
TRP 2112 Disconnected	Current: 43G3425 - D22455 - 007 New : 43G3425 - D22455 - 008		
TRP 2167 Available	Current: 43G3435 - D22455 - 001 New : 43G3435 - D22455 - 008		
TRP 2304 Active	Current: 43G3425 - D22455 - 037 New : 43G3425 - D22455 - 008		

1   **2**   **3**

OK	CANCEL	HELP

Figure 3. 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.

__ 6. Select the **Upgrade** option at the top of the screen, then click on **OK**.

__ 7. An **EEPROM Upgrade** window informs you that the EEPROM upgrade is in progress and the time duration.

__ 8. At the end, an updated **EEPROM Upgrade** window is displayed with the status of the upgrade for each processor.

Check the result and take the appropriate action:

Status	*Action*
Complete	Upgrade done without error, click on **Cancel** button to exit the function.
Start failed	Call your support.
Failed	Call your support.
Completion failed	Call your support.

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10.6 Performing General IML

__ 1. Return to the **3746-9X0 Meneu**, then click on **Operation Management**.

__ 2. Double click on **Perform General IML with Diagnostics**.
At the end of the IML, a code is displayed on the 3746-9x0 Control Panel.

Is code 00000000 displayed?

- **Yes**, go to 10.7, "Re-setting 3746-9x0 Power Mode."

- **NO**, Go to **3746-9x0 Control Panel Code reported** oo **Chapter 1 Start - How to Begin Troubleshooting: Selection Table** of the *3746-950 Service Guide*, SY33-2108, or *3746-900 Service Guide*, SY33-2116

10.7 Re-setting 3746-9x0 Power Mode

On the 3746-9x0 control panel,

__ - Set the **Power Control** indicator to its original value.

__ - Press the **Validate** key.

10.8 Logging OFF the Service Processor

__ 1. On the **3746-9x0 Menu** window, click on **Function**, then, click on **Exit**.

__ 2. On the **MOSS-E View** window, click on **Program**.

__ 3. Click on **LOG OFF MOSS-E**.

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

14.1 Purchased Machines

Refer to the parts ownership matrix to determine the correct owner of removed/unused parts.

- For EMEA/APG/AG Areas, refer to *Hardware and General Service Code Description*.
- For Domestic Areas, return parts to the customer.

15.0 Machine Records

- Install the new **MACHINE HISTORY** supplied.
- Report installation and quality to existing procedures.

*** End of instructions ***

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