Field Feature Bill of Material (FFBM)

PN 08J5506

Installation of a Communication Line Processor Type 3 (FC 5203) in IBM 3746 Model 9x0

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Before Installation (Steps 1-8)

1.0 Machines Affected

3746 Model 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

FFB/M	Title
08J5384	Installation of a CLP3 (FC 5203)
08J5506	Installation Instruction.

4.0 Preparation

__ 1. Familiarize yourself with the purpose and details of these installation instructions before negotiating machine time with the customer.

__ 2. Check all the items and count the parts listed on the BM to be installed to determine whether all the parts were 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 Installed	Machine Hours	System Hours	Nbr CE
08J5384	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 Multinetwork 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, press **Enter**.

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 fron door.

__ 6. Locate the position where to install the CLP3.
5(Refer to the *HONE configuration / plugging sheet* and the following figures).

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, then

___ 8. Insert the CLP3 casette 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 up to 8 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**.

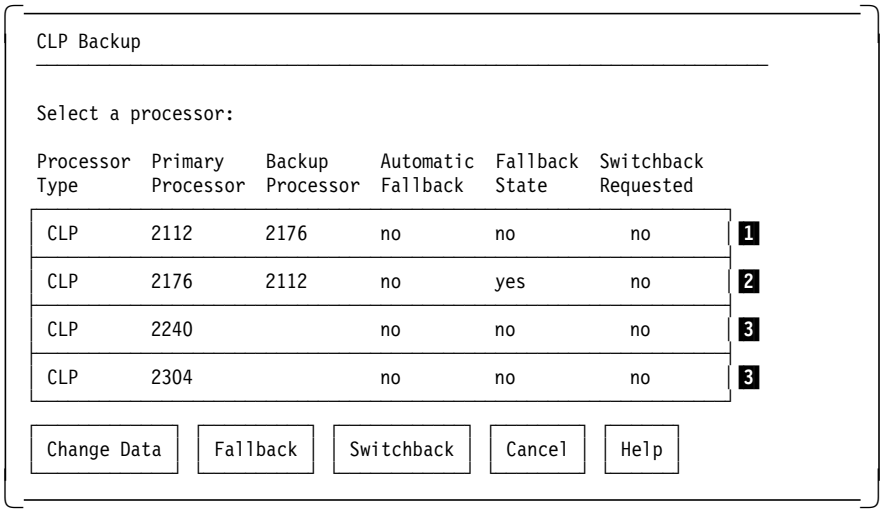
___ 21. Double click on **Save Active CDF-E as Reference CDF-E**.

___ 22. When the save is finished, click on **OK**

__ 23. On the **3746-9x0 Menu** window click on **Configuration Management**.

__ 24. Double click on **Define Backup CLP**.

__ 25. The following ″CLP Backup″ window is displayed. Verify that the new CLP shows up.
The new CLP will most likely show up as being in Fallback mode with all LIC′s showing up on the old CLP.
Select the primary processor using the arrow up or down key, then click on **Switchback** button. Then, **Save** and **Exit**.



Note:

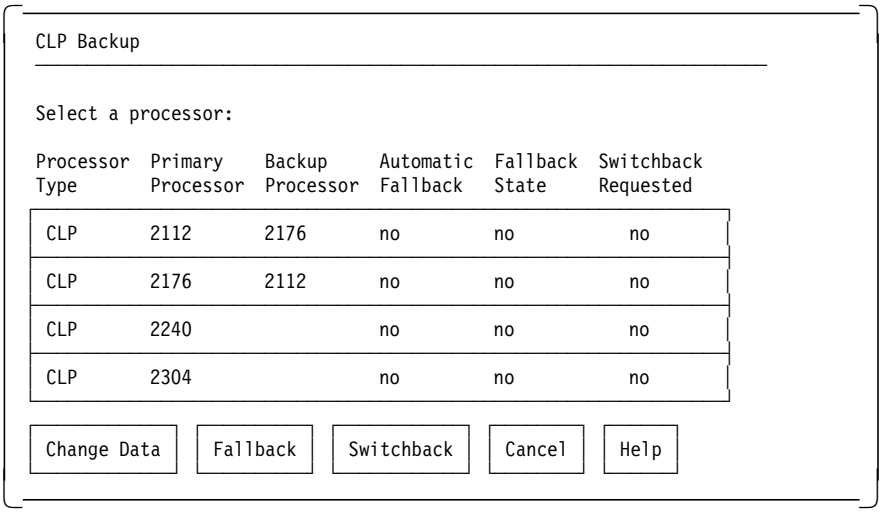
1 and **2** These lines indicates that the CLP line addresses ranges from 2112 and from 2176 can be backup for each other.

2 This line with a ″yes″ in the fallback state column indicates that the primary processor (2176) is controlling the LICs of the backup processor (2112).

3 These lines indicate that the CLPs have no backup.

__ 26. Double click on **Define Backup CLP**.
Verify that both CLP′s now show as **Fallback=NO** and **Switchback Request=NO**.

- If so, the LIC′s should now be properly split between the two CLP′s. **Go to 10.4, “Saving CDF-E on Diskette” on page 8** .
- If the Switchback doesn′t take, try selectivly IMling both CLP′s.
- If the selective IML does not work, contact the RMSC and we will pull Engineering data to try to determine why the Switchback is not working



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 the EEPROM.

__ 1. On the **3746-9x0 Menu** window click on **Change Management**.

__ 2. Double click on the **Upgrade/Downgrade EEPROM Code Level**.
A window is displayed with a message box saying that the service processor is searching the 3746-9x0 configuration.
On **EEPROM Upgrade** window, the processors subject to upgrade or downgrade are **highlighted** according to the preselected status of the options ″Upgrade″ or ″Downgrade″ on the top of the window (see Figure 3 on page 9).

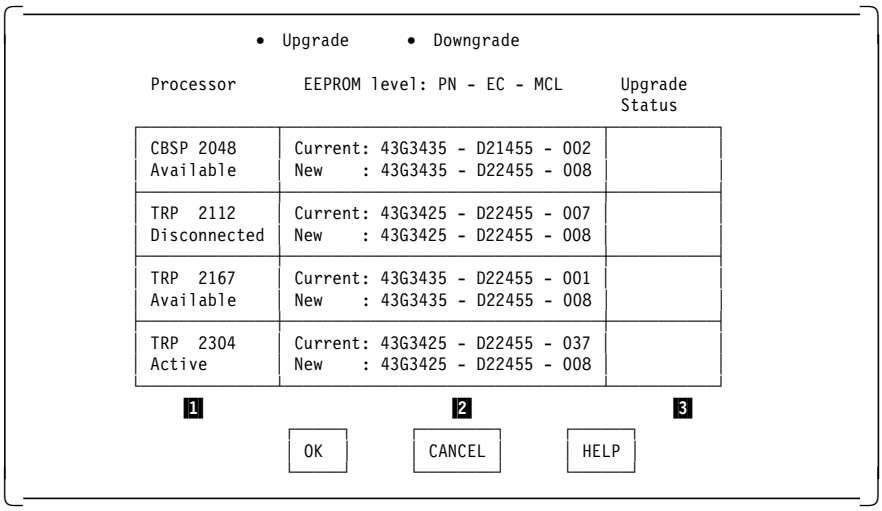


Figure 3. Example of An EEPROM Upgrade Window

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.

__ 3. According to the action that you want to do, click on ″**Upgrade**″ or ″**Downgrade**″ option on the top of the screen, then click on **OK**
An ″EEPROM Upgrade″ window informs you that the EEPROM upgrade or downgrade is in progress with its time duration.
At the end, a status is displayed for each processor.

__ 4. Check the result of your EEPROM upgrade/downgrade operation with the following table and take the appropriate action:

EEPROM Status	**Action**
Complete	Upgrade done without error continue with the next step.
Start failed	Call your support
Failed	Call your support
Completion failed	Call your support

__ 5. Return to the **3746-9x0 Menu**, then click on **Operation Management**.

__ 6. Double click on the **Perform General IML** with **Diagnostics**.
A Normal IML must be terminated by 00000000 displayed on the 3746-9x0 control panel.

10.6 Re-setting the 3746-9x0 Power Mode

On the 3746-9x0 Control Panel:

__ Set the **Power Control** indicator to its original value.
Press the **Validate** key.

10.7 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.

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 *****