



Field Feature Bill of Material (FBM)

PN 80G2809

RPQ 7L1272

**Replace ESCP Processor (FC 5500) with ESCP2 (FC 5522)
in IBM 3746 Models 9X0**

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3746	PN 80G2810	EC D55787	EC E63480			
FBM	1 of 10	06SEP94	19AUG96			



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

3746 Models 900 or 950.

2.0 Related BMs and ECs

2.1 Prerequisites

(Must be installed prior to this installation)

- EC microcode D22510K minimum level or higher.
Checkpoint: Check that the basic level packaging unit **CSS 1** EC level is D22510-061 or higher (Refer to SPIM, Chapter 3, 'Displaying the EC Level of Code Installed on the Hard Disk').
- EC documentation D55791 minimum level or higher.
Checkpoint: EC level on PRD sheet (vol 1).

2.2 Concurrent

(Must be installed together)
None.

2.3 Companion

(May be installed separately)
None.

3.0 BMs to be Used

FFBM	Title
80G2809	Replace ESCP Processor (FC 5500) with ESCP2 (FC 5522)

4.0 Preparation

- See the *HONE configuration/plugging sheet* and the following figures to determine the cassette positions.

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.

- Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.
- Check all items listed on the BM(s) to determine that all parts have been received.

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5.0 Programming

5.1 Diagnostic Programs

None.

6.0 Purpose and Description

6.1 Purpose

Convert ESCP (FC 5500) to ESCP2 (FC 5522)

6.2 Description

Exchange of a cassette processor.

7.0 Installation Time

FFBM	Machine Hours	System Hours	Nbr. CE
80G2809	0.5	0.0	1

8.0 Tools/Materials Required

ESD kit (PN 6428316).

Installation (Steps 9-11)

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

Before the installation, ask the customer:

- ___ • To deactivate resources for the identified coupler/processor.
- ___ • For the maintenance password.
- ___ • To logoff the Service Processor (SP), if not already done.

10.1 3746-9x0 Power Mode

- ___ Check that the **Power Control** display is set to local (3) on the control panel.
If not, do the following:
 - Press the **Power Control** key until (3) is displayed in the Power Control window.
 - Press the **Validate** key.

10.2 Log the SP ON

- ___ 1. On **MOSS-E View** window, click on **Program**.
- ___ 2. Click on **LOG ON MOSS-E**.
- ___ 3. Enter the maintenance password, then press **Enter**.

10.3 Processor Cassette Exchange

- ___ 1. Double click on the 3746-9x0 icon.
- ___ 2. On **3746-9x0 Menu** window, click on **Problem Management** option..
- ___ 3. Double click on **Perform Maintenance** option.
- ___ 4. On the **Resource Options Selection for maintenance** window, click on **Via the Active CDF-E** option, then click on **OK**.
- ___ 5. On the **Resource Selector** window, select (click on) the ESCP you want to replace.



- ___ 6. Once the resource is set to concurrent mode, the **Maintenance Options** window is displayed.
- ___ 7. Click on **Replace the Resource** option, then click on **OK**.
- ___ 8. On **Confirmation** window, click on **OK**.
- ___ 9. On the 3746-9x0 machine, open the front cover.
- ___ 10. Exchange the ESCP cassette by the ESCP2.

Warning

Use the ESD kit and procedures.

- ___ a. Locate the ESCP cassette to be removed.
- ___ b. Remove the ESCP cassette (Follow the instruction label affix close to the enclosure).
- ___ c. Insert the ESCP2 cassette into the enclosure and slide it firmly until it clicks (Locks in).
- ___ d. If there was a cable in front of the ESCP, plug it on the ESCP2 and secure it with the bracket previously removed.
- ___ 11. Wait until the **Alarm xxxx FRU Unplugged**, and **Alarm xxxx FRU Plugged** messages are displayed on the Service Processor screen, then continue.
- ___ 12. On the **Confirmation** window, click on **OK**.
- ___ 13. Return to the **Maintenance Options** window.
- ___ 14. Click on **Perform Diagnostics on the resource** option, then click on **OK**.
- ___ 15. A **Diagnostics** window is displayed. Check that the **Specific adapter** and **No wrap** options are selected, then click on **Start**.
- ___ 16. A **Specific Adapter** window is displayed, select (click on) the ESCP2 just installed, then click on **OK**.
- ___ 17. The **Diagnostics** window is displayed again and the **Elapsed time** is incremented during the test.

At the end of the test, the number of errors is indicated by an arrow.

- ___ a. If there is an error: Call support for assistance
- ___ b. Otherwise, click on **Cancel** to return to the **Maintenance Options** window, then continue on next step.
- ___ 18. Click on **Initialize the Resource** option to reinitialize the ESCP2.
- ___ 19. Follow the instruction of the **Warning** window, then click on **OK** when prompted.
- ___ 20. The **Maintenance Options** window is displayed
- ___ 21. Click on **Remove the Resource from the Concurrent Mode** option, then click on **OK**
- ___ 22. On the **Warning** window, click on **OK**

- ___ 23. On the **Resource Selector** window, click on **Cancel**
- ___ 24. Return to the **3746-9x0 Menu** window

10.4 EEPROM Upgrade

- ___ 1. On the **3746-9x0 Menu** window, click on **Change Management**.
- ___ 2. Double click on **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).

• Upgrade
• Downgrade

Processor	EEPROM level: PN - EC - MCL	Upgrade Status
CBSP 2048 Available	Current: 43G3435 - D21455 - 002 New : 43G3435 - D22455 - 008	
ESCP 2112 Disconnected	Current: 43G3425 - D22455 - 007 New : 43G3425 - D22455 - 008	
ESCP 2170 Available	Current: 43G3435 - D22455 - 001 New : 43G3435 - D22455 - 008	
ESCP 2304 Active	Current: 43G3425 - D22455 - 037 New : 43G3425 - D22455 - 008	

1
2
3

OK

CANCEL

HELP

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, Select the "**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:

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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.

10.5 Save CDF-E on Diskette

- ___ 1. Double click on the SP icon.
- ___ 2. The **Service Processor Menu** window is displayed.
- ___ 3. Click on **Configuration Management**.
- ___ 4. Double click on **Manage 3745-3746-9x0 Installation**.
- ___ 5. The **Controller Installation** window is displayed.
- ___ 6. Click on the machine you are installing/removing the cassette.
- ___ 7. Click on **Save**.
- ___ 8. When requested, insert the *Installation Parameters Diskette* in the diskette drive of the SP.
- ___ 9. When the **Warning** window is displayed, remove the diskette and click on **OK**.
- ___ 10. The **Controller Installation** window is displayed.
- ___ 11. Click on **Cancel**.
- ___ 12. The **3746-9x0 Menu** window is displayed.

10.6 3746-9x0 Power Mode

- ___ The **Power Control** is local (3).
If its original value was (1) Remote, do the following:
 - On the Control Panel, press the **Power Control** key until (1) is displayed in the Power Control window, then
 - Press the **Validate** key.



10.7 Log the SP OFF

- ___ 1. Return to the **3746-9x0 Menu** window,
- ___ 2. Click on **Function**, then click on **Exit**.
- ___ 3. On the **MOSS-E View** window, click on **Program**.
- ___ 4. Click on **LOG OFF MOSS-E**.

11.0 Test Procedures

No Test Required.



After Installation (steps 12-15)

12.0 Field Updating

None.

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

- Record in the **MACHINE HISTORY** the new EC D55787 installed.
- Report installation and quality to existing procedures.

*** End of instructions ***