

## **Field Feature Bill of Material (FFBM)**

**PN 08J5502**

**RPQ 7L1333 or 7L1334**

**Replace TRP (FC 5600) or TRP2 (FC 5622) with TRP3 (FC  
5623)  
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

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').

### 2.2 Concurrent

(Must be installed together)

None.

### 2.3 Companion

(May be installed together)

None.

## 3.0 BMs to be Installed.

FFBM	Title
08J5273	Replace TRP (FC 5600) or TRP2 (FC 5622) with TRP3 (FC 5623)
08J5502	Installation Instruction

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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. 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

Convert TRP (FC 5600) or TRP2 (FC 5622) to TRP3 (FC 5623)

### 6.2 Description

Exchange of a cassette processor.

## 7.0 Installation Time

FFBM	Machine Hours	System Hours	Nbr. CE
08J5273	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 the Installation

Before the exchange, ask the customer:

- \_\_\_ 1. For the maintenance password.
- \_\_\_ 2. 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 Replacing the Processor.

- \_\_\_ 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 TRP 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**.

**On the 3746-9x0 machine:**

- \_\_\_ 9. Open the front cover.
- \_\_\_ 10. Locate the TRP cassette to be replaced.  
(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.

- \_\_\_ 11. If there is a cable plug in the front of the cassette:
  - Remove the bracket.
  - Unplug the cable.

**Warning**

Use the ESD kit and procedures.

- \_\_\_ 12. Remove the TRP cassette (Follow the instruction label affix close to the enclosure).
- \_\_\_ 13. Insert the TRP3 cassette into the enclosure and slide it firmly until it clicks (Locks in).
- \_\_\_ 14. If there was a cable in front of the TRP, plug it on the TRP3 and secure it with the bracket previously removed.

**On the Service Processor:**

- \_\_\_ 15. Wait until the **Alarm xxxx FRU Unplugged**, and **Alarm xxxx FRU Plugged** messages are displayed on the Service Processor screen, then continue.
- \_\_\_ 16. On the **Confirmation** window, click on **OK**.
- \_\_\_ 17. Return to the **Maintenance Options** window.
- \_\_\_ 18. Click on **Perform Diagnostics on the resource** option, then click on **OK**.

- \_\_\_ 19. A **Diagnostics** window is displayed. Check that the **Specific adapter** and **No wrap** options are selected, then click on **Start**.
- \_\_\_ 20. A **Specific Adapter** window is displayed, select (click on) the TRP3 just installed, then click on **OK**
- \_\_\_ 21. 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.
- \_\_\_ 22. Click on **Initialize the Resource** option to reinitialize the TRP3.
- \_\_\_ 23. follow the instruction of the **Warning** window, then click on **OK** when prompted.
- \_\_\_ 24. The **Maintenance Options** window is displayed
- \_\_\_ 25. Click on **Remove the Resource from the Concurrent Mode** option, then click on **OK**
- \_\_\_ 26. On the **Warning** window, click on **OK**
- \_\_\_ 27. On the **Resource Selector** window, click on **Cancel**
- \_\_\_ 28. Return to the **3746-9x0 Menu** window

## 10.4 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.



☐ Upgrade    ☐ Downgrade

Processor	EEPROM level: PN - EC - MCL	Upgrade 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

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:

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

9. Return to the **3746-9x0 Menu**, then click on **Operation Management**.
10. 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 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.

## 10.6 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

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 to existing procedures.

**\*\*\* End of instructions \*\*\***



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