

Installation of Field Bill of Material

PN 02L4064

System Card Replacement on Multiaccess Enclosure (FC3000) of the IBM 3746 Models 9X0

Written by: C. Vallee
Checked by: J. Thabourin
Approved by: A. Badino
Reviewed by: J. Wicks

IDM Installation Instructions

EC F52322 09 OCT 98



Before Installation (Steps 1-8)

1.0 Machines Affected

3746 Model 9X0 with Multiaccess Enclosure (FC 3000)

2.0 Related BMs and ECs

2.1 Prerequisites

IMPORTANT

Before changing the system card, verify that your customer has **saved** all his **MAE configuration files** on diskette. If not, do not exchange the card before he has saved his configurations.

2.2 Concurrent ECs

(Must be installed together)

None.

2.3 Companion ECs

(May be installed together)

None.

3.0 BMs to be Installed

FB/M Title

02L4064 System Card replacement.

4.0 Preparation

- 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.

	PN 02L4064
FBM	3 of 20

EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



5.0 Programming

None.

6.0 Purpose and Description

6.1 Purpose

To improve the performances of the Multiaccess Enclosure.

6.2 Description

To replace the system card on the Multiaccess Enclosure.

7.0 Installation Time

FFBM	Machine Hrs.	System Hrs.	CE Hour	Nbr of CE
02L4064	01.0	00.0	1	1

8.0 Tools/Material Required

None.

	EC F12589A			
03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



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

This installation instructions gives the procedures to replace the MAE system card.

- This is one step in the migration of the MAE from FC 3000 to FC 3001.
 To have an overview of all the tasks and documentation to be used during the migration, Refer to Figure 1 on page 6.
- This is one step for some system card memory upgrade.

Attention -

- 1. The System Card is **not** hot pluggable.
- 2. Verify that the **MAE configuration**s have been **saved** before going thru.

Then go to 10.1, "Recording the IP Addresses" on page 7 to start the installation.



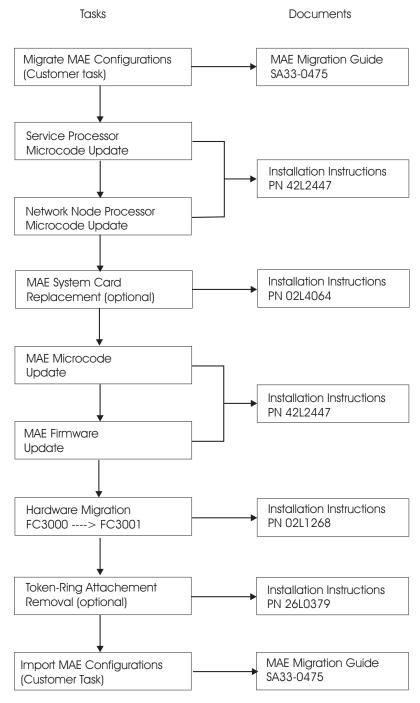


Figure 1. MAE FC 3000 to FC 3001 Migration Scenario

	EC F12589A			
03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



10.1 Recording the IP Addresses

- ___ 1. Double click on the Service Processor object icon.
- 2. Click on Configuration Management, then double click on SP customization.
- 3. Check Service LAN addresses, then click on Next>>.

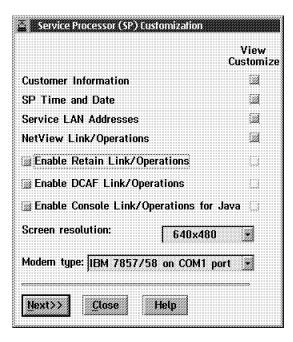


Figure 2. Service Processor Customization

4. Record the IP address of the Service Processor, MAE, Router (if any) and the Subnet mask.

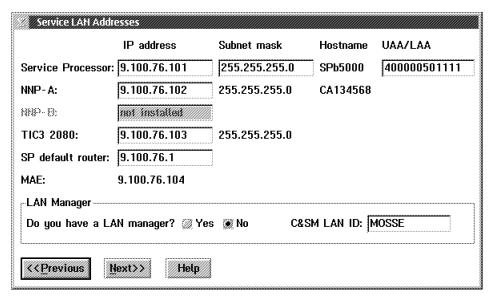


Figure 3. Service LAN addresses

3745	PN 02L4064
FBM	7 of 20

EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



__ 5. Then to exit from SP customization, click on **Previous**, **Close**, and **NO**.

PN 02L4064	EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
8 of 20	03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999

3745

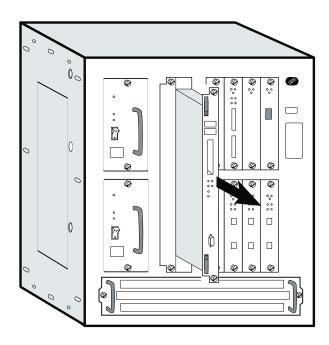


10.2 Removing the Old System Card

Attention

Electrostatic discharge (ESD) can damage the static-sensitive devices on circuit boards. To avoid this kind of damage, use the following precautions:

- Do not remove the DIMM until you are ready to insert it into the Multiaccess Enclosure.
- Use correct grounding techniques when inspecting and installing the DIMM. Use a foot strap or grounding mat, or wear a grounded static discharge wrist strap, or touch a grounded rack or other source of ground before you handle the DIMM.
- 1. Switch OFF each power supply.
- 2. Label the cables on the system card. Unplug the cables and the PCMCIA card.
- Loosen thumbscrews on the system card.
- 4. Remove the system card and lay it on a soft non-conductive surface.
- ___ 5. Unpack the new system card and lay it on a soft non-conductive surface.



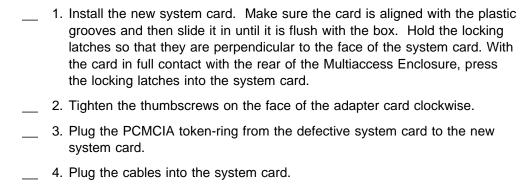
6. If you have replaced the system card for a memory upgrade, install the DIMM on the system card using the FFBM 25L9934 for 64 MB DIMM, then return here and continue the procedure with 10.3, "Installing the New System Card" on page 10.

3745	PN 02L4064
FBM	9 of 20

EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



10.3 Installing the New System Card





 Power ON and verify the LEDs (the OK green LED must be ON and the yellow LED corresponding to the slot where the PCMCIA card is plugged must be OFF).

The Multiaccess Enclosure has a number of light-emitting diodes (LEDs) that indicate how the unit is functioning.

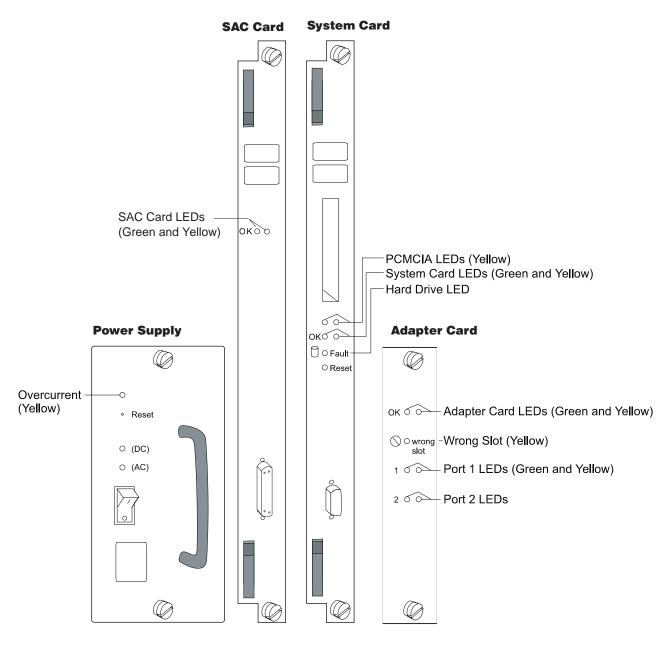


Figure 4. Power Supply, System Card, SAC card (if present), and Adapter Card LEDs

3745	PN 02L4064	EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
FBM	11 of 20	03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



Power Supply Status

LEDs	Meaning
Yellow (Overcurrent)	On - There is an overcurrent condition with the $-48~V$ to one or more of the adapters (slots 1–8) or the $+12~V$ to the fan tray.
Green DC	On - +5 V, +12 V, and -48 V are OK.
Green AC	On - AC source voltage is present and within tolerance.

System Card Status

LEDs	Meaning
PCMCIA 1 or PCMCIA 2 (Yellow)	On - PCMCIA device has a fault, is not installed, or is not seated correctly. Off - Device passed self-tests
OK (Green)	On - Card hardware is operating normally. Blinking - Loading from hard file
OK (Yellow)	On - Card hardware has a fault.
Fault Hard Drive (Yellow)	On - Hard drive has failed.

Adapter Card Status

LEDs	Meaning	
OK (Green)	On - Adapter is operating normally.	
OK (Yellow)	On - Adapter has a fault.	
Wrong slot	On - Adapter is in the wrong slot.	
(Yellow)	The wrong slot LED is ON only when an adapter that is plugged into the multiaccess enclosure violates the plugging rules.	
Green port (See note).	On - Port is operating normally (enabled and configured). Off - Port is not configured or is disabled.	
	For the ESCON adapter: Blinking - The optical power measurement test is running.	
Yellow port (See note).	On - One or more ports has a hardware fault. Blinking - One or more ports has a port I/O or network failure. Use the Maintenance Analysis Procedures (MAPs) to isolate. Off - No problem detected.	

Note: The port LEDs of the multiport WAN adapters (FC 3282, FC 3291, and FC 3292) reflect the status of one or more of the ports.

3745	PN 02L4064	EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
FBM	12 of 20	03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



SAC Card Status (If present)

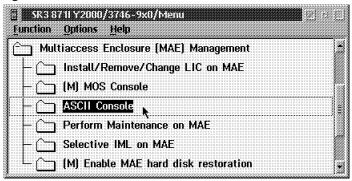
LEDs	Meaning
OK (Green)	On - Card hardware is operating normally Blinking - Loading from hard file
OK (Yellow)	MAE is not configuredQuick config is running on MAECard hardware has a fault

- 1					
	EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
	03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



10.4 Updating the Vital Product Data.

From the '3746-9x0 Menu', click on Multiaccess Enclosure (MAE) Management, then double click on ASCII console.



- 2. Press the **reset** on the front of the system card.
 - If **V:** prompt appears type **MFGMODE**This should return '00'. If set set to anything else ... type **MFGMODE**
 - **0**, then press again the reset button on the MAE system card and go to next step.
- __ 3. Several window are displayed during tests. Wait until the Boot Information window is displayed.
- ___ 4. Press **F1** when required (to prematurely terminate boot).

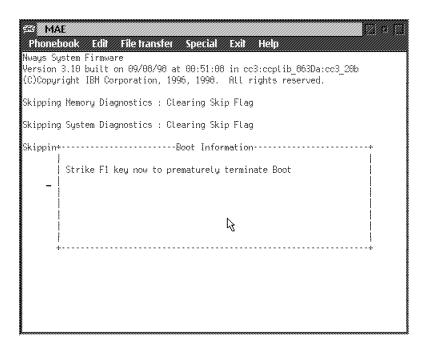


Figure 5. MAE

___ 5. On the System Management Services window, select option 4 - Utilities

	PN 02L4064
FBM	14 of 20

EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999

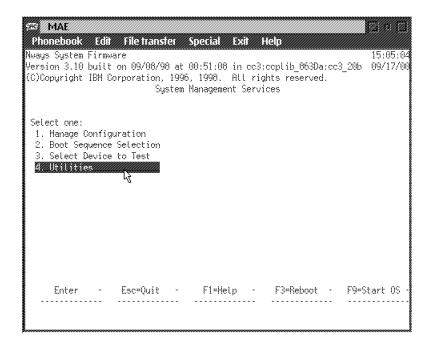


Figure 6. MAE

- ___ 6. Enter the Multiaccess Enclosure supervisory password when required: 2216.
- 7. On the System Management Utilitie window, select option 9 View or Set Vital Product Data

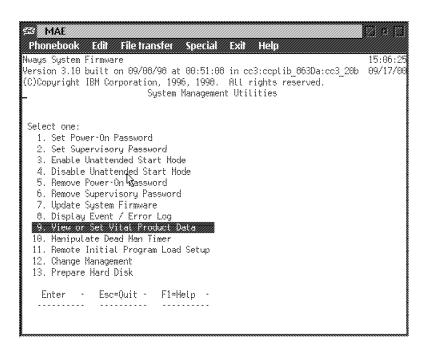


Figure 7. MAE

3745	PN 02L4064
FBM	15 of 20

EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



8. From 'View or Set Vital Product Data', select Hardware Vital Product Data

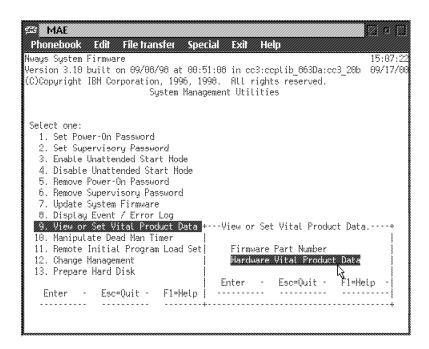


Figure 8. MAE

9. Select slot B, then press Enter

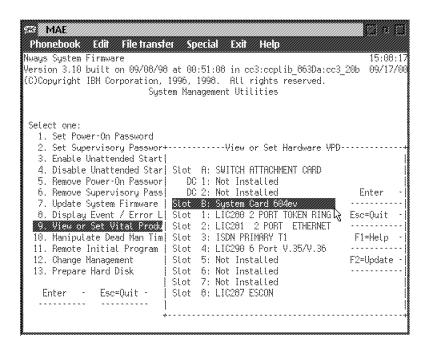


Figure 9. MAE

10. In the BS entry field, type in the MAE serial number, then press Enter

3745	PN 02L4064	EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
FBM	16 of 20	03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999

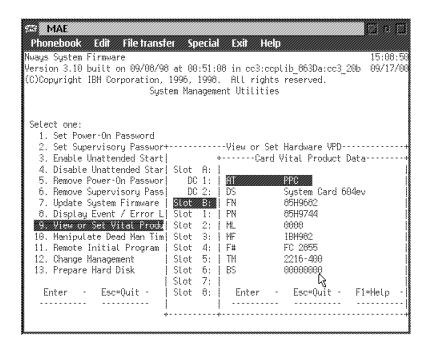


Figure 10. MAE

___ 11. Press ESC twice, then go to chapter 10.5, "Setting the IP Addresses"

10.5 Setting the IP Addresses

 Using the arrows keys, select (11) Remote Initial Program Load Setup and press Enter, (1) IP Parameters is selected, press Enter again.

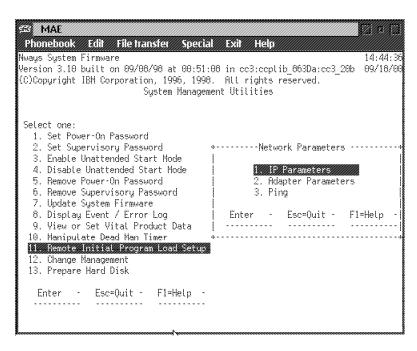


Figure 11. MAE

3745	PN 02L4064
FBM	17 of 20

EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



2. Refer to Figure 12 on page 18, and according to what you recorded in step 4 on page 7, enter the Client IP address (MAE address of the PCMCIA card), Server IP address (service processor address), Gateway IP address (if no router on the ring, enter the service processor IP address), the subnet mask, then press Enter.

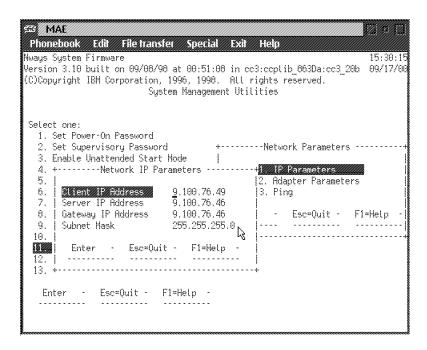


Figure 12. MAE

___ 3. Press the **Esc** key twice, press **F9** to start the OS, confirm by entering **Yes** then close the ASCII window.

11.0 Test Procedures

No test required.

12.0 Field Updating

None.

3745	PN 02L4064	EC F12589	EC F12589A	EC F52323	EC F52322	EC F64822
FBM	18 of 20	03 MAR 98	29 MAY 98	23 JUL 98	09 OCT 98	19 MAR 1999



After Installation (steps 13-15)

13.0 Publications Update

None.

14.0 Parts Disposition

Return the removed DIMM to the customer, and return the system card to local branch office for scrapping.

15.0 Machine Records

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

End of instructions.

IDM Installation Instructions