

## **Field Feature Bill of Material**

**PN 02L3497**

**Install Service Processor Type 7585 (FC 5052)  
on IBM 3745 Models 17A, 21A, 31A, 41A or 61A  
or  
IBM 3746 Model 950.**

Written by: F. Bartin  
Checked by: G. Abbes  
Approved by: A. Badino  
Reviewed by: B. Kelly



## Before Installation (Steps 1-8)

### 1.0 Machines Affected

- 3745 Models 17A, 21A, 31A, 41A or 61A, or
- 3746 Models 950.

*This feature should only be applied on the machine serial for which it is specified.*

### 2.0 Related BMs and ECs

None.

### 3.0 BMs to be Installed

- Service Processor:

FFB/M	Title
<b>02L3497</b>	Install Service Processor.

- Power Cords

One of the following FFBM providing 2 power cords based on the country rules.

FFB/M	Countries.
<b>43G3160</b>	610, 618, 624, 644, 662, 668, 699, 702, 704, 705, 706, 707, 708, 726, 724, 740, 742, 749, 762, 768, 773, 782, 785, 786, 788, 806, 820, 821, 822, 825, 826, 838, 842, 846, 850, 862, 865, 882.
<b>43G3161</b>	678.
<b>43G3162</b>	655, 758.
<b>43G3163</b>	848.
<b>43G3164</b>	620, 643, 666, 672, 677, 680, 725, 738, 744, 752, 764, 767, 769, 778, 780, 804, 805, 823, 833, 834, 851, 857, 866, 883.
<b>43G3165</b>	755, 756.
<b>43G3166</b>	615, 646, 652, 808, 864.
<b>43G3167</b>	619, 621, 627, 649, 661, 663, 681, 683, 731, 733, 735, 759, 770, 781, 791, 799, 811, 818, 829, 832, 843, 859, 871, 896.
<b>57G7451</b>	629, 815, 856.
<b>57G7452</b>	760, 766, 815.
<b>57G7453</b>	613, 631, 813, 869.
<b>57G7454</b>	616, 796.

- RSF modem.

Depending on the country homologation you will receive an Hayes Model 288, 336 or a IBM 7857 modem.

## 3.1 Additional FFB/M

- Rack Mount kit:

<b>FFB/M</b>	<b>Title</b>
<b>08J5494</b>	Service Processor Controller Expansion Mount Kit

- If the Service Processor is received as part of a 3745 Model conversion MES, you receive one of the following BMs:

<b>FFB/M</b>	<b>Title.</b>
<b>17G5441</b>	3745 conversion 210 to 21A.
<b>17G5445</b>	3745 conversion 410 to 41A
<b>17G5443</b>	3745 conversion 310 to 31A
<b>17G5448</b>	3745 conversion 610 to 61A
<b>17G5442</b>	3745 conversion 210 to 41A
<b>17G5451</b>	3745 conversion 310 to 61A
<b>17G5453</b>	3745 conversion 310 to 61A (16MB)
<b>17G5475</b>	3745 conversion 210 to 31A (4MB)
<b>17G5476</b>	" " (8MB)
<b>17G5477</b>	" " (16MB)
<b>17G5478</b>	3745 conversion 210 to 61A (4MB)
<b>17G5479</b>	" " (8MB)
<b>17G5480</b>	" " (16MB)
<b>17G5487</b>	3745 conversion 410 to 61A (4MB)
<b>17G5488</b>	" " (8MB)
<b>17G5489</b>	" " (16MB)
<b>57G7495</b>	3745 conversion 130/160/170 to 17A
<b>57G7496</b>	3745 conversion 150 to 17A
<b>57G7497</b>	3745 conversion 150 to 17A (US only)

## 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.
- The set up of the Service Processor has no impact on customer operations.

**Note:** The RSF link will be connected to the Service Processor instead of the 3745. Insure the RSF link is installed and working. If the Customer has not provided an RSF link, review or have marketing review for the 3745/3746-9X0 maintenance exposure with the customer.

## 5.0 Programming

None.

## 6.0 Purpose and Description

### 6.1 Purpose

To allow the operation of a 3745 Model XXA or 3746 Model 950.

### 6.2 Description

Install/replace a Service Processor.

## 7.0 Installation Time

FFBM	Machine Hrs.	System Hrs.	Nbr of CE
02L3497	01.0	00.0	1

Disruptif for customer operations.

## 8.0 Tools/Material Required

ESD kit (PN 6428316).

## Installation (Steps 9-12)

### 9.0 Safety

None.

### 10.0 Details of Installation

- If you are replacing an old Service Processor with a new one, go to step 10.2, "Replacing a Service Processor.."
- Otherwise, continue.

#### 10.1 Installing a Service Processor

1. Install the Service Processor according to the instructions in the *Service Processor Installation and Maintenance (SPIM)* (SY33-2115 or SY33-2120), provided in the shipping group of the Service Processor.  
**Note:** The connection to the 3745 will be performed during the Model conversion.
2. Go step "After Installation (Steps 13-15)" on page 20 .

#### 10.2 Replacing a Service Processor.

Licenced Code Media type? —

<b>Optical Disk</b>	Goto 10.2.1, "Saving the Service Processor Hard Disk on the Optical Disk." on page 7
<b>CD-ROM</b>	Goto 10.2.2, "Saving Configuration Parameters" on page 10

## 10.2.1 Saving the Service Processor Hard Disk on the Optical Disk.

### Shut-down and Power OFF the Service Processor:

- \_\_\_ 1. If the Service Processor is **operational**, use the following procedure:
  - \_\_\_ a. On the MOSS-E view window click on **Program**
  - \_\_\_ b. Click on **Shut down**, then enter the Service Processor maintenance password (default is IBM3745) and click on **OK**.  
You are now able to power OFF the Service Processor.
- \_\_\_ 2. Power **OFF** the Service Processor.
- \_\_\_ 3. Install the **Service Processor installation diskette 1 of the installed LIC** in the diskette drive.
- \_\_\_ 4. Power **ON** the Service Processor.

### Backup the HDD on the Optical Disk:

- \_\_\_ 5. Install the **backup** optical disk in the optical drive.
  - \_\_\_ 6. On the first screen displayed, press **Enter**
  - \_\_\_ 7. From the primary window select option **Save hard disk** and follow the prompts.
- Note:** Wait for the message: 'Operation successfully completed'.
- \_\_\_ 8. At the end, select **Exit** from the primary window and follow the prompts:
    - On prompt, remove the diskette from the drive,
    - Remove the **backup** optical disk from the optical drive.
    - Secure then for further use.

### 10.2.1.1 Installing MES Data Save Function.

- \_\_\_ 1. Insert the **Customer Data Migration diskette** (PN 02L3850) in the Service Processor diskette drive.
- \_\_\_ 2. Enter the Service Processor maintenance password (default is IBM3745).
- \_\_\_ 3. Double click on the "**Service Processor object icon**".
- \_\_\_ 4. Click on "**Change Management**".
- \_\_\_ 5. Double click on "**Manage Microcode Fixes**"
- \_\_\_ 6. On **Manage Microcode Fixes** window, click on "**View**" (On function bar).  
Then, click on "**Change directory path**" (On pull down menu)
- \_\_\_ 7. On **Change Directory Path** window, enter **A:\\*.\***. Then, click on "**OK**".
- \_\_\_ 8. On **Manage Microcode Fixes** window, click on the **fixes** to be applied.
- \_\_\_ 9. Click on "**File**" (On the function bar). Then, click on "**Move**" (On pull down menu).

- \_\_\_ 10. On the list displayed, according to the following table, click on the **MCF** to be applied:

Driver	LIC Level	Apply MCF
607	D2251X	MD22426.418
810	D2256X	MD22726.418
830	D4612X	MD22526.418
840	D4613X	MD22326.418

- \_\_\_ 11. On the **Move Microcode Fix files** window, enter **J:\MCF\**. Then, click on **"OK"**.

Enter the new path specification following the format {drive:\directory}:

J:\MCF\

OK Cancel Help

- \_\_\_ 12. On the **Change Directory Path** window, enter **J:\MCF\ALL**. Then, click on **"OK"**.

Enter the full path of path or directory to be displayed following the format {drive:\directory\filename.extension or \*}, or click on the OK push button for default directory:

J:\MCF\ALL

OK Cancel Help

- \_\_\_ 13. Remove the diskette disk from the drive.



14. On the **Manage Microcode Fixes** window, Click on the lines of the MCFs to be applied, click on **"Options"** (On function bar). Then, click on **Activate microcode fix** (On pull down menu).

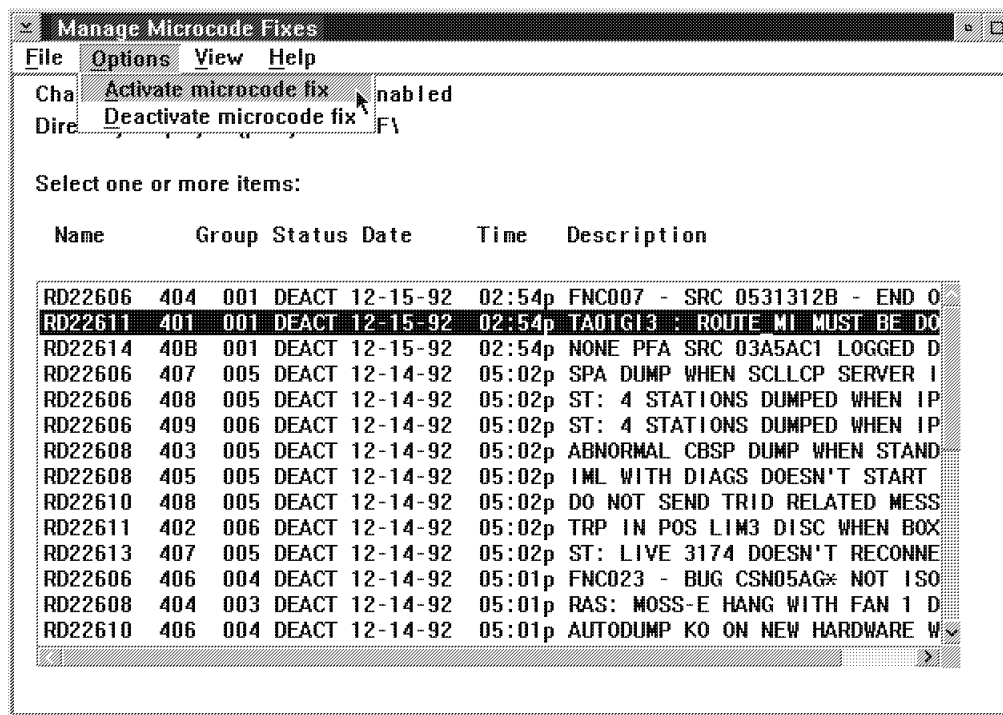


Figure 1. Manage Microcode Fixes screen example.

### 10.2.1.2 Verifying the MCF status.

1. Enter the Service Processor maintenance password
2. Double click on the **"Service Processor object icon"**.
3. Click on **"Change Management"**.
4. Double click on **"Manage Microcode Fixes"**
5. Click on **"View"**, click on **"Change directory path"**
6. Enter the **"directory path"**: J:\MCF\ALL. Then,click on **OK**.
7. Follow the prompts to reboot the processor.
8. The status of the MCF just applied should be **"ACT"**.

**MCF Status ACT?**

**NO**, Call Support..

**YES**, continue with next step.

9. Exit the **Change Management** functions,



### 10.2.1.3 Saving Customer Data on Diskette.

- \_\_\_ 1. On the **MOSS-E View** window, click on **Program**.
- \_\_\_ 2. Double click on **Log OFF MOSS-E**, then double click on **Log ON MOSS-E**.
- \_\_\_ 3. Insert the **backup** optical disk on the ODD.
- \_\_\_ 4. Double click on the "**Service Processor object icon**".
- \_\_\_ 5. Click on "**Functions to Use Under PE Guidance Only**".
- \_\_\_ 6. Double click on "**Save Customized data on diskette**".
- \_\_\_ 7. When prompted, insert the **Configuration Parameters diskette** (PN 02L3427) on the diskette drive.
- \_\_\_ 8. Click on "**OK**" follow the prompts and wait for completion..  
Go to 10.2.4, "Installing the new Service Processor"

### 10.2.2 Saving Configuration Parameters

- \_\_\_ 1. Double click on the **Service Processor** icon.
- \_\_\_ 2. Click on **Operation Management**.
- \_\_\_ 3. Double click on **Manage Disks and Databases**.
- \_\_\_ 4. Use the radio button to select **Save databases on diskette** configuration parameters. When prompted, insert **Configuration Parameters diskette** (PN 02L3427) on the diskette drive.
- \_\_\_ 5. Click on **OK** and wait for completion. If error, note message and contact support.
- \_\_\_ 6. Click on **Cancel** to exit from the function.

### 10.2.3 Power OFF the Service Processor

- \_\_\_ 1. On the **MOSS-E View** window, click on **Program**.
- \_\_\_ 2. Double click on **shut-down**, then enter the maintenance password, and click on **OK**.
- \_\_\_ 3. When the pop-up appears saying shut down has completed, power OFF the Service Processor.

### 10.2.4 Installing the new Service Processor

- \_\_\_ 1. Disconnect and remove the (old) Service Processor
- \_\_\_ 2. Install the (new) Service Processor according to the instructions in the Chapter 1 of the *Service Processor Installation and Maintenance (Based*

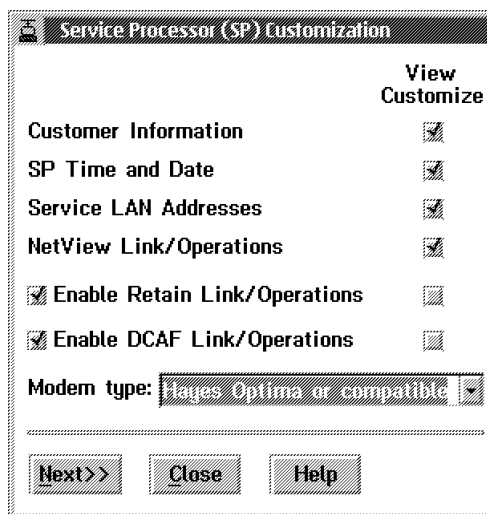
on 7585, 3172, and 9585), SY33-2120 provided in the shipping group of the Service Processor.

## 10.2.5 LIC Installation

- \_\_\_ 1. Insert the **Service Processor installation diskette 1 (PN 02L3536)** in the diskette drive, then
- \_\_\_ 2. Insert the **CD-ROM** in the CD ROM drive.
- \_\_\_ 3. Power **ON** the Service Processor.
- \_\_\_ 4. Wait for a while ... several messages will appear: Build hardisk, reboot, format ...
- \_\_\_ 5. When prompted, Insert the **Configuration Parameters diskette (PN 02L3427)** in the diskette drive.
- \_\_\_ 6. Wait for a while, when prompted insert the **Service Processor installation diskette 1 (PN 02L3536)** in the diskette drive.
- \_\_\_ 7. Wait until message Update Licensed Internal Code, Operation Successfully Completed; then, press the **Enter** key..
- \_\_\_ 8. When prompted remove the diskette from the diskette drive. Then, press **Enter** key.
- \_\_\_ 9. The system re-boot, wait for a while ...  
Click on **OK** button when the message '**Do you want to customize your SP**' is displayed.

On the **Service Processor (SP) Customization** screen:

- \_\_\_ 10. Click on every **View Customize** check boxes.
- \_\_\_ 11. Click on **Modem type** drop down list, then select (click on) the modem and connection type of the modem used. Then, click on **Next>>** button.



On the **Customer Information Customization** screen:

- \_\_\_ 12. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

On the **SP Time and Date Customization** screen:

- \_\_\_ 13. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

On the **Service LAN Addresses** screen:

- \_\_\_ 14. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

	IP address	Subnet mask	Hostname	UAA/LAA
Service Processor:	9.100.76.46	255.255.255.0	SP23456	400000301111
MNP-A:	9.100.76.47	255.255.255.0	CA134568	
MNP-B:	not installed			
TIC3 2080:	9.100.76.48	255.255.255.0		
SP default router:	9.100.76.1			
MAE:	9.100.76.49	255.255.255.0	DA134568	

LAN Manager

Do you have a LAN manager? ☐ Yes ☒ No C&SM LAN ID: MOSSE

<<Previous    Next>>    Help

On the **Netview Link(s)/Reporting Customization** screen:

- \_\_\_ 15. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

**NetView Link(s)/Reporting Customization**

☒ **Generate alerts**

**NetView Link(s)**

Link(s) through? ☐ SNA ☒ APPN

How many? ☐ 1 ☒ 2

Link type? ☒ LAN ☐ SDLC

---

**Machine Identification**

Machine type Model Serial number

3745 17A XX - XXXXX

---

**Local Node Characteristics**

Network ID Local node name

SYSTSTAP . MOSSNMVT

---

**LAN Link**

TIC2 or TIC3 LAA: 400000502080 hex

TIC3 RSAP: 08 hexadecimal [04-9C]

Customize 3270 sessions? ☒ Yes ☐ No

---

**Switched SDLC Link Telephone Number**

0143457280

<<Previous Next>> Help

On the **Token-Ring 3270 Session Customization** screen:

- \_\_\_ 16. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

**Token-Ring 3270 Session Customization**

Host code page: 297 France

LU local/NAU address: 3 numerical [1-255]

Long session/LU name: B

Number of sessions: 1 numerical [1-4]

<<Previous Next>> Help

On the **Retain Customization** screen:

- \_\_\_ 17. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

Retain Customization

☒ Enable Remote Support Facility (RSF)  
☒ Enable weekly automatic microcode download

IBM RETAIN (DL2) telephone numbers

Mandatory first number:   
Optional second number:   
Optional third number:   
Optional fourth number:   
IBM service telephone number by voice communication (optional)

<<Previous

Next>>

Help

On the **DCAF Customization** screen:

- \_\_\_ 18. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

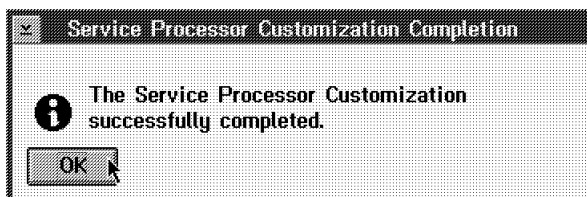
On **SP Customization Message** screen:

- \_\_\_ 19. Click on **Yes** button, to validate your customization, or  
Click on **Cancel** button, to return to **Service Processor (SP) Customization** screen (Page 11)).

- \_\_\_ 20. The Service Processor customization start, follow the progress on the following screen. wait until completion.



- \_\_\_ 21. Wait until completion. Then, click on **OK** button.



- \_\_\_ 22. If necessary, the Service Processor will reboot automatically.

**Note:** If an error occurs, note the displayed message and press **Enter**. Keep the diskette available for investigation (log files: EULHIERR.LOG, OUT\_BAK.1 and OUT\_BAK.2), stored on diskette and hard disk for PE.

## 10.2.6 Upgrading the NNP(s) on 3746-9x0.

**Do you have any NNP attached to the Service Processor?**

- If **No**, go to 10.2.7, "Applying the Latest MCFs Received." on page 18
- If **Yes**, continue with next step.

- \_\_\_ 1. On the **MOSS-E View** screen, double click on the **3746-9x0** icon.
- \_\_\_ 2. On the **3746-9x0 Menu** screen, click on **Network Node Processor (NNP) Management**.
- \_\_\_ 3. Double click on **Install/Remove/Change/Restore LIC/NNP**.
- \_\_\_ 4. Click on **NNP-A**, then click on **Restore LIC on NNP**.
- \_\_\_ 5. When requested, insert the **Network Node Processor installation diskette (PN 02L3537)** and follow the prompts until **Operation successfully completed** (Up to 45')
- \_\_\_ 6. Click on **Close**.
- \_\_\_ 7. **If installed, repeat on the above procedure on NNP-B**; then, continue with next step.

## 10.2.7 Applying the Latest MCFs Received.

### Very Important

Did you received from your Support Center any MCFs to be installed on the new LIC?

**YES** Apply the MCFs received according to procedure '**Handling the Micro-code Fixes on the Licenced Internal Code**' listed in the *Service Processor Installation and Maintenance (Based on 7585, 3172, and 9585)*, SY33-2120

**No** Go to next step.

## 10.2.8 3746-9x0 Code Level Upgrade.

This procedure should be applied to each 3746-9x0 linked to the Service Processor just installed.

- \_\_\_ 1. Ask the Customer for a maintenance window on the 3746-9x0 with traffic deactivated.
- \_\_\_ 2. Perform a general IML on the 3746-9x0

### 10.2.8.1 3746-9x0 EEPROM Upgrade.

- \_\_\_ 1. Click on **3746-9x0 Menu**.
- \_\_\_ 2. Click on **Change Management**.
- \_\_\_ 3. Double click on **Upgrade/Downgrade EEPROM**.
- \_\_\_ 4. The **Upgrade Status** area will show the processors to be changed in reverse video.
- \_\_\_ 5. Click on **OK** to start the upgrade function.  
Wait (up to 10 minutes) until the Upgrade Status is completed for each processor.
- \_\_\_ 6. Click on **Cancel** to leave the function.

### 10.2.8.2 Saving Configuration Parameters

- \_\_\_ 1. Double click on the **Service Processor** icon.
- \_\_\_ 2. Click on **Operation Management**.
- \_\_\_ 3. Double click on **Manage Disks and Databases**.

- \_\_\_ 4. Use the radio button to select **Save databases on diskette** to save the configuration parameters. When prompted, insert **Configuration Parameters diskette** (PN 02L3427) on the diskette drive.
- \_\_\_ 5. Click on **OK** and wait for completion. If error, note message and contact support.
- \_\_\_ 6. Click on **Cancel** to exit from the function.

### 10.2.8.3 Updating Installation Parameters Diskettes

- \_\_\_ 1. On the **Service Processor** menu, click on **Configuration Management**, click on **Manage 3745/3746 Installation/Removal**.
- \_\_\_ 2. On the **Controller Installation** menu, Click on the **3746-9x0** installed, then Click on **SAVE**.

Following pop up window confirming **Saving Active CDF-E as Reference**:

- \_\_\_ 3. Insert the **3746-900 installation parameters diskette (PN 17G5878)** of the 3746-9x0, then click on **OK**.
- \_\_\_ 4. On the third pop up screen confirming CDF-E saved to diskette, remove diskette as instructed, click on **OK**.
- \_\_\_ 5. Perform the above saving procedure for the backup diskettes, then click on **Cancel**.

## 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.**