

### PN 43P1354

### INSTALLATION of Microcode Level D39894E in IBM 3745 Models 21A/31A/41A/61A OR INSTALLATION of Microcode Level D40002A in IBM 3745 Model 17A

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3745 PN 43P1354 EC H60006 15OCT02

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1



3745 PN 43P1354 FFBM 2 of 12 EC H60006 15OCT02



# **Before Installation (1-8)**

### 1.0 Machines Affected

3745 Models 21A/31A/41A/61A 3745 Model 17A

### 2.0 Related BMs and ECs

None.

# 3.0 BM(s) to Be Installed

Description Microcode	FRU BM	
X1A	43P1337	
17A	43P1338	

## 4.0 Preparation

- Familiarize yourself with the purpose and details of these installation instructions before to obtain the customer machine time commitment.
- 2. Check all the items and count the parts listed on the B/M to be installed to determine whether all parts were received.
- 3. Ensure that a current set of backup diskettes have been created by saving hard disk onto diskettes before to powering OFF the 3745. They will be used to restore the HDD if the installation of the new microcode fails.

# 5.0 Programming

None.

## 6.0 Purpose and Description

3745	PN 43P1354	EC H60006		
FFBM	3 of 12	15OCT02		



## 6.1 Purpose

To install the 3745-X1A or 17A MOSS microcode.

# 6.2 Description

Install microcode at level D39894E (X1A) or D40002A (17A) and latest MCLs.

## 7.0 Installation Time

В/М	Machine Hrs	System Hrs	Nbr of CE
43P1337 (X1A)	0.7	0.0	
43P1338 (17A)	0.7	0.0	

# 8.0 Tools/Materials Required

None.

EC H60006		
15OCT02		



# **Installation (Steps 9-11)**

# 9.0 Safety

1

PN 43P1354

5 of 12

FFBM

EC H60006

15OCT02

The microcode installation will be performed with the machine powered ON.

- Review the **Safety Notices** located at the beginning of the *3745 Maintenance* Information Procedure (MIP), SY33-2070.
- Review the Safety Inspection Procedures located at the beginning of the 3745 Maintenance Information Procedure (MIP), SY33-2070.

### 1

0.0	Details	s of Installation
		Before the installation, ask the customer:
		<ul> <li>To set all lines and channel addresses offline for the 3745.</li> </ul>
		<ul> <li>To log off the console, if not already done.</li> </ul>
		• The maintenance password.
0.1	Checkin	g, Diagnostics, Power OFF
		From the Local Console
		1. From the CA INTERFACE DISPLAY screen, record the Enabled channel adapters, then Disable all channel adapters.
		2. Wait for interface status <b>Disabled</b> for all CAs.
		From the Control Panel
		3. Check that the <b>Power control</b> indicator displays <b>3</b> .
		4. If it does not, record the value, then press the Power Control key unti 3 is displayed. Press the Validate key.
		5. Press the <b>Power OFF</b> key.
0.2	IML fron	n the Diskette
		Take the two sets of diskettes shipped with this FB/M. If not already done, label one set <b>NORMAL</b> and one set <b>BACKUP</b> .
		1. Insert the new <b>NORMAL PRIMARY</b> diskette into the 3745 diskette drive.
		2. From the control panel, check that <b>Service Mode</b> indicator displays <b>1</b> .
		3. If it does not, press the Service Mode key until 1 is displayed. Press the Validate key.



	<ol> <li>Set the Function indicator to 9 (Load from diskette).</li> <li>Press the Validate key.</li> </ol>
{	5. Press the <b>Power ON Reset</b> key.
The	MOSS IML will be complete with <b>F0E</b> or <b>FE9</b> displayed on panel.
10.3 Microcode I	nstallation
10.3.1 MOSS/MOSS	-E Connection
	<ol> <li>On the MOSS-E View window, double-click the icon (PURPLE) of the identified 3745.</li> </ol>
_ 2	<ol><li>Double-click MOSS Console. The Function Selection Rules screen appears.</li></ol>
10.3.2 Microcode E	C Installation  I. Select EC Microcode Installation, then type 1 and press Enter.
	2. Use the <b>NORMAL</b> set of diskettes, and follow the prompts on the console until the function is completed.
	Notes:
	a. Use only one set of diskettes (NORMAL) for this installation. The same set must be used for the checking pass and for the pass that installs on the hard disk. Use of a different set can lead to lost CDF data.
	b. You will receive the following messages during the reading of the PRIMARY diskette:
	<ul> <li>Increasing in disk size (up to 80MB)</li> </ul>
	Please wait several minutes.
	<ul> <li>Read checking in progress. Please wait several minutes.</li> </ul>
	<ul> <li>Copy load module in progress will appear if NCP load modules are on the hard disk.</li> </ul>
	(The Alternate Track Assignment screen will now appear.)
	Press <b>F6</b> to continue with the EC installation. Follow the prompts on the SP screen.
	If the microcode installation fails on 'diskette checking,' try again with the BACKUP diskettes. If the installation fails during 'diskette loading,' see the <i>Service Function</i> manual, Chapter 11, "Hard Disk Trouble Analysis and Replacement", Procedure 1.
_	<ol> <li>When the message EC XXXXX correctly installed appears, remove the sixth diskette from the diskette drive.</li> </ol>

3745 FFBM PN 43P1354 6 of 12 EC H60006 15OCT02



#### 10.3.3 MOSS IML

From the control panel:

\_\_\_\_ 1. Press the Power Off key.
\_\_\_\_ 2. Set the Function indicator to 1, and press the Validate key.
\_\_\_\_ 3. Set the Service Mode indicator to 2, and press the Validate key.

4. Press the **Power ON Reset** key.

- The MOSS IML is completed when F0E appears on the control panel.
- If another code appears, see the *MIP*, Chapter 2, and follow the appropriate procedure.

#### 10.3.4 MOSS/MOSS-E Connection

- 1. On the MOSS-E View window, double-click the icon of the identified 3745.
- Double-click MOSS Console.

Wait for the Function Selection Rules screen to appear.

# 10.3.5 Applying the Latest MCLs Received on a 3745 X1A Notes:

- 1. If RSF is available, perform the RSF link. Download and install the latest MCLs.
- 2. If RSF is not available, perform the following procedure.

#### - Note ----

The process to apply MCLs on a 3745 is divided into four steps:

#### On the MOSS-E console:

Step 1. Retrieve the MCLs received from the diskette or from RETAIN.

Step 2. Read the information recorded in the cover letters.

Step 3. Copy the MCLs from the MOSS-E hard disk to the MOSS hard disk.

Step 4. Apply the MCLs.

#### Step 1. Retrieving the MCLs

**Note:** During this process, the MCLs are unpacked and copied on the MOSS-E hard disk.

- a. From the Change Microcode window, select the option Retrieve microcode changes.
- b. Select Retrieve from diskette or Retrieve from RETAIN, and click OK.

3745	PN 43P1354	EC H60006		
FFBM	7 of 12	15OCT02		



	c. If you are retrieving from a diskette, insert the MCL diskette when requested.
	d. Select the MCLs that you want to retrieve (all or specific ones), and click <b>OK</b> .
	<ul> <li>e. Confirm your choice, click <b>OK</b>, and wait for the retrieval to complete.</li> </ul>
Step	2. Reading the Cover Letter Information
	a. If not already logged, enter the SP maintenance password (the default is IBM3745).
	b. Double-click the <b>SP object</b> icon.
	c. Click Change Management.
	d. Double-click Manage Microcode Changes.
	e. Select <b>Display Cover Letter Information</b> , then click <b>OK</b> .
	f. Read the information to determine if there is any prerequisite or corequisite needed before you apply these MCLs.
Step	3. Copying the MCLs on the MOSS Hard Disk Drive
	From the Service Processor:
	a. Double-click the <b>3745 Object</b> icon.
	b. Double-click MOSS Console.
	c. In the Moss primary window, type <b>MCF</b> , then press <b>Enter</b> .
	d. Select <b>Option 2</b> to copy the MCL file. Press <b>F6</b> to quit.
Step	4. Applying the MCLs on the 3745 X1A
	a. From the MCF selection screen, select <b>Option 1</b> , and press <b>Enter</b> .
	<ul> <li>b. From the MCF management screen, select <b>Option 2</b>, and press</li> <li><b>Enter</b>. The progress of the MCF upgrade appears.</li> </ul>
	If the MCL file is empty, the message "NO NEW MCF IN FILE" or "CODE ALREADY UPGRADED" appears.
	c. When the upgrade is completed, press Enter.
	d. On the control panel, set the Service Mode indicator to 2, and press the Validate key. Then, set the Function indicator to 1, and press the Validate key.
	A MOSS IML starts. Wait for the code <b>F0E/F0F</b> .

3745	PN 43P1354	EC H60006		
FFBM	8 of 12	15OCT02		



# 11.0 Test Procedures

11.1	Close I	MOSS/MOSS-E Session
		1. Wait until the 3745 Icon is purple, then on the <b>3745 Menu</b> , double click on <b>MOSS Console</b> .
		Wait for the Function Selection Rules screen.
		2. Enter CID, and then press Enter.
		3. Re-enable the channel adapters disabled in Step 10.1, "Checking, Diag-
		nostics, Power OFF" on page 5.
		<ul><li>4. When all CAs are enabled, press F1.</li><li>5. Enter OFF, and then press Enter.</li></ul>
		6. On the <b>3745 Menu</b> window, click on <b>Function</b> , and then on <b>Exit</b> .
		The session between the MOSS and the Service Processor is closed.
11.2	Genera	II IPL
		From the 3745 control panel:
		1. Set the Power control indicator to its original value recorded in Step 10.1.1.
		2. Set the Service Mode indicator to 0. Press the Validate key.
		3. Set the <b>Function</b> indicator to <b>0</b> .  Press the <b>Validate</b> key.
		The general IPL starts.
		• If FF4 code is displayed on the control panel, ask the customer to load the
		<ul> <li>control program.</li> <li>If the control program is loaded from the hard disk, 000 will be displayed wher IPL successful.</li> </ul>
		<b>Note:</b> The control program can fail if a mismatch exists between the control program and the hardware configuration.
11.3	Disk Sa	ave
		When the customer network is restarted, save the contents of the hard disk on the <b>BACKUP</b> set of diskettes.
11.3.	1 Open N	MOSS/MOSS-E Session From the service processor:
		1. On the <b>MOSS-E View</b> window, double click on the <b>ICON</b> of the 3745 you have just installed.
		2. On the <b>3745 Menu</b> displayed, double click on <b>MOSS Console</b> .
3745	PN 43P1354	EC H60006
FFBM	9 of 12	15OCT02



Wait for Function Selection Rules screen.

11.3.	2 Save D	isk Contents onto Diskettes  1. If NCP is restarted and MOSS ONLINE, set the MOSS OFFLINE, enter MOF, press Enter.
		Note: If Model 61A, select the CCU first.
		2. Select <b>DIF</b> , press <b>Enter</b> .
		3. Select <b>2</b> .
		4. Enter the save-ID and press <b>Enter</b> .
		5. Follow prompts on console.
		6. When function complete, press <b>F1</b> .
11.4	Close	MOSS/MOSS-E Session  1. Enter OFF, press Enter.  2. On the 3745 Menu window, click on Function. Then, click on Exit.  The MOSS-E View window is displayed.
11.5	Loggin	g OFF from SP  1. On MOSS-E View window, click on Program.  2. Click on LOG OFF MOSS-E.
3745 FFBM	PN 43P1354 10 of 12	EC H60006 15OCT02

# After Installation (12-15)

# 12.0 Field Updating

None.

# 13.0 Publications Update

None.

# 14.0 Parts Disposition

None.

### 15.0 Machine Records

None.

End of instructions.



3745 PN 43P1354 EC H60006 FFBM 12 of 12 15OCT02