

Field Feature Bill of Material (FFBM)

PN 05F2609

INSTALLATION of a Storage Increment 8MB (FC 7101)

in IBM 3745 Models 130/150/160/170/17A

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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

3745 Models 130/150/160/170/17A.

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)

- SCTL8 PN 63F2228 or SCTD PN 51H5194
Checkpoint: Ckeck PNs of the cards plugged in the 3745.
- 72MB HDD must be installed
Checkpoint: Check in Machine History for EC A97883, A97906 or A98113.
- Microcode - Level A38006.
Checkpoint: Microcode Installed in 3745.
- Documentation - Level A97882.
Checkpoint: YZ Pages.

2.2 Concurrent

(Must be installed together)
None.

2.3 Companion

(May be installed separately)
None.

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3.0 FFBM to be Installed

- 05F2609 - 8MB storage extension installation

As required FFB/M(s):

- 80G5121 - Install Microcode Level C38006.
- 80G5127 - Install Documentation Level A97882.

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.

5.0 Programming

5.1 Diagnostic Programs

To reflect this change, the CDF will be upgraded in step 11.0. This is essential to allow diagnostics to be run properly.

5.2 System Programs

The customer must update the control program (Re-gen NCP) to implement this change.

6.0 Purpose and Description

6.1 Purpose

Install 8MB CCU memory size (FC 7101).

6.2 Description

8MB storage card installation.

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7.0 Installation Time

To be reported as MES.

FFB/M	Machine Hrs	System Hrs	
05F2609	1.4	0.0	1

8.0 Tools/Materials Required

ESD kit (PN 6428316).

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Installation (steps 9-11)

9.0 Safety

- This installation must be performed offline.
- Review the **Safety Notices** and the **Safety Inspection Procedures** located at the beginning of the *3745 Maintenance Information Procedures (MIP)* manual (SY33-2070).

10.0 Details of Installation

Before the installation, ask the customer:

- • To set all the lines and channel addresses offline for this controller.
- • To deactivate all resources of the 3746 Model 900, if attached.
- • For the maintenance password.
- • To logoff the console (3745-1X0) or the Service Processor (SP) (3745-17A), if not already done.

10.1 Checking, Diagnostics, Power ON

10.1.1 Checking

10.1.1.1 From the 3745 Control Panel

- 1. Check that **Power Control** displays 3.
- 2. If it does not, record the value ____.
- Set the **Power Control** value to 3.
- Press the **Validate** key.

- If you are installing this feature in a Model 17A, go to Step 10.1.1.3, "From the Service Processor" on page 7.
- Otherwise, continue.

10.1.1.2 From the 3745-1X0 Console

- 1. From the **CA INTERFACE DISPLAY** screen, record **Enabled channel adapters**. Then, **disable** all channel adapters.
- 2. Wait for **Interface Status Disabled** for all CAs. Press **F4**.
- 3. Enter the maintenance password, press **Send**.
- 4. If the CCU is running, enter **RST** to reset the CCU.
- The MOSS goes in **MOSS ALONE** state.

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- Go to Step 10.1.1.4, “Display the CDF” on page 7.

10.1.1.3 From the Service Processor

- ___ 1. On the **MOSS-E View** window, click on **Program**.
- ___ 2. Click on **LOG ON MOSS-E**.
- ___ 3. Enter the maintenance password, press **Enter**.
- ___ 4. On the **MOSS-E View** window, double click on the icon of the identified 3745.
- ___ 5. On the **3745 Menu** window, double click on **MOSS Console**.
- ___ 6. When **MOSS Console** screen is displayed, enter **CID**, press **Enter**.
- ___ 7. From the **CA INTERF DISPLAY** screen, record **Enabled channel adapters**. Then, **disable** all channel adapters.
- ___ 8. When all CAs are **DISABLED**, press **F1**.
- ___ 9. If CCU running, enter **RST** to reset the CCU. The MOSS goes in **MOSS ALONE** state.

10.1.1.4 Display the CDF

Note: From this point, the **Send** key is used only for a local console. For a Service Processor, press the **Enter** key.

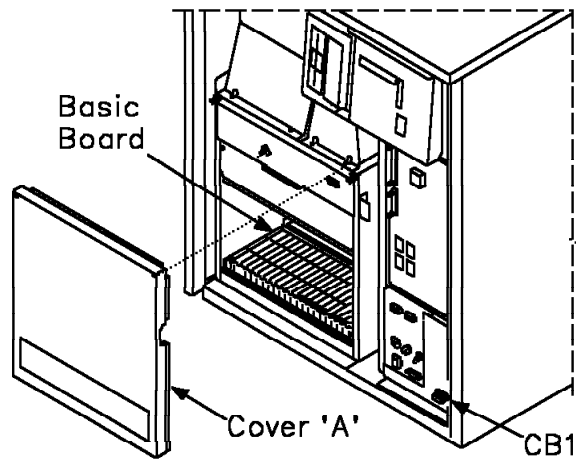
- ___ 1. Enter **CDF**, press **Send/Enter**.
- ___ 2. Enter **1** (DISPLAY/UPDATE), press **Send/Enter**.
- ___ 3. Enter **4** (CCU), press **Send/Enter**.
Check that CCU storage size is 4MB for CCUA and/or CCUB.
Press **F1**.

10.1.2 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **2** (CCU).
- ___ 3. Press **Send/Enter**.
 - If **NO ERROR FOUND** displayed, press **F1**.
 - Otherwise, see the *MIP*, Chapter 1.

10.1.3 Power OFF

- ___ 1. From the control panel, press the **Power OFF** key.
- ___ 2. Open the front system cover and switch OFF **CB1**.

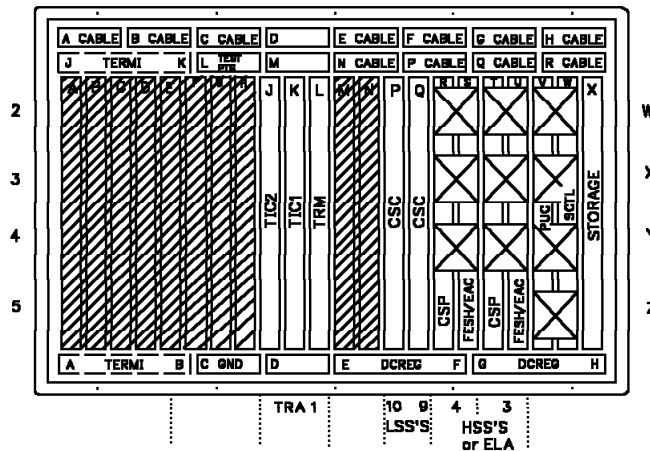


Front View

10.2 Hardware Installation

Warning: Follow the existing ESD procedures when handling logic parts.

10.2.1 Memory Upgrade



- ___ 1. Remove the Cover 'A' (two screws), and save for reinstallation.
- ___ 2. Remove the STO card from the position X2.
- ___ 3. Check that the holder is installed on the card provided by the FFBM.
- ___ 4. Plug the STO card in the position X2.
- ___ 5. Put the removed card in the packing box received with the new card.
- ___ 6. Reinstall the Cover 'A' (two screws).

10.3 Power ON

Switch **CB1** ON, and close the cover.

10.3.1 From the 3745 Control Panel

- ___ 1. set the **Function** indicator to **1**.
Press the **Validate** key.
- ___ 2. Press the **Power ON Reset** key.

The MOSS IML is completed when **F0E** is displayed on the 3745 control panel.

11.0 Test Procedures

- If you have installed this feature in a Model 17A, go to Step 11.1.2, "From the Service Processor."
- Otherwise, continue.

11.1.1 From the 3745-1X0 Console

- ___ 1. When the **CA INTERFACE DISPLAY** screen is displayed, press **F4**.
- ___ 2. Enter the maintenance password, press **Send**.

- Go to Step 12.1, "Update the CDF."

11.1.2 From the Service Processor

- ___ 1. Double click on the 3745 icon when it becomes PURPLE.
- ___ 2. On the **3745 Menu** window, double click on **MOSS console**.

Wait for **Function Selection Rules** screen.

12.0 Test Procedures

12.1 Update the CDF

- ___ 1. Enter **CDF**, press **Send/Enter**.
- ___ 2. Enter **4** (VERIFY), press **Send/Enter**.
The values from the **CDF DATA** and the **MACHINE DATA** should be identical, except for the memory you have just increased.
- ___ 3. To update the CDF with machine values, enter **2**, press **Send/Enter**.

- If **CDF VERIFY COMPLETED** is displayed, press **F6**.
- Otherwise, see the *MIP*, Chapter 1.

12.2 Display the CDF

- ___ 1. Enter **CDF**, press **Send/Enter**.
- ___ 2. Enter **1** (DISPLAY/UPDATE), press **Send/Enter**.
- ___ 3. Enter **4** (CCU), press **Send/Enter**.
The CCU memory size should be 8MB.
- ___ 4. press **F1**.

12.3 Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **2** (CCU), press **Send/Enter**.
 - If **NO ERROR FOUND** displayed, press **F1**.
 - Otherwise, see the *MIP*, Chapter 1.

12.4 Save Hard Disk Contents Onto the Backup set of Diskettes

- ___ 1. Enter **DIF**, press **Send/Enter**.
- ___ 2. Enter **2**. Enter the date and save-ID, press **Send/Enter**.
Follow the prompts on the console.
- ___ 3. When function is completed, press **F1**.

- If you have installed the feature in a Model 17A, go to step 12.6, "From the Service Processor" on page 11.
- Otherwise, continue.

12.5 From the 3745-1X0 Console

Re-enable the channel adapters disabled in Step 10.1.1.2, "From the 3745-1X0 Console" on page 6.

- Go to Step 12.7, "General IPL" on page 11.

12.6 From the Service Processor

- ___ 1. On the **3745 Menu** window, double click on **MOSS Console**,
- ___ 2. Enter **CID**, press **Enter**.
- ___ 3. Enable the channel adapter recorded in Step 10.1.1.3, "From the Service Processor" on page 7.
Wait until all channels are **E** in the E/D REQUEST column.
Press **F1**.
- ___ 4. Enter **OFF**, press **Enter**.
- ___ 5. On the **3745 Menu** window, click on **Function**. Then, click on **Exit**.
- ___ 6. On the **MOSS-E View** window, click on **Program**.
- ___ 7. Click on **LOG OFF MOSS-E**.

12.7 General IPL

From the 3745 Control Panel:

- ___ 1. Set the **Power Control** indicator to its original value recorded in Step 10.1.1.1, "From the 3745 Control Panel" on page 6.
- ___ 2. Set the **Function** indicator value to **0** (general IPL).
Press the **Validate** key.

The general IPL starts.

- If **FF4** is displayed on the control panel, ask the customer to load the control program.
- If the control program is loaded from the hard disk, **000** will be displayed when **IPL** is successful.

Note: The control program load can fail if a mismatch exists between the control program and the hardware configuration.

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After Installation (steps 12-15)

13.0 Field Updating

None.

14.0 Publications Update

None.

15.0 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.

16.0 Machine Records

- Install the new **MACHINE HISTORY** supplied.
- Report installation (As MES activity) and quality to existing procedures.

End of instructions.