

Field Feature Bill of Material (FFBM) PN 05F2624 INSTALLATION of a 16MB Memory (FC 7200)

Written by: JP. Aubin
Checked by: G. Housieaux
Approved by: F. Charron
Reviewed by: J. Pasley

on IBM 3745 Models 31A or 61A

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Before Installation (1-8)

All parts removed from the 3745 are IBM property and must be returned to IBM.

1.0 Machines Affected

3745 Models 31A/61A.

2.0 Related BMs and ECs

None.

3.0 BMs to be Installed

Note: Review each numbered item in this section to determine your needs. 2 FFBMs must be received for a Model 61A.

FFBM - 05F2623 - 16MB Memory size.
(Existing CCU houses 4MB)
FFBM - 43G3183 - 16MB Memory size.

(Existing CCU houses 8MB)

(RPQ 7L1228 in WT)

05F2724 - Installation Instructions

4.0 Preparation

- 1. Familiarize yourself with the purpose and details of these installation instructions.
- 2. Check all the items and count parts listed on the BM(s) to be installed to determine whether all parts were received.
- 3. Additional Information.
- In 3745 Model 61A, the memory size must be equal in both CCUs. You must upgrade CCU-A and CCU-B at the same time.
- The SCTL3 card provided in this FFBM replaces the existing SCTL2 and the STO card(s) of a CCU.
- Based on your configuration (4 or 8MB per CCU), you will remove ONE SCTL2 plus ONE or TWO STO cards from each CCU.

 In World Trade, the memory upgrade from 8MB to 16MB is provided via RPQ 7L1228, for administrative reasons.

5.0 Program Update

5.1 Diagnostic Programs

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 16MB CCU memory size (FC 7200).

6.2 Description

Remove the current SCTL2 and STO cards and replace them by a SCTL3.

7.0 Installation Time

FFBM to be installed:	Machine Hrs.	System Hrs.
43G3183 or 05F2623 (1 on 31A) (2 on 61A)	0.3 0.4	0.0
TEST time (for 31A) TEST time (for 61A)	1.0	0.0
TOTAL time (for 31A) TOTAL time (for 61A)	1.3	0.0

8.0 Tools/Materials Required

ESD kit (PN 6428316).

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Installation (9-11)

9.0 Safety

- Review the Safety Notices located at the beginning of the 3745 Maintenance Information Procedure (MIP) manual, SY33-2054.
- Review the Safety Inspection Procedures located at the beginning of the 3745 Maintenance Information Procedure (MIP) manual, SY33-2054.

10.0 Details of Installation

Before the installation, ask the customer:

- To set all lines and channel addresses offline for this controller and associated machines.
- · To provide the maintenance password.
- To logoff the Service Processor.

10.1 Checking, Diagnostics

From the Control Panel:

Check that Power Control indicator displays 3. If it does not, record the value
 Then, set the Power Control to 3.
 Press the Validate key.

From the Service Processor:

- 1. On MOSS-E View window, click on Program.
- 2. Click on LOG ON MOSS-E.
- 3. Enter the **password**, press **Enter**.

10.1.1 Open MOSS/MOSS-E Session

- 1. On the MOSS-E View window, double click on the ICON of the identified 3745.
- 2. On the 3745 Menu window, double click on MOSS console.

Wait for Function selection rules screen.

10.1.2 Disable CA(s)

- 1. Enter CID, press Enter.
- 2. On CA Interface Display screen, record the Enabled Channel Adapters, then Disable all Channel Adapters.

Note: If 3746 A11 is installed, Press **F8** to display channels 8 thru 16.

- ___ 3. Wait for **Interface Status Disabled** for all channels.
 - 4. Press **F1**.
 - 5. If CCU running, enter RST to reset it. The MOSS goes in MOSS ALONE state.

Note: If Model 61A, CCU must be selected with **CSR** function before performing **RST** function. Perform CSR/RST sequence for each CCU.

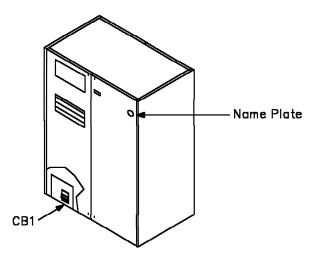
10.1.3 Display the CDF

From the Service Processor:

- 1. Enter CDF, press Enter.
- __ 2. Select **DISPLAY/UPDATE**, enter 1, Press **Enter**.
- __ 3. Select CCU, enter 4, press Enter. Check that CCU storage size is 4 or 8MB for CCUA and CCUB.
- 4. Press **F1**.
- 5. Enter **OFF**, press **Enter**.

10.1.4 **Power OFF**

- 1. From the 3745 control panel, press the POWER OFF key.
- 2. Open the front left system cover of 3745, then switch off CB1.



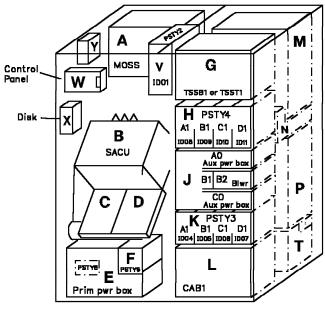
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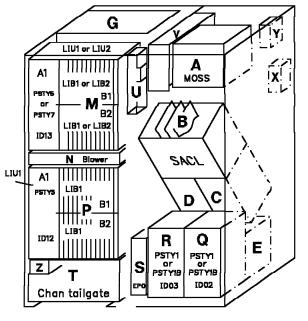


10.2 Hardware Installation

Warning: Follow existing ESD procedures when handling logic parts.



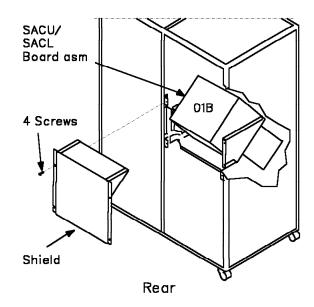
Front View



Rear View

10.2.1 Card Installation

- __ 1. Open the right rear 3745 cover.
- 2. Locate SACU/SACL boards asm in position 01B.
- ___ 3. If present, remove the shield, by loosening 4 screws.

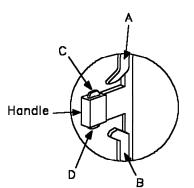


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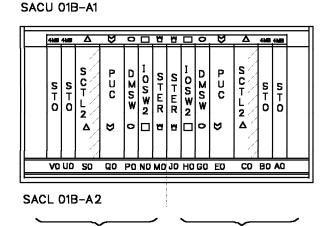
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Board 01B Model 61A with 8MB memory per CCU.



Card Clamp Mechanism



CCUB

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 4. In CCU enclosure, locate the SCTL2 card(s) and the STO card(s),

	Cards 31A	s positions in : 61A
SCTL2	C0	CO and SO
STO-4MB	В0	B0 and U0
STO-8MB	A0	A0 and V0 *

* - If feature installed.

and remove them as follows:

- Using both hands, release levers A and B simultaneously by moving them upwards to their fullest extent.
- Press in catches C and D gently.
 Remove the card assembly from the board.
- Install the SCTL3 as follows:

	Cards 31A	s positions in : 61A
SCTL3	C0	CO and SO

• On the card(s) provided by the FFBM, open the card handle by pressing the

catches C and D in gently and pulling the handle.

If present, remove the yellow tab from the handle and the housings from card contacts.

CCUA

- Ensure that levers A and B are still open to their fullest extent.
- Insert the card(s) into slot(s) C0 (and S0 if Model 61A) and allow it to seat under its own mass ensuring that it has reached the end of the slot.
- Press in catches C and D in and push the handle until it locks in closed position.
- Using both hands, move levers A and B inwards simultaneously.

Note: To improve contact, operate cards levers A and B three times.

- 6. Insert dummy card(s) PN 80X3307 in free card slots (A0,B0,U0,V0).
 Close the levers A and B.
- ___ 7. Reinstall shield (PN 58X9288), if previously removed.
- 8. Close the rear system cover.
- 9. Insert the removed cards in the ESD bags and containers provided by FFBM.

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10.3 Power ON

Switch CB1 ON, and close front system cover.

10.3.1 From the Control Panel

- 1. Set Service Mode indicator to 2. Press the Validate key.
- 2. Set the **Function** indicator to 1. Press the Validate key.
- 3. Press Power on Reset key.
- 4. The MOSS IML is completed when F0E is displayed.

11.0 Test Procedures

11.1 Configuration Data File

11.1.1 Open MOSS/MOSS-E Session

From the Service Processor:

- 1. On the MOSS-E View window, wait until the **ICON** of the 3745 becomes purple.
- 2. On the **3745 Menu** window, double click on MOSS console.

Wait for hp2.Function Selection Rules screen.

11.1.2 Update the CDF

- __ 1. Enter CDF, press Enter.
- 2. Select VERIFY, enter 4, press Enter.
 - · The values from the disk and the machine should be identical except for the memory you have just increased.
 - · To update the CDF with machine values, enter 2, press Enter.
- 3. When CDF VERIFY COMPLETED is displayed, press F6.

11.1.3 Display the CDF

- 1. Select DISPLAY/UPDATE, enter 1, press Enter.
- 2. Select CCU, enter 4, press Enter. The CCU memory size is 16MB for CCUA (and CCUB Model 61A).
- 3. Press **F1**.

11.2 Diagnostics

- 1. Enter ODG, press Enter.
- 2. Enter 2 (CCU), press Enter.
 - · When NO ERROR FOUND is displayed, press F1.
 - If an error is reported, see the MIP, Chapter 2, and follow the appropriate procedures.

11.3 Enable the CA(s)

- 1. Enter CID, press Enter.
- 2. Re-enable all Channel Adapters disabled in Step 10.1.2, "Disable CA(s)" on page 4.
- 3. When CA(s) are enabled, press F1.

11.4 General IPL

From the 3745 control Panel:

- 1. Set the Power Control Indicator to its original value, as per Step 10.1, "Checking, Diagnostics" on page 4.
- 2. Set the Service Mode indicator to 0 Press the Validate key.
- 3. Set the Function indicator to 0 (general IPL).

Press the Validate key.

The general IPL starts.

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

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

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11.5 Disk Save

When the customer network is restarted, save the contents of the hard disk on the **BACKUP** set of Diskettes.

11.5.1 Open MOSS/MOSS-E Session

From the Service Processor:

1. On the MOSS-E View window, double click on the ICON of the identified 3745.

Wait for Function Selection Rules screen.

11.5.2 Save Disk Contents onto Diskettes

 1. If NCP is restarted and MOSS ONLINE, set the MOSS OFF LINE, enter MOF, press Enter.

Note: If Model 61A, select the CCU first.

- 2. Select DIF, press Enter.
- __ 3. Select 2.
- ___ 4. Enter the save-ID, and press Enter.
- ___ 5. Follow prompts on console.
- 6. When function completed, press F1.

11.6 Close MOSS/MOSS-E Session

Enter OFF, press Enter.

The MOSS-E View window is displayed.

11.7 Logging OFF from SP

- 1. On MOSS-E View window, click on Program.
- 2. Click on LOG OFF MOSS-E.

13.0 Publications Update

None.

14.0 Parts Disposition

14.1 Purchased Machines

When this package is installed on a purchase machine, all removed parts become the Property of IBM.

These parts must be processed as stated in the rental machine directions below.

14.2 Rental Machines

Return all parts to the IBM branch office for potential return in accordance with existing return, recovery, and reclamation programs.

15.0 Machine Records

Install the new **MACHINE HISTORY** supplied, or update it as follows:

Remove :

1) BM 05F2617 : 31A CCU group 4MB or BM 05F2620 : 61A CCU group 4MB

2) If feature increment 4MB was installed.

BM 6496078 (QTY2 if 61A) BM 65X8700 (8 MB CCUA) B/N 65X8701 (8 MB CCUB)

Add if 31A:

BM 05F2622 : 31A CCU group 16MB

BM 05F2625 : 16MB CCU A

Add if 61A:

BM 05F2739 : 61A CCU group 16MB

BM 05F2625 : 16MB CCU A BM 05F2626 : 16MB CCU B

Report installation and quality to existing procedures.

End of instructions.

After Installation (12-15)

12.0 Field Updating

None.

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Headings

<u>id</u>	<u>File</u>	<u>Page</u>	References
POW	P05F2624 SCRIPT	4	10.1, Checking, Diagnostics
CA	P05F2624 SCRIPT	4	10.1.2, Disable CA(s)

Processing Options

Dunting values	
Runtime values: Document fileid	P05F2624 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	93.04.06
Time	08:17:51
Device	3820A
Number of Passes	2
Index	YES
SYSVAR G	INLINE
SYSVAR P	3820
SYSVAR R	XREF
SYSVAR U	FNT382SS
SYSVAR W	XREF
-	
Formatting values used:	
Annotation	NO
Cross reference listing	YES
Cross reference head prefix only	NO
Dialog	LABEL
Duplex	SB
DVCF conditions file	(none)
DVCF value 1	(none)
DVCF value 2	(none)
DVCF value 3 DVCF value 4	(none)
DVCF value 5	(none)
DVCF value 5	(none) (none)
DVCF value 7	(none)
DVCF value 8	(none)
DVCF value 9	(none)
Explode	NO
Figure list on new page	YES
Figure/table number separation	
Folio-by-chapter	NO
Head 0 body text	(none)
Head 1 body text	(none)
Hyphenation	ÝES Í
Justification	NO
Language	ENGL
Layout	2
Leader dots	YES
Master index	(none)
Partial TOC (maximum level)	4
Partial TOC (new page after)	INLINE
Print example id's	NO
Print cross reference page numbers	
Process value	3820
Punctuation move characters	., VDEE
Read cross-reference file	XREF
	NONE
Show index entries	NO
Table of Contents (maximum level)	3
Table list on new page	LEQ CENTED
Title page (draft) alignment	
AALING 01099-161616106 1116	AILE