

Field Feature Bill of Material (FFBM)

PN 66X0018

REMOVAL of a Storage Increment 4MB (FC 7100)

from IBM 3745 Models X10/X1A

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Before Removal (steps 1-8)

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

1.0 Machines Affected

3745 Models 210/21A/310/31A/410/41A/610/61A.

2.0 Related BMs and ECs

None.

3.0 B/M(s) to be Used

Note: Review each numbered item in this section to determine your needs.

3.1 FFBM to be Used

- 66X0017 - 4MB storage extension removal. (2 FFBMs if you have to remove 4MB from CCUA and CCUB in 3745 Models 410/41A/610/61A).
- 66X0018 - Installation Instructions.

4.0 Preparation

1. Familiarize yourself with the purpose and details of these removal instructions before negotiating machine time with the customer.
2. Check all the items and count parts listed on the B/M(s) to be used to determine whether all the parts were 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

Remove 4MB CCU memory size (FC 7100).

6.2 Description

4MB storage card removal.

7.0 Removal Time

FFBM to be used	Machine Hrs.	System Hrs.
66X0017	0.3	0.0
Test time	1.5	0.0
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Total time	1.8	0.0

8.0 Tools/Materials Required

ESD kit (PN 6428316).

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Removal (steps 9-11)

9.0 Safety

- This removal 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 (SY33-2054).

10.0 Details of Removal

Before the removal, 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, if not already done.

10.1.1 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 removing this feature from a Model X1A, go to Step 10.1.3, "Log the Service Processor on."
- Otherwise, continue.

10.1.2 Log the 3745-X10 Console on

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**.

Note: If Model 410/610, the CCU must be selected with **CSR** function before **RST**.
Perform the **CSR/RST** sequence for each CCU.

4. If the CCU is running, enter **CSR** and select CCU A or/and CCU B. Then, enter **RST** to reset the CCU(s).
The MOSS goes in **MOSS ALONE** state.

- Go to Step 10.1.5, "Display the CDF" on page 5.

10.1.3 Log the Service Processor on

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

10.1.4 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**.
3. When **MOSS Console** screen is displayed, enter **CID**, press **Enter**.
4. From the **CA INTERF DISPLAY** screen, record **Enabled channel adapters**. Then, **disable** all channel adapters.
5. When all CAs are **DISABLED**, press **F1**.

Note: On Models 41A/61A, CCU must be selected with **CSR** function before performing **RST**.

Perform CSR/RST sequence for each CCU.

6. If CCU running, enter **CSR** and select CCU A or CCU B. Then, enter **RST** to reset CCU(s).
The MOSS goes in **MOSS ALONE** state.

10.1.5 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 8MB for CCUA and/or CCUB.
Press **F1**.

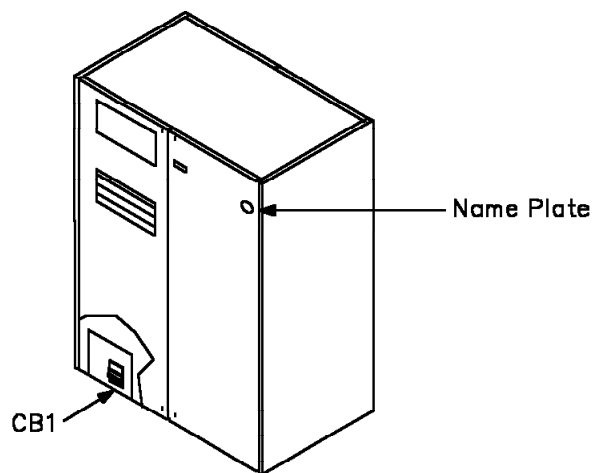
10.1.6 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **2** (CCU).

Note: If Model 410, 41A, 610, or 61A select CCU A or CCU B in 'ADP' field.
- ___ 3. Press **Send/Enter**.
 - If **NO ERROR FOUND** is displayed, press **F1**.
 - If an error is reported, see the *MIP*, Chapter 2, and follow the appropriate procedure.

10.1.7 Power OFF

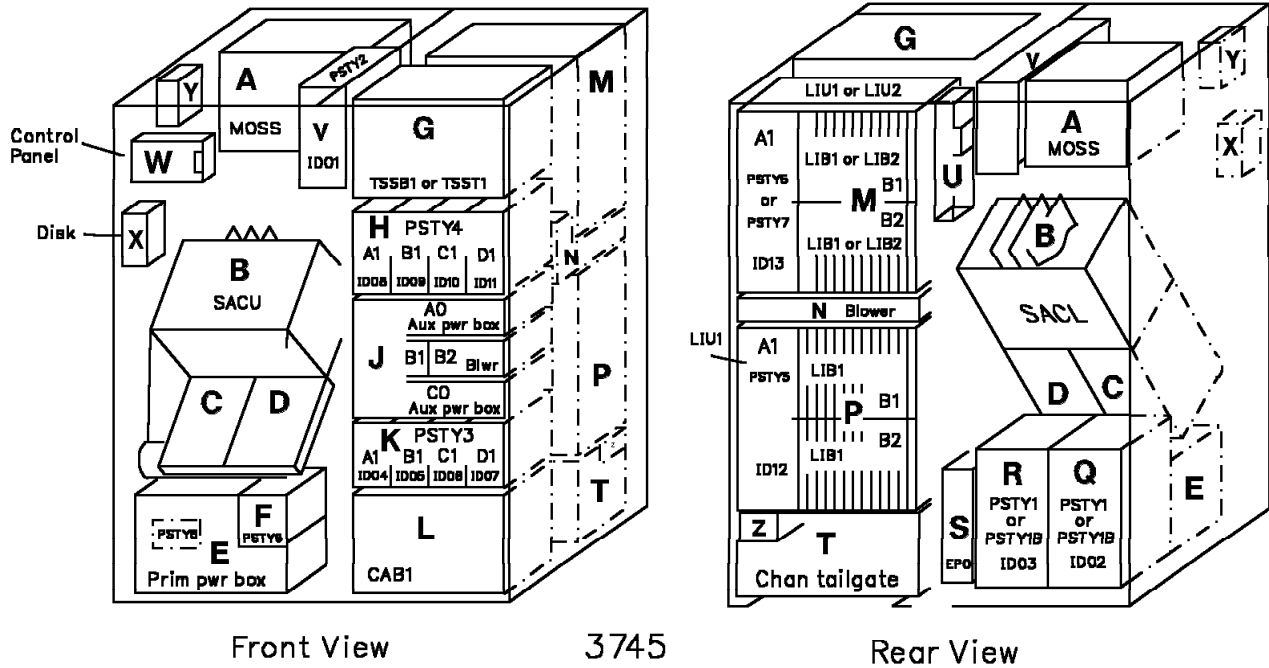
- ___ 1. From the 3745 control panel, press the **Power OFF** key.
- ___ 2. Open the left cover of the 3745, then switch **CB1** OFF.



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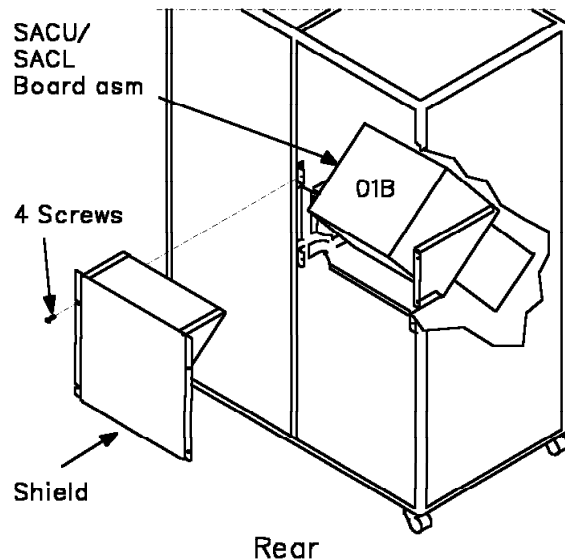
10.2 Hardware Removal

Warning: Follow existing ESD procedures when handling logic parts.



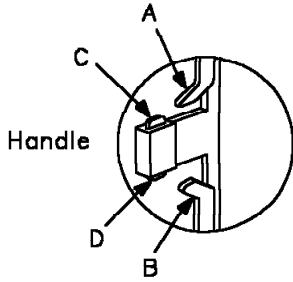
10.2.1 Card Removal

- 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.



- If Models 210/21A/410/41A: D0 for CCU A and S0 for CCU B.

SACU 01B-A1



Card Clamp Mechanism

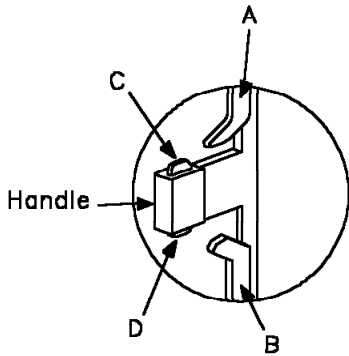
	Unused		<div><div>STO</div><div>IOSW</div><div>SCTL</div><div>DMSW</div><div>STER</div></div>	<input type="checkbox"/> STO	
	Unused			<input type="checkbox"/> ST0	
	Unused			<input checked="" type="checkbox"/> SCTL	
				<input type="radio"/> DMSW	
				<input type="checkbox"/> IOSW	
				<input checked="" type="checkbox"/> STER	
				Unused	
				Unused	
J0	<input checked="" type="checkbox"/> STER		<div><div>ST0</div><div>IOSW</div><div>DMSW</div><div>SCTL</div><div>ST0</div><div>ST0</div></div>	<input checked="" type="checkbox"/>	
H0	<input type="checkbox"/> IOSW			<input type="checkbox"/>	
G0	<input type="radio"/> DMSW			<input type="radio"/>	
F0	<input checked="" type="checkbox"/> SCTL			<input checked="" type="checkbox"/>	
E0	<input type="checkbox"/> ST0			<input type="checkbox"/>	
D0	<input type="checkbox"/> ST0			<input type="checkbox"/>	
	Unused			Unused	
	Unused	Unused			
	Unused	Unused			

SACL 01B-A2

CCUB

CCUA

- If Models 310/31A/610/61A: A0 for CCU A and V0 for CCU B.



Card Clamp Mechanism

SACU 01B-A1

4MB	4MB	△	▽	□	○	▽	▽	□	○	▽	△	4MB	4MB
STO	STO	SCTL2 △	PUC ▽	DMSW ○	IOSW2 □	STER ▽	STER ▽	IOSW2 □	DMSW ○	PUC ▽	SCTL2 △	STO	STO
VO UD	SO	QO	PO NO MO JO	HO GO	EO	CO	BO AO						

SACL 01B-A2

CCUB

CCUA

- Using both hands, move inwards lever A and B simultaneously.
- Press in catches C and D and draw the card asm out of the board.

10.3 Power ON

Switch CB1 ON, and close system covers.
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

Note: During the following procedures some Alarm messages may be displayed on the screen, these can be removed by clicking on **OK**.

- If you have removed this feature from a Model X1A, go to Step 11.1.2, "Open MOSS/MOSS-E Session."
- Otherwise, continue.

11.1.1 From the 3745-X10 Console

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

- Go to Step 11.1.3, "Update the CDF."

11.1.2 Open MOSS/MOSS-E Session

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.

11.1.3 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 removed.
- ___ 3. To update the CDF with machine values, enter **2**, press **Send/Enter**.
 - When **CDF VERIFY COMPLETED** is displayed, press **F6**.
 - If an error is displayed, see the *MIP*, Chapter 1, and follow appropriate procedure.

11.1.4 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 4MB for CCU A and/or CCU B.
- ___ 4. press **F1**.

11.1.5 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **2** (CCU), press **Send/Enter**.
 - If **NO ERROR FOUND** is displayed, press **F1**.
 - If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

11.1.6 Save Hard Disk Contents Onto the Backup set of Diskettes

- ___ 1. Select **DIF**, press **Send/Enter**.
- ___ 2. Select **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 removed the feature from a Model X1A, go to step 11.1.8, "Logoff MOSS-E" on page 9.
- Otherwise, continue.

11.1.7 Logoff the 3745-X10 Console

Re-enable the channel adapters disabled in Step 10.1.2, "Log the 3745-X10 Console on" on page 4.

- Go to Step 11.1.9, "General IPL."

11.1.8 Logoff MOSS-E

1. On the **3745 Menu** window, double click on **MOSS Console**,
2. Enter **CID**, press **Enter**.
3. Enable the channel adapter recorded in Step 11.1.2, "Open MOSS/MOSS-E Session" on page 8.
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**.

11.1.9 General IPL

From the 3745 Control Panel:

1. Set the **Power Control** indicator to its original value recorded in Step 10.1.1, "From the 3745 Control Panel" on page 4.
2. Set the **Function** indicator value to **0** (general IPL).
3. 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.

After Removal (steps 12-15)

12.0 Field Updating

None.

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.

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NN	P66X0018 SCRIPT	4	10.1.2, Log the 3745-X10 Console on 9
SP1	P66X0018 SCRIPT	4	10.1.3, Log the Service Processor on 4
CDF1	P66X0018 SCRIPT	5	10.1.5, Display the CDF 4
PO	P66X0018 SCRIPT	5	10.1.7, Power OFF
POWERON	P66X0018 SCRIPT	8	10.3, Power ON
AA	P66X0018 SCRIPT	8	11.0, Test Procedures
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LL	P66X0018 SCRIPT	8	11.1.3, Update the CDF 8
MM	P66X0018 SCRIPT	8	11.1.5, Run the Diagnostics
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PP	AFTRINSR	9	After Removal (steps 12-15)

Revisions			
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<u>id</u>	<u>File</u>	<u>Page</u>	<u>References</u>
1	P66X0018 SCRIPT	3	

Processing Options	
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Runtime values:

Document fileid	P66X0018 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	93.07.07
Time	12:55:56
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	(none)
DVCF value 4	(none)
DVCF value 5	(none)

DVCF value 6	(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	YES
Folio-by-chapter	NO
Head 0 body text	(none)
Head 1 body text	(none)
Hyphenation	YES
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	YES
Process value	3820
Punctuation move characters	,
Read cross-reference file	XREF
Running heading/footing rule	NONE
Show index entries	NO
Table of Contents (maximum level)	3
Table list on new page	YES
Title page (draft) alignment	CENTER
Write cross-reference file	XREF

Imbed Trace

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Page 9	LOGOFFSP
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