

## **Field Feature Bill of Material (FFBM)**

**PN 03F5177**

### **REMOVAL of a LIB2 Board Positions 3/4 (FC 4903) from IBM 3745 Models 170 and 17A**

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## Before Removal (steps 1-8)

### 1.0 Machines Affected

3745 Models 170 and 17A.

### 2.0 Related BMs and ECs

None.

### 3.0 BMs to be Used

- 03F5177 - Installation Instructions.
- 03F5076 - LIB2 asm removal from position 3
- and/or 03F5136 - LIB2 asm removal from position 4

### 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 BM(s) to be used to determine whether all parts were received.
3. All LIC cards and MUX cables of identified LIB2 board have to be removed before this feature removal.
4. See the *HONE Configurator sheet* to determine in which position you have to remove the LIB2.  
Removal sequence:
  - a. Position 3, bottom right (01L-A2).
  - b. Position 4, top right (01L-A1)

### 5.0 Program Update

None.

### 6.0 Purpose and Description

#### 6.1 Purpose

Remove a LIB2 feature.

#### 6.2 Description

Remove a board LIB type 2 with associated SMUXA/B cards.

### 7.0 Removal Time

FFBM Used	Machine Hours	System Hours
03F5076	0.8	0.0
and/or 03F5136	0.8	0.0
Test Time	0.5	
Total Time	1.3	

### 8.0 Tools/Materials Required

ESD kit (PN 6428316).

## Removal (steps 9-11)

### 9.0 Safety

- The 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 (3745-170) or the Service Processor (SP) (3745-17A), if not already done.

### 10.1 Checking

#### 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 installing a LIB2 in a Model 17A, go to Step 10.1.3, "From the Service Processor."
- Otherwise, continue.

#### 10.1.2 From the 3745-170 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.

- Go to Step 10.2, "Hardware Installation" on page 5.

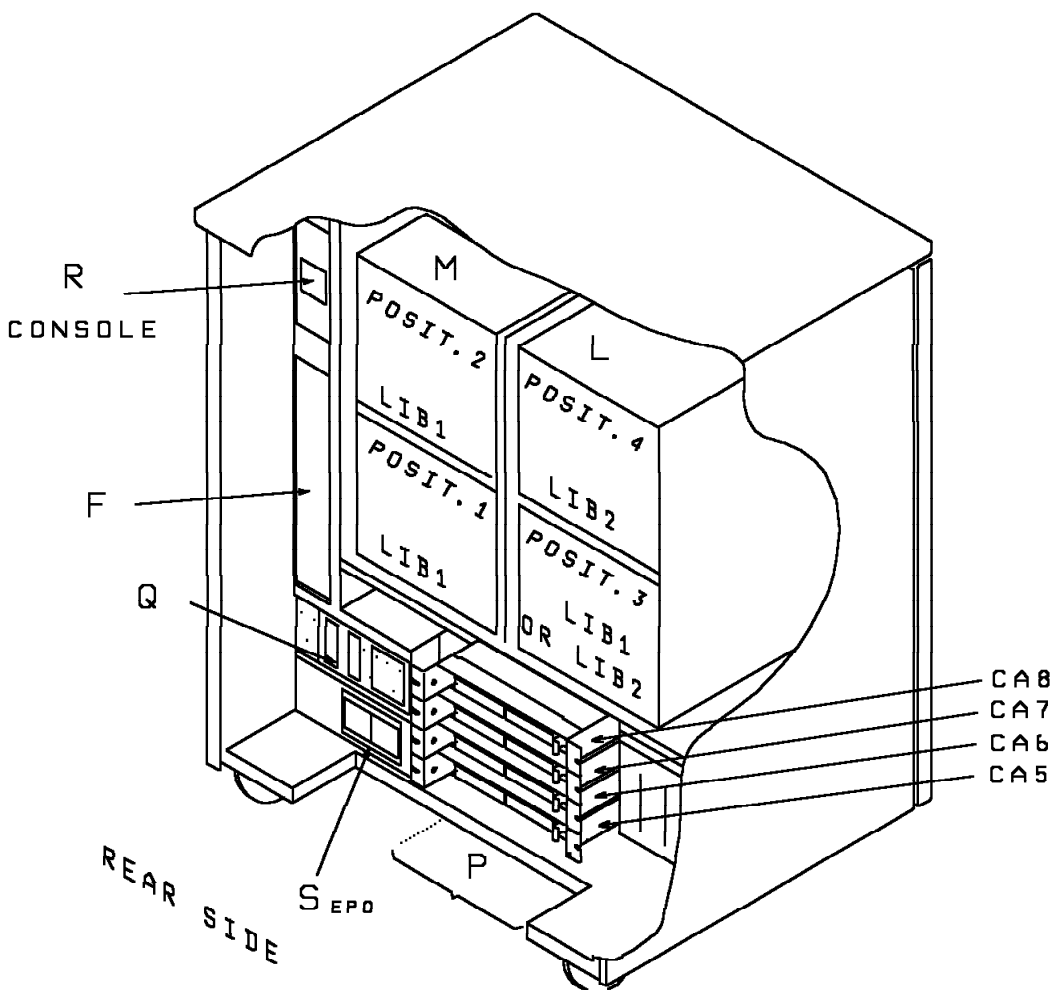
#### 10.1.3 From the Service Processor

- 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.

## 10.2 Hardware Installation

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

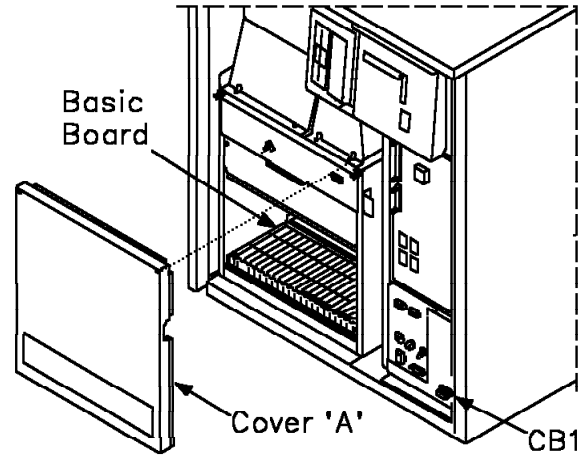
- \_\_\_ 1. Open the rear system cover.
- \_\_\_ 2. Visually, check that there is a LIB2 installed where you have to remove this feature.



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## 10.2.1 Power OFF

- 1. From the 3745 control panel, press the **Power OFF** key.
- 2. Open the front system cover and switch off **CB1**.

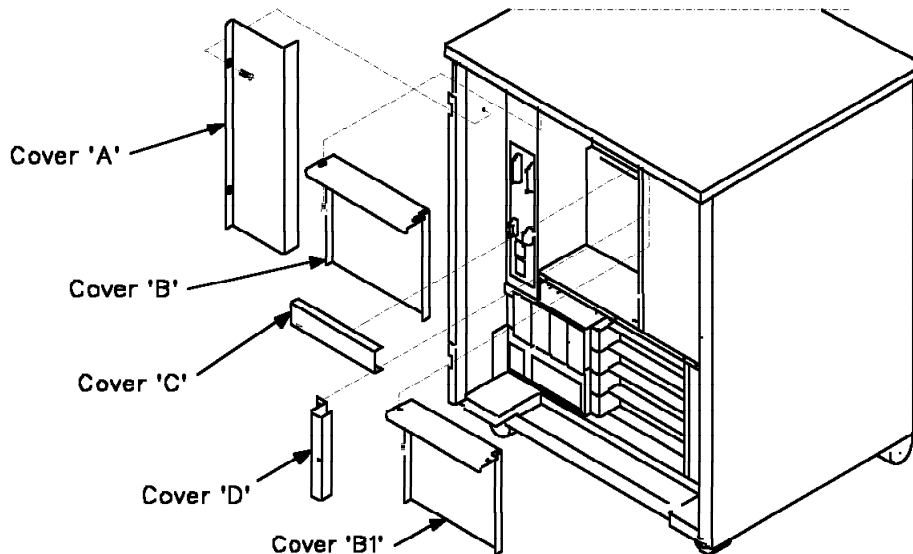


Front View

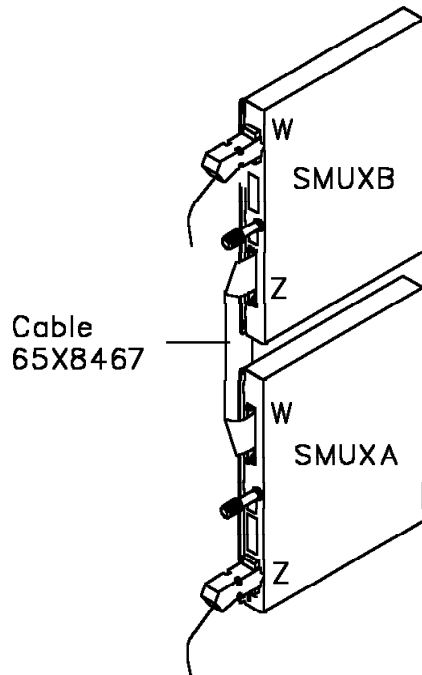
- If you are removing a LIB2 from position 4, go to section 10.2.3, "Removal of a LIB2 from Position 4 (01L-A1)" on page 10.
- If you are removing a LIB2 from position 3, continue.

## 10.2.2 Removal of a LIB2 from Position 3 (01L-A2)

- 1. From the REAR of the machine, remove cover 'A' with two screws.
- 2. If there is no LIB1 board in 01M-A1 position, you have to remove cover 'B' with two screws.
- 3. To access to power cables of the LIB2 you are removing, remove all LIC and DMUX cards installed in 01M-A1/A2.
- 4. Remove cover 'C' (over raceway) with two screws.
- 5. Remove cover 'D' (one screw).



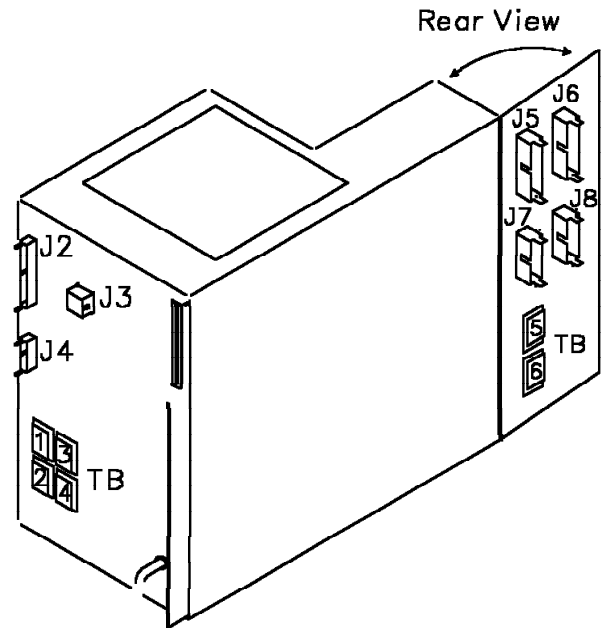
- \_\_\_ 6. Unplug the cable (PN 65X8467) between SMUXA and SMUXB cards.



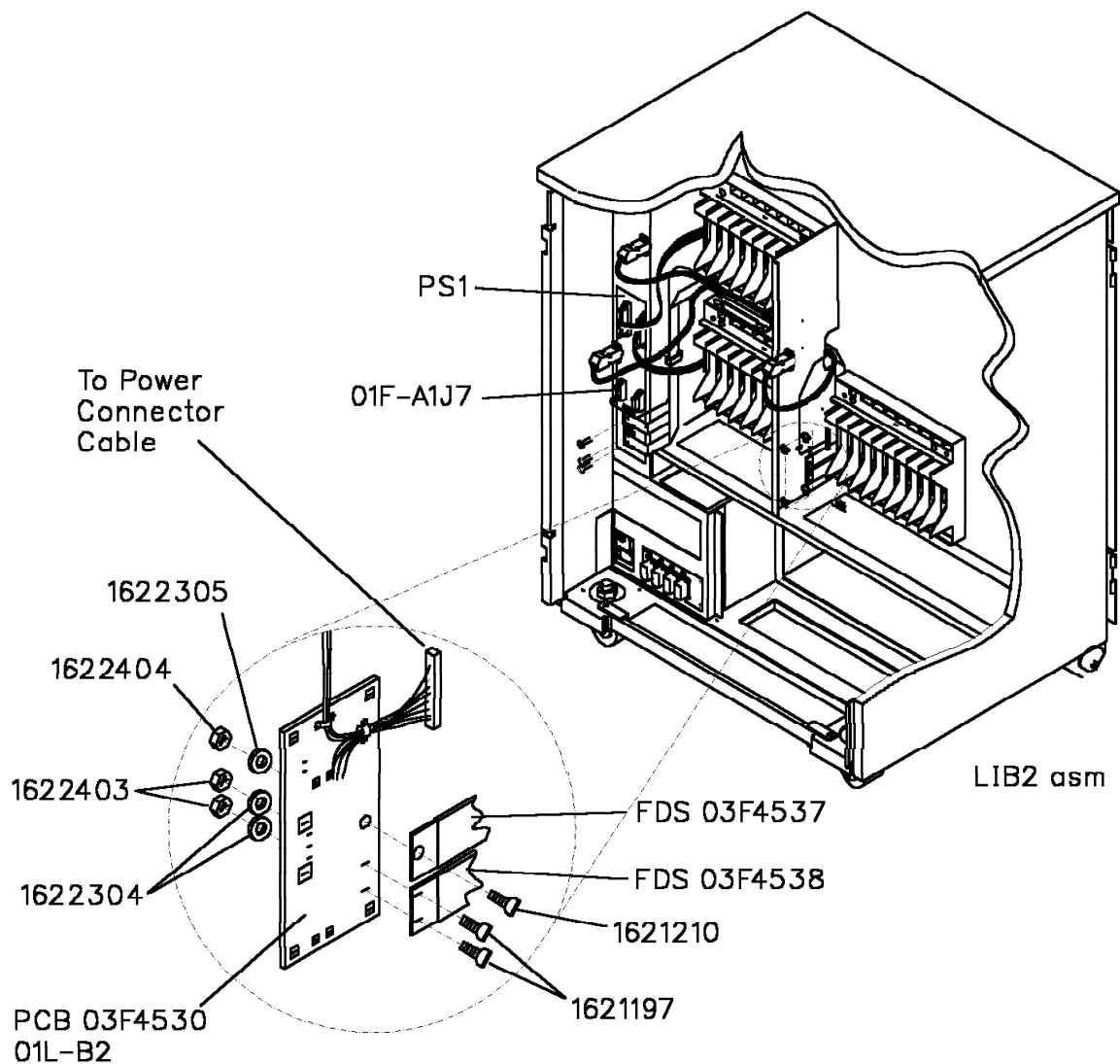
- \_\_\_ 7. Remove SMUXA card from position B0 of the board.
- \_\_\_ 8. Remove MUX cable (PN 03F4503) from SMUXA card, if present.

**Note:** If a cable is plugged in position Z of SMUXA, you may have to replug it in W position of SMUXB (if free). See the *HONE configuration sheet*.

- \_\_\_ 9. From the rear of PS1:
- Disconnect the power cable from 01F-A1J7 position.
  - Disconnect FDS cables from positions 01F-A1 TB5 and TB6.

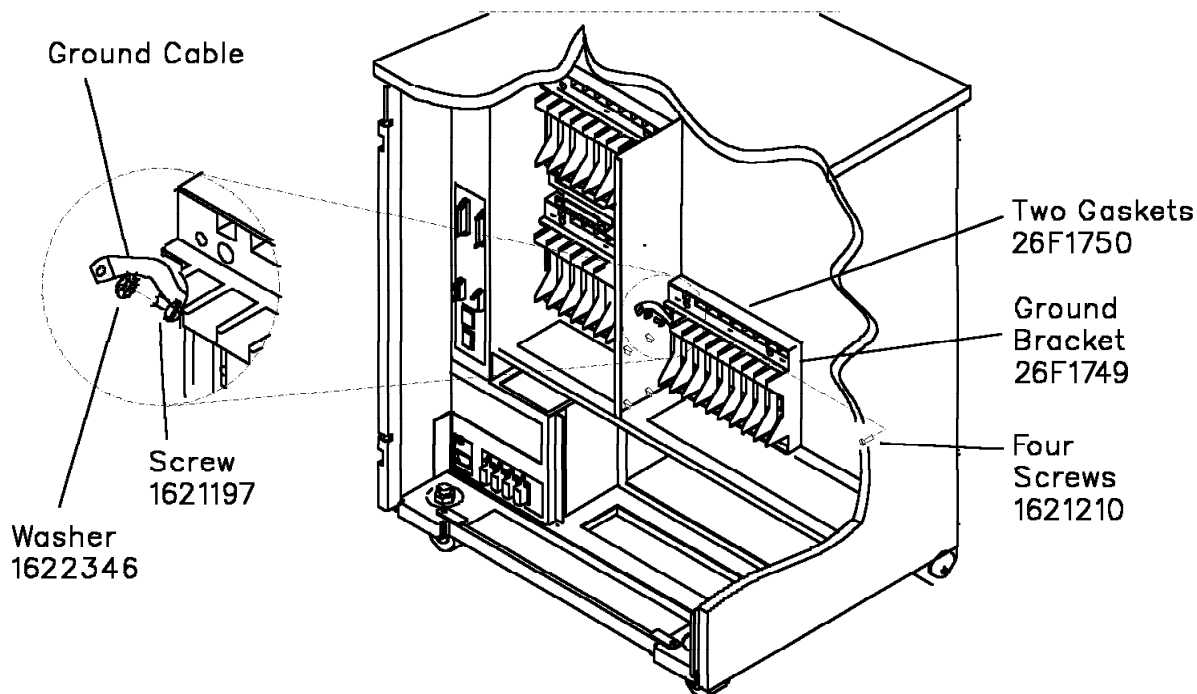


- \_\_\_ 10. from the Printed Circuit Board (PCB):
- Remove the grid (three screws).
  - Unplug the cable connector marked 01L-B2J1.
  - Disconnect the FDS cables from positions 01L-B2 TB1 and TB2.
  - Remove FDS cables from the machine.
  - Disconnect cable at LIB2 board power connector.
  - Remove the Printed Circuit Board (PCB) from the machine.





- \_\_\_ 11. Disconnect the ground cable from the frame (one screw and washer).
- \_\_\_ 12. Remove the bracket and LIB2 asm with four screws.

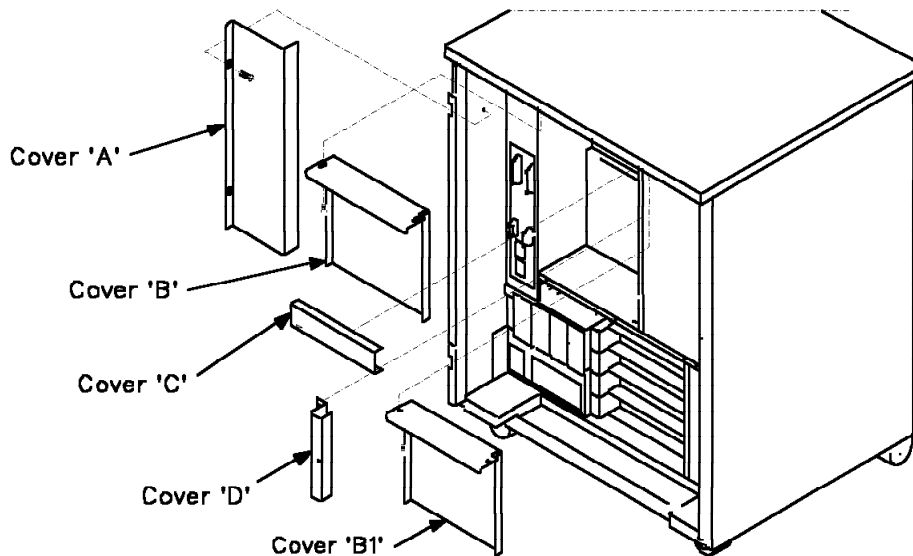


- \_\_\_ 13. Reinstall cover 'D' and 'C'.
- \_\_\_ 14. Reinstall all LIC cards in LIB boards 01M-A1/A2.
- \_\_\_ 15. Reinstall cover 'A'.
- \_\_\_ 16. If no LIB1 in position 01M-A1, reinstall cover 'B'.

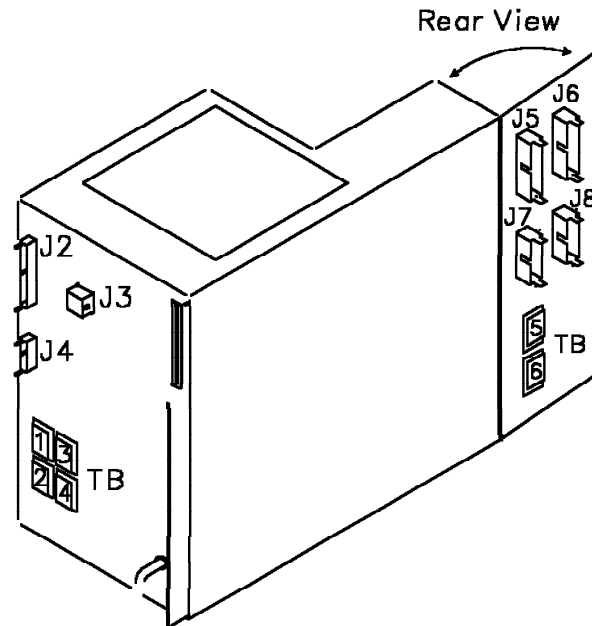
- If you have to remove a LIB2 position 4, go to step 10.2.3, "Removal of a LIB2 from Position 4 (01L-A1)" on page 10.
- Otherwise, go to section 10.3, "Power ON" on page 13.

### 10.2.3 Removal of a LIB2 from Position 4 (01L-A1)

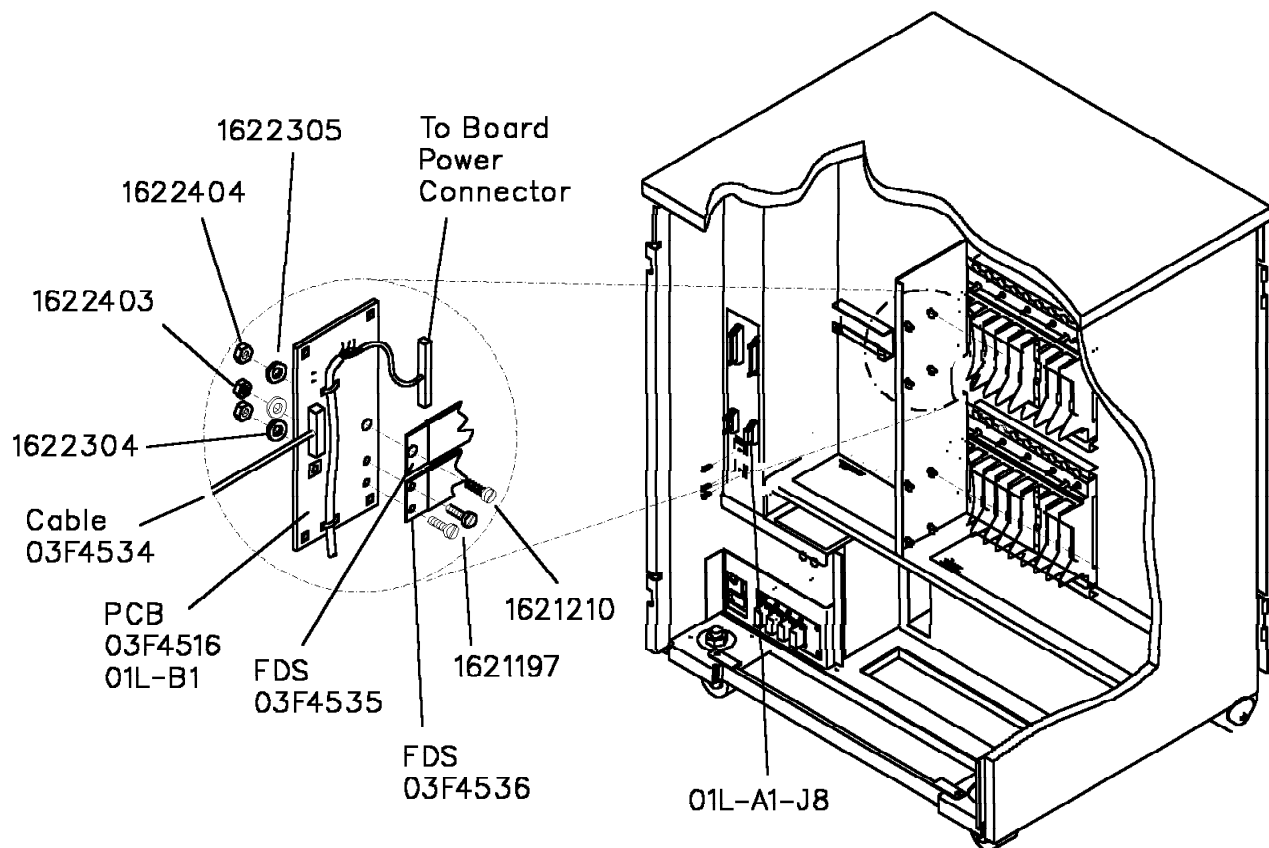
- \_\_\_ 1. From the rear of the machine, remove cover 'A' with two screws.
- \_\_\_ 2. If there is no LIB1 board in 01M-A1 position, you have to remove cover 'B' with two screws.
- \_\_\_ 3. To access to power cables of the LIB2 you are removing, remove all LIC and DMUX cards installed in 01M-A1/A2.
- \_\_\_ 4. Remove cover 'C' (over raceway) with two screws.
- \_\_\_ 5. Remove cover 'D' (one screw).



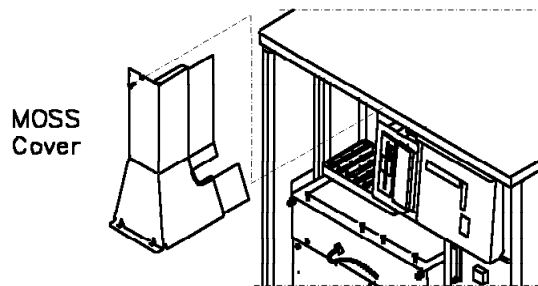
- \_\_\_ 6. Unplug SMUXB card from position B0 of the board.
- \_\_\_ 7. From the rear of PS1:
  - a. Disconnect the power cable from 01F-A1J8 position.
  - b. Disconnect FDS cables from positions 01F-A1 TB5 and TB6.



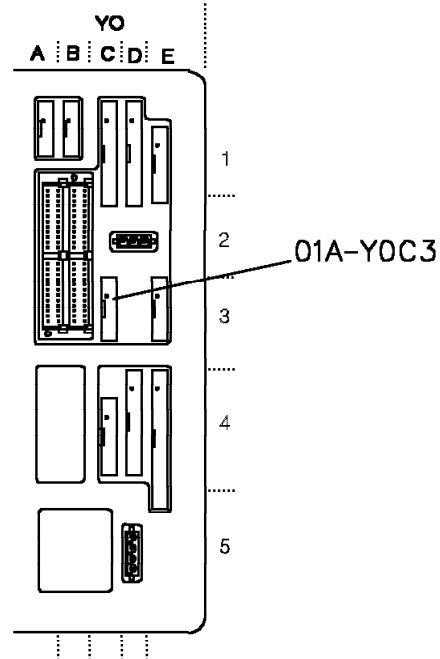
- \_\_\_ 8. From the Printed Circuit Board (PCB):
- Remove the grid (three screws).
  - Unplug the cable connector marked 01L-B1J1.
  - Disconnect the FDS cables from positions 01L-B1 TB1 and TB2.
  - Remove FDS cables from the machine.
  - Disconnect cable at LIB2 board power connector.
  - Remove the Printed Circuit Board (PCB) from the machine.



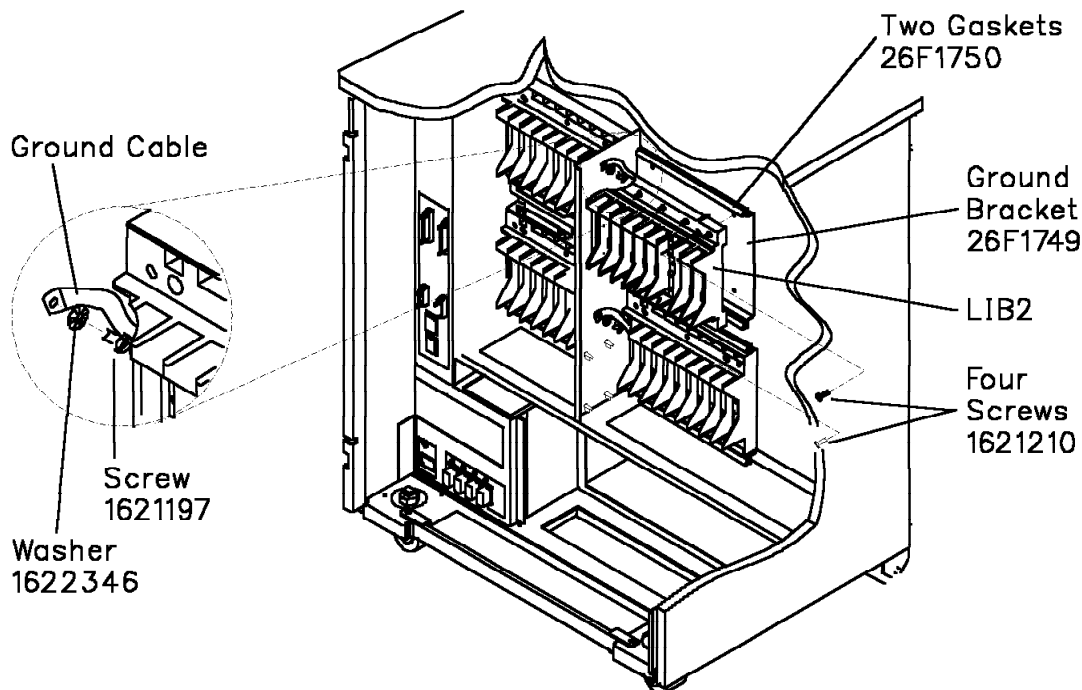
- \_\_\_ 9. Remove the MOSS cover.



- \_\_\_ 10. Unplug cable from position 01A-Y0C3 and remove it from the machine.



- \_\_\_ 11. Disconnect the ground cable from the frame (one screw and washer).  
 \_\_\_ 12. Remove the bracket and LIB2 asm with four screws.



- \_\_\_ 13. Install cover 'B1' (PN 03F4669) with two screws (PN 1621210).  
 \_\_\_ 14. Reinstall cover 'C'.  
 \_\_\_ 15. Reinstall all LIC cards in LIB boards 01M-A1/A2.  
 \_\_\_ 16. Reinstall cover 'A'.  
 \_\_\_ 17. If no LIB1 in position 01M-A1, reinstall cover 'B'.

## 10.3 Power ON

Switch **CB1** ON, and close system covers.

### 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.

- If you have removed a **LIB2** from a **Model 17A**, go to **Step 10.3.3, "From the Service Processor."**
- Otherwise, continue.

### 10.3.2 From the 3745-170 Console

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

Re-enable the channel adapters disabled in **Step 10.1.2, "From the 3745-170 Console"** on page 4.

- Go to **Step 11.1, "General IPL."**

### 10.3.3 From the Service Processor

- \_\_\_ 1. Double click on the 3745 icon when it becomes **PURPLE**.
- \_\_\_ 2. When the **3745 Menu** window is displayed, double click on **MOSS console**.  
Wait for **Function Selection Rules** screen.
- \_\_\_ 3. On the **3745 Menu** window, double click on **MOSS Console**,
- \_\_\_ 4. Enter **CID**, press **Enter**.
- \_\_\_ 5. Enable the channel adapter recorded in **Step 10.1.3, "From the Service Processor"** on page 4.  
Wait until all channels are **E** in the **E/D REQUEST** column.  
Press **F1**.

- \_\_\_ 6. Enter **OFF**, press **Enter**.
- \_\_\_ 7. On the **3745 Menu** window, click on **Function**. Then, click on **Exit**.
- \_\_\_ 8. On the **MOSS-E View** window, click on **Program**.
- \_\_\_ 9. Click on **LOG OFF MOSS-E**.

## 11.0 Test Procedures

None.

### 11.1 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.

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## 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.

Headings			
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<u>id</u>	<u>File</u>	<u>Page</u>	<u>References</u>
DD	P03F5177 SCRIPT	3	4.0, Preparation
OO	P03F5177 SCRIPT	4	10.1.1, From the 3745 Control Panel 13
NN	P03F5177 SCRIPT	4	10.1.2, From the 3745-170 Console 13
SP1	P03F5177 SCRIPT	4	10.1.3, From the Service Processor 4, 13
OFF	P03F5177 SCRIPT	5	10.2, Hardware Installation 4
POS4	P03F5177 SCRIPT	10	10.2.3, Removal of a LIB2 from Position 4 (01L-A1) 6, 9
PO	P03F5177 SCRIPT	13	10.3, Power ON 9
SP3	P03F5177 SCRIPT	13	10.3.3, From the Service Processor 13
IPL	P03F5177 SCRIPT	13	11.1, General IPL 13
PP	AFTRINSR	14	After Removal (steps 12-15)

Processing Options
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Runtime values:

Document fileid .....	P03F5177 SCRIPT
Document type .....	PNCDOC
Document style .....	FBII
Profile .....	EDFPRF30
Service Level .....	21Jun90
SCRIPT/VS Release .....	3.2.1
Date .....	94.02.03
Time .....	09:49:07
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)
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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/footer 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

<b>Imbed Trace</b>
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Page 4	LOGONLC1
Page 4	LOGONSP1
Page 14	AFTRINSR