

Field Feature Bill of Material (FFBM)

PN 03F5172

REMOVAL of a LIB1 Board Positions 1/2/3 (FC 4902) 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

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

- 03F5172 - Installation Instructions.
- 03F5081 - LIB1 asm removal from position 1 (no parts)
- and/or 03F5071 - LIB1 asm removal from position 2
- and/or 03F5181 - LIB1 asm removal from position 3 (no parts)

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. See the *HONE Configurator sheet* to determine from which position you have to remove the LIB1.

Removal sequence:

- a. Position 3, bottom right (01L-A2).
- b. Position 2, top left (01M-A1)
- c. Position 1, bottom left (01M-A2)

4. All LIC cards and MUX cables of identified LIB1 board(s) have to be removed before beginning this removal.

5.0 Program Update

None.

6.0 Purpose and Description

6.1 Purpose

Remove a LIB1 feature.

6.2 Description

Remove a board LIB type 1 with associated DMUX cards.

7.0 Removal Time

FFBM Used	Machine Hours	System Hours
03F5081	0.5	0.0
and/or 03F5071	0.8	0.0
and/or 03F5181	1.0	0.0

8.0 Tools/Materials Required

ESD kit (PN 6428316).

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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 (SY33-2070).

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 removing a LIB1 from 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 Removal" on page 5.

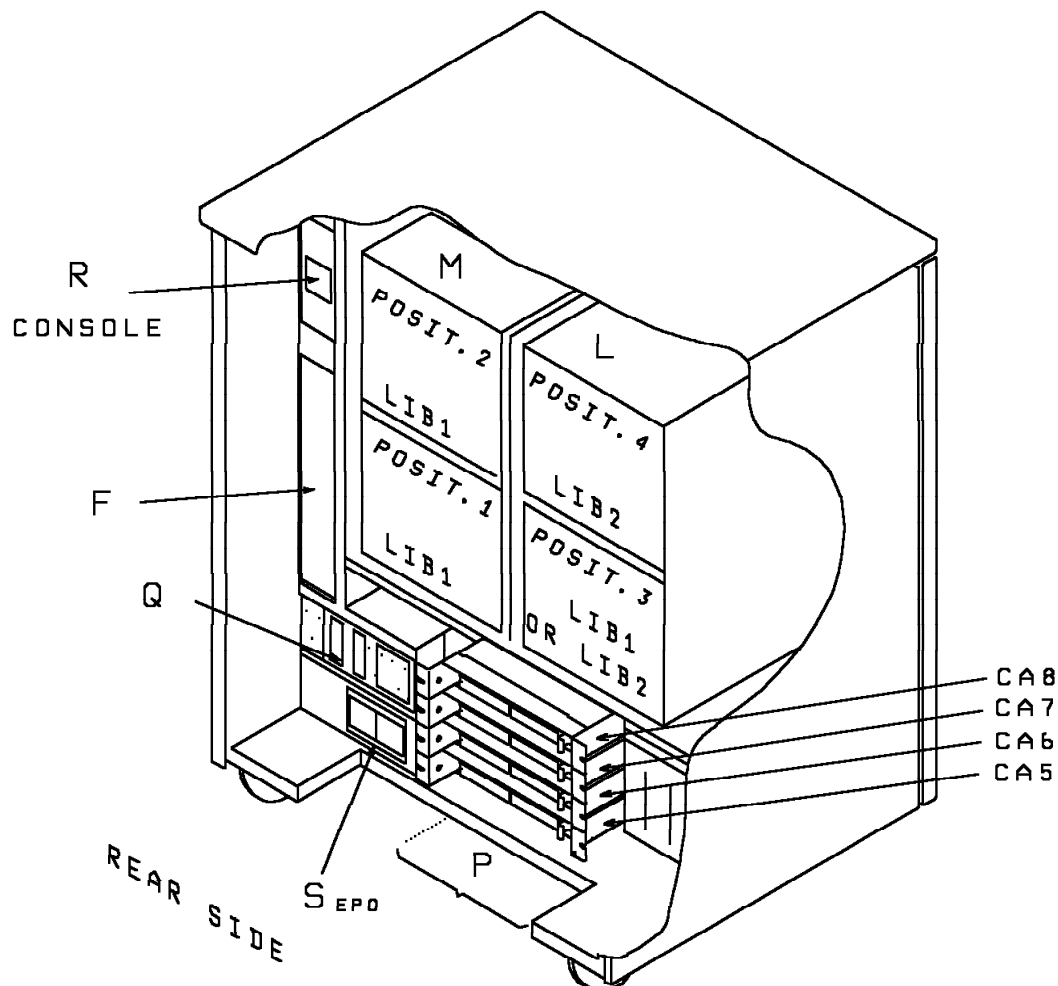
10.1.3 From the Service Processor

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 Removal

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

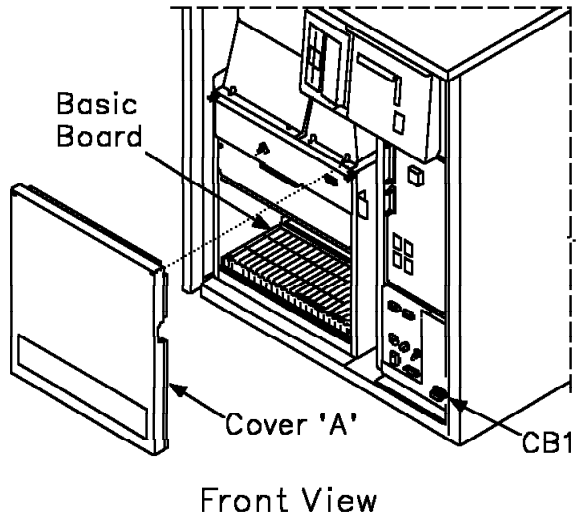
- ___ 1. Open the rear system cover.
- ___ 2. Visually, check that there is a LIB1 installed where you have to remove this feature.



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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**.

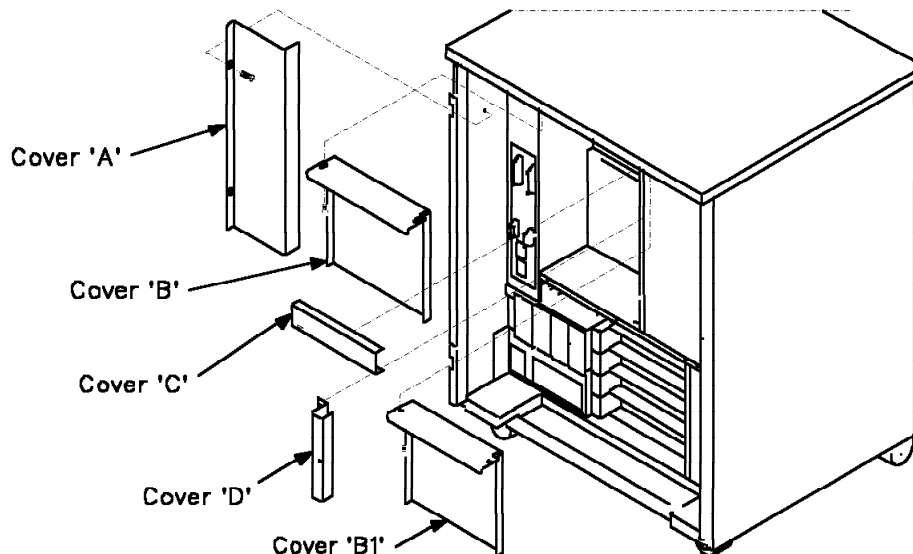


- If you are removing a LIB1 from position 1, go to section 10.2.4, “Removal of a LIB1 from position 1 (01M-A2)” on page 11.
- If you are removing a LIB1 from position 2, go to section 10.2.3, “Removal of a LIB1 from position 2 (01M-A1)” on page 9.
- If you are removing a LIB1 from position 3, continue.

10.2.2 Removal of a LIB1 from position 3 (01L-A2)

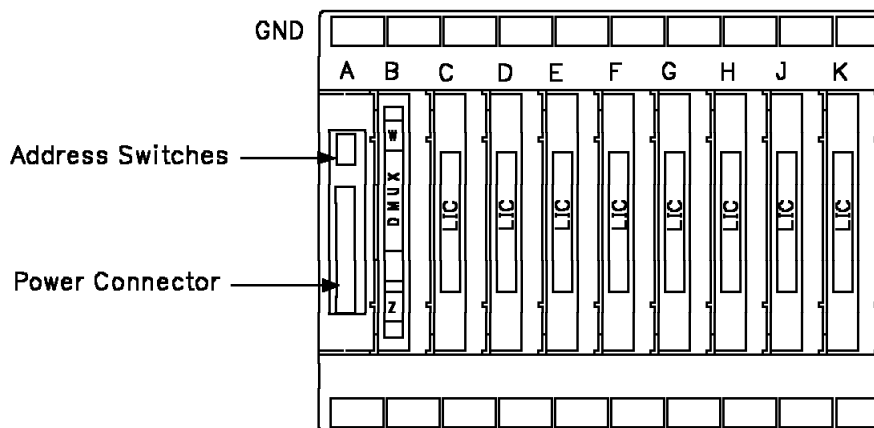
Note: Keeping LIC external cables connected on LIC, unplug all LIC cards from LIB1 positions 1 and 2. Note the position of each LIC card.

1. From the REAR of the machine, remove cover 'A' with two screws, cover 'C' with two screws and cover 'D' with two screws.

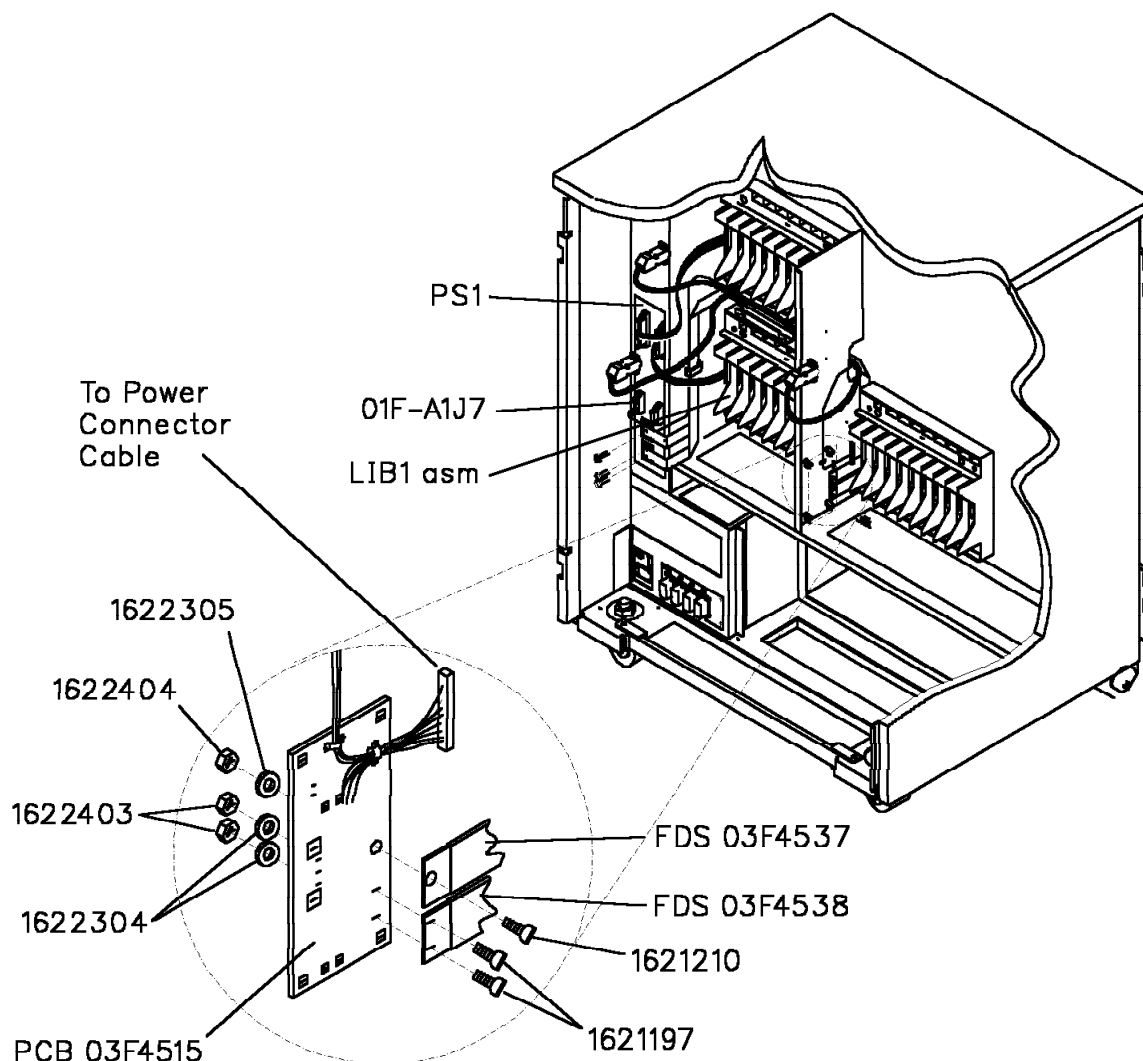


2. Unplug DMUX card in position B0 of the board (LIC cards and MUX cables have been removed via previous MESSs).

Note: If you have spare MUX cables, they must be saved in right side of basic board or reconnected on other DMUX according to the *HONE Configuration sheet*.

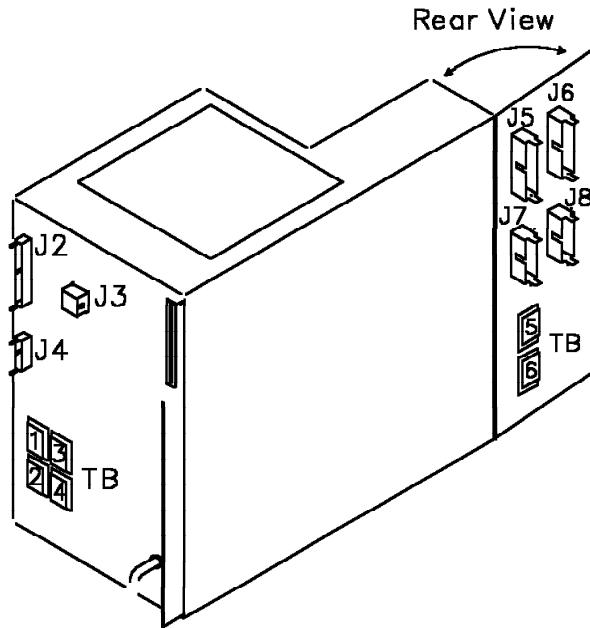


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- ___ 3. On Printed Circuit Board (PCB), remove the FDS cable (PN 03F4537) from position 01L-B2-TB1 (one screw (PN 1621210), a nut (PN 1622404), and a washer (PN 1622305)).
- ___ 4. On Printed Circuit Board (PCB), remove the FDS cable (PN 03F4538) in position 01L-B2-TB2 (two screws (PN 1621197), two nuts (PN 1622403), and two washers (PN 1622304)).
- ___ 5. Route these two FDS cables towards the rear of PS1.
- ___ 6. Disconnect the FDS cable (PN 03F4537) from position 01F-A0-TB5 (one screw (PN 1621210)).
- ___ 7. Disconnect the FDS cable (PN 03F4538) from position 01F-A0-TB6 with two screws (PN 1621197).
- ___ 8. Disconnect one end of the Printed Circuit Board (PCB) cable from board power connector and the other end from the rear of PS1 from position 01F-A1J7.
- ___ 9. Remove the PCB (03F4515) (four standoffs).
- ___ 10. Remove the LIB1 ASM (four screws).
- ___ 11. Reinstall cover 'C' over raceway.

- ___ 12. Reinstall all LIC and DMUX cards removed from LIB1 positions 1 and 2.

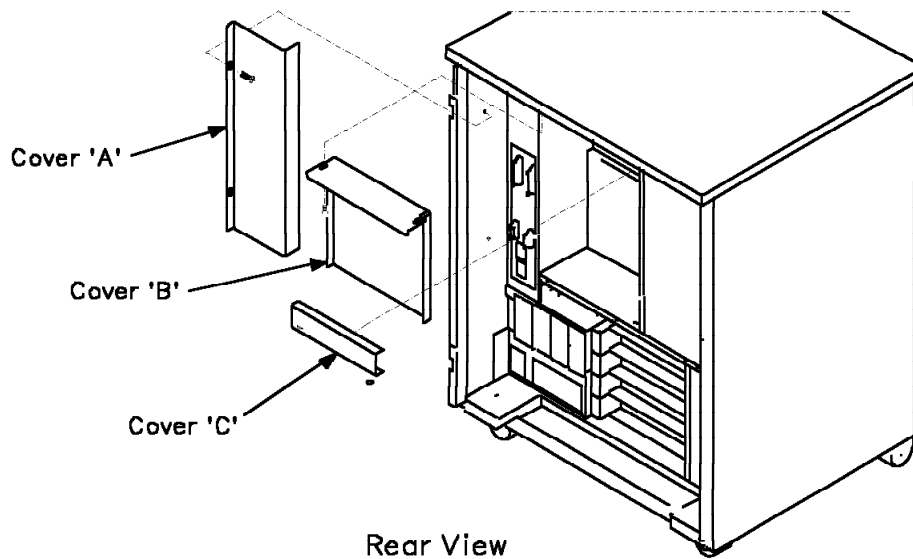


- ___ 13. Reinstall covers 'D' and 'A'.

- Go to section 10.3, "Power ON" on page 12.

10.2.3 Removal of a LIB1 from position 2 (01M-A1)

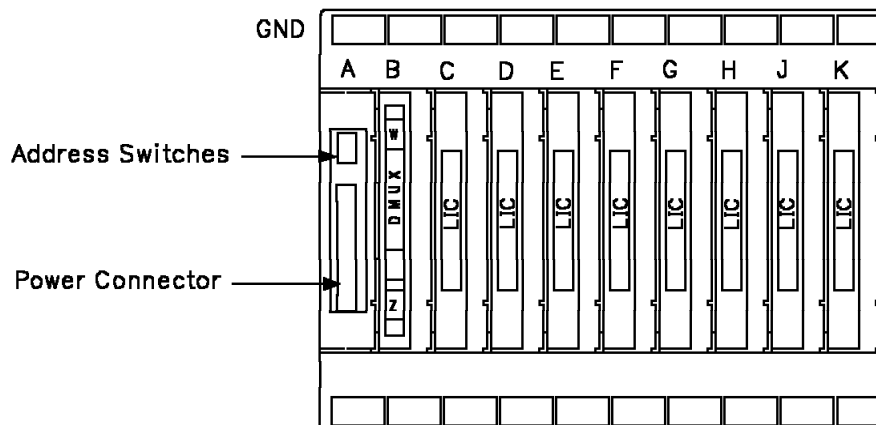
- ___ 1. From the REAR of the machine, remove cover 'A' with two screws and cover 'B' with two screws.



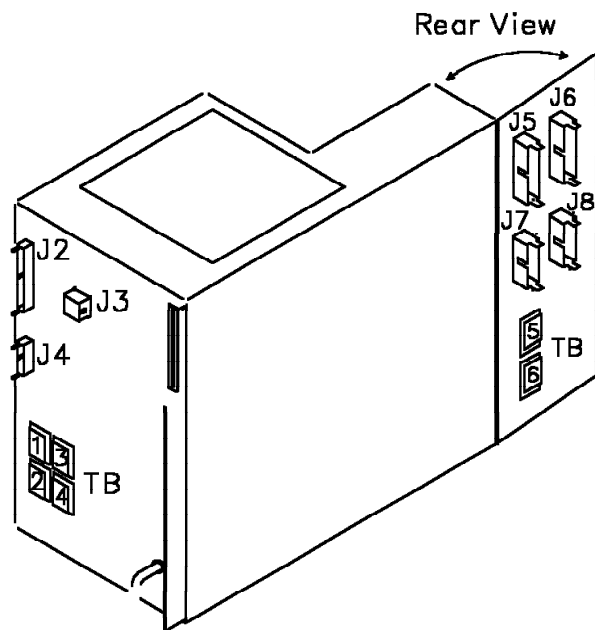
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- ___ 2. Unplug DMUX card in position B0 of the board (LIC cards and MUX cables have been removed via previous MESSs).

Note: If you have spare MUX cables, they must be saved in right side of basic board or reconnected on other DMUX according to the *HONE Configuration sheet*.



- ___ 3. Unplug one end of the power cable from board power connector and the other end from position 01F-A1J5 (rear of the Power Supply Type 1).
- ___ 4. Remove the LIB1 ASM (four screws).



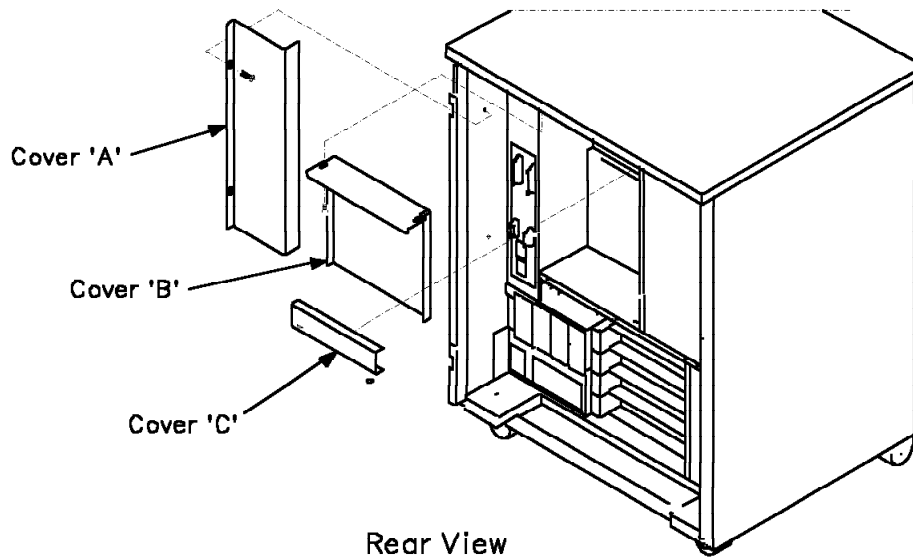
- ___ 5. Reinstall cover 'A'.
- ___ 6. Install cover 'B' (PN 03F4669) with two screws (PN 1621210).

• Go to section 10.3, "Power ON" on page 12.

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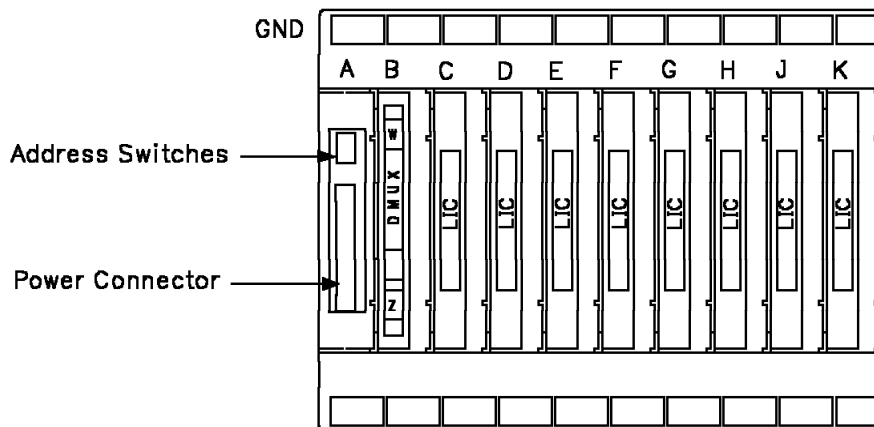
10.2.4 Removal of a LIB1 from position 1 (01M-A2)

1. From the REAR of the machine, remove cover 'A' with two screws and cover 'B' with two screws.



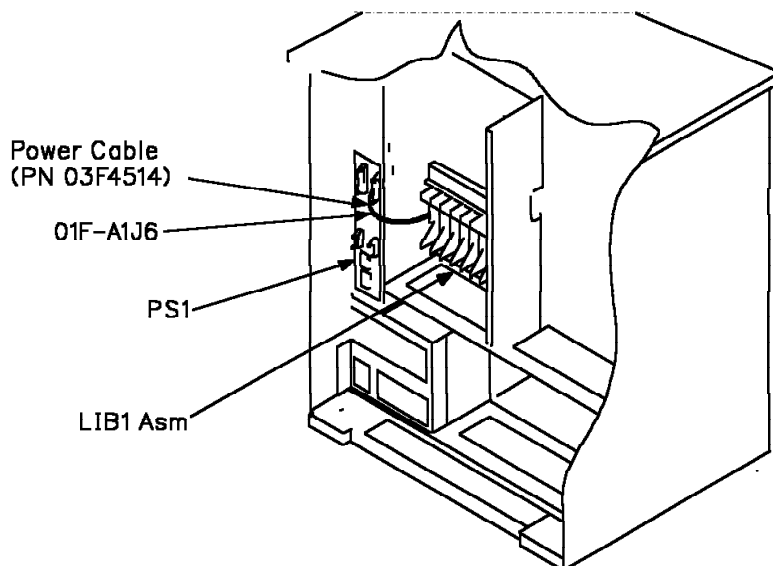
2. Unplug DMUX card in position B0 of the board (LIC cards and MUX cables have been removed via previous MESSs).

Note: If you have spare MUX cables, they must be saved in right side of basic board or reconnected on other DMUX according to the *HONE Configuration sheet*.



3. Unplug one end of the power cable from board power connector and the other end from position 01F-A1J6 (rear of the Power Supply Type 1). Remove the cable from the machine.
4. Remove the LIB1 ASM (four screws).

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___ 5. Reinstall covers 'A' and '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 LIB1 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**.

- Go to Step 11.0, "Test Procedures."

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.

11.0 Test Procedures

None.

- If you have removed an adapter from a Model 17A, go to Step 11.2, "From the Service Processor" on page 13.
- Otherwise, continue.

11.1 From the 3745-170 Console

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

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- Go to Step 11.3, "General IPL" on page 13.

11.2 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 10.1.3, "From the Service Processor" on page 4.
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**.

11.3 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	P03F5172 SCRIPT	4	10.1.2, From the 3745-170 Console 12
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IPL	P03F5172 SCRIPT	13	11.3, General IPL 13
PP	AFTRINSR	13	After Removal (steps 12-15)

Processing Options

Runtime values:

Document fileid	P03F5172 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	94.02.03
Time	09:42:15
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 4	LOGONSP1
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Page 13	AFTRINSR