

Field Feature Bill of Material (FFBM)

PN 03F5072

INSTALLATION of a LIB1 Board Positions 1/2/3 (FC 4902) in IBM 3745 Models 170 and 17A

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Approved by: F. Charron
Reviewed by: B. Kelly

3745 FFBM	PN 03F5072 1 of 14	EC A47495 03MAY89	EC A97870 21NOV89	EC C38773 03FEB94		
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Before Installation (steps 1-8)

1.0 Machines Affected

3745 Models 170 and 17A.

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.

- 03F5072 - Installation Instructions.
- 03F5070 - LIB1 asm position 1
- and/or 03F5073 - LIB1 asm position 2
- and/or 03F5074 - LIB1 asm position 3

4.0 Preparation

1. Familiarize yourself with the purpose and details of these installation instructions before negotiating machine time with the customer.
2. Check all the items and count parts listed on the BM(s) to be installed to determine whether all parts were received.
3. After the LIC board hardware installation, you can install a Line Adapter (TSS) and/or a LIC feature before power on.

4. See the *HONE Configurator sheet* to determine in which position you have to install the LIB1.

Installation sequence:

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

5.0 Program Update

None.

6.0 Purpose and Description

6.1 Purpose

Install a LIB1 feature.

6.2 Description

Install a board LIB type 1 with associated DMUX cards.

7.0 Installation Time

FFB/M Installed	Machine Hours	System Hours
03F5070	0.8	0.0
and/or 03F5073	0.8	0.0
and/or 03F5074	1.0	0.0

8.0 Tools/Materials Required

ESD kit (PN 6428316).

Installation (steps 9-11)

9.0 Safety

- The 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 (3745-170) 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 LIB1 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.

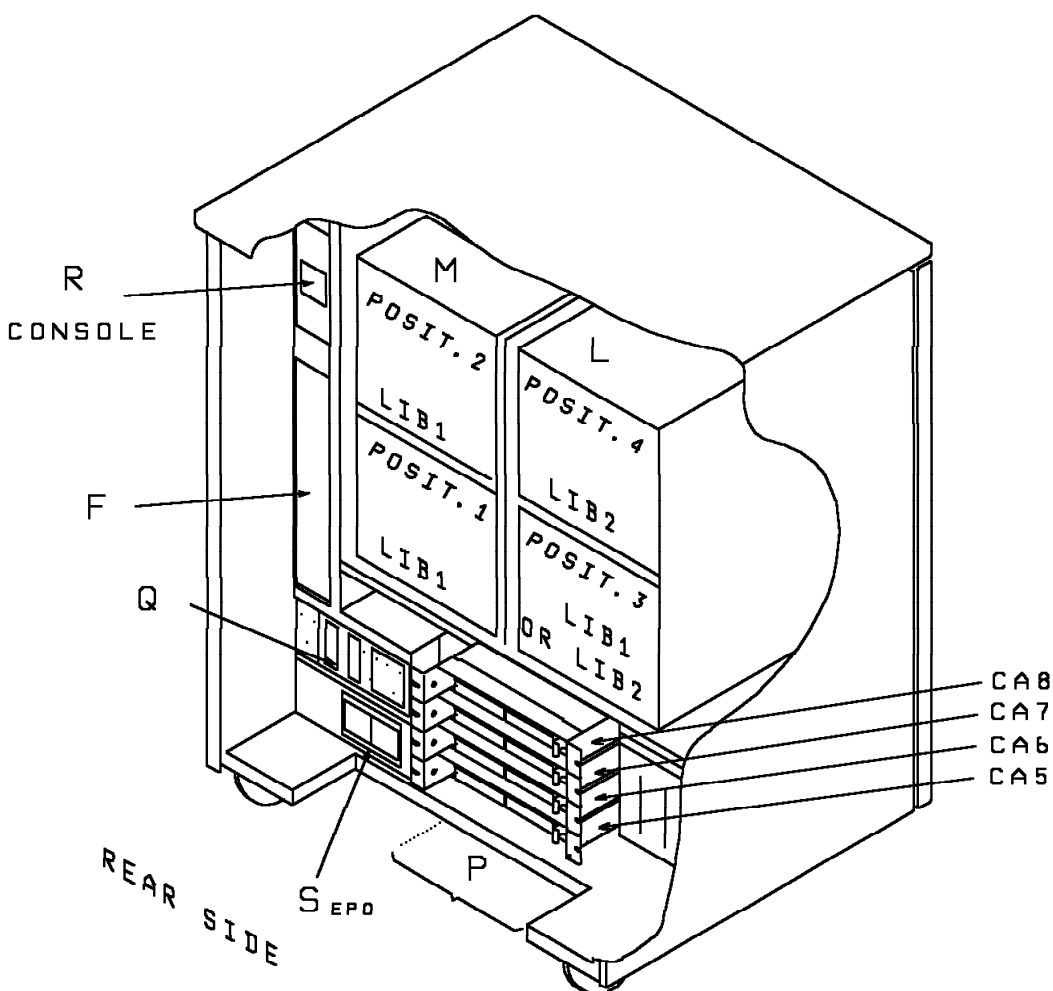
10.1.3 From the Service Processor

- 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

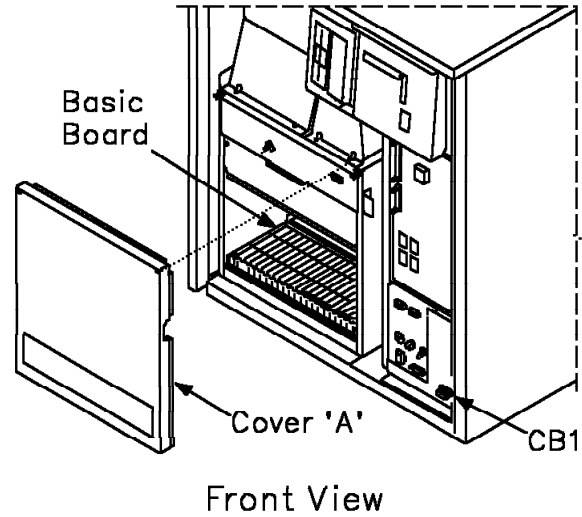
Warning: Follow the existing ESD procedures when handling logic parts.

- ___ 1. Open the rear system cover.
- ___ 2. Visually, check that there is no LIB1 installed where you have to install this feature.



10.2.1 Power OFF

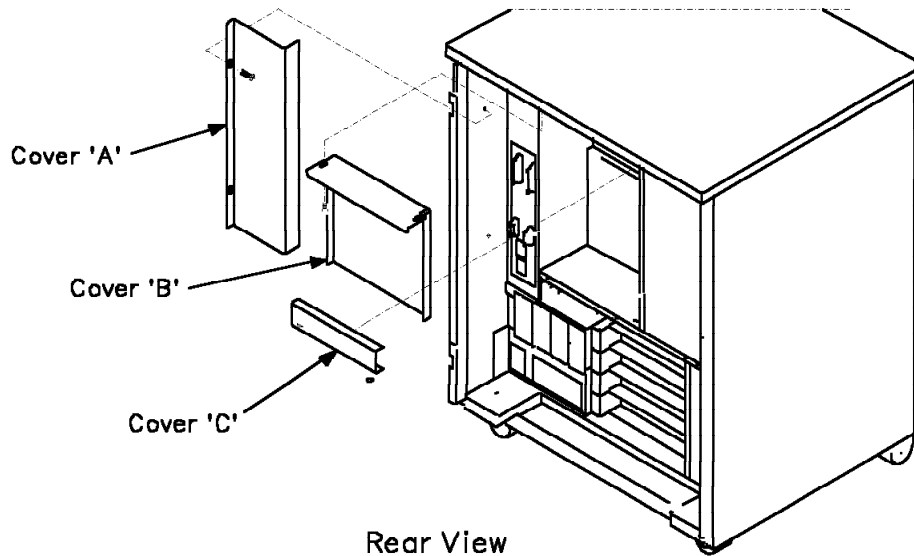
- 1. From the 3745 control panel, press the **Power OFF** key.
- 2. Open the front system cover and switch off **CB1**.



- If you are installing a LIB1 in position 3, go to section 10.2.4, "Installation of a LIB1 in position 3 (01L-A2)" on page 10.
- If you are installing a LIB1 in position 2, go to section 10.2.3, "Installation of a LIB1 in position 2 (01M-A1)" on page 8.
- If you are installing a LIB1 in position 1, continue.

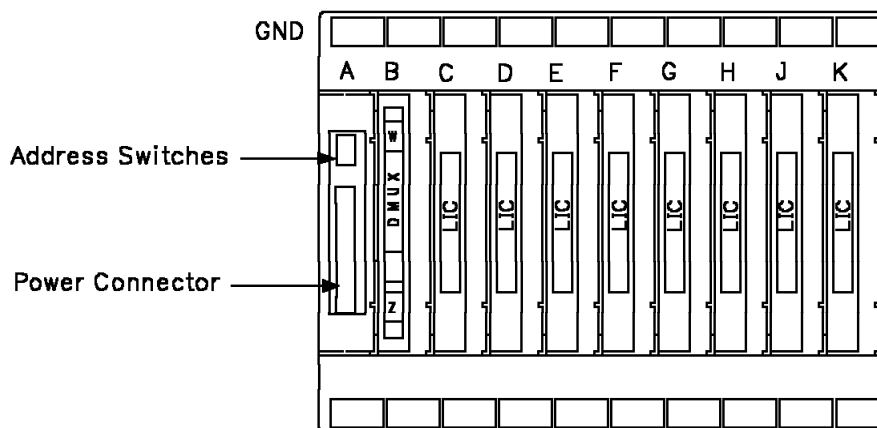
10.2.2 Installation of a LIB1 in position 1 (01M-A2)

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

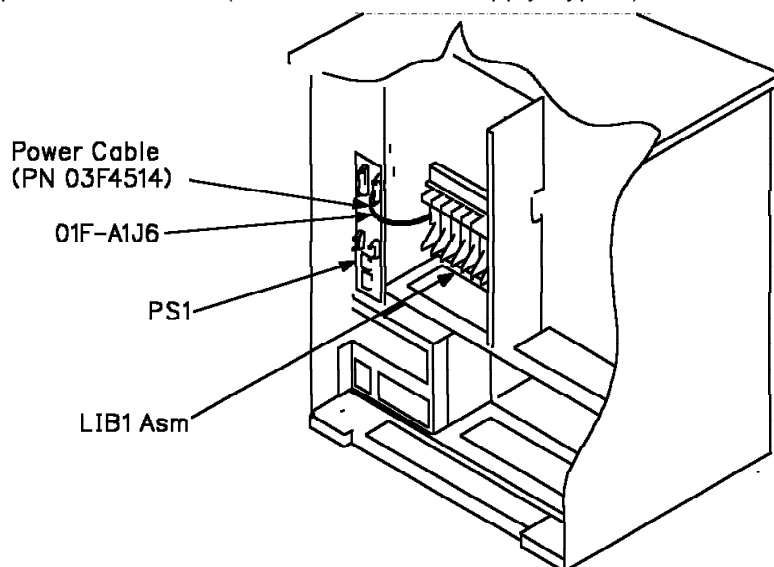


___ 2. Set the board address as follows:

LIB1 Position	Switch Positions				
	5	4	3	2	1
01M-A2	0	0	0	0	0



- ___ 3. Install the LIB1 ASM (bottom left position) with four screws (PN 1621210).
- ___ 4. Plug one end of the power cable (PN 03F4514) in board power connector and the other end in position 01F-A1J6 (rear of the Power Supply Type 1).



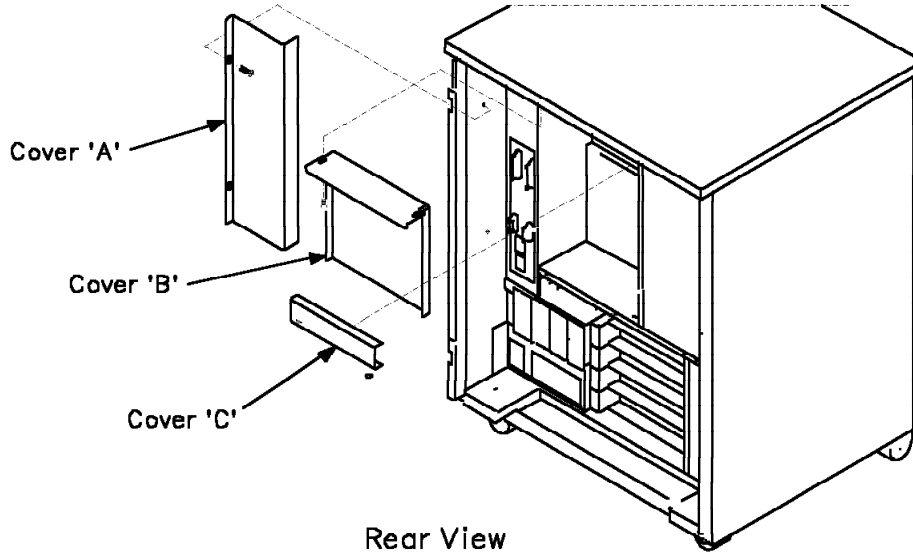
___ 5. Plug DMUX card in position B0 of the board.

Notes: 1. If you have to install TSS via others MESSs, you can perform their installation at this time.
 2. You may have spare scanner(s) installed on the machine with MUX cable(s) saved in the right side of basic board in front of the machine. If present, connect them.

• Go to Step 10.3, "Power ON" on page 13.

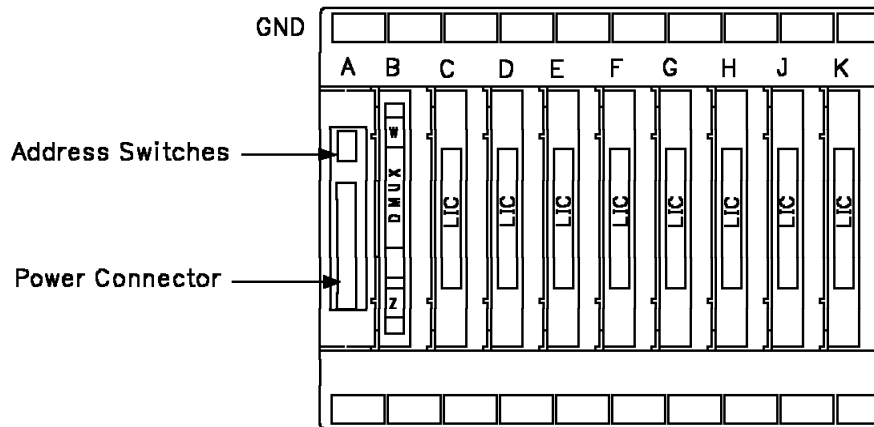
10.2.3 Installation of a LIB1 in position 2 (01M-A1)

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

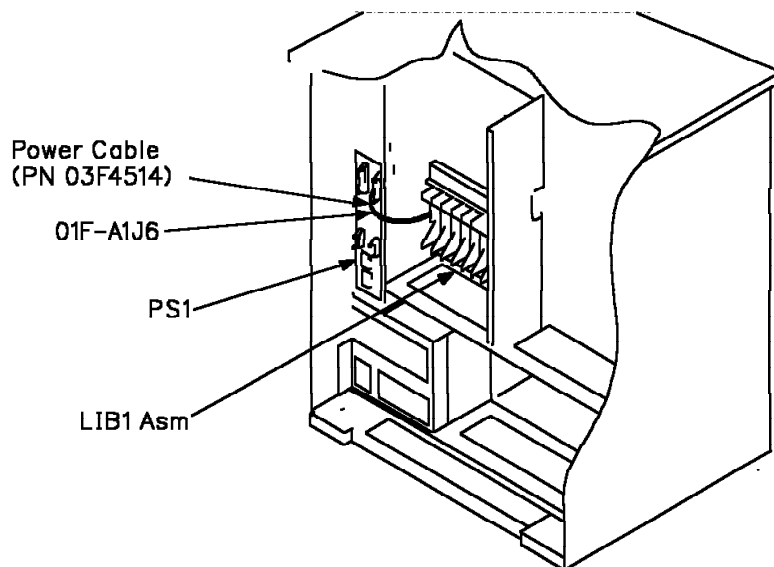


2. Set the board address as follows:

LIB1 Position	Switch Positions				
	5	4	3	2	1
01M-A1	0	0	0	0	1



- ___ 3. Install the LIB1 ASM (top left position) with four screws (PN 1621210).
- ___ 4. Plug one end of the power cable (PN 03F4514) in board power connector and the other end in position 01F-A1J5 (rear of the Power Supply Type 1).



- ___ 5. Plug DMUX card in position B0 of the board.

Notes:

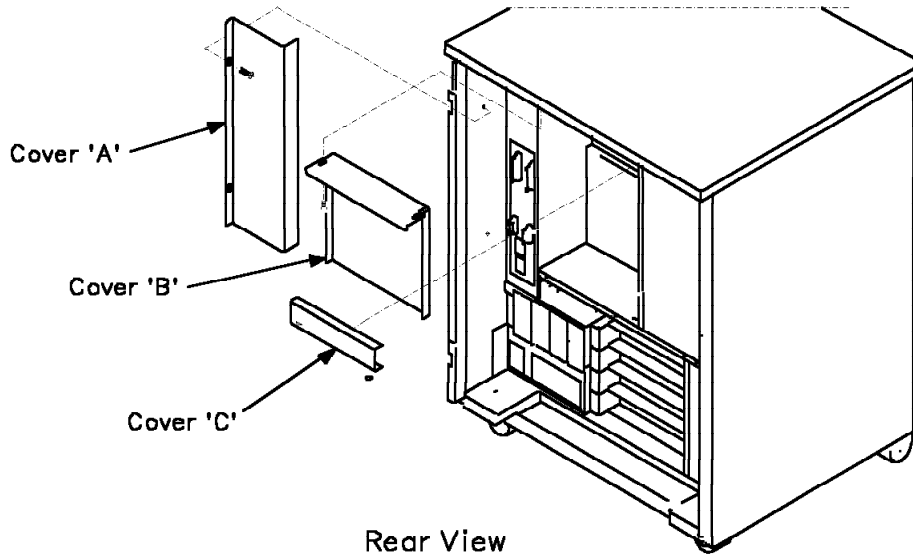
- 1. If you have to install TSS via others MESs, you can perform their installation at this time.
- 2. You may have spare scanner(s) installed on the machine with MUX cable(s) saved in the right side of basic board in front of the machine. If present, connect them.

- Go to Step 10.3, "Power ON" on page 13.

10.2.4 Installation of a LIB1 in position 3 (01L-A2)

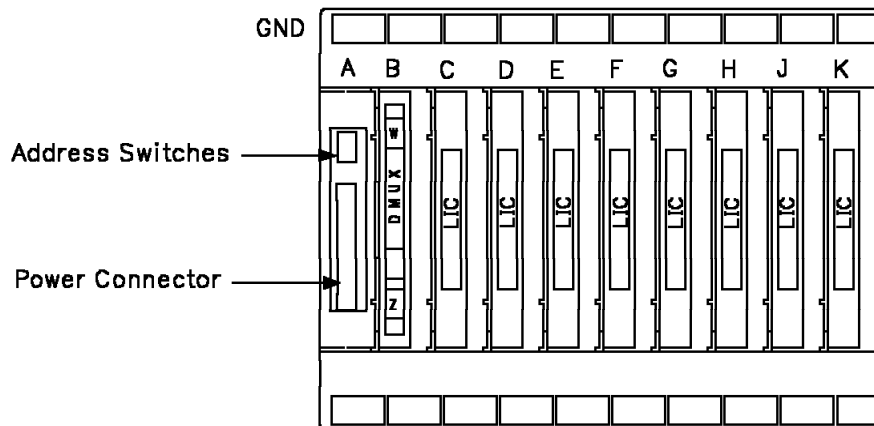
Note: To route the power cables of LIB1 position 3, you have to remove all LIC cards from LIB1 positions 1 and 2. Note the position of each LIC card.

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

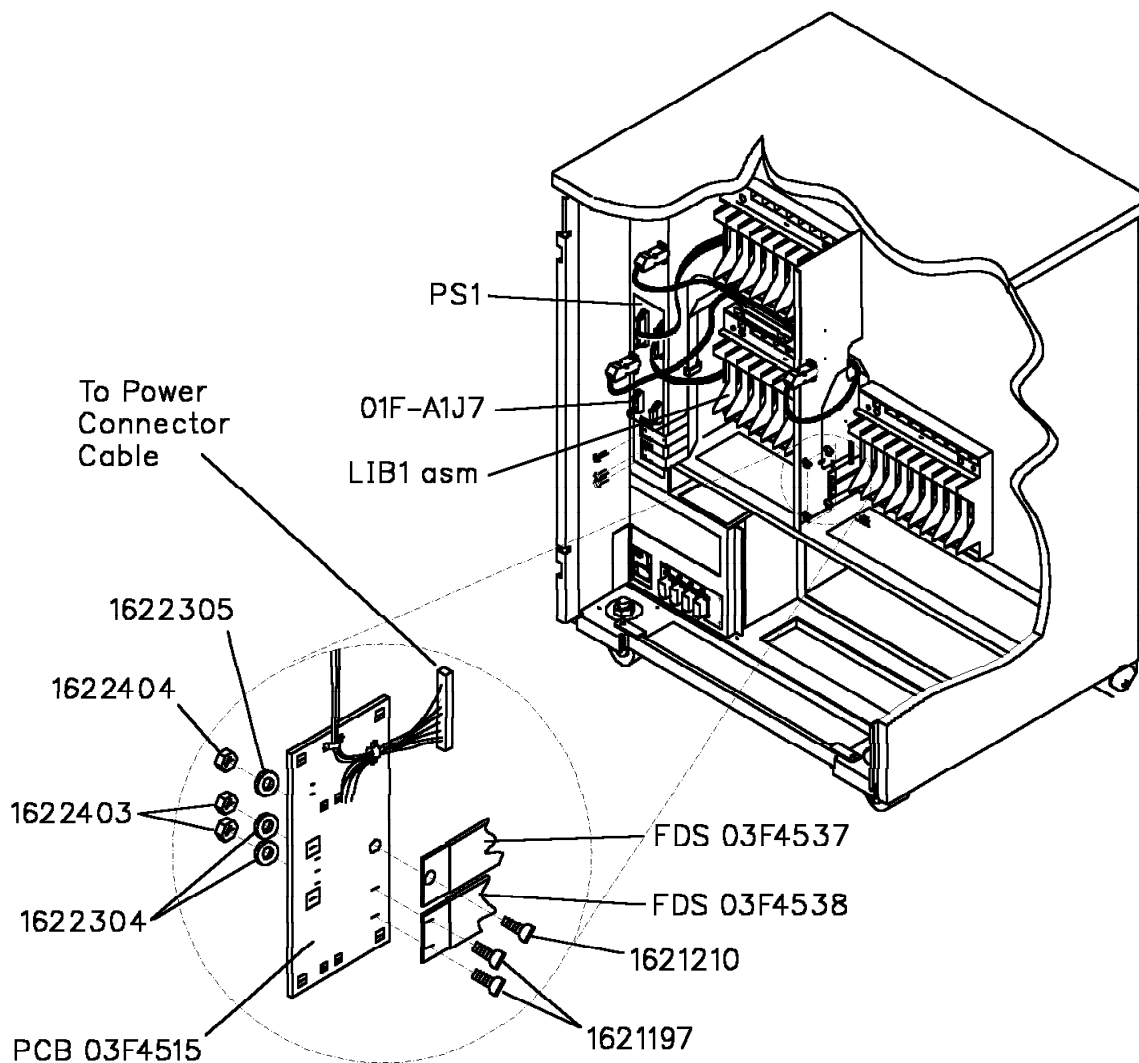


- ___ 2. Set the board address as follows:

LIB1 Position	Switch Positions				
	5	4	3	2	1
01L-A2	0	1	0	0	0

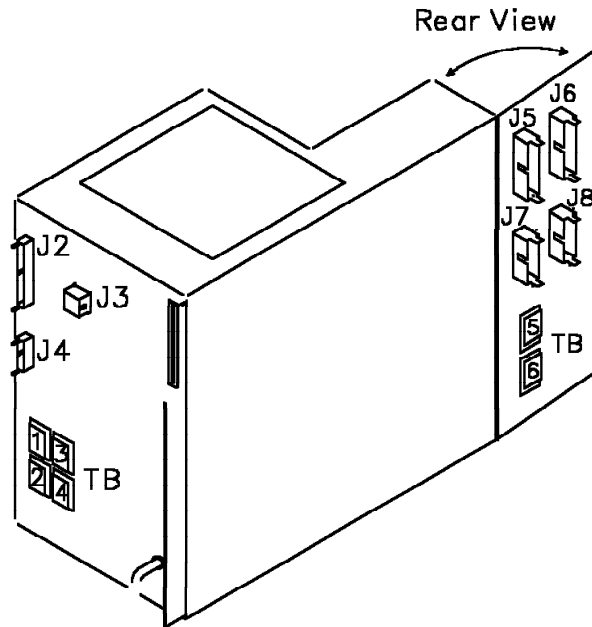


- ___ 3. Install the LIB1 ASM (bottom right position) with four screws (PN 1621210).
- ___ 4. Connect one end of the Printed Circuit Board (PCB) cable in board power connector. Route the other end towards the rear of PS1 and connect it in position 01F-A1J7.



5. On Printed Circuit Board (PCB), install the FDS cable (PN 03F4537) in position 01L-B2 TB1 using one screw (PN 1621210), a nut (PN 1622404), and a washer (PN 1622305).
6. On Printed Circuit Board (PCB), install the FDS cable (PN 03F4538) in position 01L-B2 TB2 using two screws (PN 1621197), two nuts (PN 1622403), and two washers (PN 1622304).
7. Route these two FDS cables towards the rear of PS1.
8. Install the PCB (03F4515) and secure it using the four standoffs installed.
9. Connect the FDS cable (PN 03F4537) in position 01F-A0 TB5 with one screw (PN 1621210).
10. Connect the FDS cable (PN 03F4538) in position 01F-A0 TB6 with two screws (PN 1621197).

Note: If LIB position 4 is installed, FDS cables are already connected on PS1.

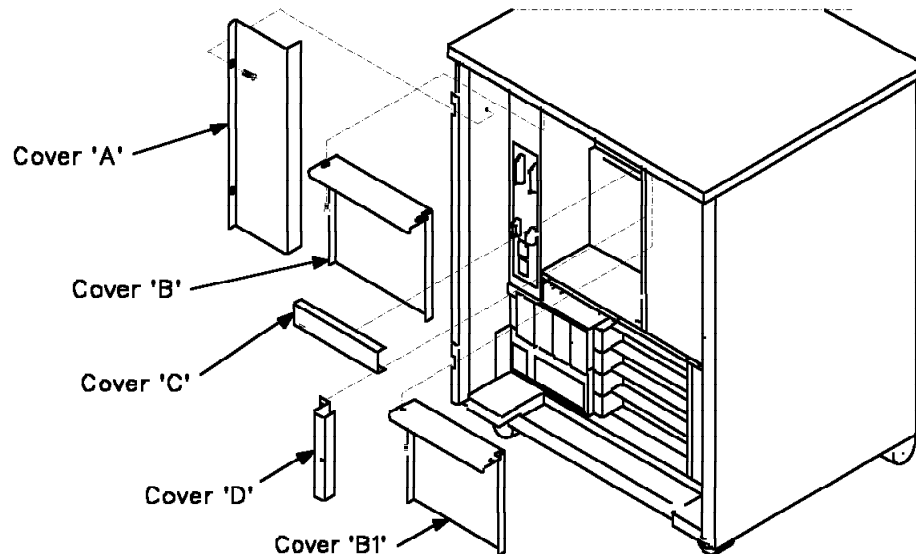


- ___ 11. Plug the DMUX card in position B0 of the board.

Notes:

- a. If you have to install TSS via others MESSs, you can perform their installation at this time.
- b. You may have spare scanner(s) installed on the machine with MUX cable(s) saved in the right side of basic board in front of the machine. If present, connect them.

- ___ 12. Install the cover 'D' (PN 03F4605) over the DMUX with two screws (PN 1621210).



- ___ 13. Reinstall the cover 'C'.
- ___ 14. Reinstall all LIC cards previously removed from LIB1 positions 1 and 2.
- ___ 15. Reinstall the cover 'A'.

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.

- If you have installed a **LIB1** in a **Model 17A**, go to **Step 10.3.2, "From the Service Processor."**
- Otherwise, continue.

10.3.1 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 11.1, "Save Files."**

10.3.2 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

11.1 Save Files

If you have installed additional features (LSS/LIC), refer to their Installation Instructions for files update.

- If you have installed an adapter in a **Model 17A**, go to **Step 11.3, "From the Service Processor."**
- Otherwise, continue.

11.2 From the 3745-170 Console

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

- Go to **Step 11.4, "General IPL."**

11.3 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**.

11.4 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.

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- 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 Installation (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.

Table Definitions

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PP	AFTRINS2	14	After Installation (steps 12-15)

Processing Options

Runtime values:

Document fileid	P03F5072 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	94.02.03
Time	09:39:11
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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LOGONLC1
LOGONSP1
LOGOFFSP
AFTRINS2