

Field Feature Bill of Material

PN 66X0046

**REMOVAL of a LIC Card
LIC1 (FC 4911) or LIC3 (FC 4931)
or LIC4A (FC 4941) or LIC4B (FC 4942)
from IBM 3745 Models X10/X1A and 3746 Models L13/L14/L15**

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3745 FFBM	PN 66X0046 1 of 8	EC A47343 15DEC87	EC A47348 30MAR88	EC A73200 20JAN89	EC A98318 05AUG91	EC C38411 18JUN93
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3745
FFBM

PN 66X0046 2 of 8

EC A47343 15DEC87

EC A47348 30MAR88

EC A73200 20JAN89

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Before Removal (steps 1-8)

1.0 Machines Affected

3745 Models 210/21A/310/31A/410/41A/610/61A
and 3746 Models L13/L14/L15.

2.0 Related BMs and ECs

None.

3.0 BMs to be Used

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

3.1 FFBMs to be Used

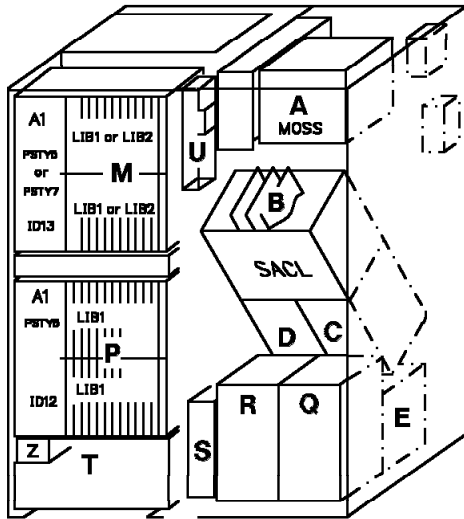
- 66X0046 - Installation Instructions
- 66X0045 - LIC card removal.

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 parts were received.
3. With the *HONE installation sheet* determine from which line adapter the LIC will be removed and its position. Identify the LIC unit and the position in the LIC unit.
4. The LIC can be removed from boards:
 - 01P-B1, 01P-B2, 01M-B1, 01M-B2 located in 3745
 - 04B-B1, 04B-B2, 04D-B1, 04D-B2, 04E-B1, 04E-B2, 04G-B1, 04G-B2 located in 3746 Model L13
 - 05D-B1, 05D-B2, 05G-B1, 05G-B2, 05B-B1, 05B-B2, 05E-B1, 05E-B2 located in 3746 Model L14
 - 06D-B1, 06D-B2, 06G-B1, 06G-B2, 06B-B1, 06B-B2, 06E-B1, 06E-B2 located in 3746 Model L15.
5. You can also refer to page YZ839 to determine the LA/DMUX card relationship and DMUX/LINE unit position.

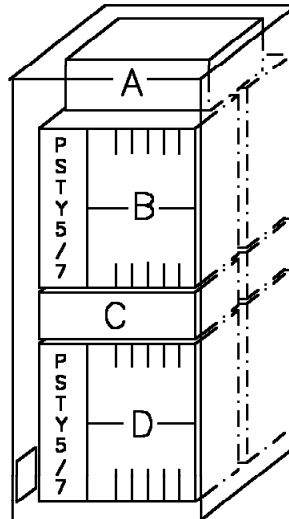
3745 FFBM	PN 66X0046 3 of 8	EC A47343 15DEC87	EC A47348 30MAR88	EC A73200 20JAN89	EC A98318 05AUG91	EC C38411 18JUN93
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3745 Frame 01

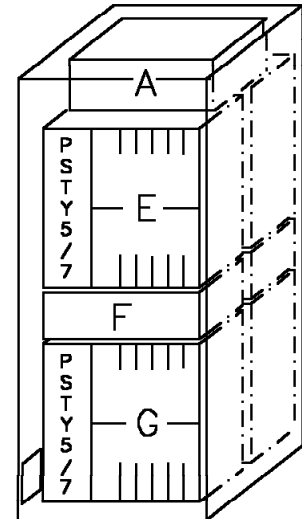


Rear View

3746 L13, L14, or L15



Front View



Rear View

6. Tables to determine the Area/Board position according to the *HONE installation sheet*.

In 3745:

LIC POS.	D	E	F	G	H	J	K	L
01M-B1	AREA 7				AREA 8			
01M-B2	AREA 5				AREA 6			
01P-B1	AREA 3				AREA 4			
01P-B2	AREA 1				AREA 2			

In 3746 L13.

LIC POS.	D	E	F	G	H	J	K	L
04B-B1	AREA 11				AREA 12			
04B-B2	AREA 9				AREA 10			
04D-B1	AREA 3				AREA 4			
04D-B2	AREA 1				AREA 2			
04E-B1	AREA 15				AREA 16			
04E-B2	AREA 13				AREA 14			
04G-B1	AREA 7				AREA 8			
04G-B2	AREA 5				AREA 6			

3745 FFBM	PN 66X0046 4 of 8	EC A47343 15DEC87	EC A47348 30MAR88	EC A73200 20JAN89	EC A98318 05AUG91	EC C38411 18JUN93
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In 3746 L14.

LIC POS.	D E F G	H J K L
05B-B1	AREA 11	AREA 12
05B-B2	AREA 9	AREA 10
05D-B1	AREA 3	AREA 4
05D-B2	AREA 1	AREA 2
05E-B1	AREA 15	AREA 16
05E-B2	AREA 13	AREA 14
05G-B1	AREA 7	AREA 8
05G-B2	AREA 5	AREA 6

In 3746 L15.

LIC POS.	D	E	F	G	H	J	K	L
06B-B1	AREA 11				AREA 12			
06B-B2	AREA 9				AREA 10			
06D-B1	AREA 3				AREA 4			
06D-B2	AREA 1				AREA 2			
06E-B1	AREA 15				AREA 16			
06E-B2	AREA 13				AREA 14			
06G-B1	AREA 7				AREA 8			
06G-B2	AREA 5				AREA 6			

5.0 Programming

5.1 Diagnostics Programs

To reflect this change, the CDF will be updated in step 11.0. This is essential to allow internal diagnostics to be run properly.

5.2 System Programs

The customer has to update the control program to implement this change.

6.0 Purpose and Description

6.1 Purpose

Remove LIC 1 (FC 4911), or LIC 3 (FC 4931), or LIC 4A (FC 4941), or LIC 4B (FC 4942) feature.

6.2 Description

LIC card removal.

7.0 Removal Time

FFBM Used	Machine Hours	System Hours
66X0045	0.3	0.0
Reconfiguration	0.4	0.0
Total Time	0.7	0.0

8.0 Tools/Material Required

None.

3745 FFBM	PN 66X0046 5 of 8	EC A47343 15DEC87	EC A47348 30MAR88	EC A73200 20JAN89	EC A98318 05AUG91	EC C38411 18JUN93
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Removal (steps 9-11)

9.0 Safety

- Since the LIC is HOT PLUGGABLE, the LIC removal will be done with the machine POWER ON.
- 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 deactivate all lines connected on the Line Adapter identified in step 4.0, "Preparation" on page 3.
- To deactivate all resources of the 3746 Model 900, if attached.
- For the maintenance password.
- To logoff the console, if not already done.

- If you are removing a LIC card from a 3745-X1A or from a 3746 line frame connected to a 3745-X1A, go to Step 10.1.2, "Log the Service Processor on."
- Otherwise, continue.

10.1.1 Log the 3745-X10 Console on

- 1. Press **F4**.
- 2. Enter the maintenance password, press **Send**.

- Go to Step 10.1.4, "Display the CDF."

10.1.2 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**.

10.1.3 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 the **MOSS Console** screen.

10.1.4 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 **7** (LA), press **Send/Enter**.

Check for the presence of a **Y** for the LIC position to be removed. Check also the LIC type (1, 3, or 4).

Note: If the LA supports more than 4 LICs (extend = yes on display), press **F8** to display the presence status of LIC positions 5 through 8 (they will be numbered 1 through 4 on display).

- 4. Press **F1**.

10.2 Hardware Removal

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

Open system cover where LIC(s) is to be removed.

10.2.1 Card Removal

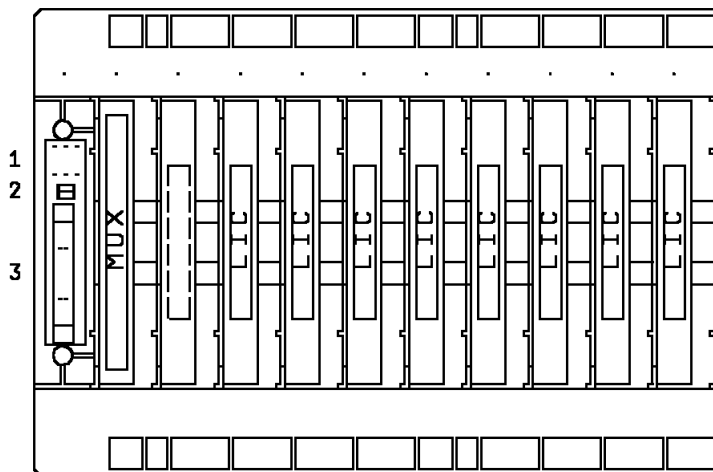
- ___ 1. Based on the new machine configuration, locate the LIC Unit.
- ___ 2. Identify the board and card position with tables in step 4.0, "Preparation" on page 3.

Warning

Hazardous voltages can exist on the ground shields of cables due to various faults. When installing LIC cables, verify that the ground potential difference between the cable shields and the 3745/3746 frame ground is no more than 1.0 VAC. If the voltage is exceeded, notify the customer immediately and do not proceed until the problem is corrected. Avoid removal or reconfiguration work during lightning activity.

- ___ 3. Disconnect the external LIC cable(s) from LIC top card connector(s) and remove cable(s) from the machine.
- ___ 4. Unfasten the front thumbscrew of the LIC and remove the LIC.

The thumbscrew is BROWN on a LIC1, BLUE on a LIC3, GREEN on a LIC4.



- ___ 5. Close system covers.

3745 FFBM	PN 66X0046 7 of 8	EC A47343 15DEC87	EC A47348 30MAR88	EC A73200 20JAN89	EC A98318 05AUG91	EC C38411 18JUN93
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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**.

11.1.1 Update the CDF

- ___ 1. Enter **CDF**, press **Send/Enter**.
Note: If NCP is not loaded, use CDF verify to update the CDF.
- ___ 2. Enter **7** (LA), press **Send/Enter**.
A **Y** is still present in front of the LIC you have just removed.
- ___ 3. Press **F5** for update (not available if NCP is not loaded).
- ___ 4. Enter **2** (Delete LIC), press **Send/Enter**.
- ___ 5. Enter the LIC position in the scanner, press **Send/Enter**.

When **CDF LIC CHANGE COMPLETED** is displayed, press **F6**.

11.1.2 Display the CDF

- ___ 1. Press **F7**.
An **N** is now displayed in front of the LIC you have removed and the LIC number is blanked.
- ___ 2. Press **F1**.

11.1.3 Run the Diagnostics

None.

11.1.4 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**.

11.1.5 Logoff the Console

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			
id	File	Page	References
TABLE	P66X0046 SCRIPT	3	4.0, Preparation 6, 7
NN	P66X0046 SCRIPT	6	10.1.1, Log the 3745-X10 Console on
SP1	P66X0046 SCRIPT	6	10.1.2, Log the Service Processor on 6
CDF1	P66X0046 SCRIPT	6	10.1.4, Display the CDF 6
AA	P66X0046 SCRIPT	8	11.0, Test Procedures
LL	P66X0046 SCRIPT	8	11.1.1, Update the CDF
PP	AFTRINSR	8	After Removal (steps 12-15)

Processing Options

Runtime values:

Document fileid	P66X0046 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	93.06.18
Time	14:57:54
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

Page 6	LOGONLC3
Page 6	LOGONSP2
Page 6	PRESSEND
Page 7	NOTE1
Page 8	AFTRINSR