

Field Feature Bill of Material

PN 66X0044

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

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Before Installation (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 Installed

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

3.1 Select the following FFBM.

- 66X0044 Installation Instructions
- 66X0043 LIC 1 card and/or
- 66X0049 LIC 3 card and/or
- 66X0051 LIC 4A card and/or
- 66X0053 LIC 4B card.

3.2 As required FFBMs

- 66X1396 LIC 1 spare (with the 1st LIC 1 on 3745 Models 210 and 410 only)
- 66X0059 LIC 3 wrap plug/spare LIC (with the 1st LIC 3)
- 66X1397 LIC 4A spare (with the 1st LIC 4Aon 3745 Models 210 and 410 only).

3.3 For EMEA, select one of the following FFBMs

- 66X0048 LIC 1 ext. cable group (except Belgium)
- 66X1351 LIC 1 ext. cable group (Belgium only)
- 66X0050 LIC 3 ext. cable group (except France)
- 66X1119 LIC 3 ext. cable group (France only)
- 66X0052 LIC 4A ext. cable group

- 66X0054 LIC 4B ext. cable group (except France)
- 66X0058 LIC 4B ext. cable group (France only).

Note: In Domestic and APG, external cables are supplied thru the Customer Order Chart.

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. With the Hone Installation sheet and the Customer Configuration sheet determine which line adapter will support the LIC. Identify the DMUX/LINE unit position, and the LIC position in LIC unit.
- 4. The LIC can be installed in 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.

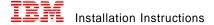
Note: The total LINE "weight" of all lines connected to a SCANNER must be less or equal to 100.

3745 FFBM PN 66X0044 3 of 10 See EC | EC A73200 History | 20JAN89

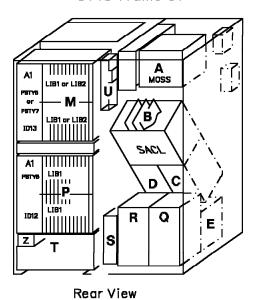
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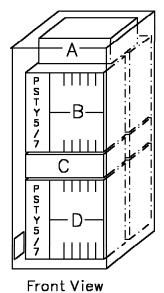
EC E46544 17JAN97

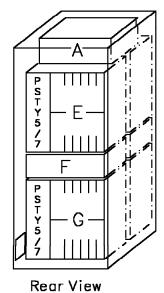


3745 Frame 01



3746 L13, L14, or L15





6. Tables to determine the Area/Board position according to the *Hone Installation sheet*.

In 3745:

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

In 3746 L13.

LIC POS.	D E F G	н Ј К 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

See EC	EC A73200	EC A98318	EC C38411	EC E46544
History	20JAN89	05AUG91	18JUN93	17JAN97

In 3746 L14.

LIC POS.	D E F G	н Ј К 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	Н	J	K	L
06B-B1	AF	REA	11		AF	REA	12	
06B-B2	AF	REA	9		AF	REA	10	
06D-B1	AF	REA	3		AF	REA	4	
06D-B2	AF	REA	1		AF	REA	2	
06E-B1	AF	REA	15		AF	REA	16	
06E-B2	AF	REA	13		AF	REA	14	
06G-B1	AF	REA	7		AF	REA	8	
06G-B2	AF	REA	5		AF	REA	6	

5.0 Programming

5.1 Diagnostic Programs

CDF to reflect this change will be performed in step 11.0. This is essential to allow internal diagnostics to be run properly.

5.2 System Programs

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

6.0 Purpose and Description

6.1 Purpose

Install additionnal LIC 1 (FC 4911) or LIC 3 (FC 4931) or LIC 4A (FC 4941) or LIC 4B (FC 4942).

6.2 Description

LIC card installation.

7.0 Installation Time

FFBMs	Machine Hours	System Hours	Nbr. of CE
66X0043 or 66X0049 or 66X0051 or 66X0053	0.3	0.0	1
Test Time	0.7	0.0	1
Total Time	1.0	0.0	1

8.0 Tools/material Required

None.

3	745	
F	FBM	

PN 66X0044
5 of 10

See EC	EC A73200	EC A98318	EC C38411	EC E46544
History	20JAN89	05AUG91	18JUN93	17JAN97



Installation (Steps 9-11)

9.0 Safety

- Since the LIC is HOT PLUGGABLE, the LIC installation 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 Installation

Before the installation, ask the customer:

1. To deactivate all lines connected on the Line Adapter identified in step 4.0, "Preparation" on page 3.

- Attention -

Be sure all affected lines are deactivated, this will prevent troubles at line adapter restart.

- 2. For the maintenance password.
- 3. To logoff the console, if not already done.
 - If you are installing a LIC card in a 3745-X1A or in 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

- Press **F4**
- __ 2. Enter the maintenance password, then press **Send**
 - Go to Step 10.1.3, "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.
- __ 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**.

Wait for MOSS Console screen.

10.1.3 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 an N for the LIC position to be installed.

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.

10.1.4 Disconnect TSS from NCP

- 1. Enter TSS (TSS services), press Send/Enter.
- 2. Enter 1 (SELECT), press Send/Enter.
- __ 3. Enter the number of the adapter, press Send/Enter.
 Move the cursor to data entry area then,
- 4. Enter 3, press Send/Enter.
- __ 5. Enter **DS**, press **Send/Enter**.
- Press F1.

	PN 66X0044 6 of 10		See EC History	EC A73200 20JAN89	EC A98318 05AUG91	EC C38411 18JUN93	EC E46544 17JAN97
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10.1.5 Run the Diagnostics

- 1. Enter CDG, press Send/Enter.
- ___ 2. Enter 5 (TSS), press Send/Enter.
- ___ 3. Enter the LA, press Send/Enter.
- When NO ERROR FOUND is displayed, press F1.
- If an error is reported, see the MIP, Chapter 2, and follow the appropriate procedure.

10.2 Hardware Installation

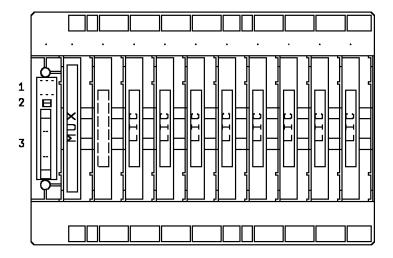
Warning: Follow existing ESD procedures when handling logic parts.

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

10.2.1 Card Installation

- 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.
 - 3. Insert the LIC cassette in proper location and tighten the front thumbscrew.

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



- 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 installation or reconfiguration work during lightning activity.

3745	F
FFBM	7

PN 66X0044 7 of 10	See EC	EC A73200	EC A98318	EC C38411	EC E46544
7 of 10	History	20JAN89	05AUG91	18JUN93	17JAN97



10.2.2 LIC Cables

- 1. Connect external LIC cable(s) in LIC top card connector(s) and route them out of the machine.
- 2. Close system covers.

11.0 Test Procedures

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

11.1 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. An N is still present in front of the LIC you have just installed.
- 3. Press F5 for update (not available if NCP is not loaded).
- ___ 4. Enter 7 (ADD LIC), press Send/Enter.
- 5. Enter the LIC position in the scanner, press Send/Enter.

When CDF LA COMPLETED is displayed, press

11.2 Display the CDF

1. Press **F7**.

A Y is now displayed in front of the LIC you have just installed.

2. Verify the cable and clock info.

C = 0 not present I = 0 not present

1 internal 1 wrap block LIC1, or 4 2 external 2 wrap cable LIC3

3 local 4 modem

5 direct attached

6 autocall

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

3. Press **F1**.

11.3 Run the Diagnostics

- __ 1. Enter CDG, press Send/Enter.
- 2. Enter 5 (TSS), press Send/Enter. Enter the LA number, press Send/Enter.
- · When NO ERROR FOUND is displayed, press
- If an error is displayed, see the MIP, Chapter 2, and follow the appropriate procedure.

11.4 Re-IML the Scanner

- 1. Enter IMS, press Send/Enter.
- 2. Enter **SXX** (XX being the LA number), press Send/Enter. When the function is completed, the scanner is connected to NCP.
- 3. Press **F1**.

11.5 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.

11.6 Logoff the Console

Ask the customer to reactivate all lines on the scanner.

Attention —

If one of the affected line was not deactivated at step 1, on 10.0, "Details of Installation" on page 6, you may be forced to re-load the NCP.

3745	PN 66X0044	
FFBM	8 of 10	

See EC	EC A73200	EC A98318	EC C38411	EC E46544
History	20JAN89	05AUG91	18JUN93	17JAN97

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.