

Field Feature Bill of Material

PN 66X1358

INSTALLATION of a LIC Card LIC5 (FC 7865) or LIC6 (FC 7825) in IBM 3745 Models X10/X1A and 3746 Models L13/L14/L15

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3745 FFBM	PN 66X1358 1 of 10	EC A47343 15DEC87	EC A47348 30MAR88	EC A73200 20JAN89	EC A98318 05AUG91	EC C38411 18JUN93
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3745
FFBM

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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

2.1 Prerequisite

FEATURE: Room available in LIC unit 2.

2.2 Concurrent

(Must be installed together)
None.

2.3 Companion

(May be installed separately)
None.

3.0 BM(s) to be Installed

3.1 FFBM to be Installed

- 66X1358 - Installation Instructions
- 66X1371 - LIC 6 card US/Canada only
- or 26F0220 - LIC 5 card Denmark
- or 26F0261 - LIC 5 card Austria
- or 26F0263 - LIC 5 card Norway
- or 26F0265 - LIC 5 card Finland
- or 66X1379 - LIC 5 card France
- or 66X1383 - LIC 5 card Sweden
- or 66X1384 - LIC 5 card Netherlands
- or 66X1385 - LIC 5 card Switzerland
- or 66X1387 - LIC 5 card Chile
- or 66X1390 - LIC 5 card New Zealand
- or 66X1357 - LIC 5 card Other countries

- 66X1361 - LIC 5 telephone cord US/Canada only
- 66X0086 - LIC 5 telephone cord US/Canada
- 66X0087 - LIC 5 telephone cord UK
- 66X0089 - LIC 5 telephone cord Bel/Lux
- 66X0090 - LIC 5 telephone cord France
- 66X0091 - LIC 5 telephone cord Italy
- 66X1378 - LIC 5 telephone cord Japan
- 66X1114 - LIC 5 telephone cord Denmark
- 66X0093 - LIC 5 telephone cord Sweden
- 66X1377 - LIC 5 telephone cord Netherlands
- 66X1103 - LIC 5 telephone cord Switzerland
- 66X1104 - LIC 5 telephone cord Austria
- 66X1105 - LIC 5 telephone cord Israel
- 66X1106 - LIC 5 telephone cord New Zealand
- 66X1108 - LIC 5 telephone cord South Africa
- 66X1110 - LIC 5 telephone cord Hong Kong
- 66X1112 - LIC 5 telephone cord Other countries

3.2 Additional FFBM with the First LIC 6 or LIC 5 in the System

- 66X0077 - LIC 6 wrap plug US/Canada only
- 66X0075 - LIC 5 wrap plug Japan
- 66X0076 - LIC 5 wrap plug Austria
- 66X0077 - LIC 5 wrap plug US/Canada
- 66X0078 - LIC 5 wrap plug France
- 66X0079 - LIC 5 wrap plug Bel/Lux
- 66X0080 - LIC 5 wrap plug Hong Kong
- 66X0081 - LIC 5 wrap plug Italy
- 66X0082 - LIC 5 wrap plug Switzerland
- 66X0083 - LIC 5 wrap plug UK
- 66X1115 - LIC 5 wrap plug Israel
- 66X1116 - LIC 5 wrap plug Netherlands

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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 B/M(s) to be installed to determine whether all parts have been received.
3. The LIC can be installed in boards:
 - 01M-B1, 01M-B2 located in 3745 base frame.
 - 04B-B1, 04B-B2, 04D-B1, 04D-B2, 04E-B1, 04E-B2, 04G-B1, 04G-B2 located in 3746 Model L13.
 - 05B-B1, 05B-B2, 05D-B1, 05D-B2, 05E-B1, 05E-B2, 05G-B1, 05G-B2 located in 3746 Model L14.
 - 06B-B1, 06B-B2, 06D-B1, 06D-B2, 06E-B1, 06E-B2, 06G-B1, 06G-B2 located in 3746 Model L15.

4. You can also refer to page YZ839 to determine the LA/DMUX card relationship and DMUX/LINE Unit position.

Note: Ensure with customer that the total line "weight" of all lines connected to a Scanner is less or equal to 100.

5. LIC 6 can be plugged only in position C, E, G, and J of LIC board. Obtain from customer the LIC 6 speed for proper switch setting.
6. Using the *HONE Configurator sheet* and the following tables determine which Line Adapter will support the LIC.
 - Table to determine the area/board position in 3745 according to the *Hone installation sheet*.

LIC Position	C	D	E	F	G	H	J	K
01M-B1	AREA 6							
01M-B1	AREA 5							

- Table to determine the area/board position in 3746 L13 according to the *Hone installation sheet*.

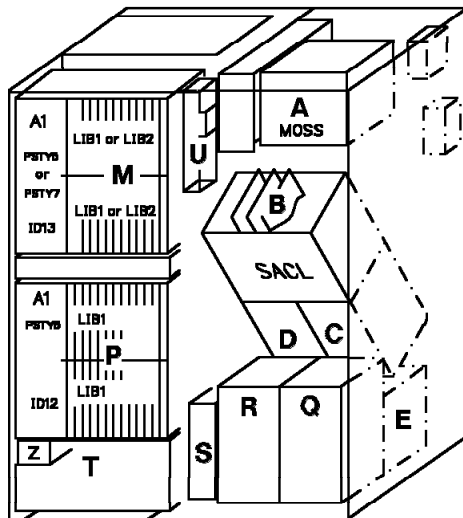
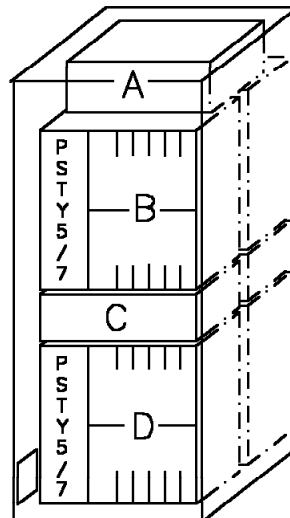
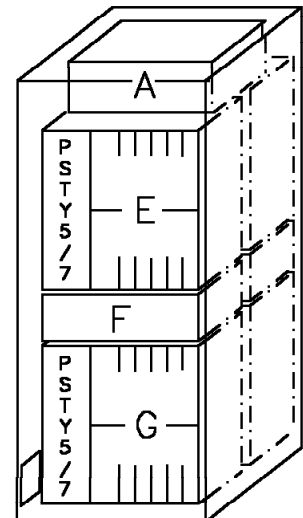
LIC Position	C	D	E	F	G	H	J	K
04B-B1	AREA 10							
04B-B2	AREA 9							
04D-B1	AREA 2							
04D-B2	AREA 1							
04E-B1	AREA 14							
04E-B2	AREA 13							
04G-B1	AREA 6							
04G-B2	AREA 5							

- Table to determine the area/board position in 3746 L14 according to the *Hone installation sheet*.

LIC Position	C	D	E	F	G	H	J	K
05B-B1	AREA 10							
05B-B2	AREA 9							
05D-B1	AREA 2							
05D-B2	AREA 1							
05E-B1	AREA 14							
05E-B2	AREA 13							
05G-B1	AREA 6							
05G-B2	AREA 5							

- Table to determine the area/board position in 3746 L15 according to the *Hone installation sheet*.

LIC Position	C	D	E	F	G	H	J	K
06B-B1	AREA 10							
06B-B2	AREA 9							
06D-B1	AREA 2							
06D-B2	AREA 1							
06E-B1	AREA 14							
06E-B2	AREA 13							
06G-B1	AREA 6							
06G-B2	AREA 5							

3745 Frame 01

Rear View
3746 L13, L14, or L15

Front View

Rear View

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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 additional LIC 5 (FC 7865) or LIC 6 (FC 7825).

6.2 Description

LIC card installation.

7.0 Installation Time

BM's Installed	Machine Hours	System Hours
LIC cassette and telephone cord	0.3	0.0
Test Time	0.7	0.0
Total Time	1.0	0.0

8.0 Tools/Material Required

None.

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:

- ___ • To deactivate all lines connected on the Line Adapter identified in step 4.0, "Preparation" on page 4.
- ___ • To deactivate all resources of the 3746 Model 900, if attached.
- ___ • For the maintenance password.
- ___ • To logoff the console, if not already done.

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 LIC card in a 3745-X1A or in a 3746 line frame connected to a 3745-X1A, go to Step 10.1.3, "Log the Service Processor on" on page 7.
- Otherwise, continue.

10.1.2 Log the 3745-X10 Console on

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

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- Go to Step 10.1.5, “Display the CDF” on page 7.

10.1.3 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**.

10.1.4 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.

10.1.5 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**.

10.1.6 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**.
- ___ 6. Press **F1**.

10.1.7 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.

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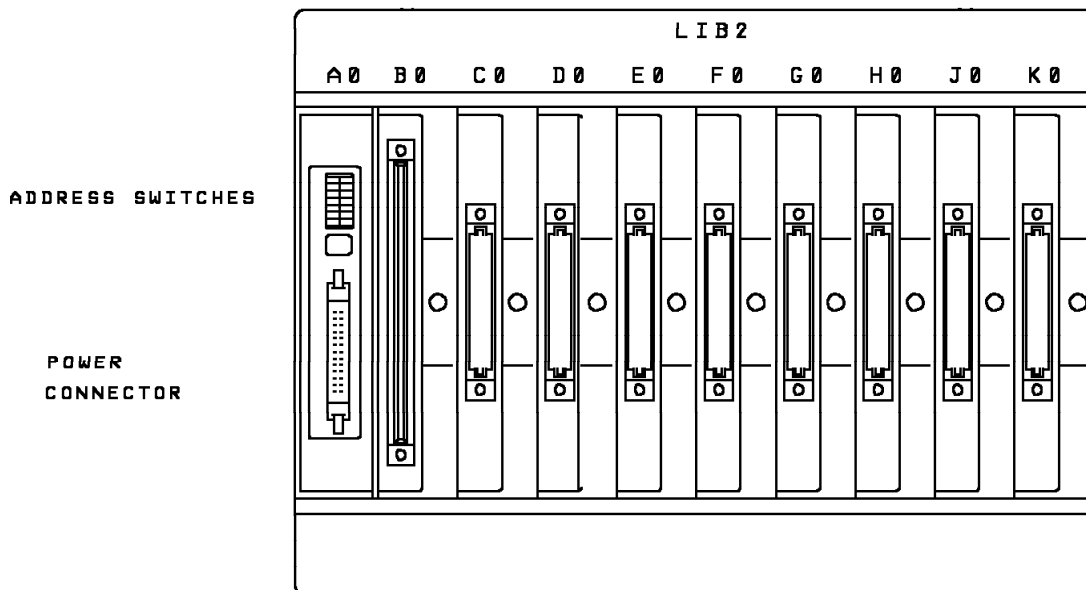
10.2 Hardware Installation

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 in step 4.0, "Preparation" on page 4.
- ___ 3. On a LIC6 cassette, set the switch to 56KPS or 19.2/9.6 KBPS as defined in step 4.0, "Preparation" on page 4.
- ___ 4. Insert the LIC cassette in proper location and tighten the front thumbscrew.



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.

- ___ 5. Connect telephone cables in port 0 and port 1 connectors of LIC (only port 0 for LIC6) and route them out of the machine.
- ___ 6. Close system covers.

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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**.
 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 **F6**.

11.1.2 Display the CDF

- 1. Press **F7**.
 A **Y** is now displayed in front of the LIC you have just installed.
Note: Press **F8** to display the status for LIC positions 5 through 16.
- 2. Press **F1**.

11.1.3 Run the Diagnostics

- 1. Enter **CDG**, press **Send/Enter**.
- 2. Enter **5** (TSS).
 Enter the **LA** number, press **Send/Enter**.
- 3. Enter the **Port** number (0 through 31) for the scanner in the line field, press **Send/Enter**.
 - When **NO ERROR FOUND** displayed, press **F1**.
 - If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

11.2 LIC wrap test

- 1. Unplug the modem cables from the cassette and install wrap plug (PN 11F4815) (shipped with the first LIU2), or plug the appropriate wrap plug at the cable end.
- 2. On diag menu:
 - a. Enter **RH59** in diag area.
 - b. Enter the LA number in 'adp' field.
 - c. Enter the **Port Number** (0 to 31) for the LA under TEST in line field, press **Send/Enter**.
Note: If one scanner drives all LICs in enclosure, port number is 0 to 31. If 2 scanners drive the LICs in enclosure, port number is 0 to 15 for each LA.
 - d. Repeat this action for all new installed cassettes.
- When **NO ERROR FOUND** displayed, press **F1**.
- If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

11.2.1 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**.

11.2.2 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**.

11.2.3 Logoff the Console

Ask the customer to reactivate all lines on the scanner. The LIC is now available for customer, ask him to set all parameters with the PKD as described in *Connection and Integration* manual part 3.

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.

Headings			
id	File	Page	References
TABLE	P66X1358 SCRIPT	4	4.0, Preparation 6, 8, 8
OO	P66X1358 SCRIPT	6	10.1.1, From the 3745 Control Panel
NN	P66X1358 SCRIPT	6	10.1.2, Log the 3745-X10 Console on
SP1	P66X1358 SCRIPT	7	10.1.3, Log the Service Processor on 6
CDF1	P66X1358 SCRIPT	7	10.1.5, Display the CDF 7
AA	P66X1358 SCRIPT	9	11.0, Test Procedures
LL	P66X1358 SCRIPT	9	11.1.1, Update the CDF
PP	AETRINS2	10	After Installation (steps 12-15)

Processing Options

Runtime values:

Document fileid	P66X1358 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	93.06.18
Time	15:01:16
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 7	LOGONSP2
Page 7	PRESSEND
Page 9	NOTE1
Page 10	AFTRINS2