

REMOVAL OF AN ETHERNET LAN ADAPTER (FC 4781)

Written by	JP AUBIN
Checked by	G HOUSIEAUX
Approved by	F CHARRON
Reviewed by	L WILLIAMS

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BEFORE INSTALLATION (Steps 1-8)

1.0 Machines Affected

3745 Models 130/150/170.

2.0 Prerequisites/Concurrent/Companion

None.

3.0 B/M(S) to be Installed

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

3.1 Install the Following B/Ms

03F5059 - ELA Removal (FC 4781)
76F9098 - Installation instructions

3.2 As Required FFB/M

B/M 03F5056 - BPC1 card installation

4.0 Preparation

1. Familiarize yourself with the purpose and details of the installation instruction prior to obtaining the customer machine time commitment.
2. Check all the items and count the parts listed on the B/M to be installed to determine that all the parts were received.
3. Using the *Hone configuration sheet* determine the adapter card positions to be removed.

Note:

1. Up to 2 **ELA** can be installed in 3745 Models 130 or 170.
Only one **ELA** can be installed in 3745 Model 150.
2. In Models 170 and 130 if two **ELA's** are installed, the first **ELA** to be removed is adapter **4** (card positions **A1R2** and **A1S2**).
3. A **BPC1 card** will be installed in place of removed CSP card.

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5.0 Programming

5.1 Diagnostic Programs

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

5.2 System Programs

None.

6.0 Purpose and Description

6.1 Purpose

Remove an ELA feature (FC 4781).

6.2 Description

Remove Adapter cards and internal cable.

7.0 Installation Time

FFB/M	Machine Hrs.	System Hrs.
76F9098	0.8	00.0
test	0.5	
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total	1.3	

8.0 Special Tools and/or Materials Required

ESD kit (PN 6428316).

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INSTALLATION (Steps 9-11)

9.0 Safety

- Remove all electrical power from the machine and associated machines prior to beginning the hardware installation.
- Review the **Safety Procedures** located at the beginning of the *3745 Maintenance Information Procedures (MIP)* manual, SY33-2070.
- Review **Safety Notices** located at the beginning of the *Maintenance Information Procedures (MIP)* manual, SY33-2070.

10.0 Details of the Installation

Before proceeding this installation, the following Steps must be performed:

- ___ • Ask the customer to set all lines and channel addresses offline for this controller.
- ___ • Ask the customer to logoff the console, if not already done.
- ___ • Ask the customer for the **maintenance password**.

10.1 Checking, Diagnostics, Power OFF

10.1.1 From the Control Panel

- ___ 1. Check that **Power Control** indicator displays **3**; If it does not, record the value ___, then Press **power control** key until **3** is displayed.
- ___ 2. Press the **Validate** key.

10.1.2 From the Local Console

- ___ 1. From **CA INTERFACE DISPLAY** screen, record **enabled channel adapters** then **Disable** all channel adapters.
- ___ 2. Wait for **interface status disabled** for all CA's, 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.

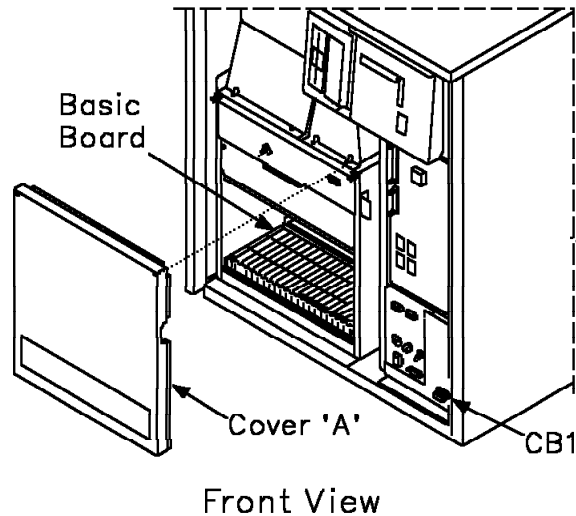
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10.1.3 Display the Configuration Data File (CDF) on Local Console

- ___ 1. Enter **CDF**, Press **Send**.
- ___ 2. Select **DISPLAY/UPDATE**, Enter **1**, Press **Send**.
- ___ 3. Select **LA**, Enter **10**, Press **Send**.
 Check that **Presence=Y** and **LA type=6 (ESS)** for the identified LA number to be removed according to the *Hone configuration sheet*.
 Press **F1**.

10.1.4 Power OFF

- ___ 1. Power off the 3745 from the control panel.
- ___ 2. Open the Front system cover and switch OFF **CB1**.



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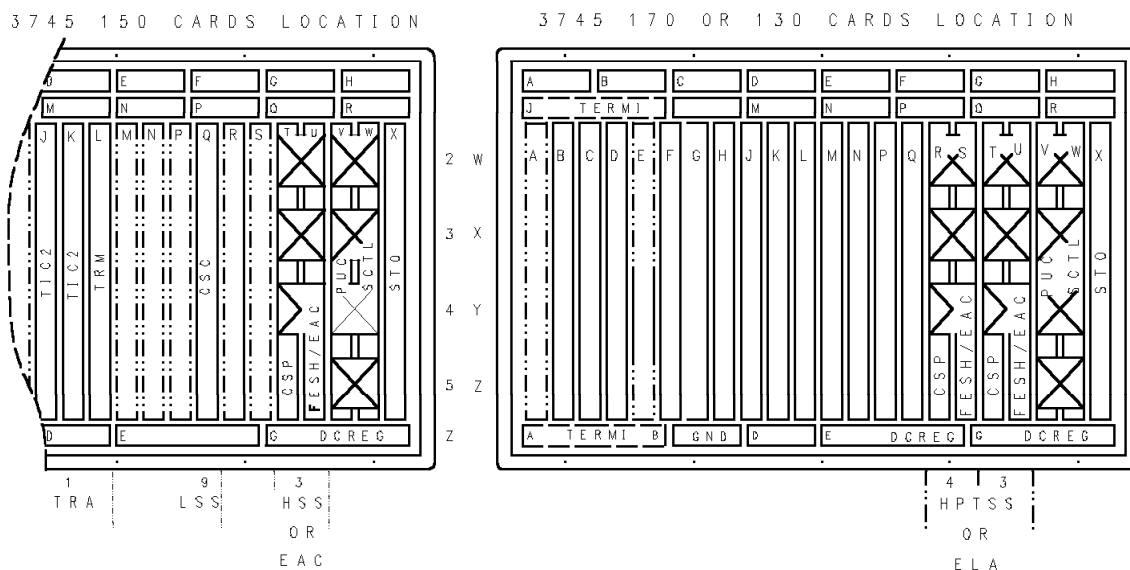
10.2 Hardware Removal

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

10.2.1 Card Removal

- ___ 1. From the front of the machine, remove the basic board cover 'A'.
- ___ 2. Identify the position of cards to be removed and remove the 3 top card connectors.

Note: For adapter 3, cards are plugged in A1T2 and A1U2. For adapter 4, cards are plugged in A1R2 and A1S2.



- ___ 3. Unplug the adapter cards and remove the internal ELA cable asm from the **EAC** card.
- ___ 4. Place the cards in the box provided by the FFB/M.

10.2.2 DCREG Card Removal

- A DCREG card must be removed when an ELA feature is removed from the machine.
- If you remove ADPT 3 (Cards in A1T2 and A1U2), you must remove a DCREG from A1ZG.
- If you remove ADPT 4 (Cards in A1R2 and A1S2), you must remove a DCREG from A1ZE.
- If removing Adpt 4, unplug the cards from A1J2 thru A1S2 for access to DCREG.
If removing Adpt 3, unplug the cards from A1R2 thru A1X2 for access to DCREG.

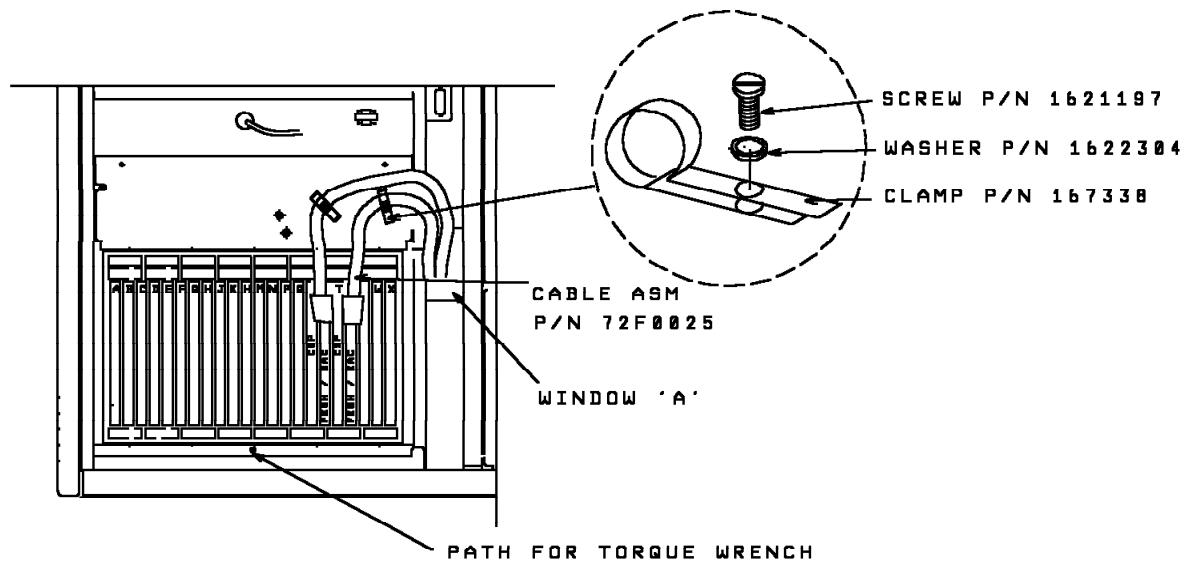
Note: Be sure that cards are labelled according to their positions, if it does not, label them.

- ___ 1. Using a torque wrench, loosen the screw of the bottom 'spring retainer' securing cards in row Z of the board.
- ___ 2. Disengage the spring retainer and unplug the DCREG card from identified position
- ___ 3. Replace the retainer and tighten the retainer screw.
- ___ 4. Re-install all cards in board.

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10.2.3 Cable Removal

- ___ 1. Remove the screw and clamp retaining the ELA cable for removal from the machine.

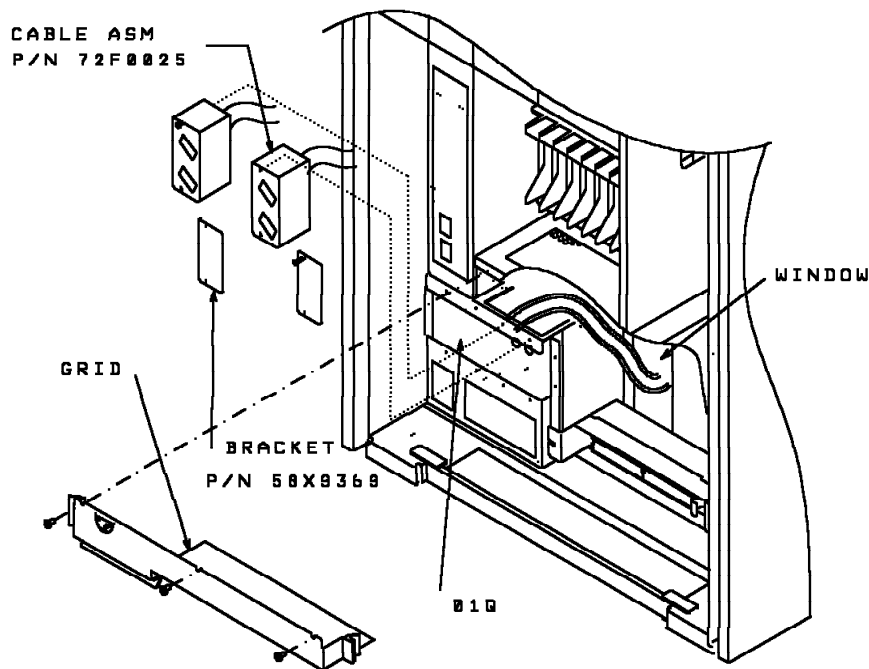


- ___ 2. Install a filler (PN 2733278) in EAC card slot (A1S2 or A1U2).
Install the BPC1 card mounted on its extender (PN 1953093), received with FFB/M in CSP slot (position A1R4 or A1T4).
Secure the card with intermix bracket (PN 1953110).
- ___ 3. Re-install the base board cover 'A'.

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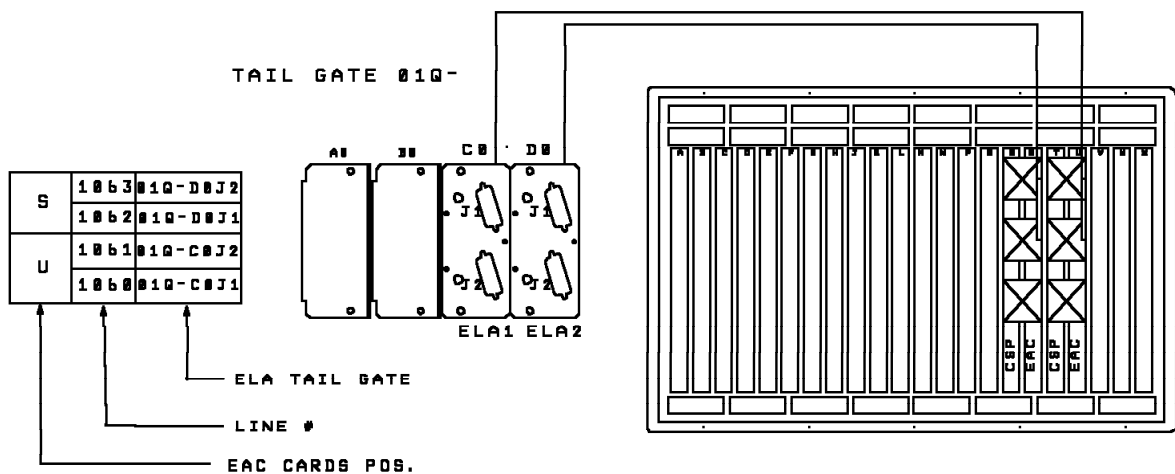
10.2.4 ELA Internal Cable Asm (PN 72F0025) Removal

- ___ 1. Open the rear system cover.



- ___ 2. Locate the **ELA** tailgate in position Q at the 3745 bottom left, and locate the connector to be removed.
Disconnect the external cable, if not already done.
- ___ 3. Remove the GRID over the CA tailgate area.
- ___ 4. Unfasten the two captive screws of the cable tailgate asm and remove the cable from the machine thru the bottom frame window.

CUSTOMER ACCESS AREA FOR ELA



- ___ 5. Install a dummy bracket (PN 58X9369) in the same tailgate position with two screws (PN 1621197).
- ___ 6. Re-install the grid over the CA tailgate.

11.0 Test Procedures

11.1 Power ON and MOSS IML

Switch **CB1 ON** and close the front system cover.

From the control panel

- ___ 1. Press the **Function** key until a flashing **1** is displayed.
Press the **Validate** key.
- ___ 2. Press the **Power on** key.

A **MOSS IML** is performed.

11.2 From the Local Console

- ___ 1. When **CA INTERFACE DISPLAY** screen is displayed, Press **F4**.
- ___ 2. Enter the **maintenance password**, Press **Send**.

11.2.1 Update the Configuration Data File (CDF)

- ___ 1. Enter **CDF**, Press **Send**.
- ___ 2. Select **Verify**, Enter **4**, Press **Send**.
The values from the disk and the machine should be identical except for the adapter you have just removed.
- ___ 3. To update the CDF with machine values, Enter **2**, Press **Send**.
 - When the function is complete, "CDF verify completed" is displayed.
Press **F6**.
 - If adapters are not recognized, see the *MIP*, Chapter 1, and follow the appropriate procedure.

11.2.2 Display the Configuration Data File (CDF)

- ___ 1. Select **DISPLAY/UPDATE**, Enter **1** Press **Send**.
- ___ 2. Select **LA**, Enter **10**, Press **Send**.
An **N** should appear under the LA number that was removed.
- ___ 3. Press **F1**.

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11.2.3 Run the Diagnostics

- ___ 1. Enter **ODG**, Press **Send**.
- ___ 2. Select **IOCB**, Enter **3**.
- ___ 3. Press **Send**.

- If any error is reported, see the *MIP*, Chapter 1, and follow the appropriate procedure.
- If no error is reported, Press **F1**.

Note: If a ELA or a HPTSS feature is still installed, run diagnostics on this adapter to check the DMA bus integrity.

11.2.4 Save the Hard Disk contents onto the back up Set of Diskettes

- ___ 1. Enter **DIF**, Press **Send**.
- ___ 2. Select **2**,
- ___ 3. Enter the date and save ID, Press **Send**.
- ___ 4. Follow the prompts on the console. When the function is completed, Press **F1**.

11.2.5 Logoff the Local Console

Re-enable all channel adapters disabled in step 10.1.2

11.3 General IPL.

From the control Panel:.

- ___ 1. Set the Power control indicator to the value recorded in step 10.1.1
- ___ 2. Set the **Function** indicator value to **0** (General IPL).
- ___ 3. Press the **Validate** key.

The General IPL starts.

- If **FF4** code is displayed on 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 can fail if a mismatch exists between the control program and the hardware configuration.

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AFTER INSTALLATION (Steps 12-15)

12.0 Field Updating

None.

13.0 Field Support Publications

None.

14.0 Parts Disposition

14.1 Purchased Machines

Refer to the ownership of the parts matrix to determine the correct owner of removed/unused parts.

- For Domestic Areas, return parts to the customer.
- For EMEA/APG/AG Areas, refer to *Hardware and General Service Code Description*.

All parts determined to be the property of IBM should be processed as stated in the rental machine directions as follows:

14.2 Rental Machines

Provide all parts to the IBM branch office for potential return in accordance with existing return, recovery, and reclamation programs.

15.0 Machine Records

- Install the new **MACHINE HISTORY** supplied.
- Report the installation and quality according to the existing procedure.

End of instructions

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Processing Options

Runtime values:

Document fileid	P76F9098 SCRIPT
Document type	PNCDOC
Document style	DEFAULT
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	92.03.09
Time	11:10:19
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	NO
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	1
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