

Field Feature Bill of Material (FFBM)
PN 66X1219
CONVERSION of a Token Ring Adapter Type 1 (4Megs) (FC 4760)
to a Token Ring Adapter Type 2 (4/16Megs) (FC 4770)
(RPQ 7L1067 in World Trade, Feature Conversion MES in US)

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STATUS:

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3745
FFBM

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Before Installation (steps 1-8)

Net Priced Feature

All parts removed from this machine are IBM property and must be returned to IBM.

4.0 Preparation

1. Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.

1.0 Machines Affected

3745 Models 210/21A/310/31A/410/41A/610/61A.

2.0 Related BMs and ECs

2.1 Prerequisites

(Must be installed prior to this installation)

- TRA type 1 FC 4760 installed in 01G-A1 board (FB/M 6495648).
- Microcode EC A47020 or higher (see ZZ001).
Checkpoint: Check label on **Normal and Backup** sets of diskettes.
- Software: To take advantage of 16 Megs TRA, NCP must be at level V5R3.
The FC 4770 will work at 4 Megs only if NCP level is lower.

2.2 Concurrent

(Must be installed together)

None.

2.3 Companion

(May be installed separately)

None.

3.0 BM(s) to be Installed

- FFBM 66X1219 - Installation instructions
- FFBM 66X1217 - TRA conversion.

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2. Check all items listed on the BM(s) to determine that all parts have been received.
3. The feature conversion can be performed either ONLINE (concurrent mode with NCP running, MOSS ONLINE) or OFFLINE (complete machine power OFF, MOSS ALONE or OFFLINE).

Important note

1. **The online conversion of a TRA in 3745-X1A is disruptive for 3746-900 operations.**
2. **Ask the customer to deactivate all resources of the 3746-900 before the conversion.**

Select the procedure according to machine availability.

4. **For 3745-X1A and 3746-900:**
Configuration modification in a line adapter chain, in 3745-X1A with 3746-900 connected, requires the relocation of ACTIVE/PASSIVE bypass cards in IOC/DMA bus for proper signals propagation. This will be done in section 11.0. Parts to be used for relocation are part of the 3746-900 shipping group (holders, BPC1, ABP, cables...).

TSST board 01G-A1: card positions and power.

Adpt.Position	1	2	5	6
TRM	A2	D2	L2	P2
TIC Cards	B2	E2	M2	Q2
	C2	F2	N2	R2
PSTY 4	08 01H-A1		10 01H-C1	
01U-A0 T.gate	A	D	L	P

Note: Adapters 3,4,7,8 can be TSS or HPTSS.

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5.0 Programming

5.1 Diagnostic Programs

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

5.2 System Programs

To take advantage of 16 Megs TRA, NCP must be at level V5R3.

6.0 Purpose and Description

6.1 Purpose

Convert a FC4760 to a FC4770.

6.2 Description

Exchange the 2 TIC cards, and internal cable asm.

7.0 Installation Time

FFBM	Machine Hrs.	System Hrs.
66X1219	1.0	00.0

8.0 Tools/Materials Required

- ESD kit (PN 6428316).

Installation (steps 9-11)

9.0 Safety

- The conversion can be performed either online or offline.
- 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

- If you are converting the feature with the machine **POWER ON**, go to Step 10.2, "Feature Conversion Online (3745 Power ON)" on page 7.
- Otherwise, continue.

10.1 Adapter Installation Offline (3745 Power OFF)

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, 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 converting the feature in a 3745-X1A, go to Step 10.1.3, "Log the Service Processor on" on page 6.
- Otherwise, continue.

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10.1.2 Log the 3745-X10 Console on

- 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**.

Note: If Model 410/610, the CCU must be selected with **CSR** function before **RST**. Perform the **CSR/RST** sequence for each CCU.

- 4. If the CCU is running, enter **CSR** and select CCU A or/and CCU B. Then, enter **RST** to reset the CCU(s). The MOSS goes in **MOSS ALONE** state.

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

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**.

10.1.3.1 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**.
- 3. When **MOSS Console** screen is displayed, enter **CID**, press **Enter**.
- 4. From the **CA INTERF DISPLAY** screen, record **Enabled channel adapters**. Then, **disable** all channel adapters.
- 5. When all CAs are **DISABLED**, press **F1**.

Note: On Models 41A/61A, CCU must be selected with **CSR** function before performing **RST**.

Perform CSR/RST sequence for each CCU.

- 6. If CCU running, enter **CSR** and select CCU A or CCU B. Then, enter **RST** to reset CCU(s). The MOSS goes in **MOSS ALONE** state.

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.

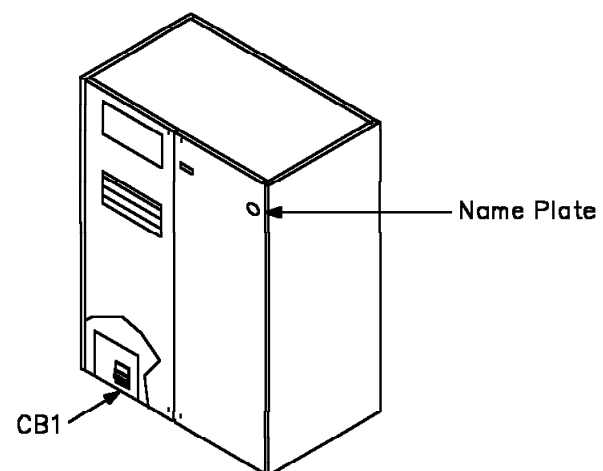
- 1. Enter **CDF**, press **Send/Enter**.
- 2. Enter **1** (DISPLAY/UPDATE), press **Send/Enter**.
- 3. Enter **7** (LINE ADAPTERS (LA)), press **Send/Enter**. Check for the presence of a Y for the identified LA position.
- 4. Enter the **LA** number, press **Send/Enter**. Check that the **TRA** type is 1.
- 5. Press **F1**.

10.1.5 Run the Diagnostics

- 1. Enter **ODG**, press **Send/Enter**.
 - 2. Enter **6** (TRSS), press **Send/Enter**. Enter the **LA** number in ADP field, press **Send/Enter**.
- When **NO ERROR FOUND** is displayed, press **F1**.
 - If an error is reported, see the *MIP*, Chapter 2, and follow appropriate procedure.

10.1.6 Power OFF

- 1. From the 3745 control panel, press the **Power OFF** key.
- 2. Open the left cover of the 3745, then switch **CB1** OFF.



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- Go to Step 10.3, “TRA Installation” on page 9.

10.2 Feature Conversion Online (3745 Power ON)

Before the installation, ask the customer:

- ___ 1. For the maintenance password.
- ___ 2. To logoff the console, if not already done.
- ___ 3. To deactivate all resources on the 3746 Model 900, if attached.
- ___ 4. If the identified feature to be converted is in an EVEN position, notify the customer to de-activate all the lines connected on the ODD feature fed by the same power supply (refer to table in Step 4.0, “Preparation” on page 3).

10.2.1 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 converting a feature in a 3745-X1A, go to Step 10.2.3, “Log the Service Processor on.”
- Otherwise, continue.

10.2.2 From the 3745-X10 Console

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

- Go to Step 10.2.4, “Display the CDF.”

10.2.3 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**.
- ___ 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.

10.2.4 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 (LINE ADAPTERS (LA)), press **Send/Enter**. Check for the presence of a Y for the identified LA position.
- ___ 4. Enter the **LA** number, press **Send/Enter**. Check that the **TRA** type is 1.
- ___ 5. Press **F1**.

- If you are converting a TRA in an ODD position (1 or 5), go to Step 10.3, “TRA Installation” on page 9.
- Otherwise, continue.

10.2.5 TRA Disconnect from NCP

Note: If you convert a TRA in an EVEN position, you must also disconnect from the NCP the adjacent ODD TRA powered by the same PSTY4 (see table in Step 4.0, “Preparation” on page 3). Follow this procedure for the first adapter (1 or 5), and repeat these Steps for the second (2 and 6).

- ___ 1. Enter **TSS** (TSS services),

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press **Send/Enter**.

- ___ 2. Enter **1** (SELECT), press **Send/Enter**.
- ___ 3. In the data entry, enter **1** (SELECT), press **Send/Enter**.
- ___ 4. Enter the number of the adapter, press **Send/Enter**.
- ___ 5. Move the cursor to the data entry area, enter **2** (CONNECT/DISC), press **Send/Enter**.
- ___ 6. Enter **DS**, press **Send/Enter**.
- ___ 7. Press **F1**.

10.2.6 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
 - ___ 2. Enter **6** (TRSS), press **Send/Enter**.
Enter the **LA** number in ADP field, press **Send/Enter**.
- When **NO ERROR FOUND** is displayed, press **F1**.
 - If an error is reported, see the *MIP*, Chapter 2, and follow appropriate procedure.

10.2.7 Power OFF the PSTY4

Warning US ONLY

If there is a mix of PSTY4 vendors in the frame, and normal power removal procedures are used to power down more than one supply, a false NOREPLY indication may occur. To avoid this condition, remove power from one PSTY4, install the associated adapter(s) (Step 10.3, "TRA Installation" on page 9) and restore power to that PSTY4 (UXX from POS screen). This sequence can be repeated for the remaining PSTY4(s).

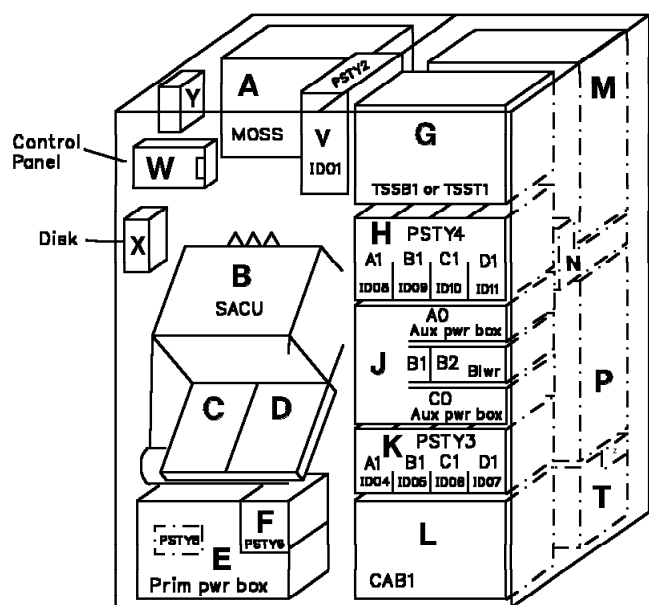
If you convert a TRA in an EVEN position, you must power OFF the PSTY4 driving the adjacent ODD LA (see table in Step 4.0, "Preparation" on page 3).

- ___ 1. Enter **POS**, press **Send/Enter**.
- ___ 2. Enter **1** (frame power services), press **Send/Enter**.

On the displayed screen, check that the status of the identified PSTY4 is UP, then, enter DXX (XX being the PSTY4 ID). Verify that the power supply goes to the **DOWN** state.

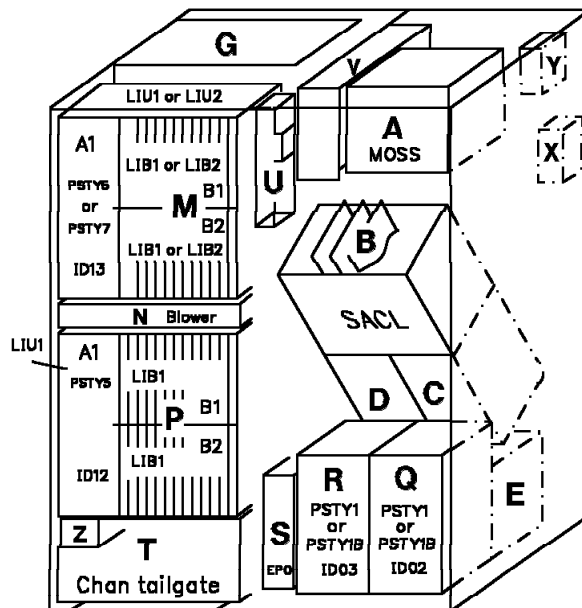
10.3 TRA Installation

10.3.1 TIC Card Removal



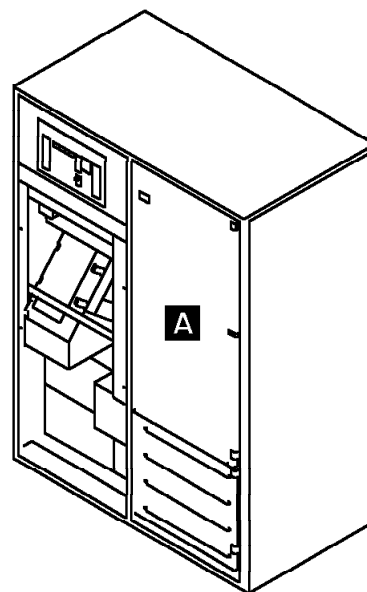
Front View

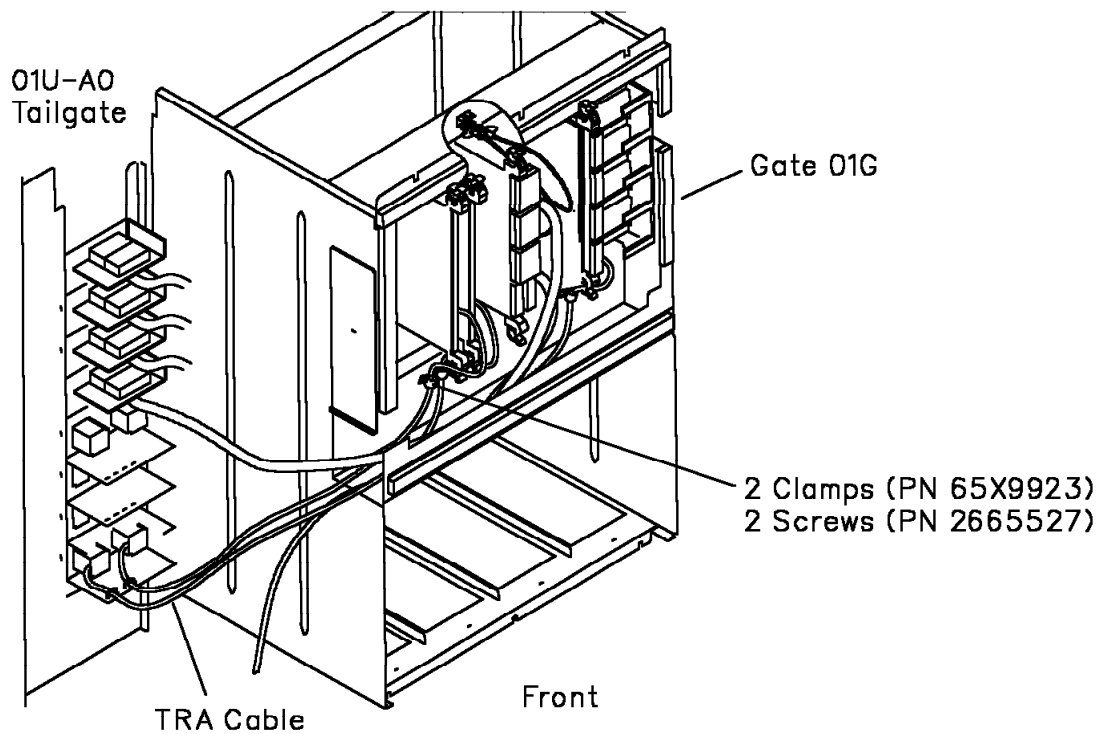
3745



Rear View

- ___ 1. Open the 3745 front right cover and the shield 'A' (if present).
- ___ 2. Locate the Adapter enclosure in 01G and identify the TIC cards position.
- ___ 3. Unplug the TIC cards from board, and unplug the TIC internal cable from the cards.
- ___ 4. Remove two screws and clamps securing cables on gate. Save for the reinstallation.

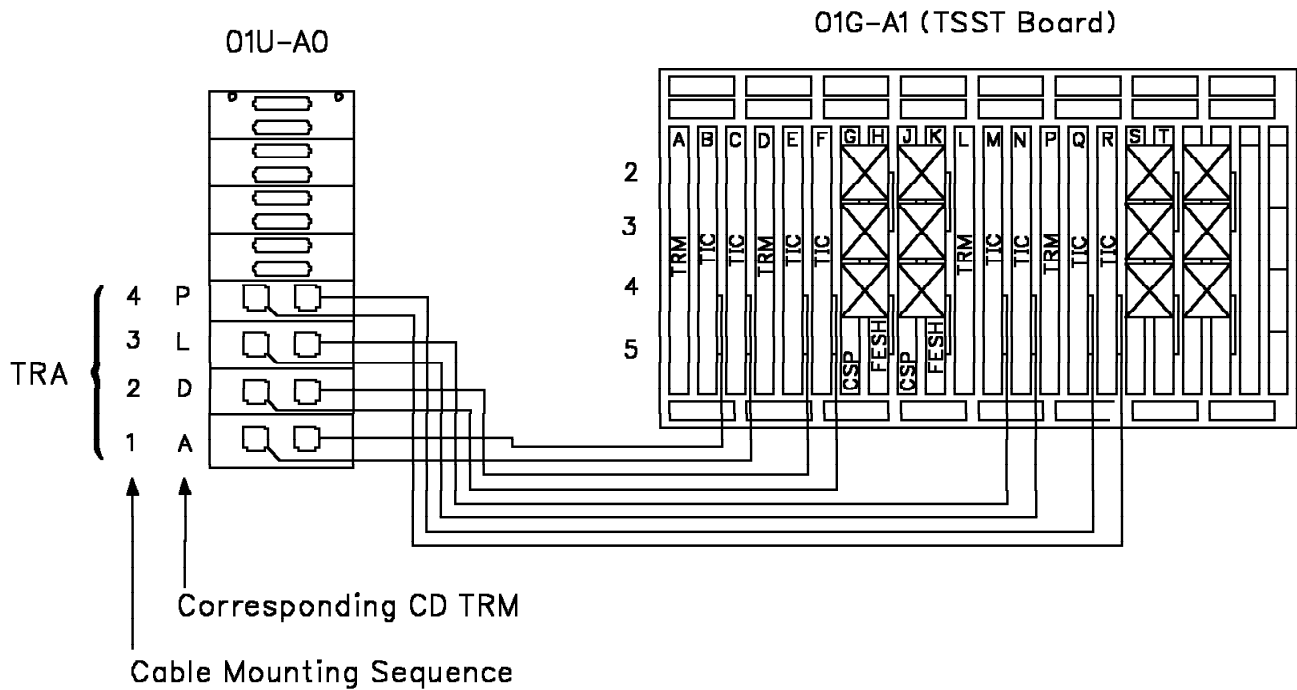




- ___ 5. Slide the door 'A' of enclosure up and route cables out of the enclosure.

10.3.2 Internal Cable Removal

- ___ 1. From the back of the 3745, open the left cover and locate the tailgate in 01U-A0.



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- ___ 2. Identify the tailgate position associated to your adapter number and unplug the TIC external cable(s).
- ___ 3. Remove two screws securing the identified tailgate.
- ___ 4. Remove the cable asm from the machine.

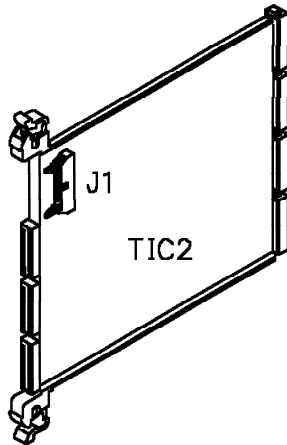
10.3.3 TIC Type 2 Card and Cable Installation

10.3.3.1 Internal Cable PN 11F5494 installation

- ___ 1. From the back of the machine route the cable to the board 01G-A1.
- ___ 2. Secure the cable asm on the tailgate with 2 screws removed in previous step.
- ___ 3. Reconnect external cables on tailgate and close the rear system cover.

10.3.3.2 TIC Cards Type 2 Installation

- ___ 1. Check that holders are installed on cards provided by FFB/M.



- ___ 2. Plug cable previously installed on TIC cards and plug the cards on board.
- ___ 3. Secure the cables with clamps and screws removed in previous step.
- ___ 4. Slide the door 'A' of enclosure down.
- ___ 5. Reinstall covers and shields opened in previous Steps.

- After a conversion with 3745 POWER ON, go to Step 11.2, "Test Procedure After a Conversion Power ON" on page 14.
- Otherwise, continue.

10.4 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.

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11.0 Test Procedures

11.1 Test Procedures after Complete POWER OFF

- If you have converted a feature in a 3745-X1A, go to Step 11.1.2, "Open MOSS/MOSS-E Session."
- Otherwise, continue.

11.1.1 From the 3745-X10 Console

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

11.1.2 Open MOSS/MOSS-E Session

From the Service Processor:

- ___ 1. Double click on the 3745 icon when it becomes **PURPLE**.
- ___ 2. On the **3745 Menu** window, double click on **MOSS console**.

Wait for **Function Selection Rules** screen.

11.1.3 Update the CDF

- ___ 1. Enter **CDF**, press **Send/Enter**.
- ___ 2. Enter **4 (VERIFY)**, press **Send/Enter**.
The values from the **CDF DATA** and the **MACHINE DATA** should be identical, except for the adapter you have just converted.
- ___ 3. To update the CDF with machine values, enter **2**, press **Send/Enter**.
 - When **CDF VERIFY COMPLETED** is displayed, press **F6**.
 - If adapters are not recognized, see the *MIP*, Chapter 1, and follow appropriate procedure.

11.1.4 Display the CDF

- ___ 1. Enter **CDF**, press **Send/Enter**.
- ___ 2. Enter **1 (DISPLAY/UPDATE)**, press **Send/Enter**.
- ___ 3. Enter **7 (LINE ADAPTERS (LA))**, press **Send/Enter**.
- ___ 4. Enter the **LA** number, press **Send/Enter**.
Check that **TYPE TIC** is 2.
- ___ 5. Press **F1**.

11.1.5 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **6 (TRSS)**.
Enter the **Adapter Number**, press **Send/Enter**.
 - When **NO ERROR FOUND** is displayed, press **F1**.
 - If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

11.1.6 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**.

- If you have converted a feature in a 3745-X1A, go to Step 11.1.8, "Relocate the Bypass Cards" on page 13.
- Otherwise, continue.

11.1.7 Logoff the 3745-X10 Console

Re-enable the channel adapters disabled in Step 10.1.2, "Log the 3745-X10 Console on" on page 6.

- Go to Step 11.1.10, "General IPL" on page 14.

11.1.8 Relocate the Bypass Cards

Note: Follow this Step if a 3746-900 is attached.
From the Service Processor:

- ___ 1. On the **3745 Function Selection** screen, enter **OFF**, press **Enter**.
- ___ 2. On the **3745 menu** window, click on **OPERATION MANAGEMENT**.
- ___ 3. Double click on **Locate Bypass Card Position**.
- ___ 4. Follow the instructions.

Note: Refer to the *3746 Model 900 Installation Guide* (SY33-2088), Chapter 4, section: 'Plugging the Active and Bypass Cards and Connecting +5V Cables'. Then, Chapter 5, perform steps 1, 2, and 5, to verify the CDF and test the IOC/DMA bus.

11.1.9 Logoff MOSS-E

- ___ 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, "Log the Service Processor on" on page 6.
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**.

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11.1.10 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 5.
- ___ 2. Set the **Function** indicator value to **0** (general IPL).
- ___ 3. Press the **Validate** key.

The general IPL starts.

- 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.

- Go to Step "After Installation (steps 12-15)" on page 15.

11.2 Test Procedure After a Conversion Power ON

11.2.1 Power ON the PSTY4

- ___ 1. The power status is **DOWN** for the PSTY4.
- ___ 2. Enter **UXX** to set the power supply **UP**. Verify that the PSTY4 goes to the **UP** state.
- ___ 3. Press **F1**.

11.2.2 Update the CDF

- ___ 1. Enter **CDF**, press **Send/Enter**.
- ___ 2. Enter **7** (LINE ADAPTERS (LA)), press **Send/Enter**.
An **N** is displayed under the LA you have just installed.
- ___ 3. Enter the LA number, press **Send/Enter**.

- ___ 4. Enter **1** (Replace), press **Send/Enter**.
- ___ 5. When **CDF LA CHANGE COMPLETED** is displayed, press **F6**.

11.2.3 Display the CDF

- ___ 1. Enter the LA number, press **Send/Enter**. Verify that **TIC type** is **2**.
- ___ 2. Press **F1**.

11.2.4 Adapter Mode Change

To run diags, TRA must be in **Disconnect** mode.

- ___ 1. Enter **TRS** (TRSS services), press **Send/Enter**.
- ___ 2. Enter **1** (SELECT), press **Send/Enter**.
- ___ 3. Enter the TRA number, press **Send/Enter**.
- ___ 4. In data entry area, enter **2** (CONNECT/DISC), press **Send/Enter**.
- ___ 5. Enter **DS** to set the TRA to the **Disconnect** mode, press **Send/Enter**. Press **F1**.

11.2.5 Concurrent Diagnostics

- ___ 1. Enter **CDG**, press **Send/Enter**.
- ___ 2. Enter **6** (TRSS), the **Adapter Number**, 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.

11.2.6 Reconnect an Adapter to NCP

- ___ 1. Enter **TRS**, press **Send/Enter**.
- ___ 2. Enter **1** (SELECT), press **Send/Enter**. Enter the adapter number, press **Send/Enter**.
- ___ 3. In the data entry area, enter **2** (CONNECT/DISC), press **Send/Enter**. Enter **CT** (CONNECT), press **Send/Enter**, to connect the TRA to the NCP.

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- ___ 4. When an adapter is connected to the NCP, and if you have a second TRSS to be connected to NCP, release this first TRA number via option 1 of the TRS function, and repeat this Step for the second TRA.
- ___ 5. Press **F1**.

11.2.7 Set the MOSS Offline

Note: If the 3745 is a Model 410/41A/610/61A, the CCU must be selected with the **CSR** function before performing the **MOF** function. Perform **CSR/MOF** sequence for each CCU.

- ___ 1. Enter **MOF**, press **Send/Enter**.
- ___ 2. Press **F1**.

11.2.8 Save Hard Disk Contents onto the Backup set of Diskettes

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

- If you have converted a feature in a 3745-X1A, go to Step 11.2.10, "Log the Service Processor off."
- Otherwise, continue.

11.2.9 Log the 3745-X10 Console off

Ask the customer to activate the resources on the new adapter if the NCP is configured.

- Go to Step "After Installation (steps 12-15)."

11.2.10 Log the Service Processor off

- ___ 1. Enter **MON**, press **Enter**.
- ___ 2. Enter **OFF**, press **Enter**.
- ___ 3. On the **MOSS-E View** window, click on **Program**.
- ___ 4. Click on **LOG OFF MOSS-E**.

After Installation (steps 12-15)

12.0 Field Updating

None.

13.0 Publications Update

None.

14.0 Parts Disposition

All replaced/removed parts become the property of IBM. You **MUST RETURN** these parts following the instructions given on the Returned Material Equipment Report (RMER) provided with this FFBM.

15.0 Machine Records

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

End of instructions.

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<u>id</u>	<u>File</u>	<u>Page</u>	<u>References</u>
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SP1	P66X1219 SCRIPT	6	10.1.3, Log the Service Processor on 5, 13
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PO	P66X1219 SCRIPT	6	10.1.6, Power OFF
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EE	P66X1219 SCRIPT	7	10.2.5, TRA Disconnect from NCP
FF	P66X1219 SCRIPT	8	10.2.7, Power OFF the PSTY4
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Processing Options

Runtime values:

Document fileid	P66X1219 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	94.09.14
Time	17:41:28
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

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