

## **Field Feature Bill of Material (FFBM)**

**PN 66X1363**

### **INSTALLATION of a TRA Option (RPQ 7L1052) in IBM 3745 Models X10/X1A**

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## Before Installation (steps 1-8)

### 1.0 Machines Affected

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

### 2.0 Related BMs and ECs

#### 2.1 Prerequisite

(Must be installed prior to this installation)

Visually, check the presence of TSSB board in 01G-A1 (BM 65X8799 in machine history).

**Checkpoint:** 1 wide card in 01G-A1B2 (address card).

#### 2.2 Concurrent

(Must be installed together)  
None.

#### 2.3 Companion

(Must be installed separately)  
None.

### 3.0 BM(s) to be Installed

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

- 66X1363 - Installation instructions
- 66X0057 (up to 4) - BPC2 card.

### 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. Additional information:

- After the TSST board installation, you must re-install cards and power supplies (PSTY4) according to the *HONE Configurator sheet*.
- After installation, up to 2 PSTY4s and up to 4 line adapters (TSS and/or HPTSS) may be unused.
- If the TSSB board was fully populated with TSS adapters, 4 MUX cables may be removed. These parts can be re-installed in 3745/3746-A11/A12 via RPQs.
- You may differentiate FESH (HPTSS adapters) from FESL (TSS adapters) as follow:
  - There are two connectors on a FESH card.
  - There is one connector on a FESL card.
- CSP card is the same for HPTSS and TSS adapter(s).

#### 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...).

## 5.0 Programming

### 5.1 Diagnostics Program

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

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## 5.2 Systems Programs

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

NCP Tier	Usage Limits (Up to...)
-----	-----
1	1 TSS/HPTSS + 1 TRA + 2 CA
2	2 TSS/HPTSS + 1 TRA + 2 CA
2.5	6 TSS/HPTSS + 0 TRA + 4 CA
or	2 TSS/HPTSS + 2 TRA + 4 CA
3	8 TSS/HPTSS + 0 TRA + 8 CA
or	4 TSS/HPTSS + 4 TRA + 8 CA
4	24 TSS/HPTSS + 0 TRA + 16 CA
or	20 TSS/HPTSS + 4 TRA + 16 CA
5	32 TSS/HPTSS + 0 TRA + 16 CA
or	28 TSS/HPTSS + 4 TRA + 16 CA

## 6.0 Purpose and Description

### 6.1 Purpose

- Install the TRA option.

### 6.2 Description

- Replace the TSSB board by a TSST.

## 7.0 Installation Time

FFBM	MACHINE HRS.	SYSTEM HRS.
66X1363	3.5	00.0
Test Time	3.5	00.0
Total Time	7.0	00.0

Add 0.3 for ABP card relocation (if 3746-900 attached).

## 8.0 Tools/Material Required

- ESD kit (PN 6428316).
- Torque wrench (PN 4134750).

## Installation (steps 9-11)

## 9.0 Safety

- The feature conversion must be performed 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 Conversion

Before the conversion, 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 installing this RPQ in a 3745-X1A, go to Step 10.1.3, "Log the Service Processor on" on page 5.
- 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 10.1.5, "Run the Diagnostics."

## 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**.
- 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.

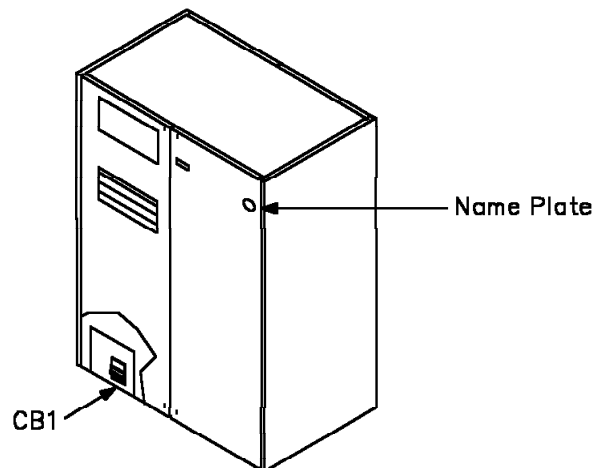
## 10.1.5 Run the Diagnostics

**Note:** From this point, the **Send** key is used only for a local console. For a Service Processor, press the **Enter** key.

- 1. Enter **ODG**, press **Send/Enter**.
- 2. Enter **3** (IOCB), press **Send/Enter**.
  - If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.
- 3. According to the configuration:
  - a. Enter **5** (TSS) or **7** (HPTSS), the adapter address (1 through 8), press **Send/Enter**.
  - b. Repeat this step until all adapters in TSSB board have been tested.
- If **NO ERROR FOUND** is displayed, press **F1**.
- If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

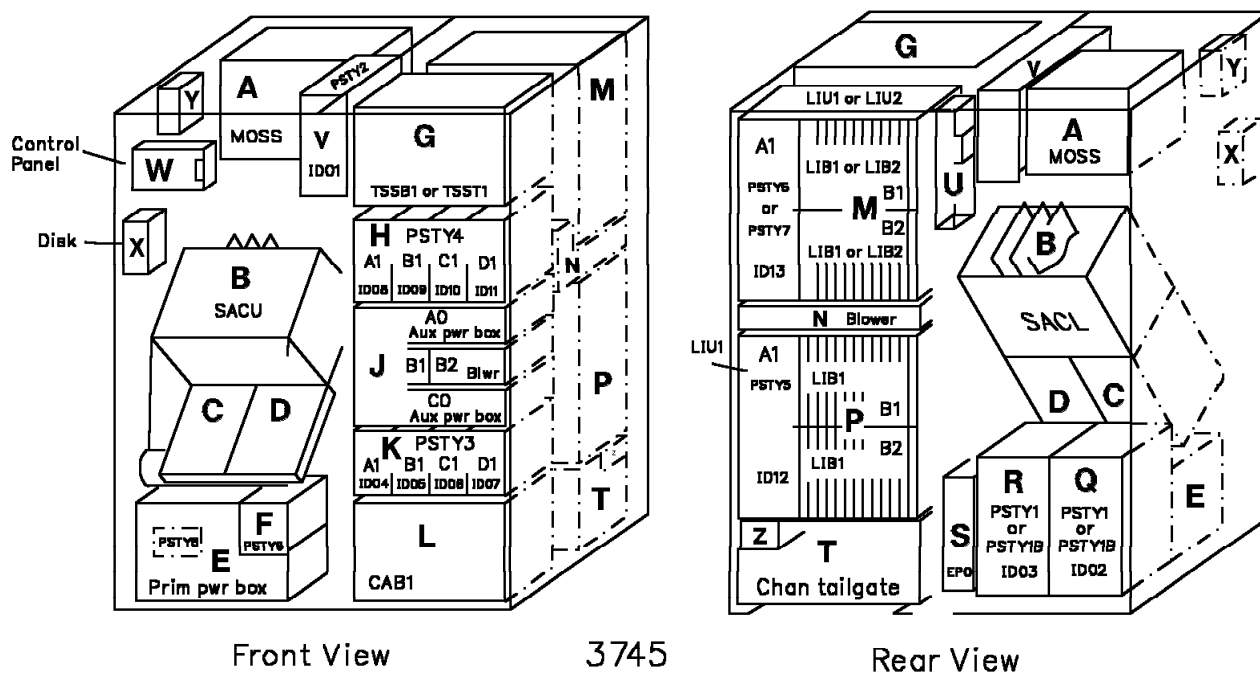
## 10.1.6 Power OFF

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



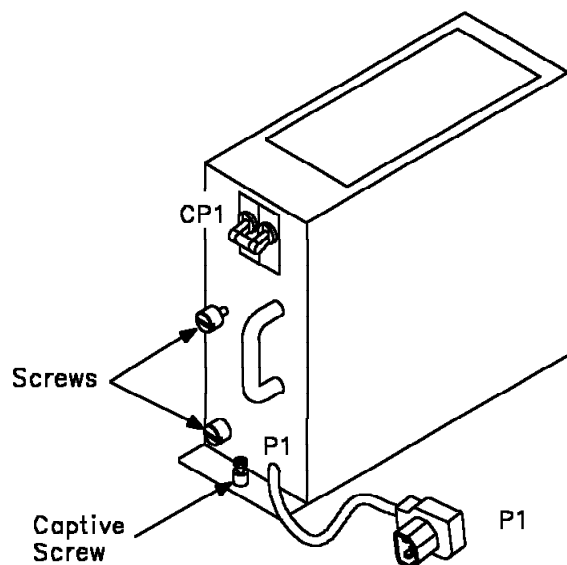
## 10.2 Hardware Installation

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



### 10.2.1 PSTY4s Removal (to reduce the weight of the enclosure)

1. Locate the PSTY4 enclosure in position 01H, and open the shield if present.
2. On the PSTY4s, set the CP1s OFF.
3. Unplug the PSTY4 cables P1 from the connector (J1, J2, J3, or J4 of the auxiliary power box) just under the PSTY4s.
4. Unfasten the two front screws, then the captive screw at the bottom front of each power.



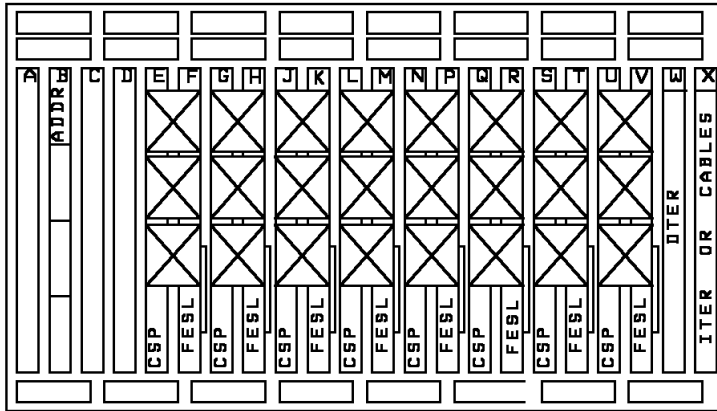
5. Slide the PSTY4s out of the enclosure and save for re-installation.

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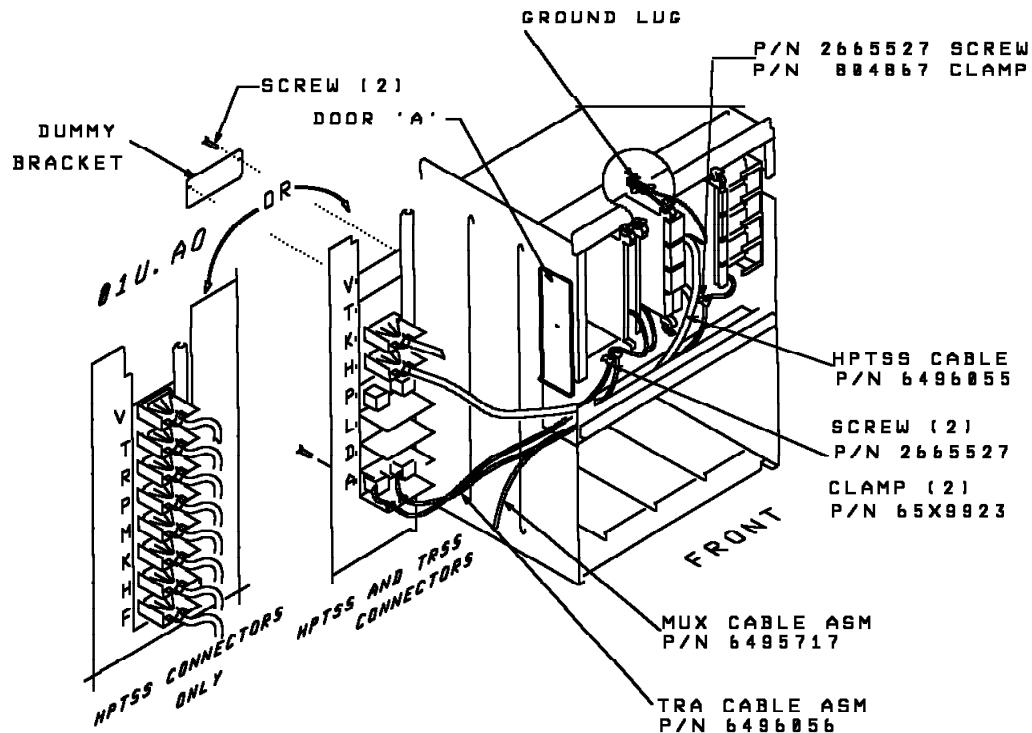
## 10.2.2 Adapter Cards and Power Bus Removal

### 10.2.2.1 Adapter Cards

1. Locate the TSSB board in position 01G-A1 and slide the door 'A' up on the left side of the enclosure.



2. Note the crossover positions and remove them.



3. Remove the screw securing the MUX cable clamps. Then, remove the MUX cables from the FESF card(s) if any.

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- \_\_\_ 4. Note the location and remove cables from the FESH card(s) if any. Unplug the ground wires. Save parts.
- \_\_\_ 5. Verify that cards are labelled according to their position. Then, remove all cards and store them in a safe place.

**Notes:**

1. In position A1W2, DTER card is present only if a HPTSS is installed.
2. In position A1X2, ITER card is present if there no 3746-A11 connected to 3745. Otherwise, 4 IOC bus cables are plugged in X row.
3. If IOC buses are plugged in, disconnect them. Then, remove them from the raceway. Feed the cables out of the enclosure.
4. If 3746-900 attached, remove the DICO cards with IOC/DMA cables attached.

**10.2.2.2 Power Bus Cables**

- \_\_\_ 1. Locate the power card in 01H.
- \_\_\_ 2. Disconnect the cables from 01H-A0J8 and 01H-A0J9.

**10.2.3 IOC Bus Cables Removal**

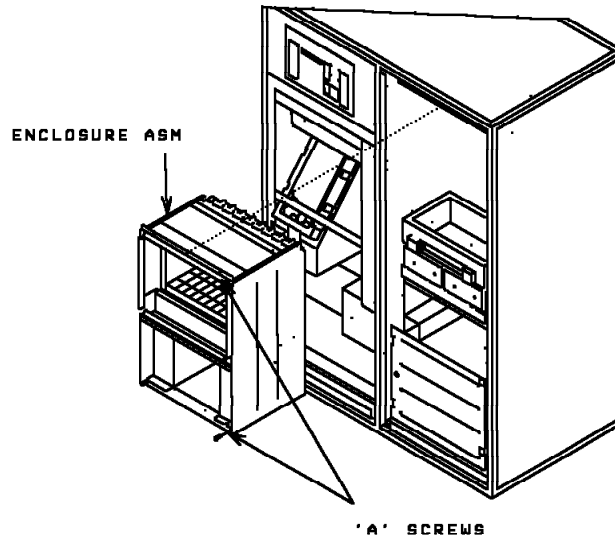
- \_\_\_ 1. Locate the SACU board in position 01B.
- \_\_\_ 2. Disconnect the following cables from the SACU board:
  - 01B-A1-G0Z4
  - 01B-A1-G0Z5
  - 01B-A1-H0Z4
  - 01B-A1-H0Z5
  - 01B-A1-N0Z1
  - 01B-A1-N0Z2
  - 01B-A1-P0Z4
  - 01B-A1-P0Z5
- \_\_\_ 3. Route the cables through the frame towards the scanner board enclosure.



## 10.2.4 TSSB Board Removal

### 10.2.4.1 Enclosure Removal

- \_\_\_ 1. If present, remove the dummy bracket(s) from the PSTY4 enclosure.
- \_\_\_ 2. Remove the 6 screws 'A' securing the enclosure and slide it out of the frame. Save the screws.

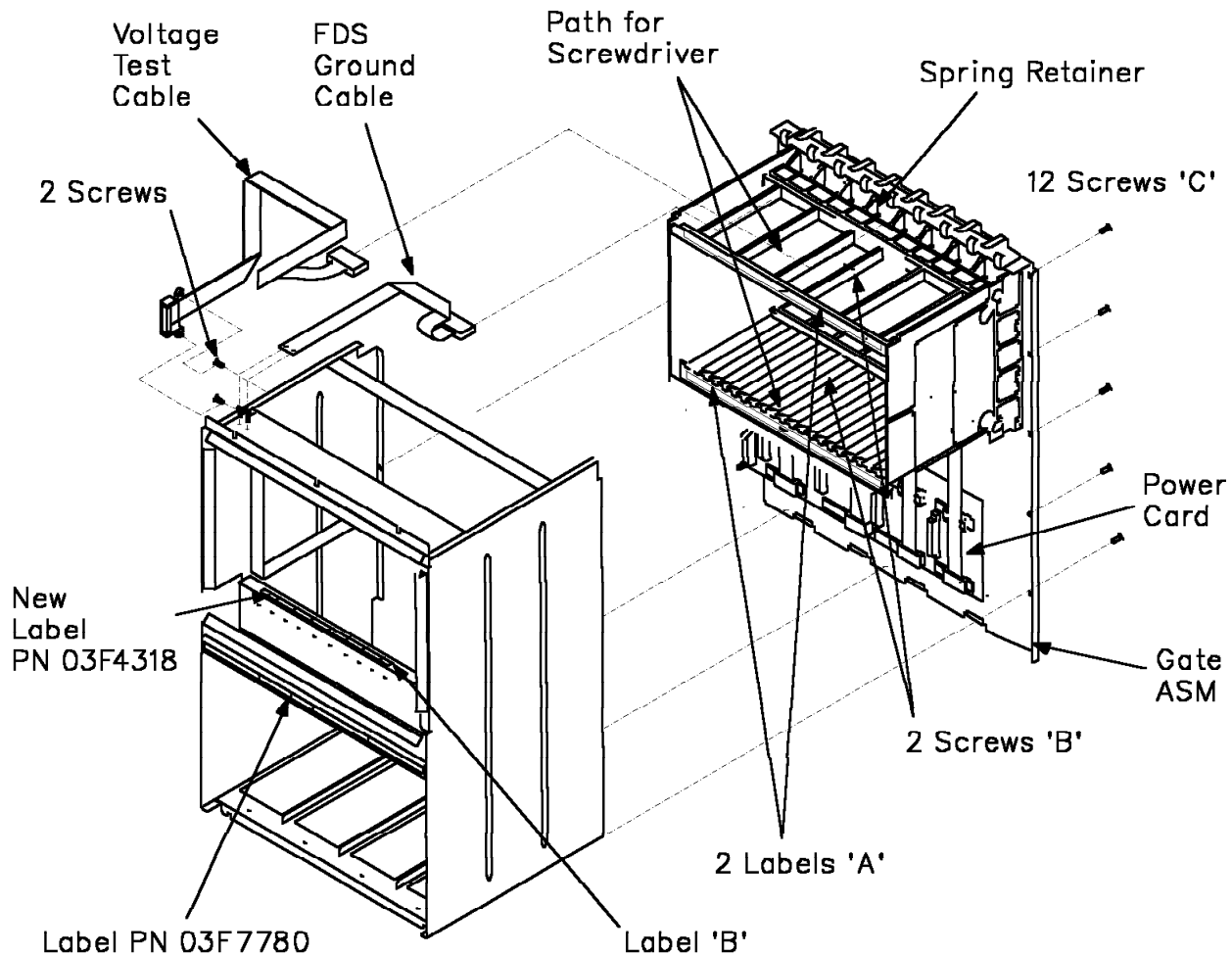


- \_\_\_ 3. Take care not to damage the power board, the connectors and IOC bus on the left side of the enclosure.
- \_\_\_ 4. Place the enclosure on a table.

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## 10.2.5 Enclosure Disassembly

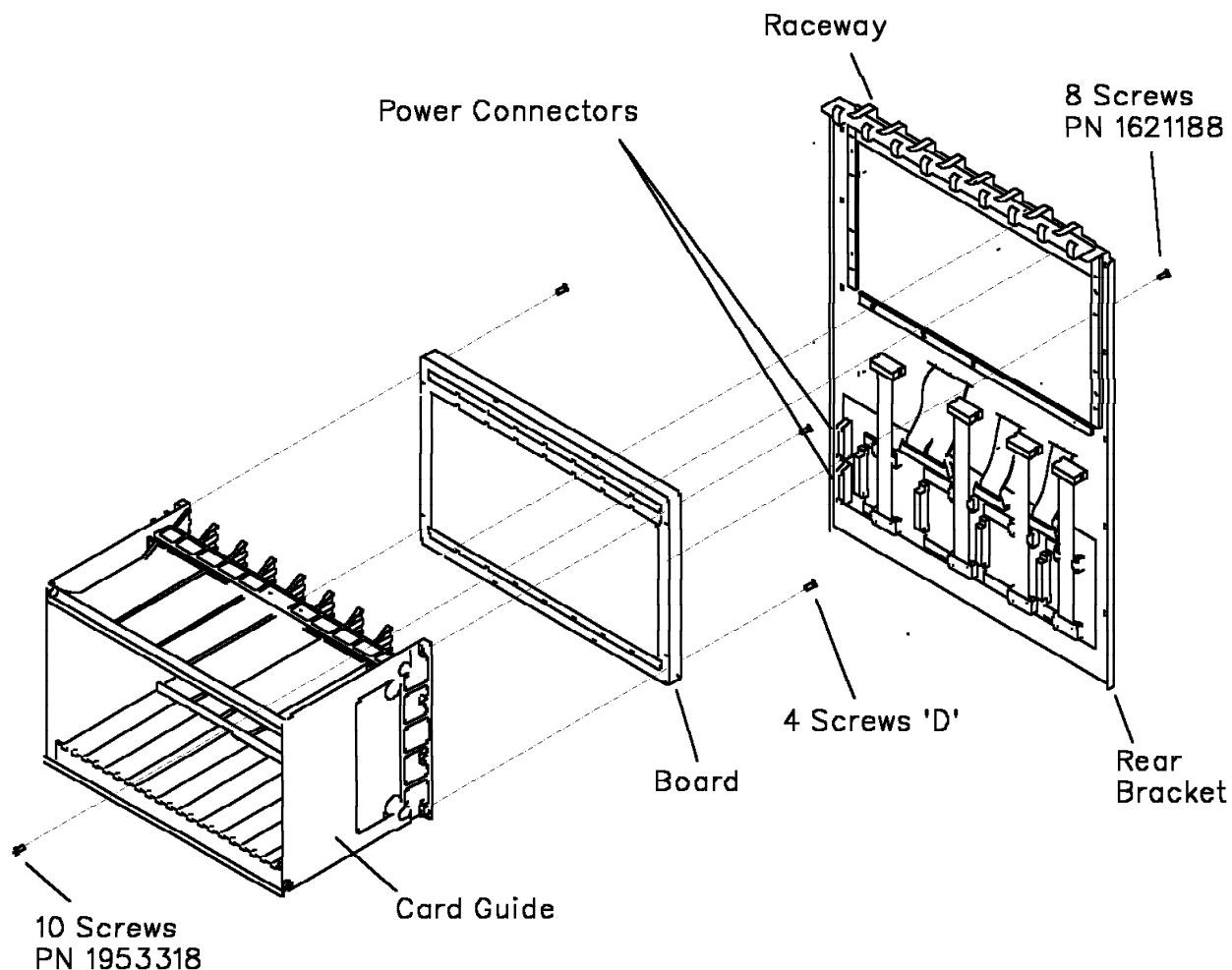
- \_\_\_ 1. Remove the 2 screws securing the FDS ground cable on the top of the enclosure.
- \_\_\_ 2. From the rear side, remove the 12 screws 'C' securing the gate asm on the enclosure.
- \_\_\_ 3. Disassemble the enclosure and the gate asm.
- \_\_\_ 4. Put the enclosure in a safe place.



- \_\_\_ 5. Remove the two labels 'A' if present. They won't be reused or replaced.
- \_\_\_ 6. Remove the label 'B'.
- \_\_\_ 7. Affix the new label (PN 03F4318) on the enclosure.
- \_\_\_ 8. With a torque wrench, loosen completely the 2 screws 'B' which maintain the spring retainer securing cables in rows Y and Z.
- \_\_\_ 9. Pull back the spring retainer and unplug all cables from board (keep them in the raceway).

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## 10.2.6 Board Asm Removal



- \_\_\_ 1. From the rear side of the gate asm, remove the 8 screws (PN 1621188).
- \_\_\_ 2. From the front side of the gate asm, remove the 10 screws (PN 1953318) securing the board asm on the rear bracket.
- \_\_\_ 3. Remove the rear bracket and save the screws.
- \_\_\_ 4. Disassemble the board and the card guide asm by removing the 4 screws 'D' and save the screws.

## 10.3 TSST Board Installation

- 1. Write the board PN and the EC of the TSST board on label (PN 03F7780) attached to the front of the enclosure.
- 2. Refer to previous figures to install the new board.

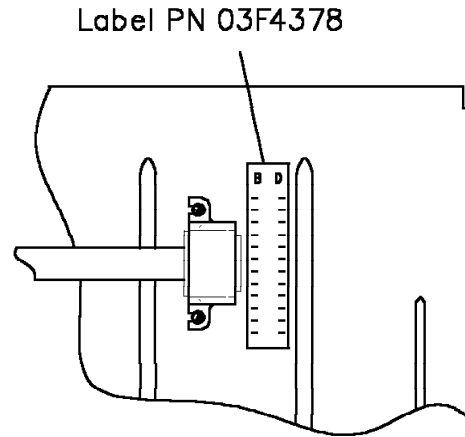
### 10.3.1 Board, Card Guide, Rear Bracket Assembly

- 1. Check on the board that no pin is bent or damaged.
- 2. Mount the TSST board on the card guide with the 4 screws 'D'.
- 3. On the front side secure the board asm on the rear bracket with the 10 screws (PN 1953318).
- 4. Reconnect the flat cables on the board in row Y and Z.
- 5. Plug the voltage test cable (PN 58X9315), provided by the FFBM, in position YM.
- 6. Secure the flat cables with the spring retainer.
- 7. Fasten the 2 screws 'B'.
- 8. From the rear of the bracket, secure the board with 8 screws (PN 1621188).

### 10.3.2 Enclosure Reassembly

- 1. Install the gate assembly on the enclosure, and insert the 12 screws 'C'.
- 2. Place the enclosure on a work surface oriented as installed in the machine and supported by the bottom the power enclosure.
- 3. Allow the gate assembly to lower as far as permitted by the loose screws.
- 4. Tighten the 12 screws securely.
- 5. Re-install the FDS ground cable with 2 screws.
- 6. Install the free end of voltage test cable on the left side of the enclosure with 2 screws (PN 2665527).

- 7. Affix the label (PN 03F4378) as shown in the following figure.

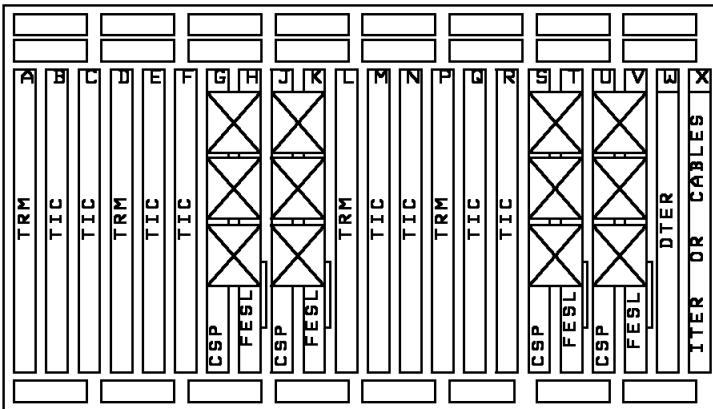


### 10.3.3 Enclosure Re-installation

- 1. Slide the enclosure asm in the frame, and secure with the 6 screws 'A'.
- 2. Take care not to damage the power board, the connectors and IOC bus on the left side of the enclosure.
- 3. Secure the cables in the enclosure raceway.
- 4. Re-install the power bus cables in 01H-A0J8 and 01H-A0J9.

## 10.4 Card and Cable Re-installation

### 10.4.1 Card Installation



- \_\_\_ 1. Re-install the TSS and/or HPTSS cards according to the *HONE configurator sheet*. If HPTSS, reconnect the ground wire.
- \_\_\_ 2. Re-install the crossovers.
- \_\_\_ 3. Route and plug the MUX cable(s) and/or HPTSS cables on the FESL and/or FESH cards, and re-install the clamps with screws to secure the MUX cables.

**Note:** If TRA(s) or other additional changes are being made (via other MES(s)), install them now.

- If you are installing this RPQ in a 3745-X1A connected to a 3746-900, go to item 6.
- Otherwise, continue.

- \_\_\_ 4. Replug the DTER in A1W2 (if HPTSS installed).
- \_\_\_ 5. Replug the ITER or IOC bus flat cables in A1X2. Secure the cables (if any) in the raceway.

- Go to item 9.

- \_\_\_ 6. Remove the cable (PN 43G3180) between the two DICO cards and replace it by cable (PN 43G3181) (shipping group Model XXA).
- \_\_\_ 7. Replug the DICO cards and IOC/DMA cables in TSST board.
- \_\_\_ 8. Route the cable (PN 43G3181) to the CCU board and in positions 01B-A1-G0W4 and 01B-A1-P0W4.
- \_\_\_ 9. Plug the BPC2 cards provided by the FFBM in place of TRM cards.

**Note:** Two types of BPC2 are available:

- First type: 4 wide card with a spacer (PN 398482) and a holder (PN 1953172), to be plugged in A1A1, A1D2, A1L2, A1P2.
  - Second type: 1 wide card with an intermix bracket (PN 1953172) to be plugged in A1A4, A1D4, A1L4, A1P4.
- \_\_\_ 10. Install the 8 fillers (PN 2733278) in positions A1B2, C2, E2, M2, N2, Q2, and R2.
  - \_\_\_ 11. Slide the door 'A' down on the left side of the enclosure.

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## 10.4.2 IOC Bus Cables and PSTY4

- \_\_\_ 1. Feed the flat cables through the frame back to the SACU board and re-install them in their positions.
- \_\_\_ 2. According to the adapter position in 01G-A1 board, re-install the PSTY4s previously removed.
- \_\_\_ 3. Tighten the tab screws and the bottom screws.
- \_\_\_ 4. Connect the connectors P1 of PSTY4s in the corresponding socket of the auxiliary power box.
- \_\_\_ 5. Re-install the dummy brackets (if any).

## 10.5 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.

## 11.0 Test Procedures

**Note:** During the following procedures some Alarm messages may be displayed on the screen. Click on **OK** to remove them.

- If you have installed the RPQ 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**.

- Go to Step 11.1.3, "Recreate the Power Configuration Table."

### 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 Recreate the Power Configuration Table

- \_\_\_ 1. Enter **POS**, press **Send/Enter**.
- \_\_\_ 2. Enter **C** (CREATE), press **Send/Enter**.  
When **Created Power Configuration Table** is displayed, check on **Base Frame** line that the PSTY4 id 9 and 11 are displayed according to 3745 configuration.  
PS number 8 and 10 are blanked.
- \_\_\_ 3. Enter **Y**, press **Send/Enter**.
- \_\_\_ 4. Press **F1**.

### 11.1.4 Update the CDF

- \_\_\_ 1. Enter **CDF**, press **Send/Enter**.
- \_\_\_ 2. Enter **3** (UPGRADE), press **Send/Enter**.
  - When **CDF UPGRADE COMPLETED** is displayed, press **F6**.
  - If adapters are not recognized, see the *MIP*, Chapter 1, and follow appropriate procedure.

### 11.1.5 Display the CDF

- \_\_\_ 1. Enter **CDF**, press **Send/Enter**.
- \_\_\_ 2. Enter **1** (DISPLAY/UPDATE), press **Send/Enter**.
- \_\_\_ 3. Enter **3** (FRAMES), press **Send/Enter**.
- \_\_\_ 4. Enter the CA number, press **Send/Enter**.  
Verify that adapter type and numbering are in accordance with your configuration.
- \_\_\_ 5. Press **F1**.

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### 11.1.6 Run the Diagnostics

- \_\_\_ 1. Enter **ODG**, press **Send/Enter**.
- \_\_\_ 2. Enter **3** (IOCB), press **Send/Enter**.
  - If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.
- \_\_\_ 3. According to the configuration:
  - a. Enter **5** (TSS) or **7** (HPTSS), the adapter address (3, 4, 7, or 8), press **Send/Enter**.
  - b. Repeat this step until all adapters in TSST board have been tested.
    - If **NO ERROR FOUND** is displayed, press **F1**.
    - If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

### 11.1.7 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 installed this RPQ in a 3745-X1A, go to step 11.1.9, "Relocate the Bypass Card."
- Otherwise, continue.

### 11.1.8 Logoff the 3745-X10 Console

Re-enable the channel adapters disabled in Step 10.1.2, "Log the 3745-X10 Console on" on page 5.

- Go to Step 11.2, "General IPL" on page 16.

### 11.1.9 Relocate the Bypass Card

**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, cabling the IOC/DMA buses.

### 11.1.10 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 -- Heading 'SP2' unknown --. 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**.

## 11.2 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 4.
- 2. Set the **Function** indicator value to **0** (general IPL).  
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.

## 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.**

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Headings
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Processing Options
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Runtime values:

Document fileid .....	P66X1363 SCRIPT
Document type .....	PNCDOC
Document style .....	FBII
Profile .....	EDFPRF30
Service Level .....	21Jun90
SCRIPT/VS Release .....	3.2.1
Date .....	93.12.08
Time .....	14:04:36
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/footering 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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