

Field Feature Bill of Material (FFBM)

PN 05F2768 RPQ 7L1216

**CONVERT an ALC (Air Line Control) scanner (RPQ 7L1092)
in a LSS (Low Speed Scanner) (FC 4720)**

in IBM 3745 Models X10/X1A and 3746-A11/A12

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STATUS:

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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 A11/A12.

2.0 Related BMs and ECs

None.

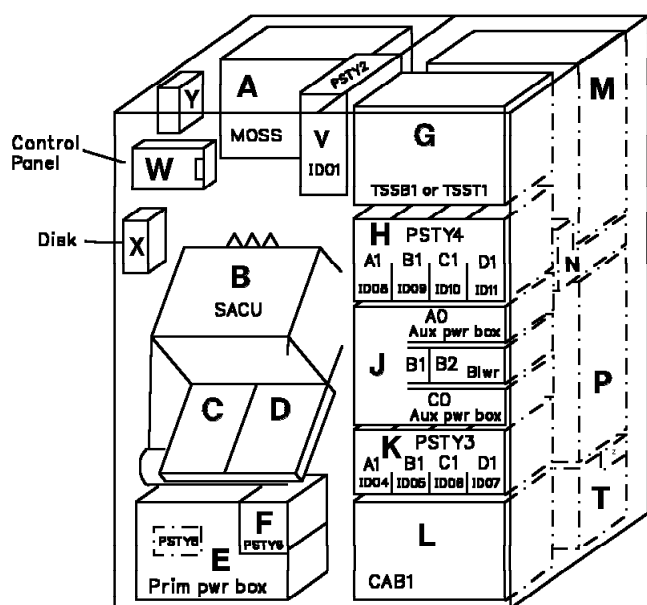
3.0 BM(s) to be Installed

3.1 Install the following BMs

- FFBM 05F2768 - Installation Instructions
- FFBM 05F2768 - Convert an ALC scanner in a LSS (SDLC scanner).

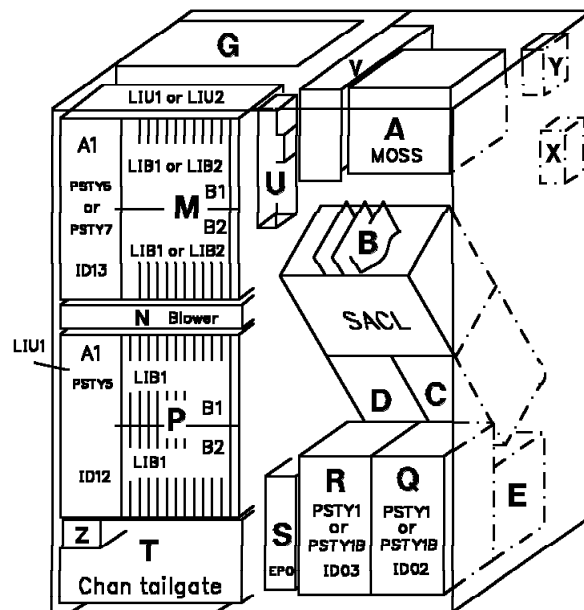
4.0 Preparation

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 the parts listed on the BM to be installed to determine whether all parts were received.
3. The ALC feature installation can be performed either ONLINE (concurrent mode with NCP running, MOSS ONLINE) or OFFLINE (complete machine power OFF, MOSS ALONE or OFFLINE).
4. The ALC feature to be converted must be the first of the ALC scanner on IOCBUS. The presence of a LSS after an ALC scanner is not allowed.
5. Tables to determine the feature positions according to the *Hone Installation sheet*.



Front View

3745



Rear View

| | | | | | | |
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- Table 1 : ALC scanner installation in TSST board. (01G-A1 board only)

| | | | | | | | | |
|----------------------|--------------|-----|--------------|----|--------------|-----|--------------|----|
| Adapt. Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Cards in CSP | N/A | N/A | G2 | J2 | N/A | N/A | S2 | U2 |
| 01G-A1 FALC | N/A | N/A | H2 | K2 | N/A | N/A | T2 | V2 |
| Power Supply (PSTY4) | 08 01H-A1 | | 09 01H-B1 | | 10 01H-C1 | | 11 01H-D1 | |

- Table 2 : ALC scanner installation in TSSB board (01G-A1 only)

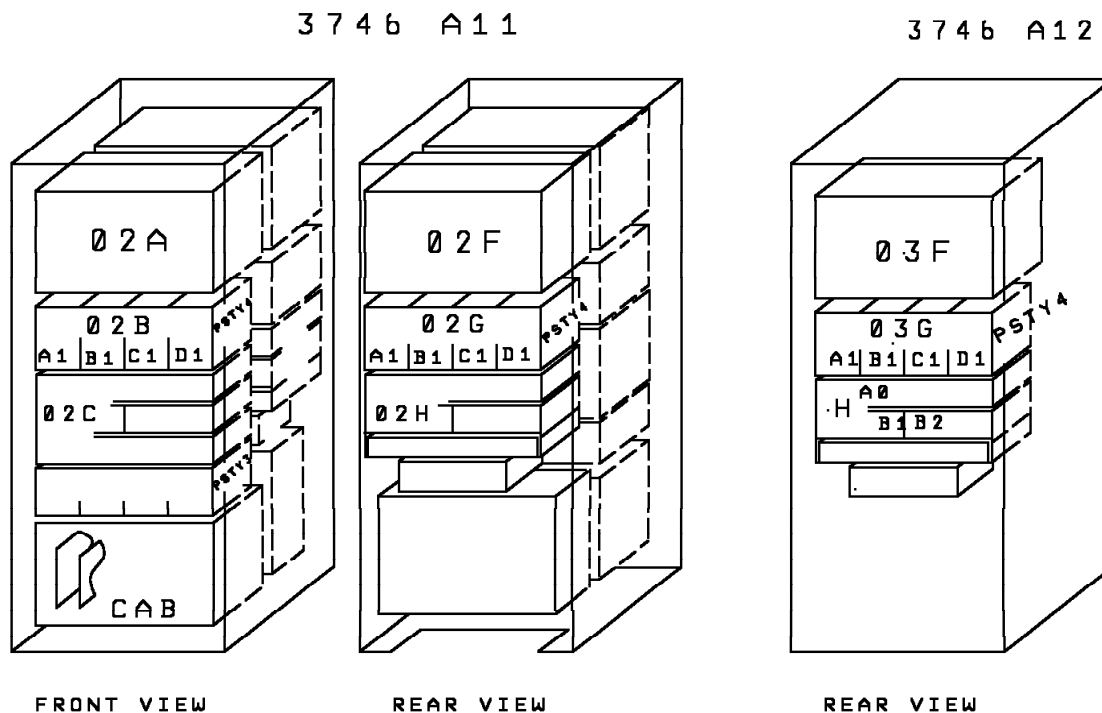
| | | | | | | | | |
|----------------------|--------------|----|--------------|----|--------------|----|--------------|----|
| Adapt. Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| CARDS CSP | E2 | G2 | J2 | L2 | N2 | Q2 | S2 | U2 |
| IN 01G-A1 FALC | F2 | H2 | K2 | M2 | P2 | R2 | T2 | V2 |
| Power Supply (PSTY4) | 08 01H-A1 | | 09 01H-B1 | | 10 01H-C1 | | 11 01H-D1 | |

- TABLE 3 : ALC adapter installation in 02A-A1 (adapter frame 2)
02F-A1 (adapter frame 2)
03F-A1 (adapter frame 3)

| | | | | | | | | |
|-------------------------------------|--------------|----|--------------|----|--------------|----|--------------|----|
| Adpt.pos.in 02A-A1 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Power supply: ID (PSTY4) : Position | 18 02B-A1 | | 19 02B-B1 | | 20 02B-C1 | | 21 02B-D1 | |

| | | | | | | | | |
|-------------------------------------|--------------|----|--------------|----|--------------|----|--------------|----|
| Adpt.pos.in 02F-A1 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Power supply: ID (PSTY4) : position | 22 02G-A1 | | 23 02G-B1 | | 24 02G-C1 | | 25 02G-D1 | |

| | | | | | | | | |
|-------------------------------------|--------------|----|--------------|----|--------------|----|--------------|----|
| Adpt.pos. in 03F-A1 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| Power supply: ID (PSTY4) : position | 26 03G-A1 | | 27 03G-B1 | | 28 03G-C1 | | 29 03G-D1 | |
| Cards CSP | E2 | G2 | J2 | L2 | N2 | Q2 | S2 | U2 |
| Position in TSSB FALC | F2 | H2 | K2 | M2 | P2 | R2 | T2 | V2 |



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

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

6.0 Purpose and Description

6.1 Purpose

Convert an ALC feature (RPQ 7L1092) in a Low Speed Scanner (FC 4720).

6.2 Description

Exchange the FALC card by a FESL card.

7.0 Installation Time

| FFBM | Machine Hrs. | System Hrs. |
|---------|--------------|-------------|
| 05F2768 | 1.0 | 00.0 |

8.0 Tools/Materials Required

None.

Installation (steps 9-11)

9.0 Safety

- The adapter installation 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).

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10.0 Details of Installation

- If you are installing this RPQ with the machine **POWER ON**, go to Step 10.2, "Adapter Installation 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 installing this RPQ in a 3745-X1A or in a 3746-A11/A12 connected to a 3745-X1A, go to Step 10.1.3, "Log the Service Processor on."
- Otherwise, continue.

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, "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**.

10.1.4 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 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**.

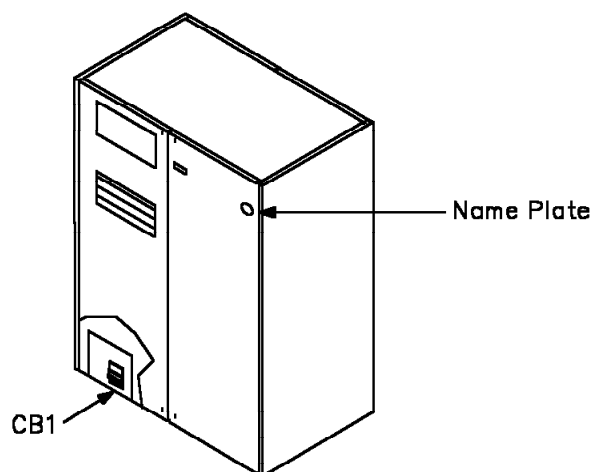
Check for the presence of an **N** for the LA position to be installed according to the *HONE configurator sheet*.
Press **F1**.

10.1.6 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **5** (TSS), 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.

10.1.7 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.



- Go to Step 10.3, "Hardware Installation" on page 9.

10.2 Adapter Installation 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 adapter to be installed is in an **EVEN** position, notify the customer to de-activate all the lines connected on the ODD adapter 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 installing this RPQ in a **3745-X1A** or in a **3746-A11/A12** connected to 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 10.2.5, "Display the CDF" on page 8.

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**.

| | | | | | | |
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10.2.4 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.

10.2.5 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 **7** (LINE ADAPTERS (LA)), press **Send/Enter**.
Check for the presence of an **N** for the LA position to be installed according to the *HONE configurator sheet*. Press **F1**.

- If you are installing this RPQ in an **ODD** position (1 or 5), go to Step 10.3, "Hardware Installation" on page 9.
- Otherwise, continue.

10.2.6 Adapter Disconnect from NCP

Note: If you install an adapter in an **EVEN** position, you must also disconnect from the NCP the adjacent **ODD** LA 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), 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**.

10.2.7 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **5** (TSS), 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.

10.2.8 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, "Hardware 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 install an adapter 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.

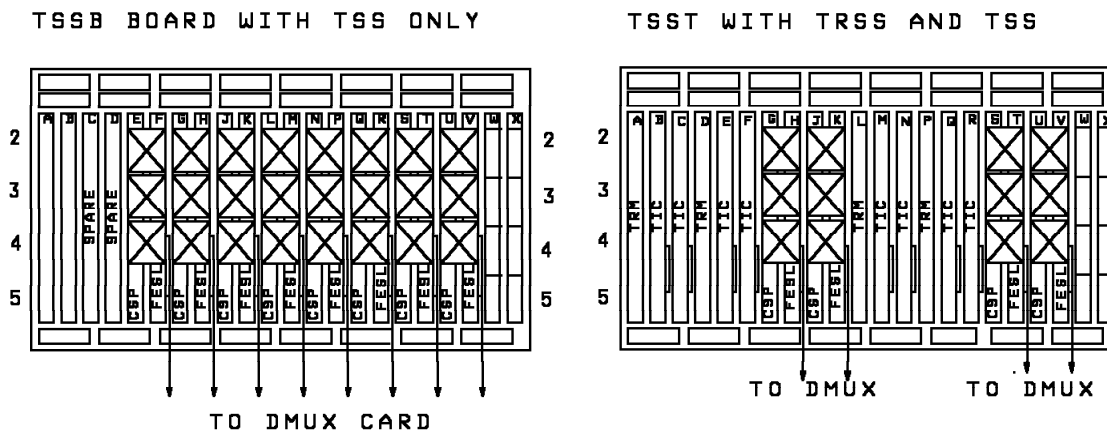
10.3 Hardware Installation

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

With the *Hone Configuration sheet* and tables in Step 10.3, "Hardware Installation," identify the frame, and locate the adapter enclosure (01G, 02A, 02F, or 03F) where the adapter will be converted.

10.3.1 Card Exchange

- ___ 1. Open the corresponding system cover and the shield over the adapter enclosure.
- ___ 2. Identify the adapter card positions and the FALC to be removed.
- ___ 3. Remove the three crossovers from the top card connectors.
- ___ 4. Unplug the FALC card. Disconnect the MUX cable from the card connector.
- ___ 5. In the same position, install the provided FESL. Connect the MUX cable in the card, then plug the FESL card.



Note: FESL means FALC or FESL.

- ___ 6. Re-plug the three crossovers on top card connectors of the TSS cards.

10.4 Covers

- ___ 1. Reinstall covers and shields opened in previous Steps.

- After the card installation with 3745 POWER ON, go to Step 11.2, "Test Procedure After an Adapter Installation Power ON" on page 12.
- Otherwise, continue.

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, these can be removed by clicking on **OK**.

11.1 Test Procedures after Complete POWER OFF

- If you have installed this RPQ in a 3745-X1A or in a 3746-A11/A12 connected to 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, "Update the CDF."

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 the **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**.
A **Y** should appear under the LA number you have just converted.
Check the **LA TYPE** value: 1 for TSS.
Press **F1**.

11.1.5 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **5** (TSS).
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 installed this RPQ in a **3745-X1A** or in a **3746-A11/A12** connected to a **3745-X1A**, go to Step 11.1.8, "Logoff MOSS-E."
- 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 11.1.9, "General IPL."

11.1.8 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 11.1.2, "Open MOSS/MOSS-E Session" on page 10.
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**.

11.1.9 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 6.
- ___ 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 13.

11.2 Test Procedure After an Adapter Installation Power ON

11.2.1 Create the Power Configuration Table

11.2.2 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**.

11.2.3 Update the CDF

- ___ 1. Enter **CDF**, press **Send/Enter**.
- ___ 2. Enter **7** (LINE ADAPTERS (LA)), press **Send/Enter**.
LA TYPE=4 is still displayed for the LA you have just converted.
- ___ 3. Enter the LA number, press **Send/Enter**. Press **F5** (Update).
- ___ 4. Enter **1** (Replace), press **Send/Enter**.
- ___ 5. When **CDF LA CHANGE COMPLETED** is displayed, press **F6**.
- ___ 6. Verify the LA type (LSS=1). Press **F1**.

11.2.4 Concurrent Diagnostics

- ___ 1. Enter **CDG**, press **Send/Enter**.
- ___ 2. Enter **5** (TSS), 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.

11.2.5 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.
Note: Repeat the Step 2 for the adjacent scanner, if required.
- ___ 3. Press **F1**.

11.2.6 Logoff the Console

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

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 installed this RPQ in a 3745-X1A or in a 3746-A11/A12 connected to a 3745-X1A, go to Step 11.2.10, "Log the Service Processor off" on page 13.
- 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

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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| TABLE | P05F2768 SCRIPT | 3 | 4.0, Preparation 7, 8, 8 |
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| SP1 | P05F2768 SCRIPT | 6 | 10.1.3, Log the Service Processor on 6 |
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| FF | P05F2768 SCRIPT | 8 | 10.2.8, Power OFF the PSTY4 |
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Processing Options

Runtime values:

| | |
|-------------------------|-----------------|
| Document fileid | P05F2768 SCRIPT |
| Document type | PNCDOC |
| Document style | FBII |
| Profile | EDFPRF30 |
| Service Level | 21Jun90 |
| SCRIPT/VS Release | 3.2.1 |
| Date | 93.07.07 |
| Time | 12:48:31 |
| 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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| Imbed Trace |
|-------------|

| | |
|---------|----------|
| Page 6 | LOGONLC |
| Page 6 | LOGONSP |
| Page 6 | PRESSEND |
| Page 7 | LOGONSP2 |
| Page 8 | PRESSEND |
| Page 10 | NOTE1 |
| Page 11 | LOGOFFSP |
| Page 13 | AFTRINS2 |