

Field Feature Bill of Material (FFBM)

PN 17G5496

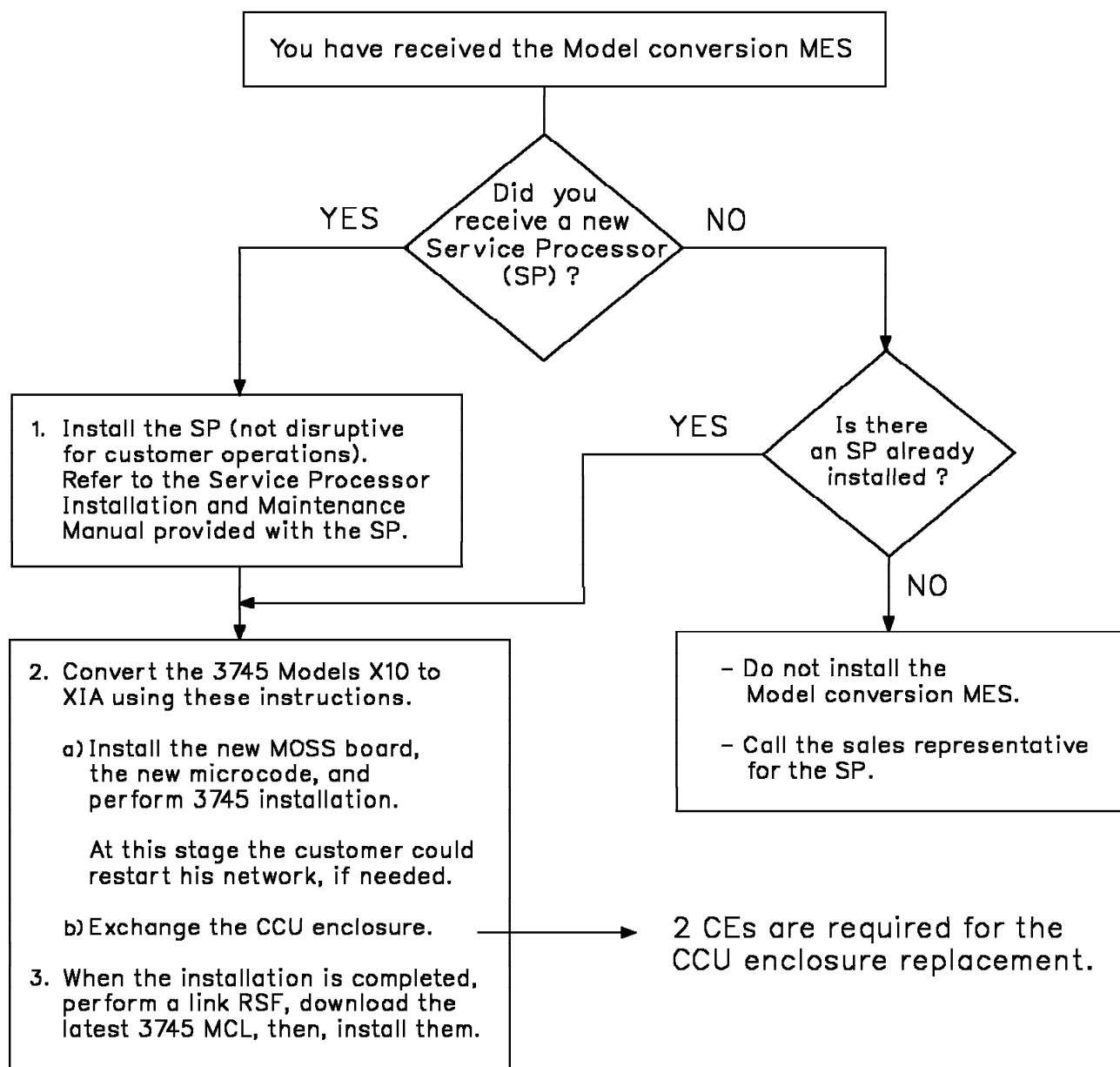
CONVERT an IBM 3745 Model 210 to 61A

Written by: J. Michaut
Checked by: J. Combes
Approved by: A. Badino
Reviewed by: B. Smith

3745 FFBM	PN 17G5496 1 of 34	See EC History	EC D55659B 09MAR94	EC D55799 16SEP94	EC D55883 11MAY95	EC E27926 14MAR97
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PN 17G5496 2 of 34	See EC History	EC D55659B 09MAR94	EC D55799 16SEP94	EC D55883 11MAY95	EC E27926 14MAR97
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- To meet the customer's requirements for machine availability, the installation of this MES can be performed in either ONE or TWO stages.
- When performed in TWO stages, the installation will be halted after Part 1 and the machine will be tested. At this point, the machine can be restarted and the NCP reloaded. If the customer must use the machine at this point, completion of Part 2 may be delayed until additional machine time is available.
- If you elect to complete this installation in one stage, both Parts 1 and 2 will be completed before testing and returning the machine to the customer.
 1. Part 1: Install the MOSS board and the microcode. Connect the (SP) Service Processor (Steps 10.0 through 10.4).
 2. Part 2: CCU enclosure replacement (Steps 10.5 through 10.10).



Before Installation (steps 1-8)

VERY IMPORTANT

MES should be installed without delay, after receipt, to avoid multiple MCLs needed for the microcode.

Net Priced Feature

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

1.0 Machines Affected

3745 Model 210.

This feature should only be applied on the machine serial for which it is specified.

2.0 Related BMs and ECs

2.1 Prerequisites

(Must be installed prior to this installation)

- 72MB HDD must be installed.
Checkpoint: Check in Machine History for EC A97883, or A98113, or A97906.
- CSP card: EC A47544.
Checkpoint: CSP cards in 01G-A1 must be PN 11F5035 or later (see ZZ001).
- CAL card: EC A47547.
Checkpoint: CAL cards in 01L-A1 must be PN 11F6090 or later (see ZZ001).
- NCP V6R2 (Minimum level) must be installed and validated before starting the Model conversion MES.
Checkpoint: Perform MLT function on MOSS.
- A Service Processor must be installed before starting the Model conversion MES.
A Service Processor can connect to a maximum of four 3745 Model XXAs.

2.2 Concurrent

(Must be installed together)

None.

3.0 FFBMs to be Installed

- Model conversion MES:
 - 17G5496 - Installation Instructions
 - 17G5478 - Convert a 3745 Model 210 to 61A MOSS board + CCU enclosure 4MB
 - or 17G5479 - Convert a 3745 Model 210 to 61A MOSS board + CCU enclosure 8MB
 - or 17G5480 - Convert a 3745 Model 210 to 61A MOSS board + CCU enclosure 16MB
- An external console cable is provided:
 - 43G3172 - Console cable (US only)
 - or 43G3173 - Console cable (World Trade)
- An SP is required for 3745 operations.
One of these FFBMs is shipped on request.
 - 58G5543 - Service Processor (World Trade)
 - or 58G5547 - Service Processor (US/Canada)
- If there is no HSS and no ELA installed in your 3745, install the following FFBM.
 - 43G3171 - DTER card.

As required FFB/M(s):

- 80G5106 - CSP Card Exchange
- 80G5108 - CAL (CADS) Card Exchange
- 80G5112 - Hard Disk Drive Exchange

4.0 Preparation

- Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.
- Check all items listed on the BM(s) to determine that all parts have been received.
- The installation must be performed off-line.

3745 FFBM	PN 17G5496 4 of 34	See EC History	EC D55659B 09MAR94	EC D55799 16SEP94	EC D55883 11MAY95	EC E27926 14MAR97
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4. Ensure that RETAIN search has been performed and all prerequisites have been installed. Perform a search using **3745AUPGRADE** and **CCUPGRADE** as SAS keywords.

Note: To avoid a critical situation it is recommended to **have a spare 80 Meg hard disk** available on site.

5. Ensure that RSF link is installed and working. If the customer has not provided an RSF link, review or have marketing review with the customer for maintenance exposure. Before performing the RSF link, register the 3745 new Model in CCPF.

6. To check if a new MCLs level is necessary, perform a RETAIN search using **3745UPGRADE CODE LEVEL** for the TDR which gives the most recent level of microcode available for this machine (model).

To install the last level of MCLs, the most efficient way is with the LIC upgrade procedure. Use the RETAIN search, **3745ECA134 COF**, for the TDR which explains the procedure for ordering the latest level microcode from COF.

Third party can get the latest level of code through their normal microcode ordering procedures.

MCLs can be obtained from RETAIN (If if the customer provide an RSF link), or by ordering the 3746 optical disk MCL via CCSS.

7. Ensure that a current set of backup diskettes has been created by saving the hard disk contents onto diskettes before powering OFF the 3745 (refer to DISK/Diskette Management Function in the *Service Function Manual*).
8. The DMA bus is required on the 3745 Model 61A. If the HSS or ELA feature is not already installed, you will receive DMSW (installed in the new CCU enclosure) and DTER cards (provided with FFBM 43G3171).
9. Follow the unpacking instructions attached to the case, to unpack the MES material. Do not damage the packing boxes. They will be used for repacking.
10. To support the new Model, ACF/NCP V6R2 (or later) must be installed.

Additional information:

- All parts to be returned should be handled carefully. Returnable parts must be received at the factory in a good working order.
- To save installation time and machine down time, repacking will be performed after general IPL section (Step 11.6).
- When hardware installation of the CCU enclosure is completed, and before starting the test procedure, each CE should check the other's work.
- Before starting this MES, check that the serial number displayed on the 3745 MOSS console matches the serial number printed on the *3745 Installation parameters* diskette (PN 43G3225).

Important Note

If the last five digits of the 3745 machine serial number do not agree with the serial number printed on the *3745 Installation Parameters* diskette (PN 43G3225), stop the installation immediately and call the IBM Support Center.

Verify also the plant ID. If plant ID = **00** it will be replace by **23** (see note in Step 10.12.2).

- Use the DII function to purge all NCP dumps from the MOSS hard disk.
- Use the DDD function to delete the MOSS dump (CHGDMP) from the MOSS hard disk.

5.0 Programming

5.1 Diagnostic Programs

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

5.2 System Programs

NCP V6R2 is the minimum level required to support the 3745 Model 61A.

6.0 Purpose and Description

3745 FFBM	PN 17G5496 5 of 34	See EC History	EC D55659B 09MAR94	EC D55799 16SEP94	EC D55883 11MAY95	EC E27926 14MAR97
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6.1 Purpose

To convert a 3745 Model 210 to a Model 61A.

6.2 Description

1. MOSS changes.
 - Install new Service Processor.
 - Replace the MOSS board/card assembly and console tailgate.
 - Install new MOSS microcode.
2. CCU enclosure replacement.
 - Remove TCM CCU enclosure, PSTY1, air moving device, and associated cabling.
 - Install a NEW CCU enclosure, new PSTY1Bs, and associated cabling.

7.0 Installation Time

- 2 CEs are required for the CCU replacement.
- To be reported as MES.

FFBMs	Machine Hours	System Hours	Nbr of CE
17G5478 or 17G5479 or 17G5480	6.0	0.0	2

The installation may be staged with a checkpoint before exchanging the CCU enclosure.

Estimated time:

Part 1: 2.7 Hrs. Part 2: 3.9 Hrs.

8.0 Tools/Materials Required

- ESD kit (PN 6428316)
- Isopropyl Alcohol
- TCM tool kit (PN 69X7667).

3745 FFBM	PN 17G5496 6 of 34	See EC History	EC D55659B 09MAR94	EC D55799 16SEP94	EC D55883 11MAY95	EC E27926 14MAR97
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Installation (steps 9-11)

9.0 Safety

- 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

Note: Before starting the Model conversion installation, be sure that a Service Processor is available. If you received the Service Processor as part of the MES, install the SP within 10m (33 feet) of 3745.

Before the installation, ask the customer:

- ___ • To set all lines and channel addresses off-line for this 3745.
- ___ • To provide the maintenance password.
- ___ • To logoff the console, if not already done.

10.1 Checking, Diagnostics

10.1.1 MOSS IML

From the control panel:

- ___ 1. Check that the **Power Control** indicator displays **3**. If it does not, record the value ___. Then, set the **Power Control** indicator to **3**.
Press the **Validate** key.
- ___ 2. Set the **Service Mode** indicator to **1**.
Press the **Validate** key.
- ___ 3. Set the **Function** indicator to **1**.
Press the **Validate** key.

The **MOSS IML** is completed when **F0E** is displayed on the control panel.

10.1.2 Installing in Stages

- If you are beginning the installation, go to Step 10.1.3, "Disable CA(s)."
- If you are resuming the installation after staging following the Service Processor installation and MOSS board exchange, and have returned the machine to the customer as a Model 21A, continue with this Step.

From the Service Processor:

- ___ 1. If not logged ON, and the **MOSS-E View** window displayed, click on **Program**. Then, click on **LOG ON MOSS-E**.
- ___ 2. Enter the maintenance password, press **Enter**.
- ___ 3. On the **MOSS-E View** window, double click on the **ICON** of the identified 3745.
- ___ 4. On the **3745 Menu** window, double click on **MOSS Console**.
Wait for **Function Selection Rules** screen.
- ___ 5. Enter **CID**; Go to Step 10.1.3, "Disable CA(s)," and skip item 3.

10.1.3 Disable CA(s)

From the local console:

- ___ 1. When the **CA INTERFACE DISPLAY** screen is displayed, record **Enabled Channel adapters** then **Disable** all channel adapters.

Note: If a 3746 A11 is installed, press **F8** to display the channel adapters 8 to 16.
- ___ 2. Wait for **Interface Status Disabled** for all CA's.
Press **F4**.
- ___ 3. Enter the maintenance password, press **Send**.
If the MOSS is in **MOSS ALONE** state, go to next Step.
- ___ 4. If **NCP LOADED** and **CCU RUNNING**, enter **RST** to reset the CCU.

The MOSS goes in **MOSS ALONE** state.

10.1.4 Verify the CDF

- ___ 1. Enter **CDF**, press **Send**.
- ___ 2. Enter **4** (VERIFY), press **Send**.
The value from the **CDF DATA** and the **MACHINE DATA** should be identical. If it does not, physically, verify the features, and if it is correct update the CDF data with the machine value, enter **2**, press **Send**.
When the message **CDF VERIFY COMPLETED** is displayed, press **F1**.

10.1.5 Record Scheduled Power ON

- ___ 1. Enter **TIM**, press **Send**.
- ___ 2. Enter **2**, press **Send**.
- ___ 3. Record, on the screen below, the **SCHEDULED POWER ON DATA** if filled.

```

FUNCTION ON SCREEN:  TIME SERVICES
                     SCHEDULED POWER ON DATA

- FILL IN, MODIFY, OR BLANK APPROPRIATE FIELD, PRESS SEND.

SUNDAY      (HH:MM) ==>
MONDAY      (HH:MM) ==>
TUESDAY     (HH:MM) ==>
WEDNESDAY   (HH:MM) ==>
THURSDAY    (HH:MM) ==>
FRIDAY      (HH:MM) ==>
SATURDAY    (HH:MM) ==>

SCHEDULING ACTIVE (Y=YES, N=NO) ==>
  
```

- ___ 4. Press **F1**.

10.1.6 Power Configuration Table

- ___ 1. Enter **POS**, press **Send**.
- ___ 2. Enter **C**, press **Send**.
- ___ 3. Record, on the screen below, the displayed **CREATED POWER CONFIGURATION TABLE**.

```

FUNCTION ON SCREEN:  POWER SERVICES
                     CREATED POWER CONFIGURATION TABLE

3745      : - - - - -
3746-A11  : - - - - -
3746-A12  : - - - - -
3746-L13  : - - - - -
3746-L14  : - - - - -
3746-L15  : - - - - -
  
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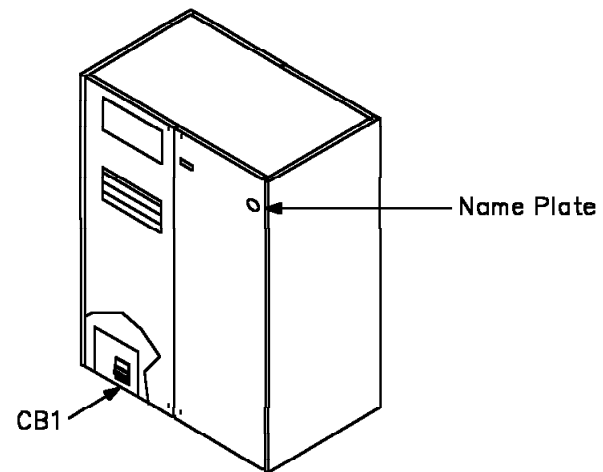
- ___ 4. Enter a **Y** to confirm, press **Send**.
- ___ 5. Press **F1**.

10.1.7 Diagnostics

- ___ 1. Enter **ODG**, press **Send**.
- ___ 2. Enter **3** (IOCB), press **Send**.
 - If **NO ERROR FOUND** is displayed, press **Send**.
 - Otherwise, see the *MIP*, Chapter 1.
- ___ 3. Power OFF the 3745 local console.

10.1.8 Power OFF

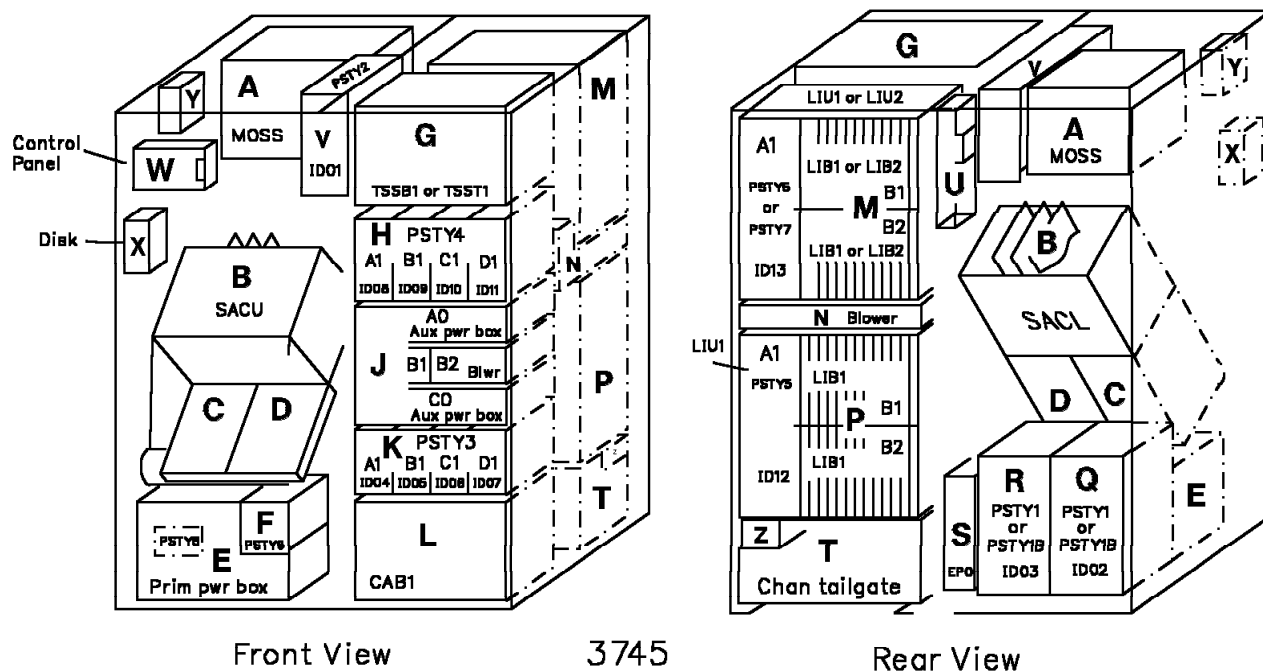
- ___ 1. From the control panel, press the **Power OFF** key.
- ___ 2. Open the front system cover and switch **CB1** OFF.



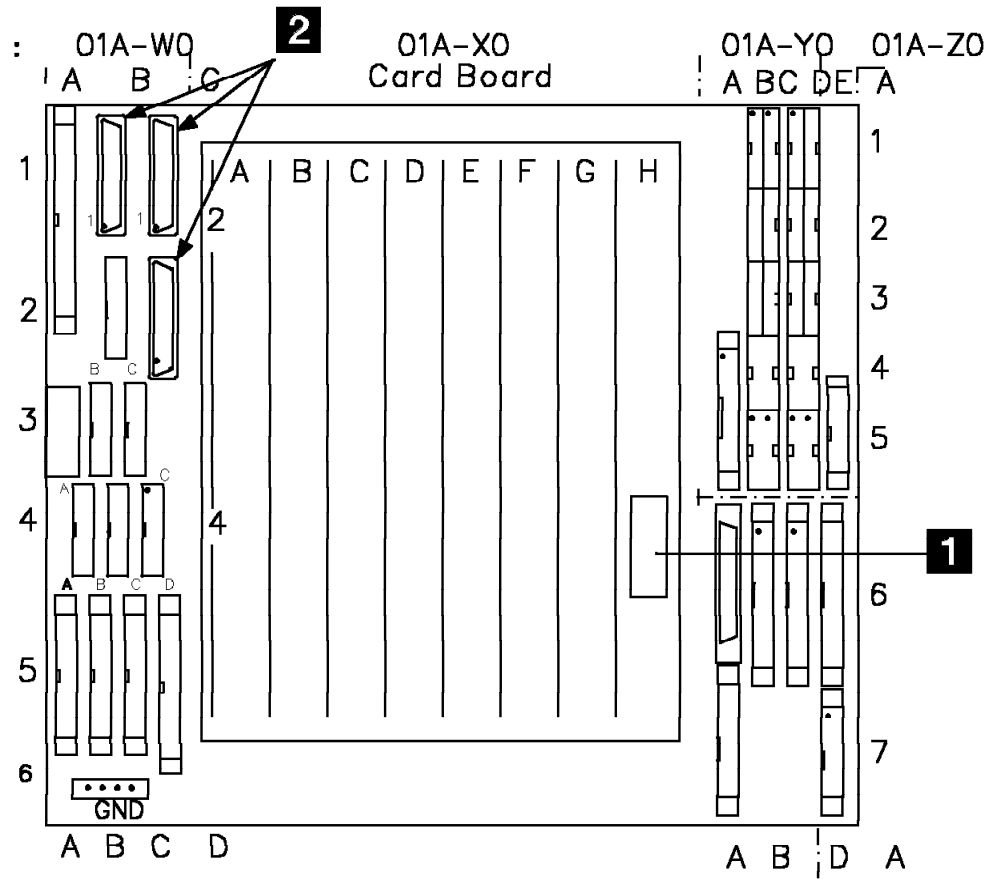
10.2 MOSS Board Exchange

Warning: Follow existing ESD procedures when handling logic parts.

10.2.1 MOSS Board Removal



1. Open the two rear system covers of 3745, and locate the MOSS board in 01A and console tailgate in 01U.

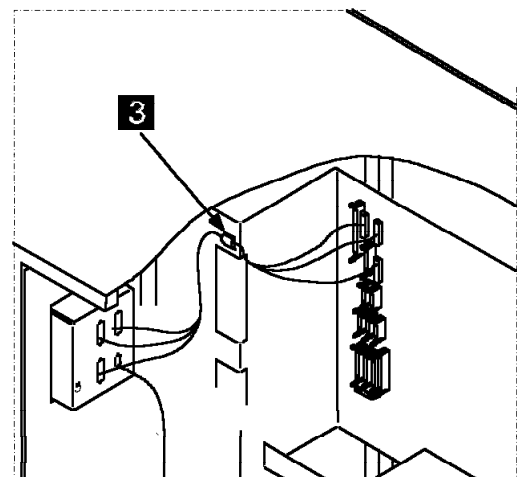


- ___ 2. To prevent small parts from falling into the CCU board, cover the CCU board assembly with cloth, plastic, etc.
- ___ 3. Disconnect the cable from the MAC card in 01A-X0H1 .1..
- ___ 4. From MOSS board positions 01A-W0B1, C1, and C2, disconnect the internal console cables .2..
- ___ 5. In the next Steps, all the remaining cables connected on MOSS board will be unplugged from the MOSS board, then reconnected on the new MOSS board. To identify the positions of the cables to be re-installed, mark the positions of MOSS cables in the above figure.

Warning

To prevent loss of the screws securing the cable, pull lightly on the cable while you are loosening the screws.

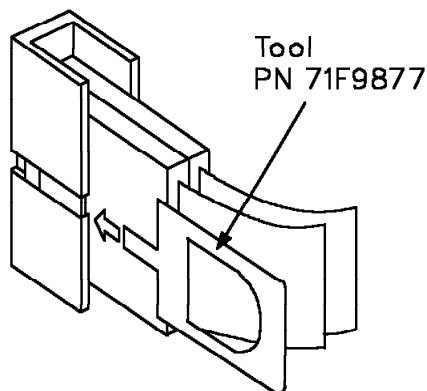
Remove the cables from the clamp .3., and route them back to the console tailgate. They will not be re-connected.



Note

To prevent damage to the cables and the board, use tool (PN 71F9877) to unlock the connector as shown on the following figure.

Gently, insert the blade. Then, pull on the cable housing to remove the cable.

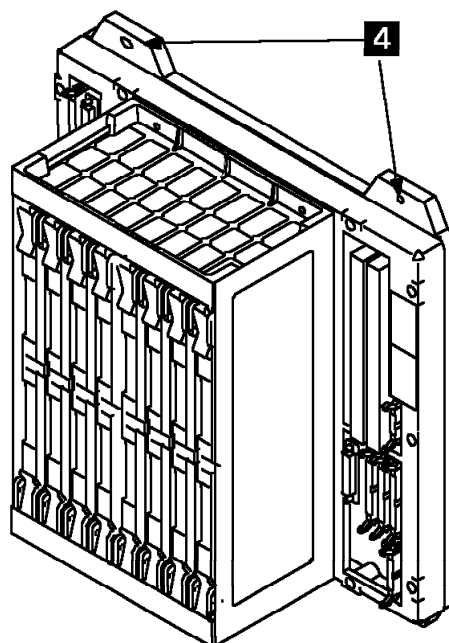


Disconnect all the cables from the MOSS board (01A-W0, 01A-Y0, and 01A-Z0 areas).

Verify that cables are labelled according to their positions.

If it does not, use labels (PN 811825).

- ___ 6. Cables Y0C1, Y0C2, Y0C3, Y0D6, Y0E3, and Z0A6 can be pulled through the access holes to the front area of the 3745. This will provide more clearance for the removal/installation of the MOSS board.
- ___ 7. Secure the remainder of the cables to the right side of the frame to prevent interference during the MOSS board removal and installation.



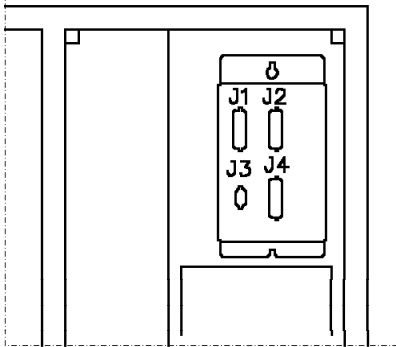
- ___ 8. Remove 4 screws securing the MOSS board assembly to the frame **4**. Save screws for re-installation.
- ___ 9. Carefully, remove the MOSS board assembly from the 3745. Disengage the right side of the board assembly first. Place the MOSS board assembly in a safe place.

10.2.2 New MOSS Board Installation

- ___ 1. Carefully, install the new MOSS board assembly provided by the FFBM, using saved screws.
- ___ 2. Reconnect all the removed cables to the MOSS board, except the three internal console cables.
- ___ 3. Verify that all cables have been re-plugged in MOSS Board in all positions they were marked in figure on previous page.

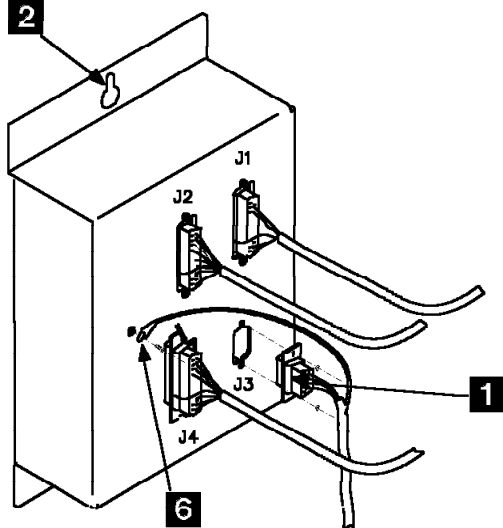
10.3 Cable Installation

10.3.1 Console Cables Removal



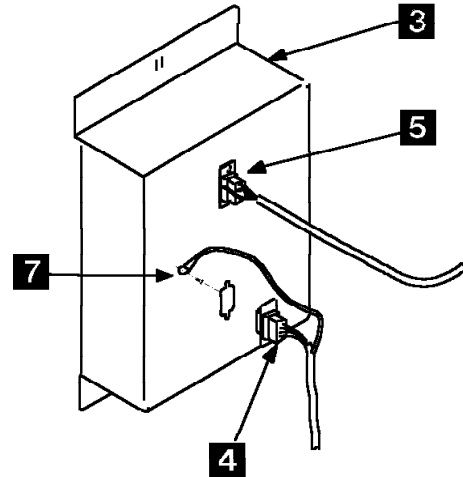
- 1. Disconnect the external cables from J1, J2, and J4 positions. Remove them from the machine. They will not be re-used.
- 2. If present, disconnect the external cable from J3. It will be reconnected later.

10.3.2 Console Tailgate Replacement



- 1. Remove screws and nuts securing the **Power On Operate** cable in position J3 .1. Save screws and nuts.
- 2. Remove the screw .6. securing the ground cable to the tailgate taking care not to lose the washer. Save screw and washer.

- 3. Remove the cable .1. it will be re-installed later.
- 4. Loosen two screws .2. and remove the tailgate from the machine with the 3 internal cables attached (RSF, REMOTE, and LOCAL).
- 5. In the same position, install the new tailgate asm (PN 17G5608) .3.

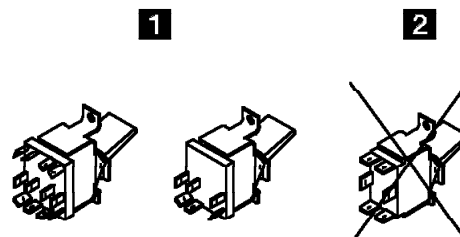
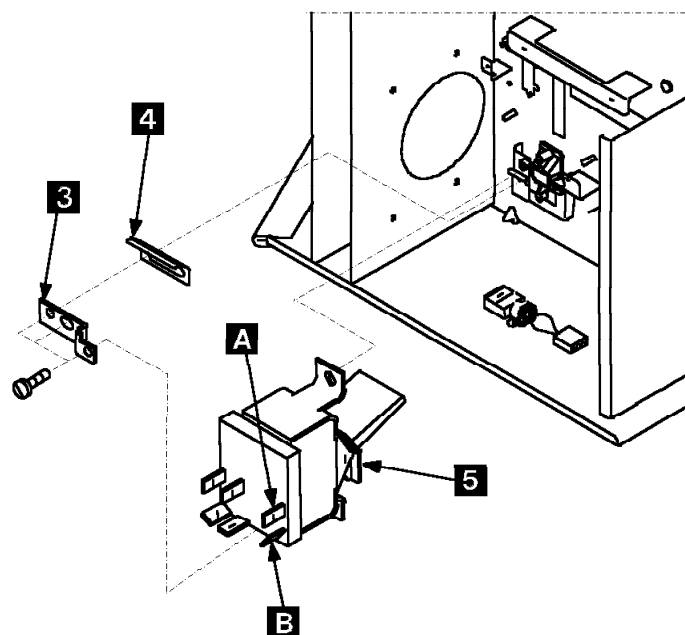


- 6. Route and connect the internal console cable .5. attached to the console tailgate to the MOSS card 01A-E0 (MOSS LAN attachment card). Secure the cable in the clamp (see figure on page 9).
- 7. Re-install the **Power On Operate** cable in connector position J3 of tailgate .4., using the screws and nuts saved earlier. Attach the ground wire .7. using screw and washer saved earlier.
- 8. If present, reconnect the external cable to connector J3.

10.3.3 External Console Cable

- 1. Connect external console cable (PN 76F9440 or 76F9441) provided by FFBM 43G3172 or 43G3173 to connector J1 of the console tailgate.
- 2. Route the cable to the **Service Processor Access Unit**.
- 3. Connect the cable end in any empty slot of the **Service Processor Access Unit**.
- 4. If you have just installed the Service Processor as part of this MES, check that the SP is connected to the Service Processor Access Unit.

10.4 EPO Switch Exchange



- ___ 1. Open the 3745 control panel gate.
- ___ 2. From the rear of the gate, locate the EPO switch, and compare with the above figure:
 - ___ a. If it looks like switches **1**, switch replacement is not required. Skip to the Information Box below.
 - ___ b. If it looks like switch **2**, you must install the switch (PN 8492368) with the bracket (PN 43G3154) provided by the FFB/M as follows:
 - ___ c. Remove the bracket **3** by removing three screws. Save screws and spring **4**.
 - ___ d. Remove the switch **5** by removing the upper screw. Save the screw.
 - ___ e. Install the new EPO switch using the screw saved in previous step.
 - ___ f. Install the new bracket **3** and the spring **4** using the three screws saved earlier.

Note: Push the spring to the right for switch locking.
 - ___ g. Disconnect the wires from the old switch and reconnect one wire (1) on contact **A** and second wire (2) on contact **B**.
 - ___ h. Close the control panel gate.

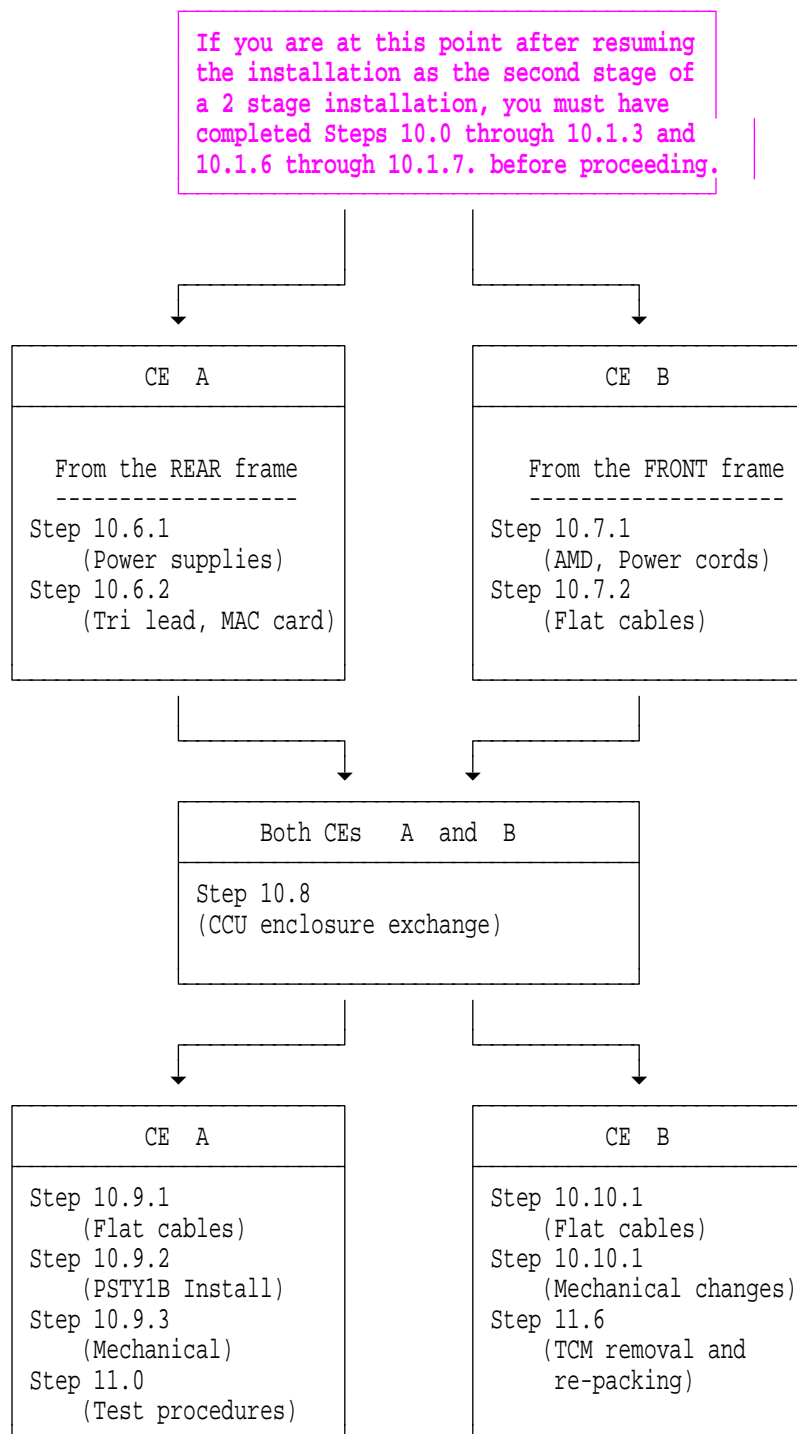
Information

At this point, you have the option of staging the installation. If you want to test before exchanging the CCU enclosure, you must remove the MAC card (01A-X0H1) installed in the new MOSS board, re-install the original MAC card, and reconnect the cable to MAC card. Then, go to Step 10.11, "Power ON" on page 26, complete Steps 10.11 through 11.1.5, and return to Step 10.5, "CCU Enclosure Replacement" on page 15.

If you do not want to test before the installation is completed, leave the new MAC card in place and continue now with Step 10.5, "CCU Enclosure Replacement" on page 15.

10.5 CCU Enclosure Replacement

As instructions are divided in two procedures, 2 CEs may be present.
An additional person may be called to move the enclosure unit.



10.6 CE 'A' Tasks

Warning: Follow existing ESD procedures when handling logic parts.

10.6.1 Power Supplies

Open the rear system door(s), disconnect the ground wire(s) (if present) from the right door, and remove the door.

Note: To provide clearance for easier door removal, you may have to loosen two screws securing the end cover.

- ___ 1. From the rear, remove the shield **1** over the CCU cards if present.
- ___ 2. Locate the PSTY1 in location 01Q and remove the plastic cover from the power TB **2**.
Disconnect all FDS cables from the TB.

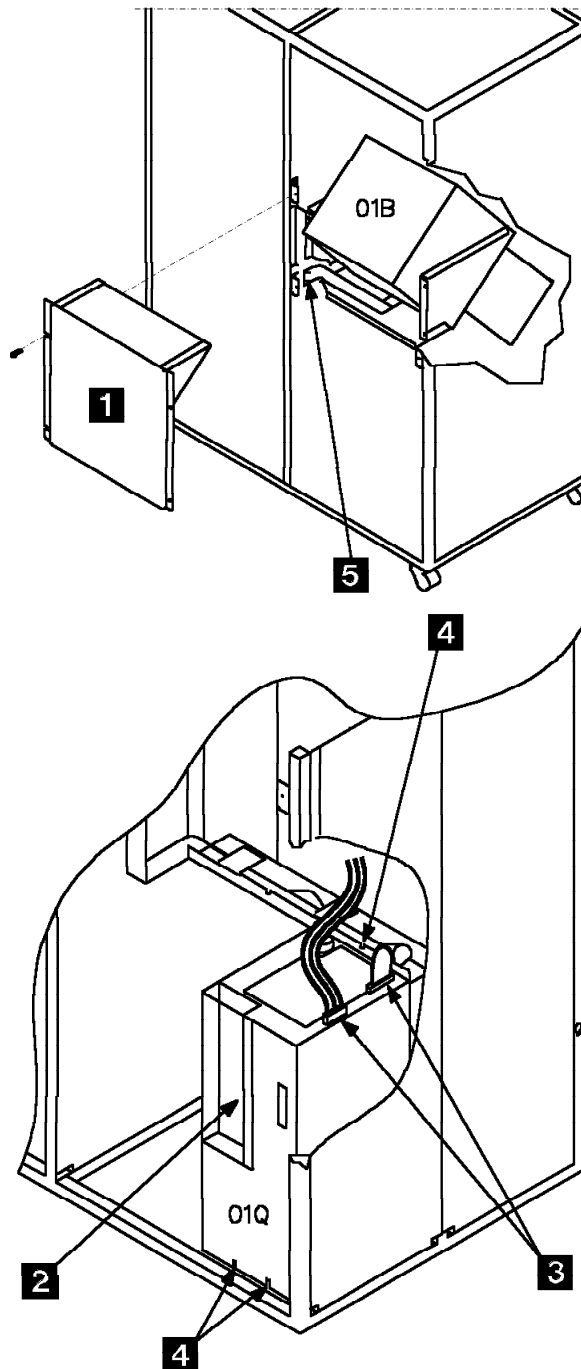
Tape the FDS cables end to the enclosure (use tape provided for repacking).

- ___ 3. From the top of PSTY1, unplug the Power Control Bus cable from connector J2 and the Power On reset cable from J1 **3**.

Warning

Secure the power bus cable in its raceway to prevent damage during CCU enclosure exchange.

- ___ 4. Remove the 3 screws **4**. Then, remove the PSTY1 from the 3745 (the power cord has been routed back by CE 'B').
- ___ 5. Disconnect the FDS ground cable attached to the frame **5**.
Save screws.

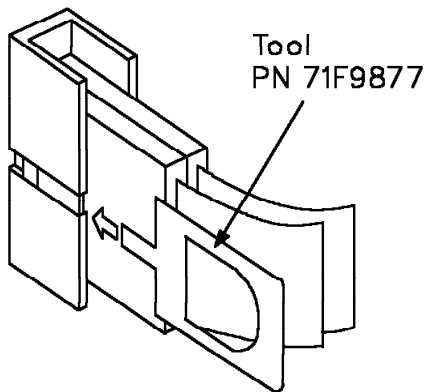


10.6.2 Tri Lead Cables, MAC Card Exchange

1. Locate the MOSS board in 01A, and the tri lead cables connected in 01A-Y0D4/D5 and E4/E5 .1.

Note

To prevent damage to cables and board, use tool (PN 71F9877) to unlock the connector as shown on the figure below.
Gently, insert the blade, then pull on cable housing to remove the cable.

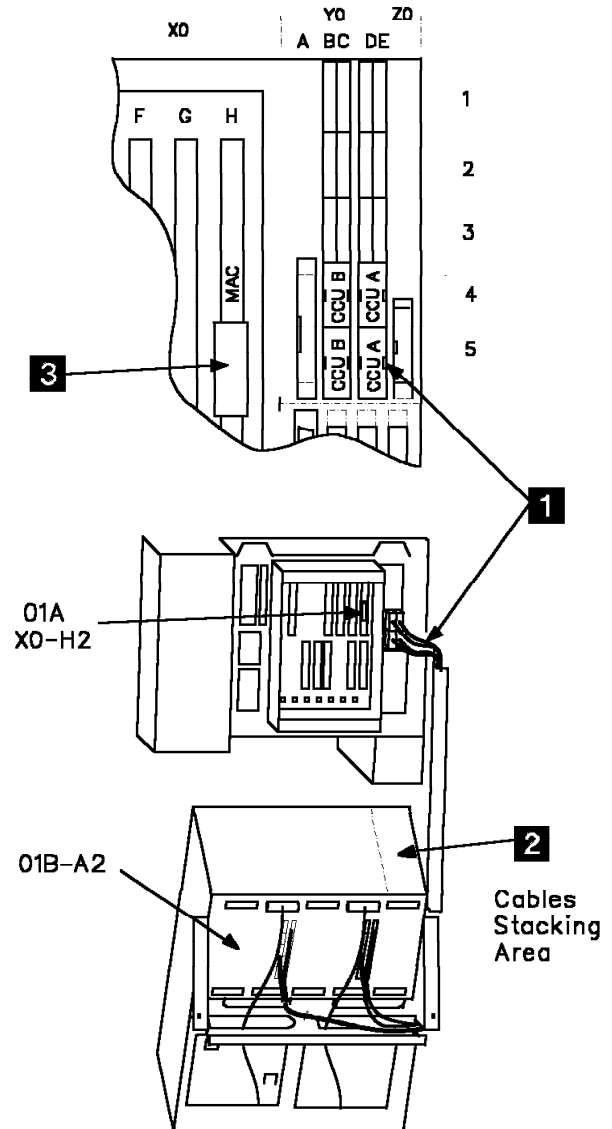


2. Unplug the cables and route them back to the CCU Enclosure. Secure the tri lead cables in the right side of CCU cage .2.

Note: If you DID NOT perform a checking procedure, after the MOSS board exchange, route the MAC cable back to the CCU enclosure, and secure it in the right side of CCU cage .2.. Then, go to Step 10.8, "CCU Enclosure Exchange" on page 19.
If you exchanged the MAC card for the checking procedure after the MOSS installation, proceed.

3. In MOSS board, locate the MAC card in 01A-X0H2, and remove the cable connected to the MAC card .3.. Route the cable back to the CCU enclosure, and secure it in the right side of CCU cage .2.

4. Remove the spring clips securing the locks of MAC card.
5. Remove the MAC card.
6. Install the new MAC card provided by the FFBM in the same position.



10.7 CE 'B' Tasks

Warning: Follow existing ESD procedures when handling logic parts.

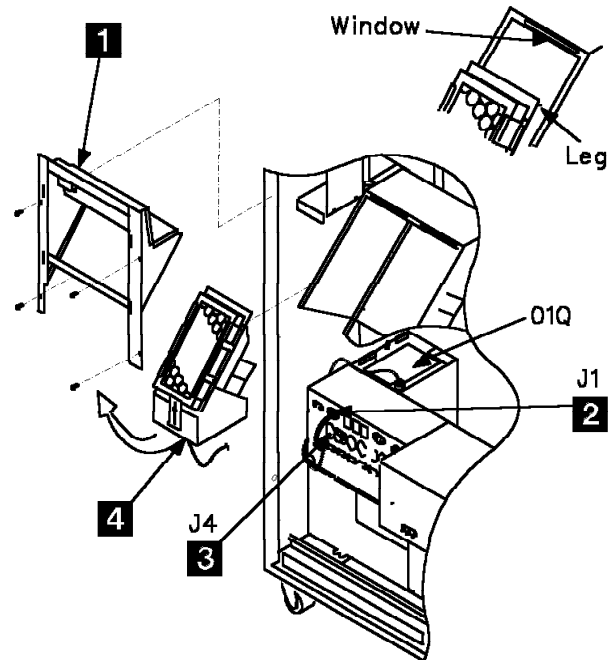
10.7.1 AMD, Power Cords

1. From the front of the 3745, remove 4 screws and remove the shield .1. (will not be re-used) over the AMD (Air Moving Device).
2. Unplug the AMD power cable from primary power box connector J1 .2..
3. Remove 4 screws securing the AMD. Then, remove the AMD from the machine .4..

Note: Swing out the bottom of AMD to disengage the top leg.

4. Unplug the PSTY1 power cable .3. from connector J4, and route it to the rear of 3745.
5. Remove the dummy AMD bracket placed over the empty CCUB TCM location.

4. Attach the handhold (PN 76F9077) .2. with 2 screws as shown on figure on next page (view A), on the 2 top holes of AMD asms.



10.7.2 Flat Cables

1. Open the operator panel gate.
2. Check that all cables connected to SACU board are correctly identified. Rewrite plug location on cables if not readable.

Note

To prevent damages to cables and board, use tool (PN 71F9877) to unlock the connector as shown on the figure on previous page. Gently, insert the blade, then pull on cable.

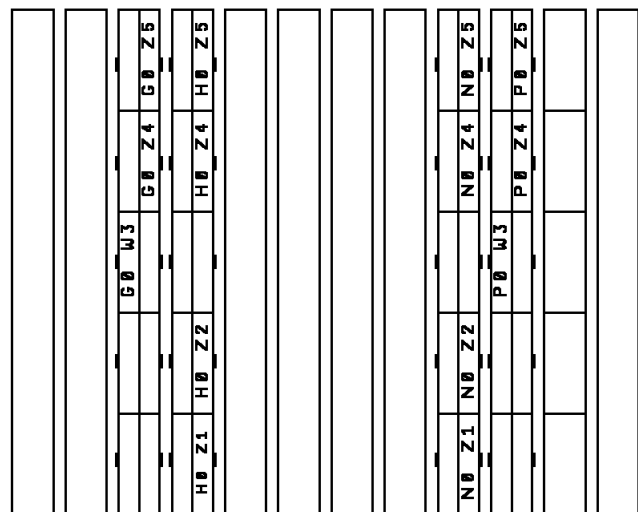
3. Unplug the flat cables from the SACU board.

Warning

Secure cables in the raceway to prevent damage during CCU exchange procedure.

E 0 F 0 G 0 H 0 J 0

M 0 N 0 P 0 Q 0 R 0



10.8 CCU Enclosure Exchange

CAUTION:

CCU enclosure can weight up to 45 kg (100 lb).

When installing a Model conversion MES an additional person may be needed because of the weight of the enclosure unit.

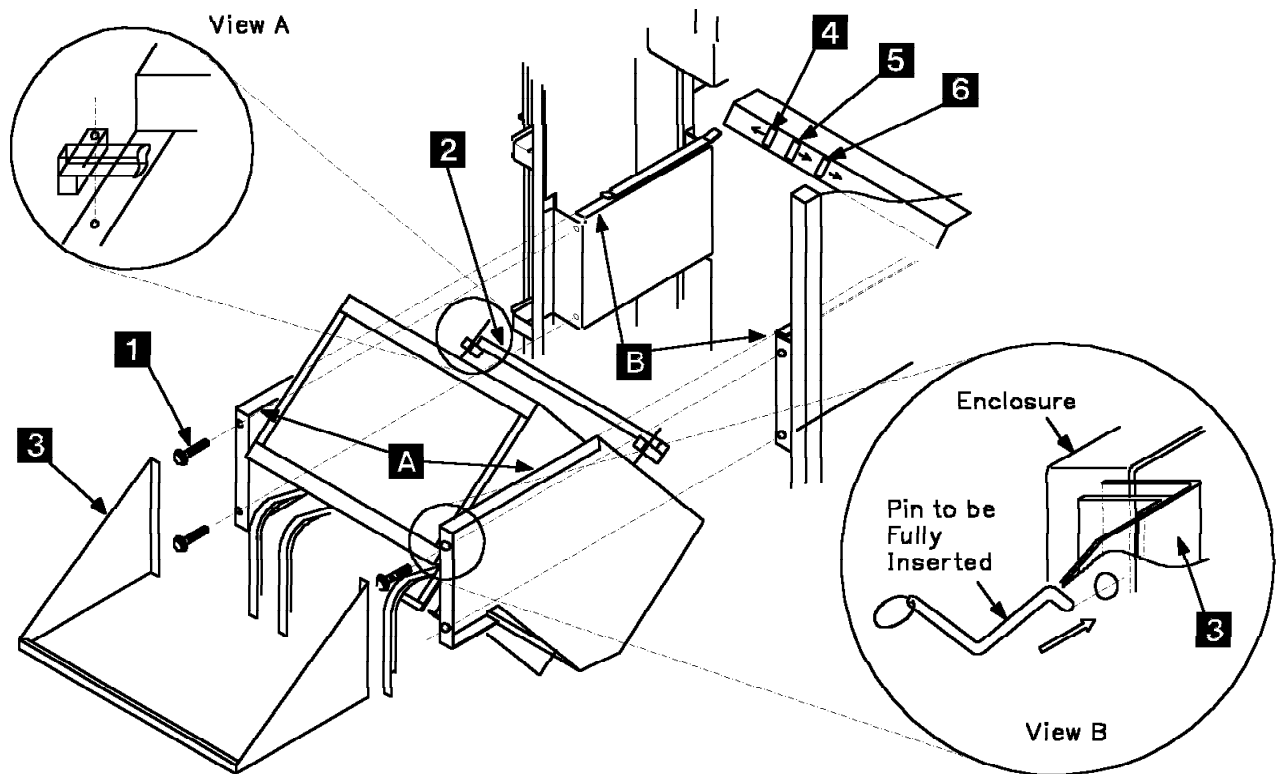
The first person is placed on the right side of the enclosure, the second on the left side, and the third, if needed, at the front of enclosure using the provided handhold.

Note: Ensure that all flat cables are protected from damage during CCU enclosure exchange.

10.8.1 TCM Enclosure Removal

- 1. Remove the 4 screws .1. securing the CCU enclosure.
- 2. Pull the complete enclosure, approximately 15 cm, out of the 3745.

- 3. From the rear of the 3745, attach the handhold (PN 76F9076) .3. to the enclosure (see the figure below). This will allow third person involvement if needed. The handhold is clipped to the right and left sides of the CCU enclosure (See view B). Secure the handhold with the attached pins.
- 4. 2 persons grasp the enclosure asm by the handhold .2., and at SACL board, the third one grasps the front handhold .3.. Slide the asm out of the 3745.
- 5. Put the enclosure in a safe place.
- 6. Install 3 clamps (PN 34F1295) as follows:
Remove the clamp .4., and stick a clamp 9 cm (3.5 in.) to the left.
Remove the clamp .5. and stick a clamp 3 cm (1.1 in.) to the right.
Remove the clamp .6. and stick a clamp 1 cm (0.4 in.) to the right.



10.8.2 New CCU Enclosure Installation

- 1. Move the new CCU enclosure, still on its shipping pallet assembly, close to the machine.
- 2. If third person is needed, remove handhold (PN 76F9076) from the TCM CCU enclosure and attach it to the new CCU enclosure (need to tilt the enclosure on shipping pallet).
- 3. Lift the enclosure from the shipping pallet (use the enclosure top bar), and put the part of the enclosure marked **.B.** on the slides **.C.** in 3745 (refer to figure on previous page). Slide the enclosure partially in 3745.

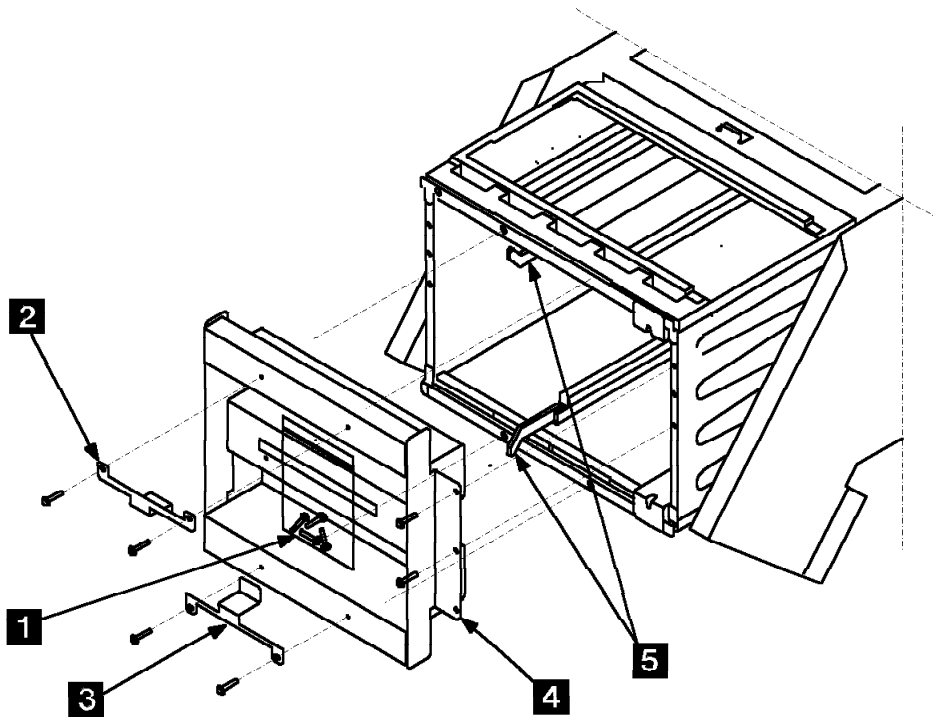
Note

When the enclosure is on its slides in 3745, check from the front of the 3745, there is no risk of damaging flat cables, FDS cables and FAN power cords.

- 4. Remove the handhold and slide the enclosure in place.

10.8.3 Card Locking

- 1. Secure the enclosure with the screws provided in the bag attached to the cage **.1.**
- 2. Remove 4 screws securing the red bracket **.4.** and remove it. Put it on a table.
- 3. Remove bracket (PN 61F4485) **.2.** (top), and bracket (PN 61F4486) **.3.** (bottom). Save the brackets for re-install.
- 4. Carefully, on each card location, move levers **.5.** inwards simultaneously.
Note: In order to improve contact, operate the levers 3 times.
- 5. Install brackets **.2.** at the top and **.3.** at the bottom of the CCU cage. Use screws saved in Step 2. Position brackets to lock the *STER* cards in position.



10.9 CE 'A' Tasks

10.9.1 Flat Cables

1. Place the template **1** (PN 76F8595) as shown on figure. The template should be positioned as far up and left as permitted by the frame.

Note: Remove existing cable clamps which interfere with the correct placement of the template.

2. Attach 4 clamps (PN 34F1295) in the windows of the template **2**.

Note: Place the clamps as shown on the template.

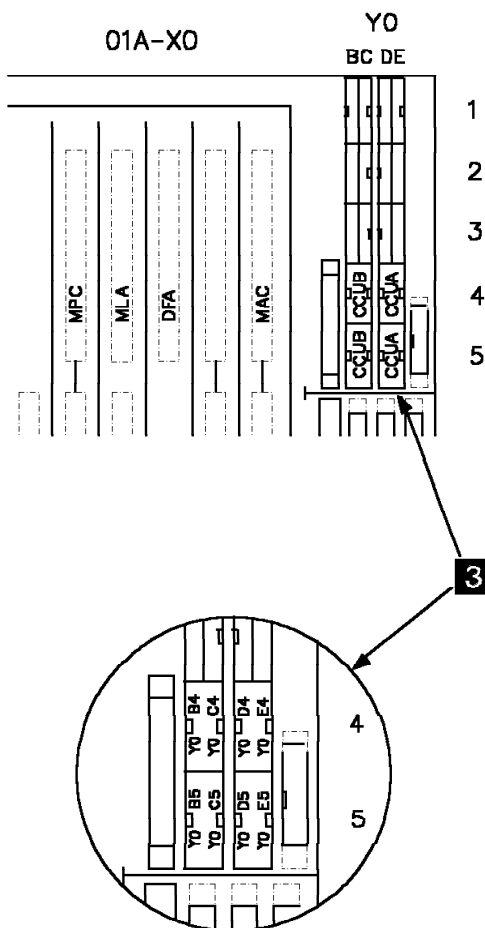
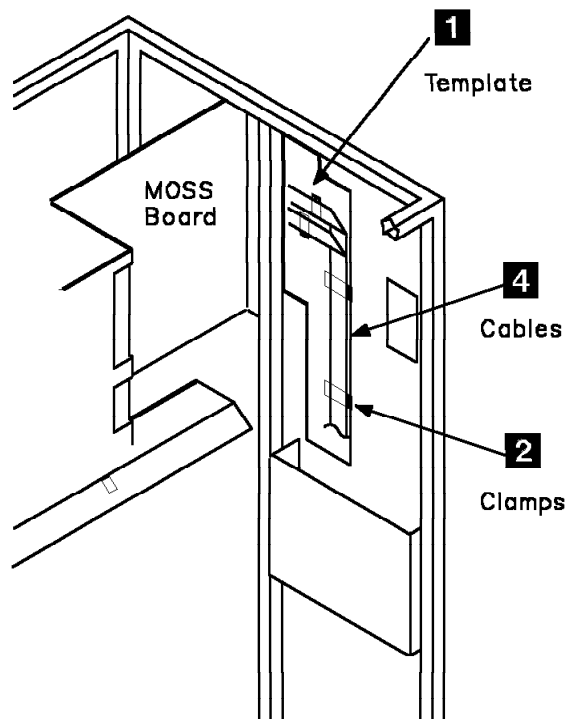
3. Remove the template.

4. Place the folded flat cables (PN 76F8591 and 76F8592) in the clamps (cables are tied all-together).

5. Plug the flat cables, one at a time, on MOSS board **3** in the following sequence:

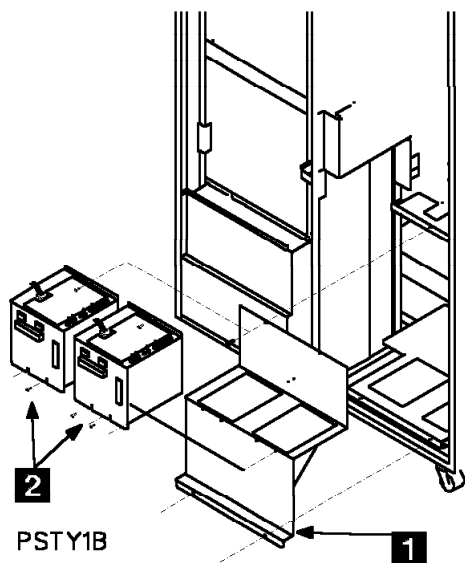
- Y0E4, Y0D4, Y0E5, Y0D5.
- Y0C4, Y0B4, Y0C5, Y0B5.

6. Route the flat cables through the machine to CE 'B' **4**.



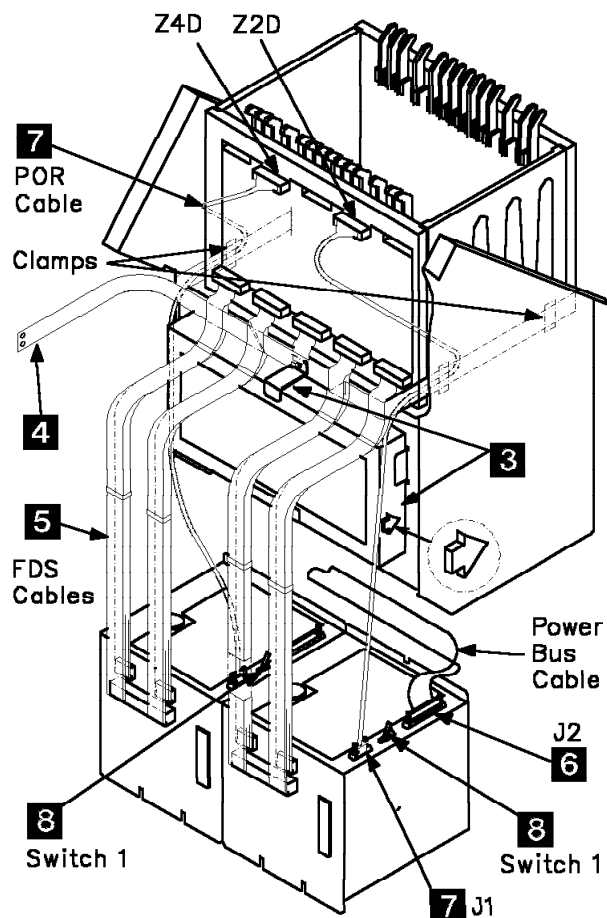
10.9.2 PSTY1B Installation

1. Install the PSTY1B support asm (PN 71F9950) .**1**., and **secure it, at the bottom, with 2 screws** provided in the bag attached to it.
Do not tighten the screws.
2. Install two PSTY1B (PN 26F1733) .**2**., with 6 screws (PN 2665528), provided in a bag attached to the support bracket.
Place the power supply labelled **CCU A** in 01Q, and the power supply labelled **CCU B** in 01R.
3. Tighten the bottom screws of power supply bracket.
Feed the PSTY1B power cords to the front of the machine.



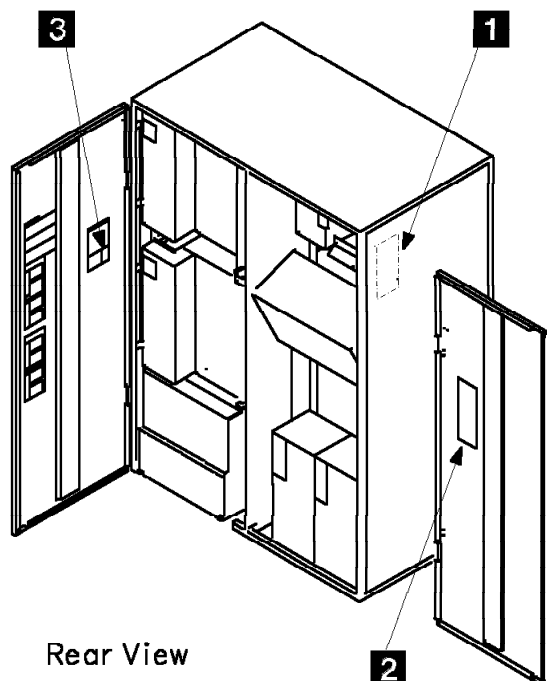
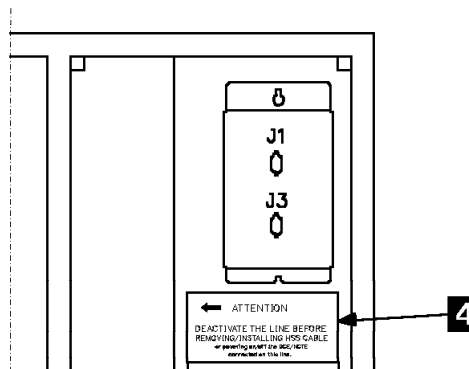
4. Loosen the screw securing the bracket .**3** that secures the air filter, and install the air filter (PN 58X9295) under the CCU enclosure.
Note the arrow direction for air flow.
Tighten the screw.
5. Connect the FDS ground cable .**4** to the frame. Secure it with the screws saved in Step 10.2.1 Step 5.
6. Connect the FDS cables .**5** to the PSTY1B(s) with screws (PN 61F4511) provided in a bag attached to the power supply.
(Connect cables on TB1/TB2 first)

7. Connect the power control bus cables to connector J2 of each power supply .**6**..
8. Locate the power on reset cables (PN 61F4448) .**7** connected in SACL positions 01B-A2Z2-D and 01B-A2Z4-D.
Route the cables to PSTY1B and connect them as follows:
From 01B-A2Z2-D to 01Q-J1
From 01B-A2Z4-D to 01R-J1
9. On PSTY1B in 01Q, verify that switch 1 is set to position A (CCUA) .**8**..
On PSTY1B in 01R, verify that switch 1 is set to position B (CCUB) .**8**..



10.9.3 Mechanical

- ___ 1. Re-install the shield over the CCU board (if used).
- ___ 2. Re-install the rear door removed in Step 10.6.1, "Power Supplies" on page 16
Note: Tighten end cover screws if they were loosened.
- ___ 3. Re-connect the ground wires, if present.
- ___ 4. Affix label PN 17G5564 .**1.** on the right side of the frame, close to the MOSS board, over the existing label.
- ___ 5. Inside the right rear cover, affix label PN 71F9997 .**2.** over the existing label.
- ___ 6. Inside the left rear cover, affix a label PN 43G3202 over the existing one .**3.** (console tailgate label).
- ___ 7. If there is no HSS/ELA installed in your 3745, a DTER card has been shipped (FFBM 43G3171). Affix label (PN 11F6521) provided with DTER card FFBM as shown, under the console tailgate .**4.**



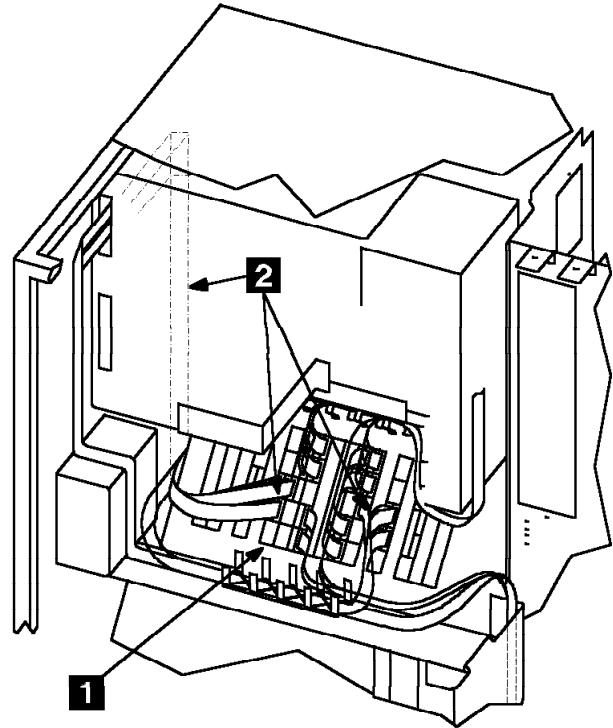
3745 FFBM	PN 17G5496 23 of 34	See EC History	EC D55659B 09MAR94	EC D55799 16SEP94	EC D55883 11MAY95	EC E27926 14MAR97
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10.10 CE 'B' Tasks

10.10.1 Flat Cables

- ___ 1. Reconnect flat cables on SACU board
1.
Refer to the template on the SACU board.
- ___ 2. Route and connect to the SACU board flat cable groups (PN 76F8591 and 76F8592) which were prepared by CE 'A'
2.

	C0	E0	G0	H0	J0	M0	N0	P0	Q0
5									
4									
3									
2									
1									



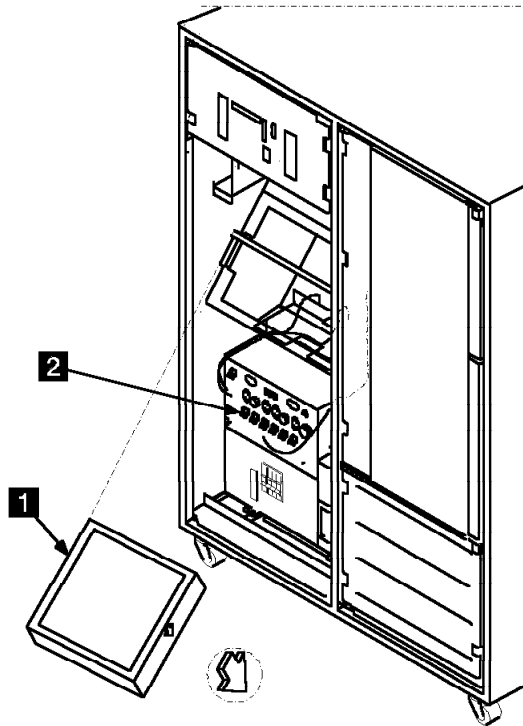
10.10.2 DTER Card Installation

The DMA bus is required on Model 31A. If there was no HSS or ELA installed on the Model 210 you are converting, you must install a DTER card. Parts are provided by FFBM 43G4171. If an HSS or ELA is already installed, skip to Step 10.10.3, "Mechanical Changes" on page 25

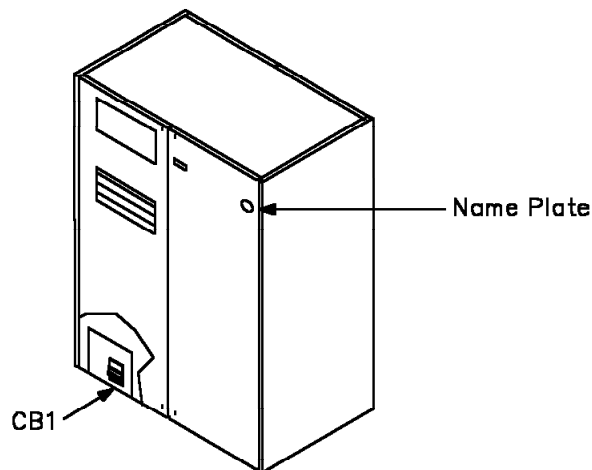
- ___ 1. Open the right front system cover of 3745 and the internal shield if present.
- ___ 2. Locate the TSS board in 01G-A1, and remove the dummy card from position 01G-A1W2.
- ___ 3. Install the holder (PN 1953244) on the DTER card and plug the card in 01G-A1W2.
- ___ 4. Close the internal shield (if present) and the cover.

10.10.3 Mechanical Changes

- 1. Install air filter (PN 58X9296) **1.** on the CCU enclosure. Secure it with the bottom bracket. Note the arrow direction for air flow.
- 2. Plug the power cords in primary power box **2.** as follows:
PSTY1 01Q to J4. PSTY1 01R to J9.
FAN CCUA to J1. FAN CCUB to J2.

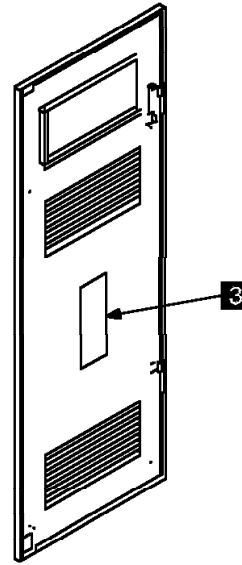


- 3. Remove the name plate from the front cover, and clean any adhesive residue with Isopropyl alcohol.

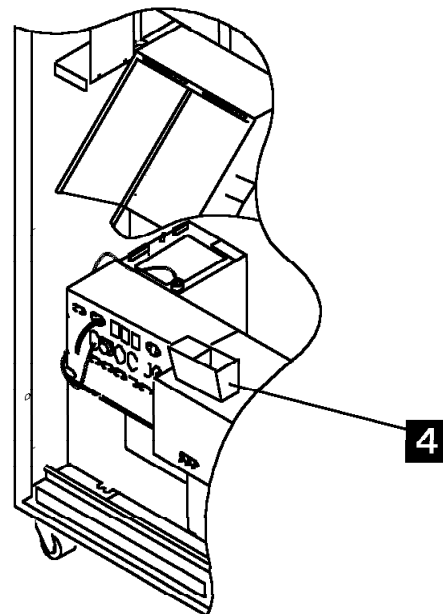


Remove the paper from the back of new name plate (PN 17G5604)

- 4. Affix label (PN 71F9996) over existing label in front door **3.**
- 5. Strike out the model number on the S/N label, only the nameplate will identify the model type from now on.



- 6. Install the diskette storage box on the top of the PS6 **4.**



10.11 Power ON

Note: After CCU enclosure replacement, ensure that each CE has verified the other's work before powering on the 3745.

- ___ 1. From primary power box, switch CB1 ON.
- ___ 2. Close all system covers.
- ___ 3. If you have completed the MOSS installation and CCU enclosure replacement in one stage without a checkpoint after the MOSS installation go to Step 10.12, "MOSS/MOSS-E Connection."
- ___ 4. If you have completed the MOSS board installation as the first stage of a two-stage installation, go to Step 10.12, "MOSS/MOSS-E Connection."
- ___ 5. If you have completed the CCU enclosure replacement as the second stage of a two-stage installation, and Steps 10.12 through 11.1.6 were completed after the MOSS installation, proceed.
From the 3745 control panel:
 - ___ a. Set the **Function** indicator to 1.
Press the **Validate** key.
 - ___ b. Press the **Power On Reset** key.
The MOSS IML starts.
 - ___ c. Wait until 3745 Icon is purple, then on **3745 Menu**, double click on **MOSS Console**.

Wait for **Function Selection Rules** screen.
Go to Step 11.1.2, "Power Configuration Table" on page 29.

10.12 MOSS/MOSS-E Connection

From the Service Processor:

- ___ 1. When the **MOSS-E Logon** window is displayed, enter the maintenance password (the default password is IBM3745).
- ___ 2. Click on **OK**.
- ___ 3. On the **MOSS-E View** window, double click on the **Service Processor** Icon (green).
- ___ 4. On the **Service Processor Menu** window, click on **Configuration Management**.

Then, double click on **Manage 3745/3746-900 Installation/Removal** (scroll in the window or set the window in full screen).

- ___ 5. On the **Controller Installation** window, if not already selected (black line), click on the first 3745 flagged not installed.
- ___ 6. Click on **ADD**.

Note: During the following procedure, ALARM panels can be displayed. Click on **OK** to remove them.

10.12.1 IML From Diskette

Take the two sets (NORMAL and BACKUP) of diskettes shipped with this MES. If not already done, label one set NORMAL and one set BACKUP.

Note: From now on, use **only the new set of six diskettes** shipped with the MES. The old set of five diskettes can only be used if you have to remove the model A and return to the previous model XX0.

- ___ 1. Insert the new **NORMAL PRIMARY** diskette into the 3745 diskette drive.
- ___ 2. From the control panel, check that **Service Mode** indicator displays 1. If it does not, set the **Service Mode** indicator to 1.
Press the **Validate** key.
- ___ 3. Set the **Function** indicator to 9 (Load from diskette).
Press the **Validate** key.
- ___ 4. Press the **Power ON Reset** key.

A MOSS IML will be complete with **F0E** or **FE9** displayed on the control panel.

Note: The code **B9F** can be displayed indicating a timeout. This does not affect the proper operation. Continue with next Step.

10.12.2 3745 Installation

From the Service Processor:

- ___ 1. Click on **OK**.
Window **ADD a 3745** is displayed.
- ___ 2. Enter the 3745 Serial Number in the following format: **YY-XXXXX** (do not forget the dash (-)).

Note: YY is the plant ID. If the plant ID = **00**, you must enter **23**.
Click on **OK**.
- ___ 3. When requested, insert the *Installation Parameters* diskette PN 43G3225 (received with the MES) in the SP diskette reader.
Click on **OK**.
- ___ 4. When a panel saying **Controller Parameters successfully loaded**, click on **OK**.
- ___ 5. When a controller installation message saying that **the controller information has been successfully added** is displayed, remove the **Installation Parameters** diskette from the diskette drive of the SP.
Click on **OK**.
- ___ 6. Enter the new system name (provided by the customer), click on **OK** twice.
- ___ 7. On the **Controller Installation** window, click on **Cancel**.
- ___ 8. On **MOSS-E View** window, double click on the 3745 icon.
- ___ 9. On the **3745 Menu** window, double click on **MOSS Console**.

The 3745 **Disk Function Selection** screen will be displayed after a short interval.

10.12.3 Microcode EC Installation

Warning: For this installation, use only the set of diskettes (NORMAL) received with the MES. The same set must be used for the checking pass and for the pass which installs on the hard disk. Use of a different set can lead to lost CDF data.

From the Service Processor:

- ___ 1. Enter **1** (EC Microcode Installation), press **Enter**.
- ___ 2. Use the **NORMAL** set of diskettes, and follow the prompts on the console until the function is completed.

Note: While reading the PRIMARY diskette, you will get the following message:

- Increasing in disk size (Up to 80MB) - Please wait several minutes.

Note: If you have an error while increasing the disk, run "diskette checking" to validate the set of six diskettes received and save the customer data.

From the Service Processor:

- ___ a. Enter **8** (diskettes checking), press **Enter**.
- ___ b. Use the **NORMAL** set of the six diskettes received, and follow the prompts on the console until the function is completed.
- ___ c. Press **F6** to continue with diskette checking. Follow the prompts on Service Processor screen.

If the hard disk requires replacement, see the *Service Function* manual, Chapter 11, hard disk trouble analysis and replacement, Procedure 1.

- Read checking in progress. Please wait several minutes.

- Copy load module in progress will appear if NCP load modules are on Hard Disk.

(Alternate Track Assignment screen will now be displayed)

- Press F6 to continue with EC Installation. Follow prompts on SP screen.

If Microcode installation fails on 'diskette checking', try again with BACKUP diskettes.

If installation fails during 'diskette loading', see the *Service Function* manual, Chapter 11, hard disk trouble analysis and replacement, Procedure 1.

- ___ 3. When message **EC DXXXXX correctly installed** is displayed, remove the sixth diskette from the diskette drive.

10.12.4 MOSS IML

From the control panel:

- ___ 1. Press the **Power OFF** key.
- ___ 2. Set the **Function** indicator to 1.
Press the **Validate** key.
- ___ 3. Set the **Service Mode** indicator to 2.
Press the **Validate** key.
- ___ 4. Press the **Power ON Reset** key.
 - The **MOSS IML** is completed when **F0E** is displayed on the control panel.
 - If another code is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

10.13 3745 MCLs

- If the diskette *3745 MCL Backup* received with this microcode contains MCLs continue with the following procedure.
- Otherwise, go to Step 10.13.4, "Access to MOSS 3745" on page 29.

10.13.1 Retrieve 3745 MCLs from Diskette

From the Service Processor:

- ___ 1. Remove the *3745 Installation parameters diskette* from the SP. It will be re-used later on.
- ___ 2. Double click on the **Service Processor Icon**,
Click on **Change Management**. Then, double click on **Manage Microcode Changes**.

- ___ 3. On the **Change Microcode** screen, click on **Retrieve microcode changes**. Then, click on **OK**.
- ___ 4. Click on **Retrieve from diskette**. Then, click on **OK**.
When requested, insert the *3745 MCL Backup* diskette in the SP diskette reader.
- ___ 5. Click on **ALL changes**. Then, click on **OK**.
Confirm your choice, click on **OK**. Then, follow the prompts.
- ___ 6. When **Retrieve completion** is displayed, click on **OK**.
- ___ 7. On the **Change Microcode screen**, click on **Display cover letter**. Then, click on **OK**.
Read the cover letter information to determine if there are any prerequisites or corequisites before applying the MCLs.
Click on **Cancel** to Exit.

10.13.2 Transfer MCLs to MOSS Disk

Establish the MOSS session:

- ___ 1. When the 3745 icon is PURPLE on the **3745 Menu** window, double click on **MOSS Console**.
Wait for **Function Selection Rules** screen.
- ___ 2. Enter **MCF**, press **Enter**.
- ___ 3. Select option **2** (copy the MCL file), press **Enter**.
Follow the prompts until the function is completed, press **F6**.

10.13.3 Applying MCLs on 3745

- ___ 1. On the **Microcode fixes** screen, select option **1**, press **Enter**.
- ___ 2. Select option **2**, press **Enter**.
When the function is completed, press **Enter**.
- ___ 3. On the 3745 control panel, press the **Power on Reset** key to perform a MOSS IML and to validate the MCLs.

3745 FFBM	PN 17G5496 28 of 34	See EC History	EC D55659B 09MAR94	EC D55799 16SEP94	EC D55883 11MAY95	EC E27926 14MAR97
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10.13.4 Access to MOSS 3745

- ___ 1. On the **MOSS-E View** window, wait until the 3745 icon becomes PURPLE.
- ___ 2. On the **3745 Menu** displayed, double click on **MOSS Console**.

Wait for **Function Selection Rules** screen.

11.0 Test Procedures

11.1 Diagnostics

11.1.1 Update Scheduled Power ON

- ___ 1. Enter **TIM**, press **Enter**.
- ___ 2. Update the screen according to the data recorded in Step 10.1.5, "Record Scheduled Power ON" on page 8. Press **Enter**.
- ___ 3. Press **F1**.

11.1.2 Power Configuration Table

- ___ 1. Enter **POS**, press **Enter**.
- ___ 2. Enter **C**, press **Enter**.
- ___ 3. Compare the displayed **Created Power information table** with the one recorded in Step 10.1.5, "Record Scheduled Power ON" on page 8.

Notes:

- a. After MOSS replacement only: the data should be the same. Enter **Y** to confirm and press **Enter**.
- b. After installing 2nd CCU, the PSID3 must be displayed. Enter **Y** to confirm and press **Enter**. Enter **1** (3745 base frame), press **Enter**. Enter **U03** to set the power supply ON and press **Enter**.
- c. If there is a discrepancy, check the power bus cable connection on MOSS Board. Retry, and if there is still a discrepancy, see the *MIP*,

Chapter 2, and follow the appropriate procedure.

- ___ 4. Press **F6**.
- ___ 5. Enter **A**, press **Enter**.
- ___ 6. Enter **B** (acknowledge battery change), press **Enter**.
- ___ 7. Enter **Y** to confirm battery change, press **Enter**.
- ___ 8. Press **F1**.

11.1.3 Verify the CDF

- ___ 1. Enter **CDF**, press **Enter**.
- ___ 2. Enter **4** (VERIFY), press **Enter**.
The value from the **CDF DATA** and the **MACHINE DATA** should be identical except for the new CCU enclosure installed.
To update the **CDF data** with the machine values, enter **2**, press **Enter**.

Note: If there is a discrepancy on adapters, check the IOC bus cables setting on MOSS or CCU boards. When **CDF VERIFY COMPLETED** is displayed, press **F1**.

Note: If you have replaced the MOSS board only as a first stage of a two-stage MES installation, go to Step 11.1.5, "Diagnostics" on page 30. Otherwise, proceed.

11.1.4 Record the 3745 Model

From the Service Processor:

- ___ 1. On the **Service Processor** menu, double click on **Manage 3745/3746-900 Installation**.
- ___ 2. Click on the line of the 3745 you have just converted.
- ___ 3. Click on **Change**.
- ___ 4. On **Controller Model Change** message, click on **Yes**.

From the 3745 control panel:

- ___ 5. Press the **Power OFF** key.



- ___ 6. Set the **Service Mode** indicator to **2**.
Press the **Validate** key.
- ___ 7. Set the **Function** indicator to **1**.
Press the **Validate** key.
- ___ 8. Press the **Power On Reset** key.
The MOSS IML is completed when **F0E** is displayed on the control panel.

From the Service Processor:

- ___ 9. Click on **OK**.
The 3745 Model number is being recorded.
- ___ 10. When the operation is completed, click on **OK**.
- ___ 11. Click on **Cancel**.
- ___ 12. On the **3745 Menu** window, double click on **MOSS Console**.

Wait for **Function Selection Rules** screen.

11.1.5 Diagnostics

Notes:

- 1. After the MOSS board replacement only, run IOCB diags.
- 2. After the MOSS AND CCU enclosure replacement, run CCU, IOCB, and HSS/ELA diags if installed.
- 3. After the CCU enclosure replacement (as a second stage): run CCU, IOCB and HSS/ELA diags if installed.
- ___ 1. Enter **ODG**, press **Enter**.
- ___ 2. Enter **2** (CCU) in diag field, press **Enter**.
 - If **NO ERROR FOUND** is displayed, press **F1**.
 - Otherwise, see the *MIP*, Chapter 1.
- ___ 3. Enter **3** (IOCB), press **Enter**.
 - If **NO ERROR FOUND** is displayed, press **F1**.
 - Otherwise, see the *MIP*, Chapter 1.
- ___ 4. If no HSS/ELA, press **F1**, and go to the information box below.

If HSS/ELA feature is installed in your 3745, run HSS/ELA diags on at least one HSS/ELA on each DMA bus (Adp 1-4 and 5-8) with HSS or ELA adapter.

- If **NO ERROR FOUND** is displayed, press **F1**.
- Otherwise, see the *MIP*, Chapter 1.

Information

- If you have staged this installation with a checkpoint before replacing the CCU enclosure, and have run diags successfully, the 3745 can be returned to the customer as a Model 21A. Go to Step 11.1.7, "Install Latest MLCs," and complete remaining Steps.
- If you are continuing with the CCU enclosure replacement, go to Step 10.5, "CCU Enclosure Replacement" on page 15.
- If you have replaced the CCU enclosure, proceed.

11.1.6 Air Filter Acknowledge

- ___ 1. Check all frame filters. replace if needed.
- ___ 2. Enter **POS**, press **Enter**.
- ___ 3. Select option **A**, press **Enter**.
- ___ 4. Select option **F** (Acknowledge Air Filter change), press **Enter**.
- ___ 5. Enter a **Y** to confirm, press **Enter**. When completed, press **F1**.

11.1.7 Install Latest MLCs

Prior to returning the 3745 to the customer, you must install the latest MCLs.

- ___ 1. If you have an RSF link:
Refer to the *SP Installation and Maintenance Manual*. Follow the procedure **Reporting problem to retain** in Chapter 3 and, when requested enter **Converting a Model A and testing the RSF link** as short description of the problem. The latest MCLs are automatically downloaded. Then go to **Handling Micro-code Change level** in Chapter 3. When the RSF link is completed and the MCLs

are installed, go to 11.1.8, "Close MOSS/MOSS-E Session" on page 31.

- 2. If you use the LIC Upgrade kit:
Refer to the *SP Installation and Maintenance Manual*. Follow the procedure **Installing a new version of the Licensed Internal Code** in Chapter 3. When done go to 11.1.8, "Close MOSS/MOSS-E Session."
- 3. If you use the 3746 Optical Disk MCLs:
Refer to the *SP Installation and Maintenance Manual*. Follow the procedure **Handling Microcode Change Level** in Chapter 3. When done go to 11.1.8, "Close MOSS/MOSS-E Session."

11.1.8 Close MOSS/MOSS-E Session

- 1. Enter **CID**, press **Enter**.
- 2. Re-enable the channel adapters disabled in Step 10.1.3, "Disable CA(s)" on page 7.
- 3. When all CAs are enable, press **F1**.
- 4. Enter **OFF**, press **Enter**.
- 5. On the **3745 Menu** window, click on **Function**, then on **Exit**.

The **MOSS-E View** window is displayed.

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, "MOSS IML" on page 7.
- 2. Set the **Service Mode** indicator to 0.
Press the **Validate** key.
- 3. Set the **Function** indicator to 0.
Press the **Validate** key.

The general IPL starts.

- If **FF4** code 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** successful.

Note: The control program can fail if a mismatch exists between the control program and the hardware configuration.

11.3 Disk Save

When the customer network is restarted, save the contents of the hard disk on the **BACKUP** set of Diskettes.

11.3.1 Open MOSS/MOSS-E Session

From the Service Processor:

- 1. On the **MOSS-E View** window, double click on the **ICON** of the identified 3745.

Wait for **Function selection rules** screen.

11.3.2 Save Disk Contents onto Diskettes

- 1. If NCP is restarted and MOSS ONLINE, set the MOSS offline, enter **MOF**, press **Enter**.
- 2. Select **DIF**, press **Enter**.
- 3. Select **2**.
- 4. Enter the date and save-ID and press **Enter**.
- 5. Follow prompts on console.
- 6. When the function completed, press **F1**.

11.4 Close MOSS/MOSS-E Session

- 1. Enter **OFF**, press **Enter**.
- 2. On the **3745 Menu** window, click on **Function**, then on **Exit**.

The **MOSS-E View** window is displayed.

11.5 Logging OFF from SP

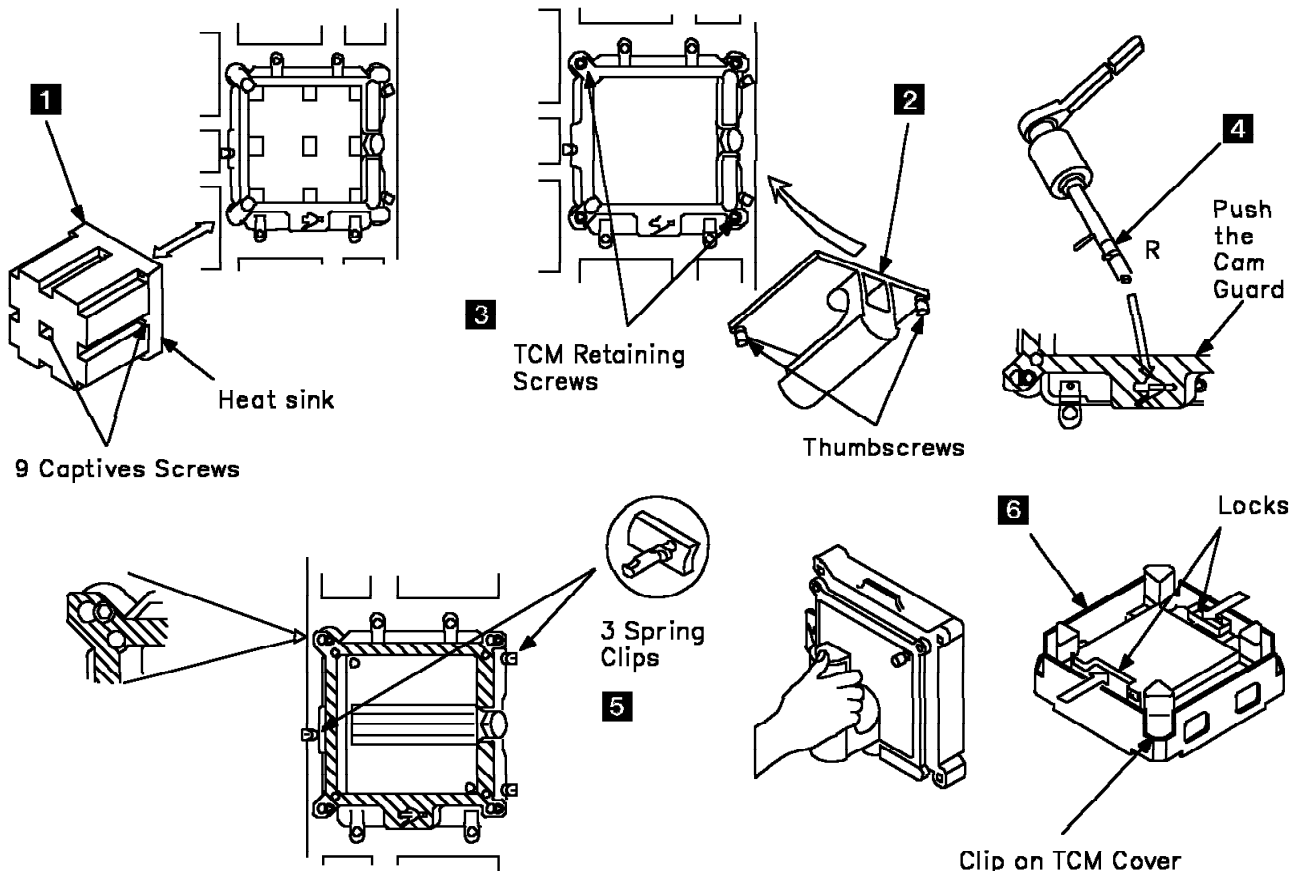
- 1. On **MOSS-E View** window, click on **Program**.
- 2. Click on **LOG OFF MOSS-E**.

11.6 Re-Packing

11.6.1 TCM Removal

- TCM will be sent back to IBM in the TCM BOX provided by the FFBM.
- Tools to be used in this section are provided by TCM tool kit.

- 1. Use the torque tool (PN 2360092) to loosen the 9 captives screws securing the TCM heat sink .**1.**
Carefully remove the heat sink.
- 2. Install the handle provided by FFBM. Tighten the 2 thumbscrews .**2.**
- 3. Use the torque tool (PN 2360092) to loosen completely the four TCM retaining screws (captives screws) .**3.**
- 4. Use the TCM actuating tool (PN 5665909) .**4.** to remove the TCM as follows:
 - a. Check that the detent pin in the tool is in the **Removal Position (R)**.
- 5. Unlatch the 3 spring clip retainers .**5.**, hold the TCM handle, and carefully remove the TCM from the enclosure.
- 6. Install the clip on TCM cover .**6.** (PN 7331541), then put the TCM in the TCM shipping container.



11.6.2 TCM Enclosure

- ___ 1. Place the TCM enclosure on the shipping pallet assembly provided with the new enclosure.
- ___ 2. Secure it with the screws and nuts.
- ___ 3. Remove the bracket locking the **STER** cards in the TCM enclosure by removing 2 screws.
- ___ 4. Open carefully the **ZIF connectors** on all cards.

Notes:

- a. In US, remove all cards from the TCM enclosure and put them in ESD envelopes and containers provided by the MES.
- b. In EMEA, remove the storage cards and insert them in ESD envelopes and containers provided by the MES.
- ___ 5. Install the red bracket over the CCU cage and secure it with 4 screws.
- ___ 6. Follow the re-packing instructions to send parts back to IBM.

11.6.3 3745 Local Console

Disconnect the previous local console (3101 like) and return it to the customer.

11.6.4 RSF Modem

- ___ 1. If a Service Processor has been provided with the MES and if a new RSF modem has been provided, disconnect the previous 3745 RSF modem, remove the RSF cable and put them in the MES packing.
- ___ 2. If a new RSF modem has not been provided, remove the previous RSF cable from the 3745 and put it in the MES packing for return.

Note: In US and Canada, the modem is integrated in the Service Processor.

3745 FFBM	PN 17G5496 33 of 34	See EC History	EC D55659B 09MAR94	EC D55799 16SEP94	EC D55883 11MAY95	EC E27926 14MAR97
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After Installation (steps 12-15)

12.0 Field Updating

None.

13.0 Publications Update

Replace with received documentation.

14.0 Parts Disposition

- For parts listed in the RMER

All these 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.

- For parts not listed in the RMER

All these parts should be returned according to your local procedure.

15.0 Machine Records

- Install the new **MACHINE HISTORY** supplied.
- Report installation (as MES activity) and quality to existing procedures.

End of instructions.