

Field Feature Bill of Material (FFBM)

PN 11F6520

**CONVERSION of a CADS to CADS + TPS (RPQ 7L1102)
CADS + TPS to two CADS (RPQ 7L1103)
BCCA to BCCA + TPS (RPQ 7L1196)**

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In these instructions, the generic term CA (Channel Adapter) is used for both CADS and BCCA. CADS (Channel Adapter Data Streaming) and BCCA (Buffer Chaining Channel Adapter) terms will be used when the identification of a specific adapter type is required.

Before Installation (steps 1-8)

Net Priced Feature

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

1.0 Machines Affected

- 3745 Models 210/21A/410/41A and 3746 Model A11 for RPQs 7L1102, 7L1103, and 7L1196.
- 3745 Models 310/31A/610/61A for RPQ 7L1196.

2.0 Related BMs and ECs

None.

3.0 BM(s) to be Installed

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

- 11F6520 - Installation instructions
- 11F6518 - CADS to CADS + TPS conversion (not UK) RPQ 7L1102 and BCCA to BCCA + TPS conversion (not UK) RPQ 7L1196.
- Or 11F6522 - CADS to CADS + TPS conversion (UK) RPQ 7L1102 and BCCA to BCCA + TPS conversion (UK) RPQ 7L1196.
- Or 11F6519 - CADS + TPS to two CADS conversion RPQ 7L1103.

3.1 Specific BMs for EMEA Only

For RPQs 7L1102 and 7L1196:

- 66X0024 - External cables.
- 66X1375 - EPO cable.

Note: In Domestic and APG areas, cables are shipped through customer order chart.

4.0 Preparation

1. Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.
2. Check all items listed on the BM(s) to determine that all parts have been received.
3. Prepare CDS information for the Channel Adapter Interface.
Be sure that the appropriate OLTS sections are present for diagnostic.
4. Ensure that all host (UCW) updating is done (refer to *MIR* Chapter 7, **HOST UNIT CONTROL WORD**).

Notes:

- a. CA + TPS is always installed in an ODD position (1,3,5,7) of CA board and an IOC Bypass card (BPC1) is plugged in place of the following EVEN CA.
 - b. If you convert a CA to a CA with TPS, the CAL slot in the following EVEN position (2,4,6,8...) must be filled with a BPC1 card.
 - c. If a CA is installed in this EVEN position, it must be removed by a previous MES or RPQ before starting the conversion.
 - d. Only a CA located in an ODD position can be converted to CA + TPS.
5. Determine the frame where adapter is to be converted, then with the following tables determine the card positions.

3745 FFBM	PN 11F6520 3 of 18	See EC History	EC A98112 30OCT90	EC A98318 05AUG91	EC D55651 07JUL93	EC D55799 16SEP94
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CA INSTALLED in 01L-A1 (3745 base frame)

1) board populated with CA(s) only

TAILGATE POSITION	1	2	3	4	5	6	7	8
SPECIFY CODE POSITION FOR BCCA	9571	9573	9575	9577	9572	9574	9576	9578
CARDS CAL/BCCA position	B2	E2	G2	K2	N2	R2	T2	W2
CADR	A2	D2	F2	J2	M2	Q2	S2	V2
Power Supply (type 3)	04 01K-A1		05 01K-B1		06 01K-C1		07 01K-D1	

2) board populated with CA + TPS(s) only

TAILGATE POSITION	1	2	3	4	5	6	7	8
SPECIFY CODE POSITION FOR CADS	9563		9565		9564		9566	
SPECIFY CODE POSITION FOR BCCA	9581		9583		9582		9584	
CARDS CAL/BCCA IN 01L-A1	B2 A2		G2 F2		N2 M2		T2 S2	
CADR-A CADR-B		C2		H2		P2		U2
Power Supply (type 3)	04 01K-A1		05 01K-B1		06 01K-C1		07 01K-D1	

CA INSTALLED in 02E-A1 (3746 A11)

1) board populated with CA(s) only

TAILGATE POSITION	9	10	11	12	13	14	15	16
SPECIFY CODE POSITION FOR BCCA	9571	9573	9575	9577	9572	9574	9576	9578
CARDS CAL/BCCA position	B2	E2	G2	K2	N2	R2	T2	W2
CADR	A2	D2	F2	J2	M2	Q2	S2	V2
Power Supply (type 3)	14 02D-A1		15 02D-B1		16 02D-C1		17 02D-D1	

2) Board populated with CA + TPS(s) only

TAILGATE POSITION	9	10	11	12	13	14	15	16
SPECIFY CODE POSITION FOR CADS	9563		9565		9564		9566	
SPECIFY CODE POSITION FOR BCCA	9581		9583		9582		9584	
CARDS CAL/BCCA IN CADR-A 01L-A1 CADR-B	B2 A2		G2 F2	H2	N2 M2	P2	T2 S2	U2
Power Supply (type 3)	14 02D-A1		15 02D-B1		16 02D-C1		17 02D-D1	

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.

5.2 Systems Programs

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

6.0 Purpose and Description

6.1 Purpose

- RPQ 7L1102: Convert a CADS to CADS+TPS (UK, not UK).
- RPQ 7L1103: Convert a CADS + TPS in two CADS.
- RPQ 7L1196: Convert a BCCA to BCCA + TPS (UK, not UK).

6.2 Description

- RPQs 7L1102 and 7L1196: Install a CADR card (Interface B), a tailgate, 2 crossovers.
- RPQ 7L1103: Install a CAL card in following EVEN CA position, and move a CADR card.

7.0 Installation Time

FFBM		MACHINE HRS.	SYSTEM HRS.
11F6518 or 11F6522	RPQ 7L1102/7L1196	0.7	0.0
11F6519 66X0024	RPQ 7L1103 cables EMEA	0.7	0.0
TEST TIME		0.5	0.0
TOTAL TIME	RPQ 7L1102/7L1196 RPQ 7L1103	1.2 1.2	0.0

8.0 Tools/Material Required

ESD kit (PN 6428316).

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 converting a feature in a 3745-X1A or in a 3746-A11 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 10.1.4, "Verify the CDF."

10.1.3 Log the Service Processor on

- 1. On the **MOSS-E View** window, click on **Program**.
- 2. Click on **LOG ON MOSS-E**.
- 3. Enter the maintenance password, press **Enter**.

10.1.3.1 Open MOSS/MOSS-E Session

- 1. On the **MOSS-E View** window, double click on the icon of the identified 3745.
- 2. On the **3745 Menu** window, double click on **MOSS Console**.
- 3. When **MOSS Console** screen is displayed, enter **CID**, press **Enter**.
- 4. From the **CA INTERF DISPLAY** screen, record **Enabled channel adapters**. Then, **disable** all channel adapters.
- 5. When all CAs are **DISABLED**, press **F1**.

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

Perform CSR/RST sequence for each CCU.

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

10.1.4 Verify 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 **4** (VERIFY), press **Send/Enter**.
The values from the **CDF DATA** and the **MACHINE DATA** should be identical.
- ___ 3. To update the CDF with machine values, enter **2**, press **Send/Enter**.
- When **CDF VERIFY COMPLETED** is displayed, press **F6**.
- If an error is displayed, see the *MIP*, Chapter 1, and follow appropriate procedure.

10.1.5 Display the CDF

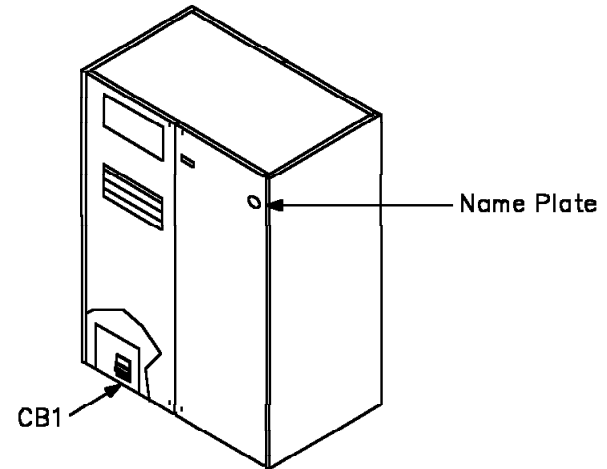
- ___ 1. Enter **CDF**, press **Send/Enter**.
- ___ 2. Enter **1** (DISPLAY/UPDATE), press **Send/Enter**.
- ___ 3. Enter **6** (CHANNEL ADAPTERS), press **Send/Enter**.
- ___ 4. Then enter **0** for all CAs (not required if microcode EC A47030 or higher is installed).
Check for the presence of a **Y** for the CA position you have to convert (see tables in step 4.0, "Preparation" on page 3). Then check in 'TPS' column for an **N** if installing RPQ 7L1102/7L1196 or a **Y** if installing RPQ 7L1103.
Note: Press **F8** to display CA positions 9 through 16 (if microcode level is lower than EC A47030).
- ___ 5. Press **F1**.

10.1.6 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **4** (CA), the adapter number in ADP field, press **Send/Enter**.
- If **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.



- If you are converting a CADS + TPS in two CADS, go to step 10.4, "CADS + TPS in two CADS Conversion (RPQ 7L1103)" on page 13.
- If you are converting a CA to CA + TPS, continue.

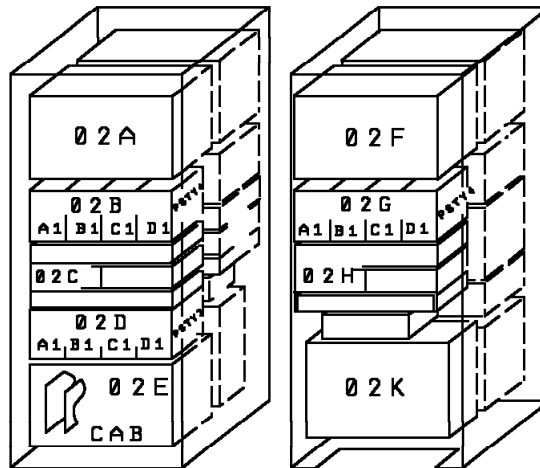
10.2 CA to CA+TPS Conversion (RPQ 7L1102 or 7L1196)

Warning: Follow existing ESD procedures when handling logic parts.

10.2.1 Tailgate Installation

1. Open cover of the frame where the adapter is to be converted and locate the T or K Channel Tailgate area (refer to tables in step 4.0, "Preparation" on page 3).

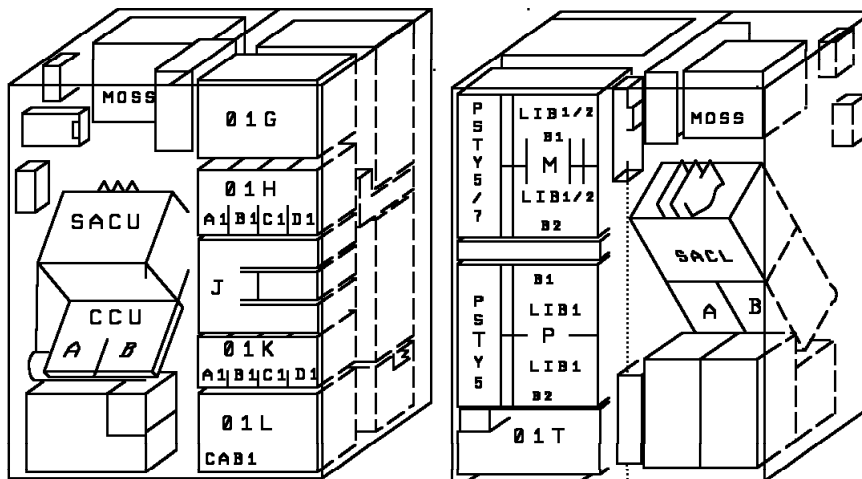
3 7 4 6 A 1 1



FRONT VIEW

REAR VIEW

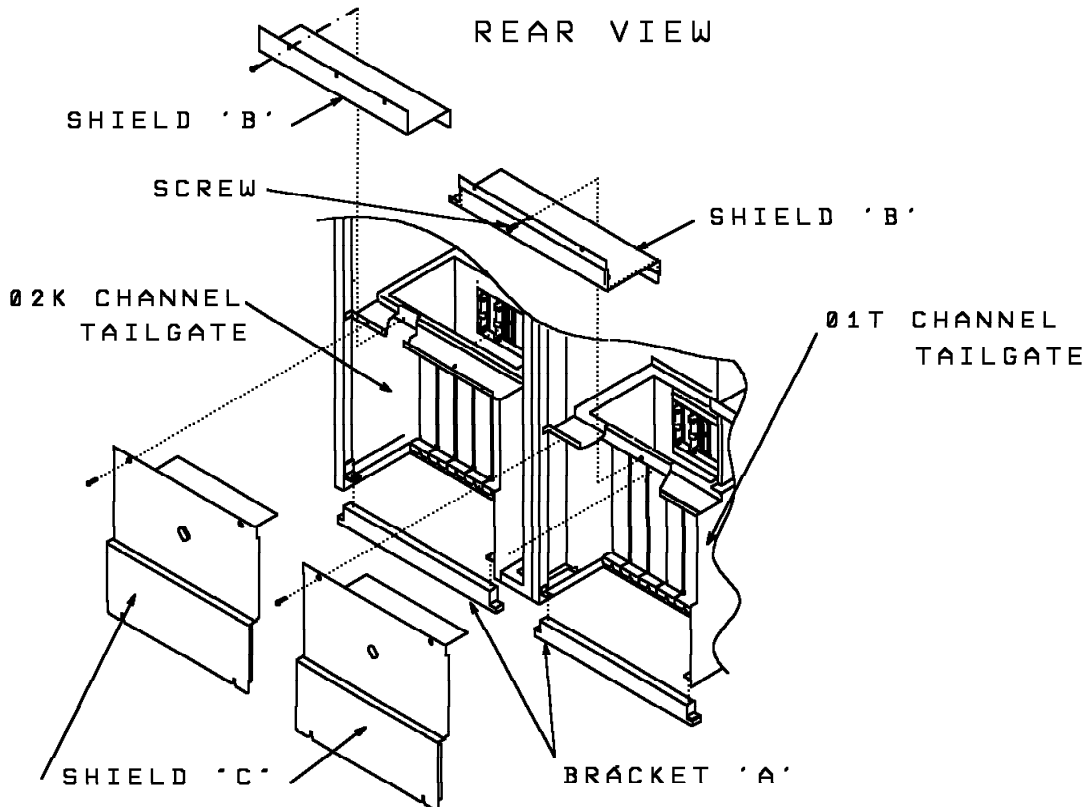
3 7 4 5



FRONT VIEW

REAR VIEW

- ___ 2. Remove shield 'C' with its 4 screws from identified Channel Tailgate.
- ___ 3. Remove bracket 'A' from bottom of the frame with its 2 screws.
- ___ 4. Remove the shield 'B' with its 6 screws from the top of CA Tailgate area by loosening the 3 top screws and removing the 3 bottom screws.
- ___ 5. Save for reinstall.

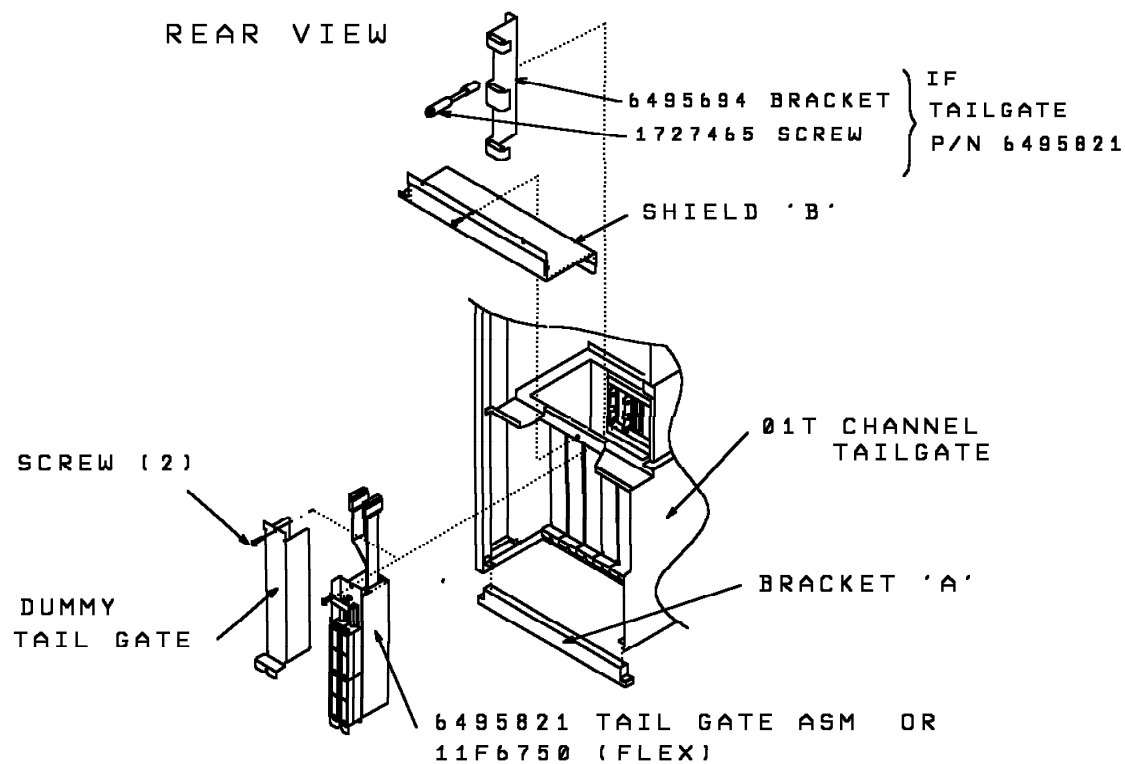


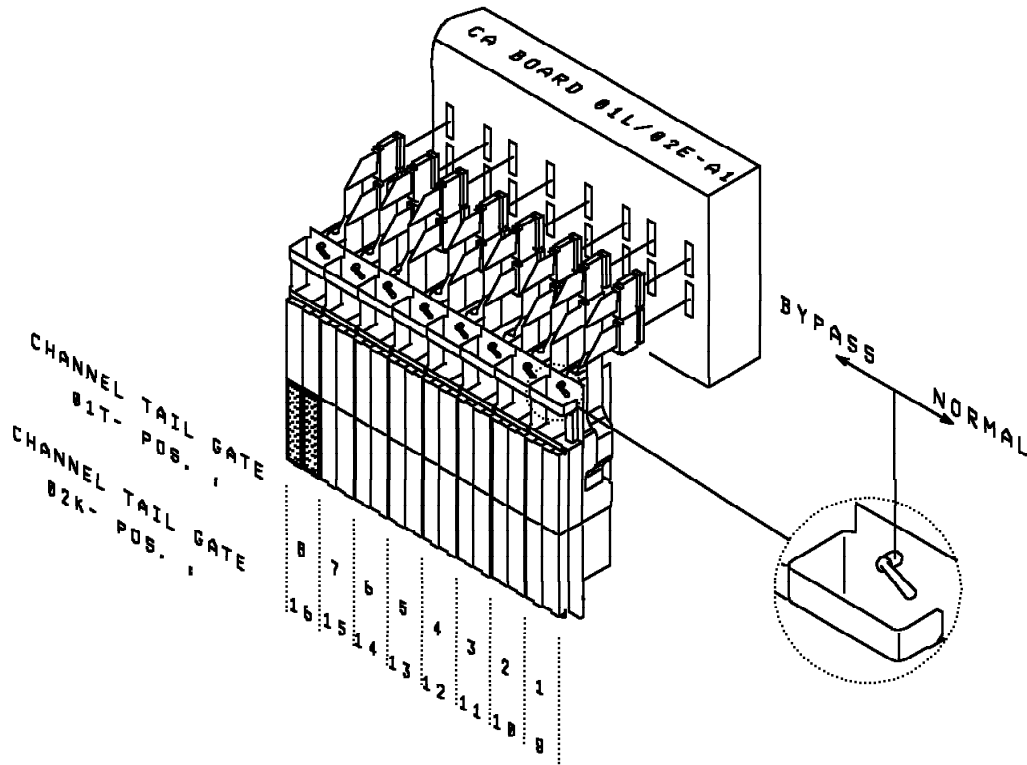
- ___ 6. Identify the EVEN Channel Tailgate position selected per tables in step 4.0, "Preparation" on page 3, then remove dummy tailgate with its 2 screws (PN 2665527). Retain screws.

- If you install a Flex Tailgate (PN 11F6750), go to step 10.2.3, "FLEX Tailgate Installation (PN 11F6750)" on page 11.
- If you install a BNI Tailgate (PN 6495821), proceed.

10.2.2 BNI Tailgate Installation (PN 6495821)

- ___ 1. Install tailgate (PN 6495821) using screws retained in previous step.
- ___ 2. Plug CA tailgate cables on CA board.
- ___ 3. Mount screw (PN 1727465) on bracket (PN 6495694) and secure cable connectors on board.
- ___ 4. Be sure that the **Select Out** bypass switch is on normal position.

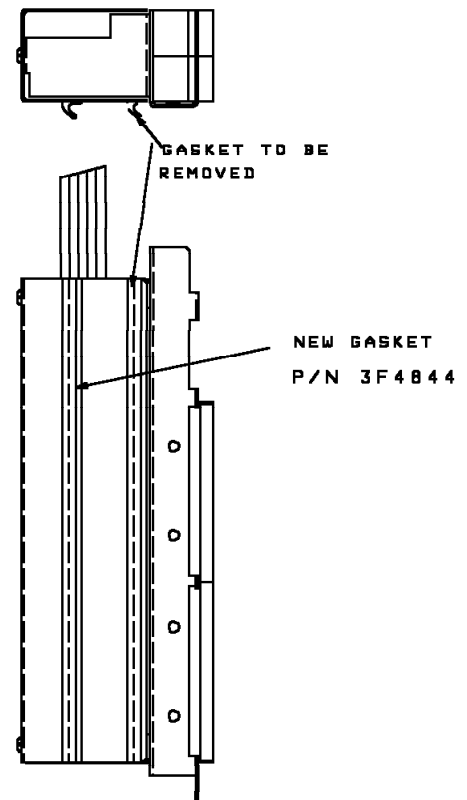




- Go to step 10.3, "Card Installation" on page 12.

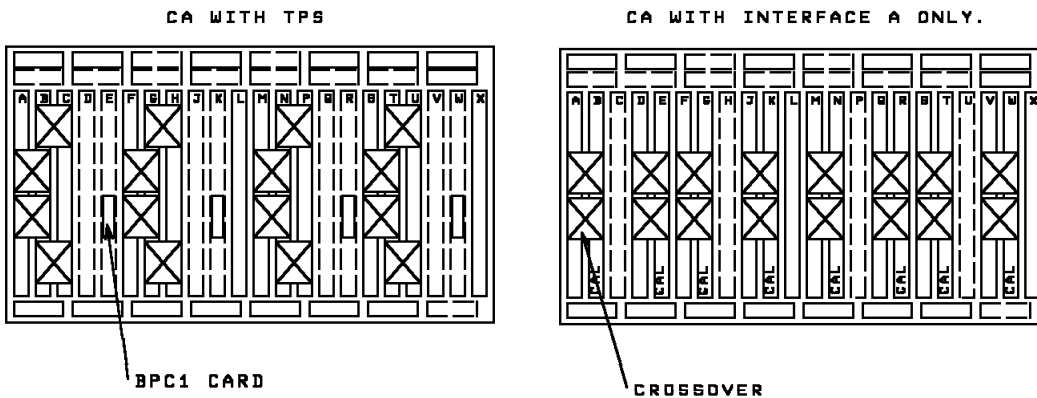
10.2.3 FLEX Tailgate Installation (PN 11F6750)

1. Before installing Flex Tailgate, you must rework the right adjacent tailgate if it is a BNI one (PN 6495821) or a dummy one with a rubber gasket.
2. For the rework, you have to remove the rubber gasket and stick the new one PN 03F4844 (provided by the FFB/M) as shown in the drawing.
3. Install tailgate (PN 11F6750) using screws retained in previous step.
4. Plug CA tailgate cables and secure connectors on CA board.
5. Be sure that the **Select Out** bypass switch is on normal position.



10.3 Card Installation

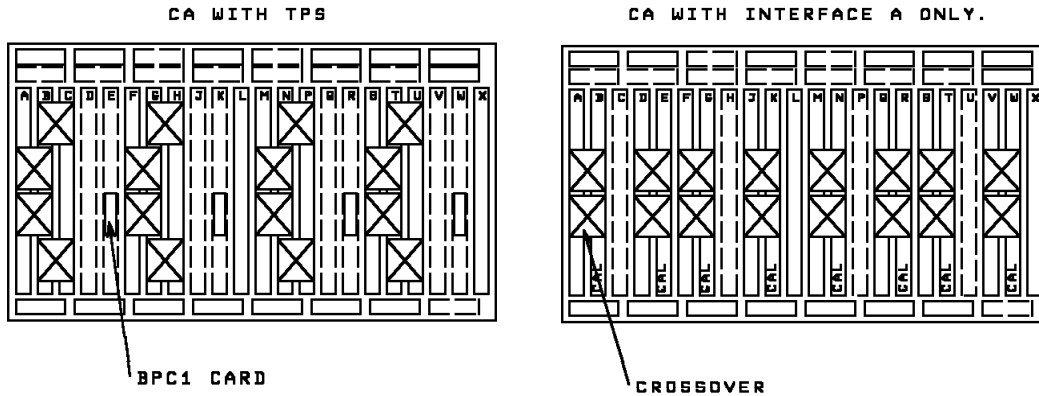
- ___ 1. From the front of machine, open shield of the frame identified with tables in step 4.0, "Preparation" on page 3.
- ___ 2. Locate CA board in position 01L or 02E.
- ___ 3. Identify the Channel Adapter card position selected in tables in step 4.0, "Preparation" on page 3.
- ___ 4. Remove dummy card from position where TPS feature will be installed.
- ___ 5. Verify that holder (PN 1953244) is installed on CADR-B card provided by the FFBM.
- ___ 6. Plug the card in appropriate location of CA board (C2,H2,P2,U2).
- ___ 7. Plug two crossovers in W and Z top card connectors of CAL and CADR-B cards.
- ___ 8. Close shield.



- Go to step 10.5, "Power ON" on page 14

10.4 CADS + TPS in two CADS Conversion (RPQ 7L1103)

Warning: Follow existing ESD procedures when handling logic parts.



- ___ 1. Open shields of the frame where the adapter is to be converted (see tables in step 4.0, "Preparation" on page 3).
- ___ 2. Locate CA board in position 01L or 02E.
- ___ 3. Identify the position of the CADR-B card to be moved (see tables in step 4.0, "Preparation" on page 3).
- ___ 4. Remove 2 crossovers from top card connectors W and Z of CAL/CADR-B, then remove CADR-B from board.
- ___ 5. Remove dummy card from right adjacent card position and install it in CADR card position you have just removed.
- ___ 6. Plug the CADR card in place of dummy card.
- ___ 7. Remove the BPC1 card from the following EVEN CAL position (see table below).

CADR MOVED		BPC1 REMOVED FROM	CAL PLUGGED IN
FROM	TO		
C2	D2	E4	E2
H2	J2	K4	K2
P2	Q2	R4	R2
U2	V2	W4	W2

- ___ 8. Plug the CAL card provided by FFB/M 11F6519 in BPC1 position.
- ___ 9. Reinstall two crossovers removed in previous step in Y and X top card connectors.
- ___ 10. Close shield.

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

- If you have converted a CA in a 3745-X1A or in a 3746-A11 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 **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 feature 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 **6** (CA), press **Send/Enter**.
- ___ 4. Enter the CA number, press **Send/Enter** (not required if microcode EC A47030 or higher is installed).
Check for a **Y** in TPS column of the CA you have converted to CA + TPS, or for an **N** if you have removed a TPS.
Note: Press **F8** to display CA positions 9 through 16.
- ___ 5. Press **F6**.

11.1.5 Update Channel Addresses and CA Parameters

- ___ 1. Refer to the following tables.
- ___ 2. Enter the CA position you have just converted, press **Send/Enter**.
- ___ 3. Press **F5** for update 'I/O ERROR ALERT' and TPS/TCS MODE if required.
- ___ 4. Press **Send/Enter**, then **F8**.
- ___ 5. Update the applicable fields for interface B, press **Send/Enter**.
- ___ 6. press **F1**.

Channel Burst length	
Block Multiplex or Selector Channel	254
Byte Multiplex With all buffered devices	NCP : 254 PEP : 64
With unbuffered devices	16 : 4341, 4381 32 : 3033, 308x, 309x ES9000

High speed data transfer				Data streaming
Host type	Byte CA	block CA	Selector CA	
3033	NO	YES	YES	NO
308X	YES	YES	NO	NO
309X	YES	YES	NO	YES
ES9000	YES	YES	NO	YES
4341	YES	YES	YES	NO
4361	YES	YES	NO	NO
4381	YES	YES	NO	NO
937X	NO	YES	NO	YES
3044	-	-	-	NO

11.1.6 Run the Diagnostics

- ___ 1. Enter **ODG**, press **Send/Enter**.
- ___ 2. Enter **4** (CA).
Enter the **Adapter Number**, press **Send/Enter**.
 - If **NO ERROR FOUND** is displayed, press **F1**.
 - If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

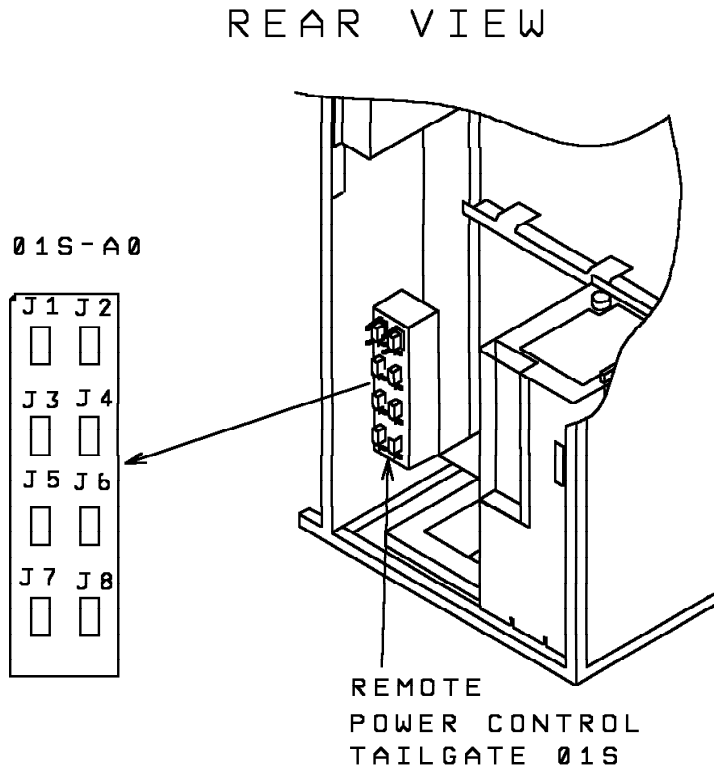
- For RPQ 7L1103, go to step 11.2.4, "Save Hard Disk Contents Onto the Backup set of Diskettes" on page 16.
- For RPQ 7L1102/7L1196, continue.

11.2 External Wrap Test

- ___ 1. On diag request menu, enter **L001** in Diag field and the CA number of newly installed Adapter in **ADP ==>** field.
- ___ 2. Follow the prompts on console and refer to MIP chapter 4 for proper action.
 - If **NO ERROR FOUND** is displayed, press **F1**.
 - If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

11.2.1 EPO Cable

If required, connect EPO cable. See following figure for the **Remote Power Control tailgate** location in 3745.



11.2.2 External Cables

- ___ 1. Connect external channel cables according to customer configuration.
- ___ 2. Re-install shields and bracket previously removed.
- ___ 3. Close system cover.

11.2.3 Optional OLT Diagnostics

- ___ 1. Enter **CID**, press **Send/enter**.
- ___ 2. Enable the interface B of selected CA. Press **F1** when function completed.
- ___ 3. Enter **ODG**, press **Send/Enter**.
- ___ 4. Enter **8 (OLT)**, and the adapter number, press **Send/Enter**. Follow the prompts.
- ___ 5. Refer to *3745 Channel Adapter on line test guide D99-3745* to make appropriate replies.

- If **NO ERROR FOUND** is displayed, press **F1**.
- If an error is displayed, see the *MIP*, Chapter 2, and follow the appropriate procedure.

11.2.4 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 a CA in a 3745-X1A or in a 3746-A11 connected to a 3746-X1A, go to step 11.2.6, "Logoff MOSS-E" on page 17.
- Otherwise, continue.

11.2.5 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 11.2.7, "General IPL."

11.2.6 Logoff MOSS-E

- ___ 1. On the **3745 Menu** window, double click on **MOSS Console**,
- ___ 2. Enter **CID**, press **Enter**.
- ___ 3. Enable the channel adapter recorded in Step 10.1.3, "Log the Service Processor on" on page 6.
Wait until all channels are **E** in the E/D REQUEST column.
Press **F1**.
- ___ 4. Enter **OFF**, press **Enter**.
- ___ 5. On the **3745 Menu** window, click on **Function**. Then, click on **Exit**.
- ___ 6. On the **MOSS-E View** window, click on **Program**.
- ___ 7. Click on **LOG OFF MOSS-E**.

11.2.7 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).
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

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

15.0 Machine Records

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

End of instructions.

3745 FFBM	PN 11F6520 17 of 18	See EC History	EC A98112 30OCT90	EC A98318 05AUG91	EC D55651 07JUL93	EC D55799 16SEP94
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PN 11F6520 18 of 18	See EC History	EC A98112 30OCT90	EC A98318 05AUG91	EC D55651 07JUL93	EC D55799 16SEP94
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Headings			
<u>id</u>	<u>File</u>	<u>Page</u>	<u>References</u>
TABLE	P11F6520 SCRIPT	3	4.0, Preparation 7, 8, 9, 12, 12, 13, 13
OO	P11F6520 SCRIPT	6	10.1.1, From the 3745 Control Panel 17
NN	P11F6520 SCRIPT	6	10.1.2, Log the 3745-X10 Console on 17
SP1	P11F6520 SCRIPT	6	10.1.3, Log the Service Processor on 6, 17
CDF1	P11F6520 SCRIPT	6	10.1.4, Verify the CDF 6
PO	P11F6520 SCRIPT	7	10.1.7, Power OFF
FLEX	P11F6520 SCRIPT	11	10.2.3, FLEX Tailgate Installation (PN 11F6750) 9
CARD	P11F6520 SCRIPT	12	10.3, Card Installation 11
CONV2	P11F6520 SCRIPT	13	10.4, CADs + TPS in two CADs Conversion (RPQ 7L1103) 7
POWERON	P11F6520 SCRIPT	14	10.5, Power ON 12
AA	P11F6520 SCRIPT	14	11.0, Test Procedures
SP3	P11F6520 SCRIPT	14	11.1.2, Open MOSS/MOSS-E Session 14
LL	P11F6520 SCRIPT	14	11.1.3, Update the CDF 14
MM	P11F6520 SCRIPT	15	11.1.6, Run the Diagnostics
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Processing Options

Runtime values:

Document fileid	P11F6520 SCRIPT
Document type	PNCDOC
Document style	FBII
Profile	EDFPRF30
Service Level	21Jun90
SCRIPT/VS Release	3.2.1
Date	94.09.14
Time	16:09:05
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

Imbed Trace

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