

# Field Feature Bill of Material (FFBM)

#### PN 58G5516

# Replace CBSP with CBSP2 (FC 5019) in IBM 3746 Models 900

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# **Before Installation (Steps 1-8)**

Net Priced Feature -

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

#### 1.0 Machines Affected

All 3746 Models 900.

#### 2.0 Related BMs and ECs

#### 2.1 Prerequisites

(Must be installed prior to this installation)

EC microcode D22510 minimum level or higher.
 Checkpoint: Check that the basic level packaging unit CSS 1 EC level is D22510-056 or higher (Refer to SPIM, Chapter 3, 'Displaying the EC Level of Code Installed on the Hard Disk).

If the EC level is not present you must upgrade the Licensed Internal Code.

#### 2.2 Concurrent

(Must be installed together) None.

#### 2.3 Companion

(May be installed separately) None.

### 3.0 BMs to be Used

- 58G5516 Installation Instructions.
- FFBM 58G5516 Replace CBSP with CBSP2.

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### 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. Ask the customer:
  - For the maintenance password (Default: IBM3745).
  - To stop traffic on the 3745 and on the 3746-900
  - To logoff the Service Processor (SP), if not already done.

### 5.0 Programming

### 5.1 Diagnostic Programs

None.

### 6.0 Purpose and Description

#### 6.1 Purpose

Install CBSP type 2

### 6.2 Description

Exchange of a CBSP type 1 with a CBSP type 2 Cassette.

#### 7.0 Installation Time

FFBM	Machine Hours	System Hours	Nbr of CE's
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# 8.0 Tools/Materials Required.

ESD kit (PN 6428316).

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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 Communication Controller Models 210 to 61A Maintenance Information Procedures, SY33-2054
- 3745 Communication Controller Models 130 to 17A Maintenance Information Procedures, SY33-2070

#### 10.0 Details of the Installation

10.1	1 Log the Service Processor ON	
	1. On MOSS-E View window	v, click on <b>Program</b> .
	2. Click on LOG ON MOSS-	E.
	3. Enter the maintenance p	assword, press <b>Enter</b> .
10.2	2 Setting the 3746-900 in Offline N	lode
	1. Return to the <b>3746-9x0 M</b>	enu window.
	2. Click on the Problem Ma	nagement option.
	3. Double click on the <b>Set</b> 3	3746-9x0 Online/Offline option.
	4. The <b>Set 3746-9x0 Online/</b> tion to set the machine <b>0</b>	Offline window is displayed, follow the instruc- Offline
	5. Wait for the IML to end v 3746-900 Control panel.	vith <b>00000000</b> and ready LED ON, on the
10.3	3 Setting the 3746-900 Power Mod	e
	If the 3746-900 is in Pow cator of the 3746-900 cor	er Mode 1 (remote), set the <b>Power Control</b> indi- ntrol panel to 3 (local).
	Press the <b>Validate</b> key.	

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#### 10.4 Exchanging a CBSP with a CBSP2

- From the service processor, return to the MOSS-E VIEW window and double click on the service processor icon.
- 2. On the Service Processor Menu window, click on the Configuration Management option, then
- \_\_\_ 3. Double click on the Manage 3745/3746-900 Installation/removal option.
- 4. On the Controller Installation window, select the machine by clicking on the serial number of the machine you are upgrading and click on repair.
- 5. On the Repair Actions for 3746-900 window, select the Change 3746-900 CBSP option and click on OK.
- Follow the instructions
- \_\_\_ 7. Locate the CBSP 3 cassette using Figure 1 and the labels on the doors.

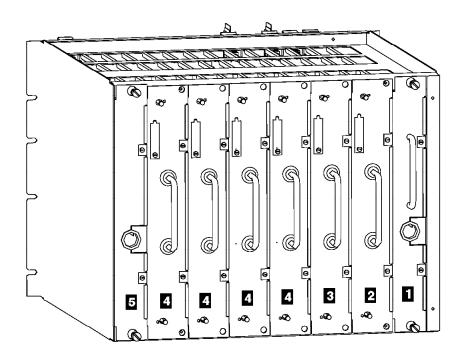


Figure 1. Basic Board 07G-A1 Locations (Processor Side, 3746-950 Front View)

- 8. WARNING: Use the ESD kit and procedures.
- 9. If there is a cable plugged in the front of the CBSP, remove the bracket, and unplug the cable.
- \_\_ 10. Remove the cassette:
  - · Press the two unlocking buttons and
  - · pull out the cassette.
- 11. Insert the CBSP2 cassette into the enclosure and slide it firmly in until it clicks (locks in).

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	12.	If there was a cable in front of the CBSP, plug it again and secure it with the bracket previously removed.
	13.	On the 3476-900 control panel: Press General IML button.
		CBSP2 hardware initialization phase is started which should terminate with <b>05282805</b> displayed at the 3746-900 control panel. If a problem occurs during this phase, a code is displayed on the control panel. This code can be flashing or steady (more than 60 seconds).
		Is code 05282805 displayed?
		• YES, Go to 14.
		• NO, Go to 22 on page 8.
		No, es to 22 on page of
	14.	Return to Service Processor, then click on <b>OK</b> .
	15.	Continue with the displayed instruction of the <b>Controller Repair Message</b> .
		On the 3746-900 Control Panel
		Is the <b>Standby</b> LED <b>ON</b> ?
		• YES, Go to 16.
		• NO, Go to 10.5, "Upgrading 3746-900 EEPROM." on page 8.
_	16.	Press the 'start' key on the 3746-900 control panel to continue. An IML is started.
		A normal IML is terminated by <b>00000000</b> displayed on the 3746-900 control panel.  If a problem occurs during IML, a code is displayed on the control panel. This code can be flashing or steady (more than 60 seconds).
		├── Is code 00000000 displayed? ────
		• YES, Go to 17.
		• <b>NO</b> , Go to 19.
	17.	Return to the Controller Repair Message window and click on OK.
	18.	Continue with the displayed instruction of the <b>Controller Repair Message</b> , then go to 10.5, "Upgrading 3746-900 EEPROM." on page 8.
	19.	Record the displayed control panel code, then
	20.	To fix the problem, go to 3746-900 Control panel code reported on
		Chapter 1. Start - How to Begin Troubleshooting: Selection Table of the 3745 Communication Controller Models 210 to 61A Maintenance Information Procedures, SY33-2054,or 3745 Communication Controller Models 130 to 17A Maintenance Information Procedures, SY33-2070
	21.	Go to 10.5, "Upgrading 3746-900 EEPROM." on page 8.
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		22	. Record the display	ed control panel code.
		23	. Return to Service I	Processor, then click on <b>OK</b> .
		24	. Remove the CBSP2 CBSP2 from C.E. S	2 that you have installed and order a replacement stores.
		25	. Reinstall a new CB	SP2, go to step 8 on page 6.
10.5	Upgrading	374	6-900 EEPRON	И.
		II	mportant ————	
		Che	ck the EC level of th	e Licensed Internal Code installed:
			f lower than D22560 on page 9.	D, go to 10.6, "Running the Diagnostics on 3746-900"
		• 1	f D22560 or higher, (	go to next step.
		1	. Return to the <b>3746</b> -	-900 menu
		2	. Click on the <b>Chang</b>	ge Management Option
		3	. Double click on the	e Upgrade/downgrade EEPROM Code Level option.
		4	- <del>-</del>	nde window is displayed telling that the Service hing the 3746-900 configuration.
		5	processors are hig	pgrade window, the upgradable or downgradable hlighted in reverse video according to the prese- e <b>Upgrade</b> or <b>Downgrade</b> options at the top of the
		6	. Select the Upgrade	option at the top of the screen, then click on <b>OK</b> .
		7	. An <b>EEPROM Upgra</b> in progress and the	nde window informs you that the EEPROM upgrade is e time duration.
		8	·	ated <b>EEPROM Upgrade</b> window is displayed with the defor each processor.
			Check the result a	nd take the appropriate action:
			EEPROM Status	Action
			Complete	Upgrade done without error, click on <b>Cancel</b> button to exit the function.
			Start failed	Call your support.
			Failed	Call your support.

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Completion failed Call your support.



10.6 Running the Diagnostics on 3746-9	10.	0	.6	Running	the	Diagnostics	on	3746-90
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_	<ol> <li>Return to the 3746-9x0 Menu window, the icon should be Red (Machine offline).</li> </ol>
	2. Click on the <b>Problem Management</b> option.
	3. Double click on the <b>Perform Offline Diagnostics</b> option.
	4. The <b>Diagnostics</b> window is displayed.
	5. Select the Whole 3746-900 and the No wrap options and click on Start.
_	<ol> <li>The <b>Diagnostics</b> window is displayed again and the <b>Elapsed time</b> is incremented during test</li> </ol>
	7. At the end of the test the number of errors is indicated by an arrow.
	<ul> <li>If an error is detected, refer to 3745 Communication Controller Models 210 to 61A Maintenance Information Procedures, SY33-2054 or 3745 Communication Controller Models 130 to 17A Maintenance</li> </ul>

- Display the Field Replacement Unit (FRU) List After a Diagnostic Failure, then
- to 3746-900 Maintenance Using the FRU list.

Information Procedures, SY33-2070, go to

• If no error is detected, click on Cancel, then go to next step.

#### 10.7 Setting the 3746-900 to Online Mode

	1. Return to the 3746-9x0 Menu window.
	2. Click on the <b>Problem Management</b> option.
_	3. Double click on the Set 3746-9x0 Online/Offline option.
	<ol> <li>The Set 3746-9x0 Online/Offline window is displayed, follow the instruc- tion to set the machine Online</li> </ol>

#### 10.8 Resetting the 3746-900 Power Mode

The **Power Control** is **3** (local). If its original value was **1** (remote), do the following:

1. On the Control Panel, press the **Power Control** key until (1) is displayed.

 On the Control Panel, press the **Power Control** key until (1) is displayed in the Power Control window, then

\_\_ 2. Press the Validate key.

### 10.9 Returning the Machine to the Customer

\_\_ 1. Log the Service Processor **OFF** 

2. Inform the Customer to restart the traffic on the 3745 and on the 3746-900

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# 11.0 Test Procedures

Not applicable.

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# 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

- Record in the MACHINE HISTORY the new EC D22901A installed.
- · Report installation and quality problems using existing procedures.

End of instructions.

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