Field Feature Bill of Material (FFBM)

PN 58G6828   RPQ 7L1246

**Exchange ESCC Coupler (FC 5501) by ESCC2 Coupler (FC 5502)
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.

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1.0 Machines Affected

3746 Models 900.

2.0 Related BMs and ECs

2.1 Prerequisites

(Must be installed prior to this installation)

- EC microcode D22482.

- EC documentation C38776.
  Checkpoint: EC level on PRD sheet (vol 1).

2.2 Concurrent

(Must be installed together)
None.

2.3 Companion

(Must be installed separately)
None.

3.0 BMs to be Installed

- 58G6828 - Installation Instructions

- FFBM 29H4162, convert ESCC to ESCC2.

4.0 Preparation

1. See the *HONE configuration/plugging sheet* and the following figures to determine the cassette positions.

Basic Enclosure Rear View

| DUMMY | TIC3/LIC | TIC3/ESCC/LIC | TIC3/LIC | TIC3/ESCC/LIC | TIC3/LIC | TIC3/ESCC/LIC | TIC3/LIC | CBC/TIC3/ESCC/LIC | TIC3 | CBC | DUMMY | SPD1 |

| DUMMY | TRP/ESCP/CLP | TRP/ESCP/CLP | TRP/ESCP/CLP | TRP/ESCP/CLP | CBSP | SPS | CSCE |

Front View

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Expansion Enclosure Rear View

```
| D | T | T   | T | T   | T | T   | T | T   | T | T   | T | T   | S |
| U | I | I   | I | I   | I | I   | I | I   | I | I   | I | I   | P |
| M | C | C   | C | C   | C | C   | C | C   | C | C   | C | C   | D |
| M | 3 | 3   | 3 | 3   | 3 | 3   | 3 | 3   | 3 | 3   | 3 | 3   | 2 |
| Y | / | /   | / | /   | / | /   | / | /   | / | /   | / | /   |   |
|   | L | E   | L | E   | L | E   | L | E   | L | E   | L | E   |   |
|   | I | S   | I | S   | I | S   | I | S   | I | S   | I | S   |   |
|   | C | C   | C | C   | C | C   | C | C   | C | C   | C | C   |   |
|   |   | C   |   | C   |   | C   |   | C   |   | C   |   | C   |   |
|   |   | /   |   | /   |   | /   |   | /   |   | /   |   | /   |   |
|   |   | L   |   | L   |   | L   |   | L   |   | L   |   | L   |   |
|   |   | I   |   | I   |   | I   |   | I   |   | I   |   | I   |   |
|   |   | C   |   | C   |   | C   |   | C   |   | C   |   | C   |   |

| D | T   | T   | T   | T   | T   | T   | C |
| U | R   | R   | R   | R   | R   | R   | S |
| M | P   | P   | P   | P   | P   | P   | C |
| M | /   | /   | /   | /   | /   | /   | E |
| Y | E   | E   | E   | E   | E   | E   |   |
|   | S   | S   | S   | S   | S   | S   |   |
|   | C   | C   | C   | C   | C   | C   |   |
|   | P   | P   | P   | P   | P   | P   |   |
|   | /   | /   | /   | /   | /   | /   |   |
|   | C   | C   | C   | C   | C   | C   |   |
|   | L   | L   | L   | L   | L   | L   |   |
|   | P   | P   | P   | P   | P   | P   |   |
```

Front View

2. Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.

3. Check all items listed on the BM(s) to determine that all parts have been received.

5.0 Programming

5.1 Diagnostic Programs
None.

6.0 Purpose and Description

6.1 Purpose
Exchange of a feature.

6.2 Description
Exchange of a cassette and reconfiguration of the machine.

7.0 Installation Time

FFBM Installed	Machine Hours	System Hours
58G6828	0.5	0.0

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 Maintenance Information Procedure (MIP)* manual, SY33-2054.

10.0 Details of Installation

Before the installation, ask the customer:

___ • To deactivate resources for the identified coupler/processor.

___ • For the maintenance password.

___ • To logoff the Service Processor (SP), if not already done.

10.1 3746-900 Power Mode

___ Check that the **Power Control** display is set to local (3) on the control panel. If not, do the following:
  • Press the **Power Control** key until (3) is displayed in the Power Control window.
  • Press the **Validate** key.

10.2 Log the SP ON

___ 1. On **MOSS-E View** window, click on **Program**.

___ 2. Click on **LOG ON MOSS-E**.

___ 3. Enter the maintenance password, then press **Enter**.

10.3 ESCC Disabling

For concurrent maintenance, the ESCC must be disabled performing the following steps.

___ 1. On the **MOSS-E View** window, double click on the 3746-900 on which you want to work.

___ 2. The **3746-900 Menu** window is displayed:

___ 3. Click on **Configuration Management**.

___ 4. Double click on **Manage ESCON Processors**.

___ 5. The **ESCP Management - Resource Selector** window is displayed.

___ 6. click on the ESCP line of the ESCC to be replaced, then

___ 7. click on **OK**.

___ 8. The **ESCON Configuration - Lines** window is displayed.

___ 9. Click on **Options** (in the action bar) and click on **Manage ESCC Status**.

___ 10. The **ESCC Status Management** window is displayed.

___ 11. Verify the ESCC to be disabled is present,

___ 12. Click on **Disable**, then

___ 13. Click on **Options** (in the action bar) and Click on **Send Request and Save**.

___ 14. The **Confirmation** window is displayed.

___ 15. Click on **OK**.

___ 16. A **Warning** window informs you that the ESCP configuration is saved.

___ 17. click on **OK**.

___ 18. Click on **Refresh**(in the action bar), then click on **Permanent Refresh**.

___ 19. When **Disable** is done, the **ESCC x Status** line displays: **DISABLED**.

___ 20. Click on **Refresh**(in the action bar), then click on **Stop Permanent Refresh**.

___ 21. Click on **Options** (in the action bar), then click on **Return**.

___ 22. The **ESCON Configuration - lines** window is displayed.

___ 23. click on **Options** (in the action bar), then click on **Exit**.

___ 24. The **ESCP Management Resource Selector** window is displayed.

___ 25. Click on **Cancel**.

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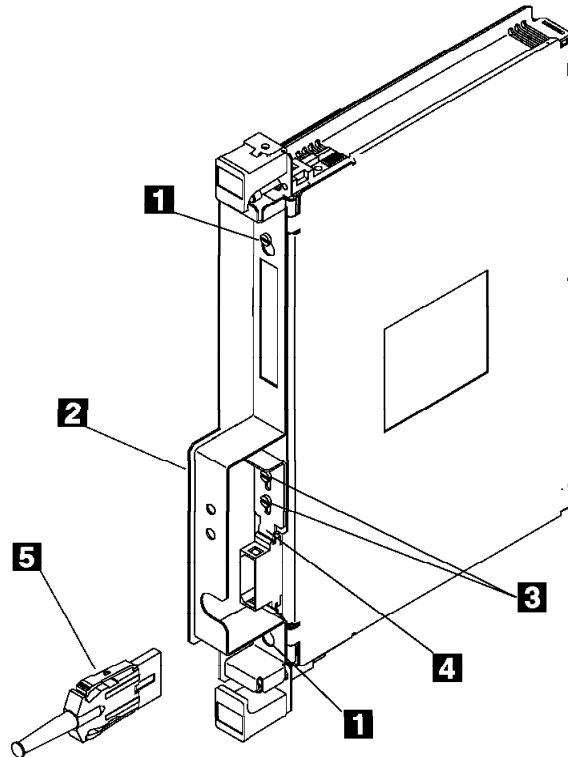___ 26. The **3746-900 Menu** is displayed.

10.4 Cassette Replacement

___ 1. Double click on **Replace Resources in Concurrent Mode**.

___ 2. The **Replace resource options - Resource Selector** window is displayed.

___ 3. Click on the resource you want to replace the corresponding ESCC, then click on **OK**.

___ 4. The **Resource Selector** window is displayed.

___ 5. click on the ESCP line of the ESCC to be replaced, then

___ 6. click on **OK**.

___ 7. When a **Warning** window appears **wait** for alarm 0651.

___ 8. When alarm 0651 is displayed, click on **OK**.

___ 9. The **Warning** window is displayed. Go to step10 to step 12 and replace the ESCC.

> **Warning**
>
> Use the ESD kit and procedures.

___ 10. ESCC coupler removal procedure:

  ___ a. Locate the coupler cassette to be replace.

  ___ b. Remove the cable located on the ESCC using the following procedure:
  - Loosen the two screws **1** .
  - Remove the bracket **2** .
  - Loosen the two screws **3** .
  - Slide the bracket **4** upwards.
  - Unplug the optical fiber ESCA cable **5** .

  ___ c. Using the labels on the doors for reference, press the two unlocking buttons and pullout the cassette.

___ 11. Exchange the ESCC by the ESCC2.

___ 12. ESCC2 coupler installation procedure:

  ___ a. Insert the ESCC2 into the enclosure and slide it firmly until it clicks (Lock in).

  ___ b. Remove the protection of the ESCC2 light.

  ___ c. Replace the removed cable:
  - Loosen the two screws on the cassette **1** .
  - Remove the bracket **2** .
  - Loosen the two screws **3** .
  - Slide the bracket **4** upwards.
  - Plug the optical fiber ESCA cable **5** into the cassette.
  - Slide the bracket **4** downwards
  - Fasten the two screws **3** .
  - Reinstall the bracket **2** .
  - Fasten the two screws **1** .

___ 13. On reception of alarm 0051/571, click on **OK**.

___ 14. On reception of alarm 0052/572, click on **OK**.

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Note: alarm 0052/0572 may be replaced by an error alarm, this error alarm must be ignored, click on **OK**.

___ 15. On the **Warning** window, click on **OK**.

___ 16. Click on **Perform diagnostics on the Resource**, then click on **OK**.

___ 17. The **Diagnostic window** is displayed.

___ 18. Click on **Start**.

___ 19. The **Select adapter** window is displayed.

___ 20. On the **Warning** window, click on **OK**.

___ 21. The **Diagnostic** window is displayed. (test time: about 3 minutes)

___ 22. Check that no errors are logged, then

___ 23. Click on **Cancel**.
If an alarm related to this ESCP/ESCC2 resource is displayed refer to the *MIP*, SY33-2054.

___ 24. The **Replace Resource Options** window is displayed.

___ 25. Click on **Initialize the resource**, then

___ 26. Click on **OK**.

___ 27. A **Warning** window (Request is complete) appears, click on **OK**.

___ 28. When the alarm 063C IML Completed appears, click on **OK**.

___ 29. Click on **Remove from concurrent mode** and click on **OK**.

___ 30. A **warning** window informs you that **Resource removed from concurrent maintenance and ready operation**

___ 31. Click on **OK**.

___ 32. When the alarm 0657 Concurrent Mainte-nance completed appears, click on **OK**.

___ 33. On the **warning** window, click on **OK**

___ 34. The **resource selection** window is dis-played.

___ 35. Click on **cancel**.

___ 36. Double click on **Manage ESCON Processors**.

___ 37. The **ESCP Management - Resource Selector** window is displayed.

___ 38. Select the desired ESCP, then

___ 39. Click on **OK**.

___ 40. The **ESCON Configuration - Lines** window is displayed.

___ 41. Click on **Options** (in the action bar) and click on **Manage ESCC Status**.

___ 42. The **ESCC Status Management** window (for the ESCC present: YES) is displayed.

___ 43. Click on **Enable**.

___ 44. Click on **Options** (in the action bar) and Click on **Send Request and Save**.

___ 45. On **Confirmation** panel, click on **OK**.

___ 46. A **Warning** window informs you that the ESCP configuration is saved:

___ 47. Click on **OK**.

___ 48. The **ESCC Status Management** window is displayed.

___ 49. Click on **Refresh** (in the action bar) and click on **Permanent Refresh**.

___ 50. When **Enable** is done, the **ESCC x Status** line displays: **ENABLED**.

___ 51. Click on **Refresh** (in the action bar) and click on **Stop Permanent Refresh**.

___ 52. Click on **Options** (in the action bar) and click on **Return**.

___ 53. The **ESCON Configuration - Lines** window is displayed.

___ 54. Click on **Options** (in the action bar) and click on **Exit**.

___ 55. The **ESCP Management Resource Selector** window is displayed.

___ 56. Click on **Cancel**.

___ 57. The **3746-900 Menu** is displayed.

___ 58. Click on **Configuration Management**.

___ 59. Double click on **Save Active CDF-E as Reference**.

___ 60. The **Save Active** window is displayed.

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___ 61. Click on **OK**.

___ 62. A **Warning** window informs you that the **SAVE** is successful.

___ 63. Click on **OK**.

10.5 Save CDF-E on Diskette

___ 1. Double click on the SP icon.

___ 2. The **Service Processor Menu** window is displayed.

___ 3. Click on **Configuration Management**.

___ 4. Double click on **Manage 3745-3746-9X0 Installation**.

___ 5. The **Controller Installation** window is displayed.

___ 6. Click on the machine you are installing/removing the cassette.

___ 7. Click on **Save**.

___ 8. When requested, insert the *Installation Parameters Diskette* in the diskette drive of the SP.

___ 9. When the **Warning** window is displayed, remove the diskette and click on **OK**.

___ 10. The **Controller Installation** window is displayed.

___ 11. Click on **Cancel**.

___ 12. The **3746-900 Menu** window is displayed.

10.6 3746-900 Power Mode

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

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

 • Press the **Validate** key.

10.7 Log the SP OFF

___ 1. The **3746-900 Menu** window is displayed.

___ 2. Click on **Function**, then click on **Exit**.

___ 3. The **MOSS-E View** window is displayed.

___ 4. Click on **Program**, then click on **LOG OFF MOSS-E**.

11.0 Test Procedures

No test required.

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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

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

End of instructions.

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