



Field Feature Bill of Material

PN 02L3675

**Install Network Node Control Point (NNP-A)
Feature Code 5122**

on IBM 3746-900.

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Before Installation (Steps 1-8)

1.0 Machines Affected

3746 Model 900

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

2.0 Related BMs and ECs

2.1 Prerequisites

(Must be installed prior to this installation)

Feature	Title
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5023	Controller Expansion (B/M 29H4173)
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9018	Controller Bus and Service Processor Type 2 - (B/M 59G0456), or
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9023	Controller Bus and Service Processor Type 3 - (B/M 94H7367).
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5026	Hard Disk Drive Exchange (B/M 29H4179) (If Service Processor type 9577 only).
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EC	Title
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D46130	Licensed Internal Code (Minimum level)
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Checkpoint: Check that the CSS 1 EC Level is D46130.000 or higher.

Note: Refer to *SPIM*, Chapter 3. *Displaying the EC Level of the Code*.

2.2 Concurrent ECs

(Must be installed together)

None.

2.3 Companion ECs

(May be installed together)

None.



3.0 BMs to be Installed

Feature

B/M

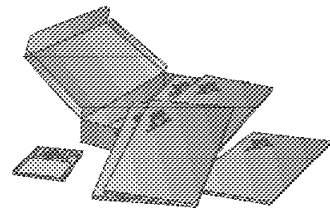
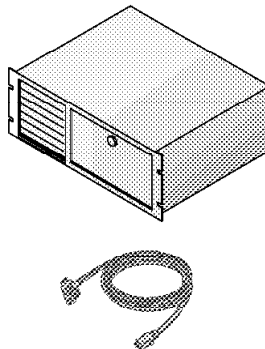
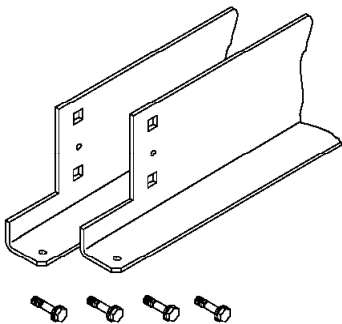
Title

02L3674 Network Node Processor A (NNP-A) Feature Code 5122

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.

- Brackets (X2) and Screws (X4)
- 7585-P02 System Unit and Power Cord
- Publications and diskette



3. The set up of the NNP-A has no impact on customer operations.
4. Obtain from the customer the **Parameter worksheet**.

5.0 Programming

None.



6.0 Purpose and Description

6.1 Purpose

To support the APPN, X25, IP or ISDN operation on 3746-900.

6.2 Description

The installation of the NNP-A is divided into three main procedures:

1. Installing the **NNP** code on the **SP** hard disk.
2. Installing the 7585-P02 system unit
3. Loading the code on the NNP-A.

7.0 Installation Time

FFBM	Machine Hrs.	System Hrs.	Nbr of CEs
02L3675	0.2	0.0	1

Note: To reduce the MES installation time it is recommended that you load the Network Node Processor Code on the Service Processor and install the system unit at the same time.

No impact on 3745 customer operations.

8.0 Tools/Material Required

None.

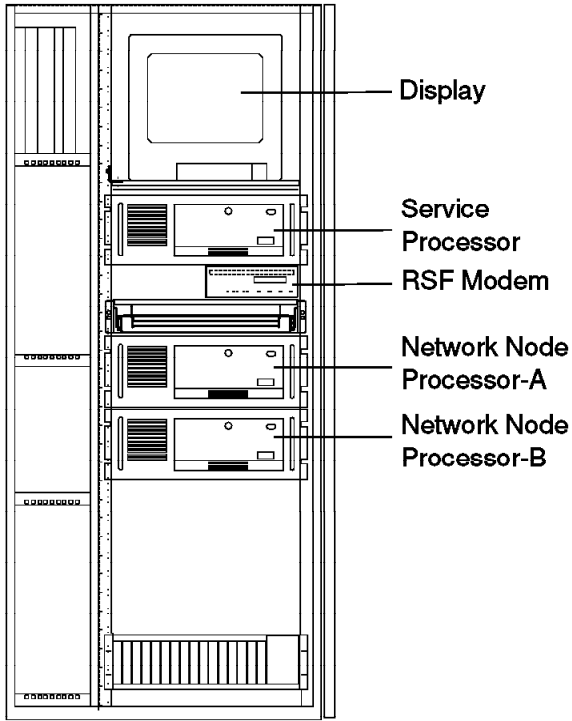


Figure 1. NNP-A installed with SP 7585.

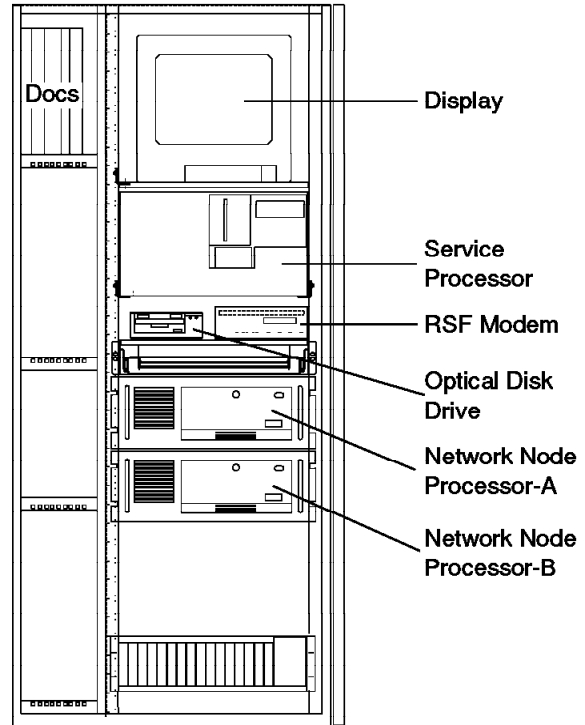


Figure 3. NNP-A installed with SP 3172.

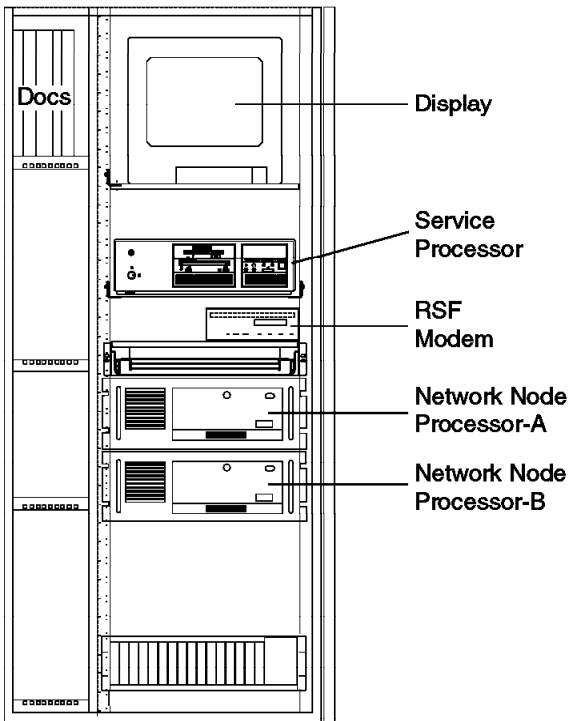


Figure 2. NNP-A installed with SP 9577.

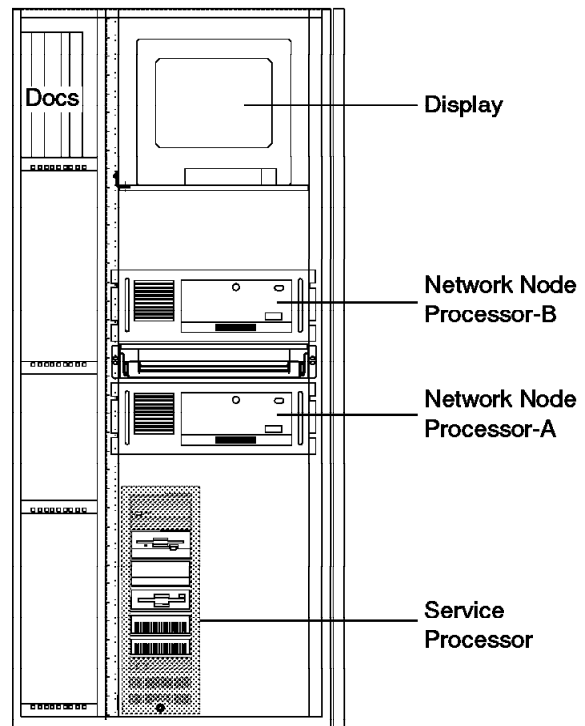


Figure 4. NNP-A installed with SP 9585.

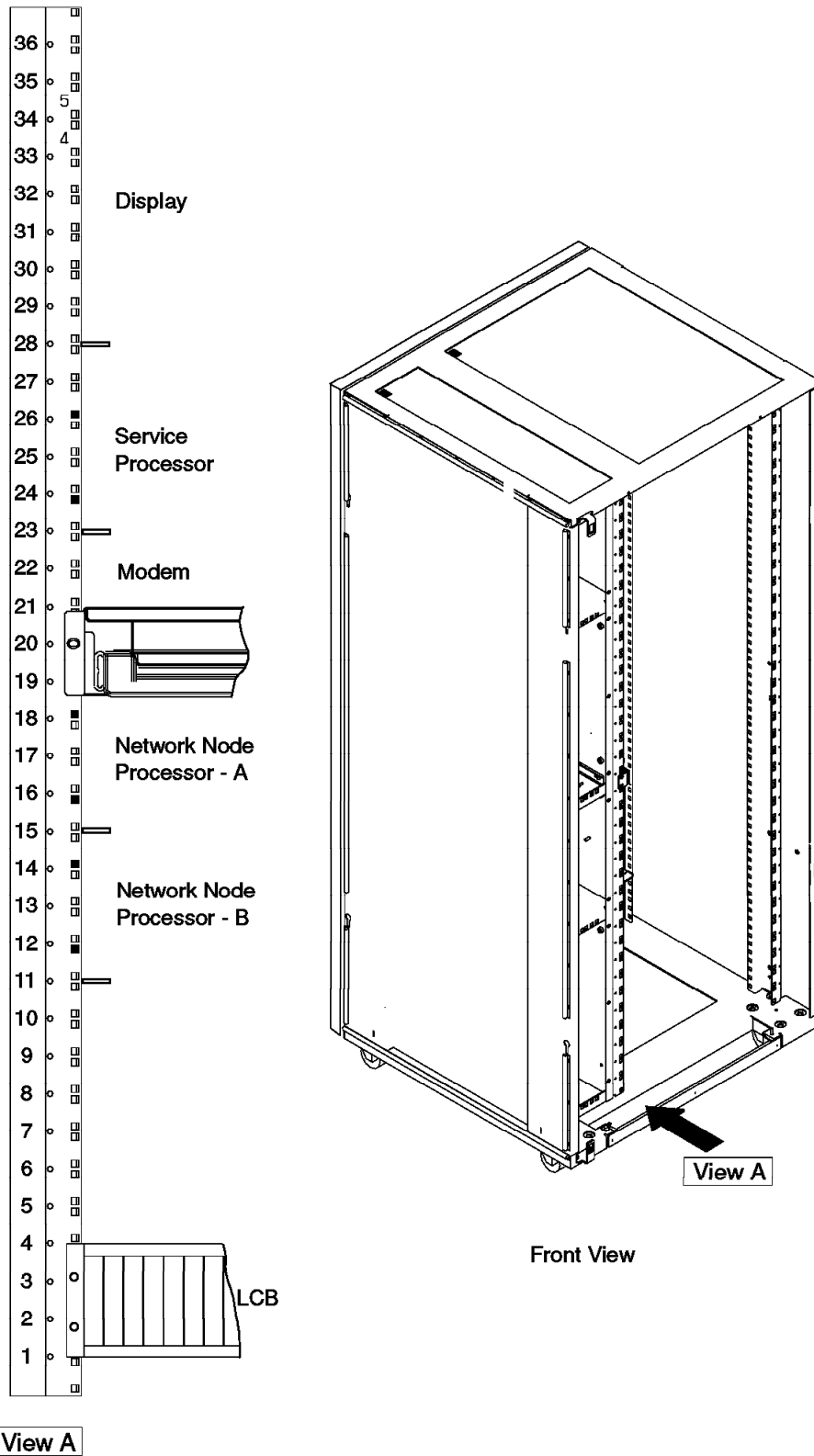


Figure 5. Installing Brackets for Processor Type 7585

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Installation (Steps 9-12)

9.0 Safety

Review the **Safety Notices** and the **Safety Inspection Procedures** located at the beginning of the *IBM 3745 Communication Controller All Models, IBM 3746 Expansion Unit Model 900, IBM 3746 Nways Multiprotocol Controller Model 950 Safety Information*, GA33-0400.

10.0 Details of Installation.

Notes

For any unexpected message or error concerning the service processor, go to **Chapter 4. Problem Determination** of the:

- *Service Processor Installation and Maintenance (Based on 7585, 3172, 9585, and 9577)*, SY33-2115, or
- *Service Processor Installation and Maintenance (Based on 7585, 3172, and 9585)*, SY33-2120.

10.1 Installing the NNP Code on the SP hard Disk.

LIC Media?

Compact Disk	Go to 10.1.1, "Installing the NNP Code from the Compact Disk"
Optical Disk	Go to 10.1.2, "Installing the NNP Code from the Optical Disk" on page 9

10.1.1 Installing the NNP Code from the Compact Disk

On the Service Processor

1. Enter the **Service Processor Maintenance** password (default is IBM3745).
2. Double click on the **Service Processor** object icon.
3. Click on **Configuration Management**
4. Insert the **Licensed Internal Code CD-ROM** in the CD-ROM drive.
5. Double click on the **Install 3746 and NNP LIC on SP Hard Disk**, then follow the prompts.
6. Wait (Up to 45 minutes) for the message: **Operation successfully completed**.

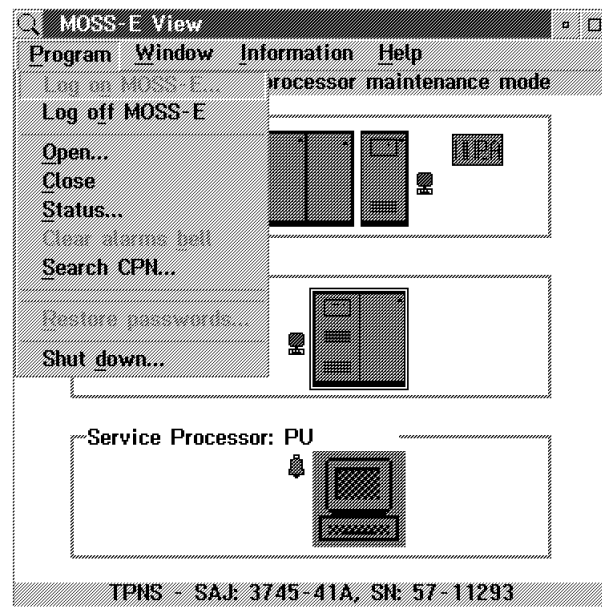
Go to 10.2, "Installing the System Unit" on page 11



10.1.2 Installing the NNP Code from the Optical Disk

Shut Down and Power OFF the Service Processor (If not already done):

- ___ 1. On the "MOSS-E view" window click on "**Program**".
- ___ 2. Click on "**Shut down**".



- ___ 3. Enter the Service Processor maintenance password (default is IBM3745). Then, click on "**OK**" button.
- ___ 4. Power **OFF** the service processor.

Installing the Code:

- ___ 5. Install the **Service Processor installation diskette 1** in the Service Processor diskette drive.
- ___ 6. Power **ON** the service processor.
- ___ 7. Install the **Licensed Internal Code** optical disk, at EC D46130 or higher, in the Service Processor optical disk drive.
- ___ 8. On the first screen displayed, press "**Enter**" key.



- ___ 9. From the primary window select option **5** (**Update Licensed Internal Code when installing a Network Node Processor**).

Then, press "**Enter**" key to start the process then follow the prompts.

Service Processor Installation Main Menu

Select one of the following options using ↑ and ↓ or tab keys, then press Enter:

1. Update Licensed Internal Code (LIC) when installing a 3746-9XX

2. Update Licensed Internal Code

3. Restore hard disk

4. Save hard disk

5. Update Licensed Internal Code when installing a Network Node Processor

6. Exit

Enter

- ___ 10. Wait (Up to 45 minutes) for the message: **Operation successfully completed.**

- ___ 11. At the end, select "**Exit**" and press the **Enter** key from the primary window and follow the prompts.

Service Processor Installation Main Menu

Select one of the following options using ↑ and ↓ or tab keys, then press Enter:

1. Update Licensed Internal Code (LIC) when installing a 3746-9XX

2. Update Licensed Internal Code

3. Restore hard disk

4. Save hard disk

5. Update Licensed Internal Code when installing a Network Node Processor

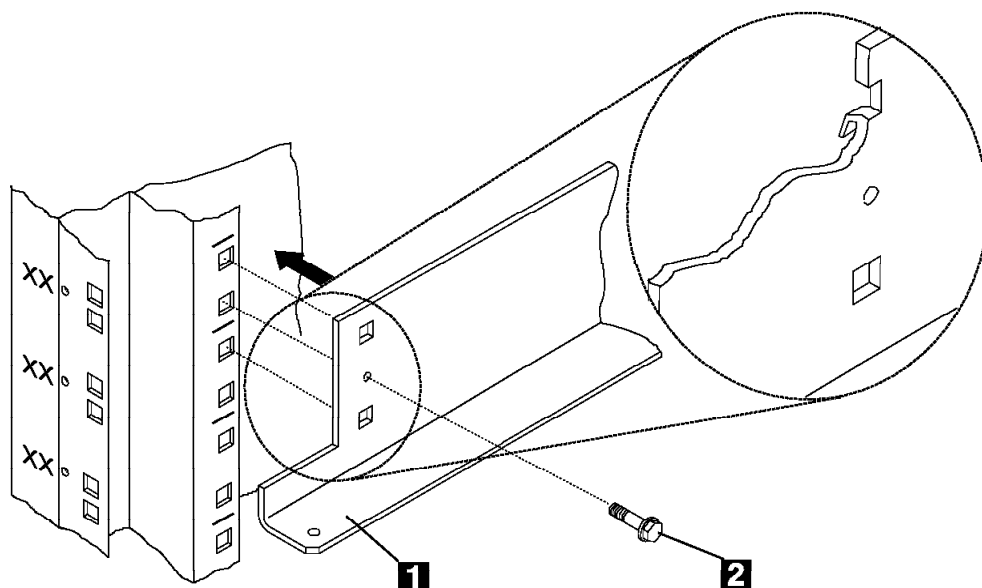
6. Exit

Enter

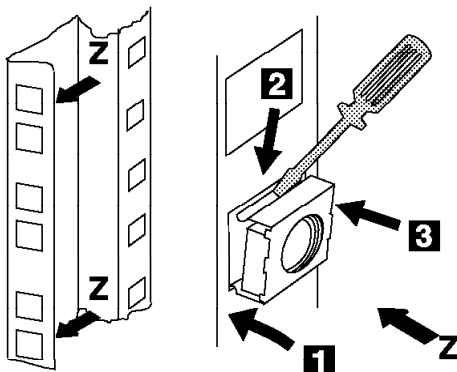
10.2 Installing the System Unit

- 1. If not already done, open the front and rear doors of the Controller Expansion.
- 2. Locate the location to install the NNP-A in the Controller Expansion (Refer to Figure 1 on page 6 to Figure 4 on page 6).
- 3. Install the right and left brackets **1** (PN 58G5752), provided with the FFB/M, in the controller expansion. Then, tighten using the four screws (p/n 2665527 **2**).

Note: If some brackets are already install in the position where the NNP-A must be install, remove those left and right brackets.

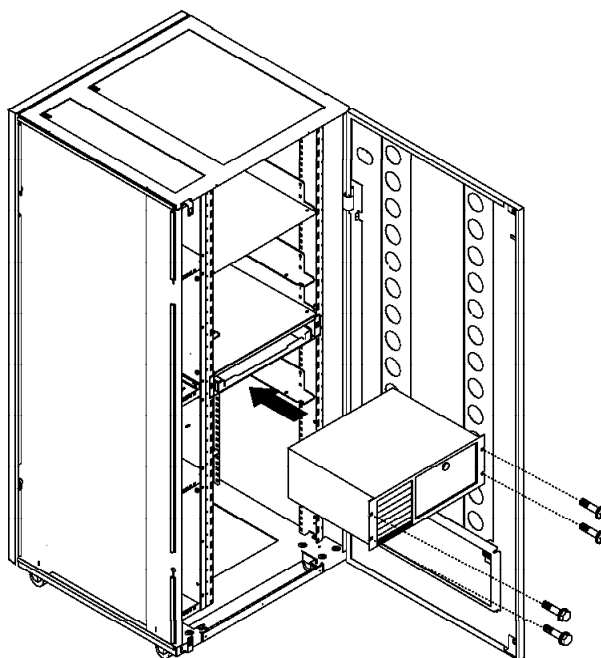


- 4. Install four captive nuts (PN 58G5766) on the left and right side of the controller expansion (Refer to Figure 5 on page 7).

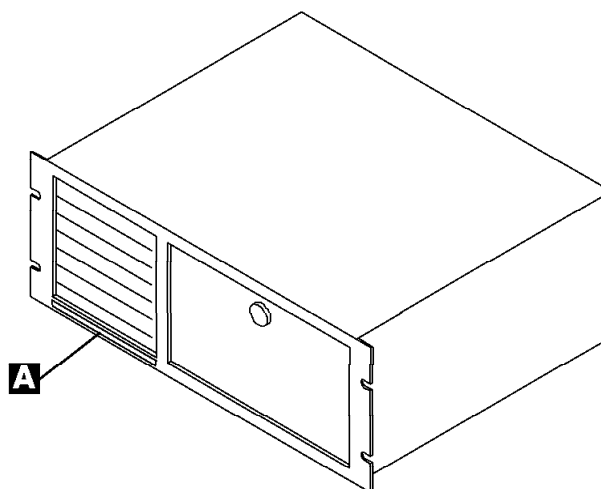




- ___ 5. Slide the network node processor unit in the controller expansion from the front side, then fasten the unit using four screws (PN 1621230).



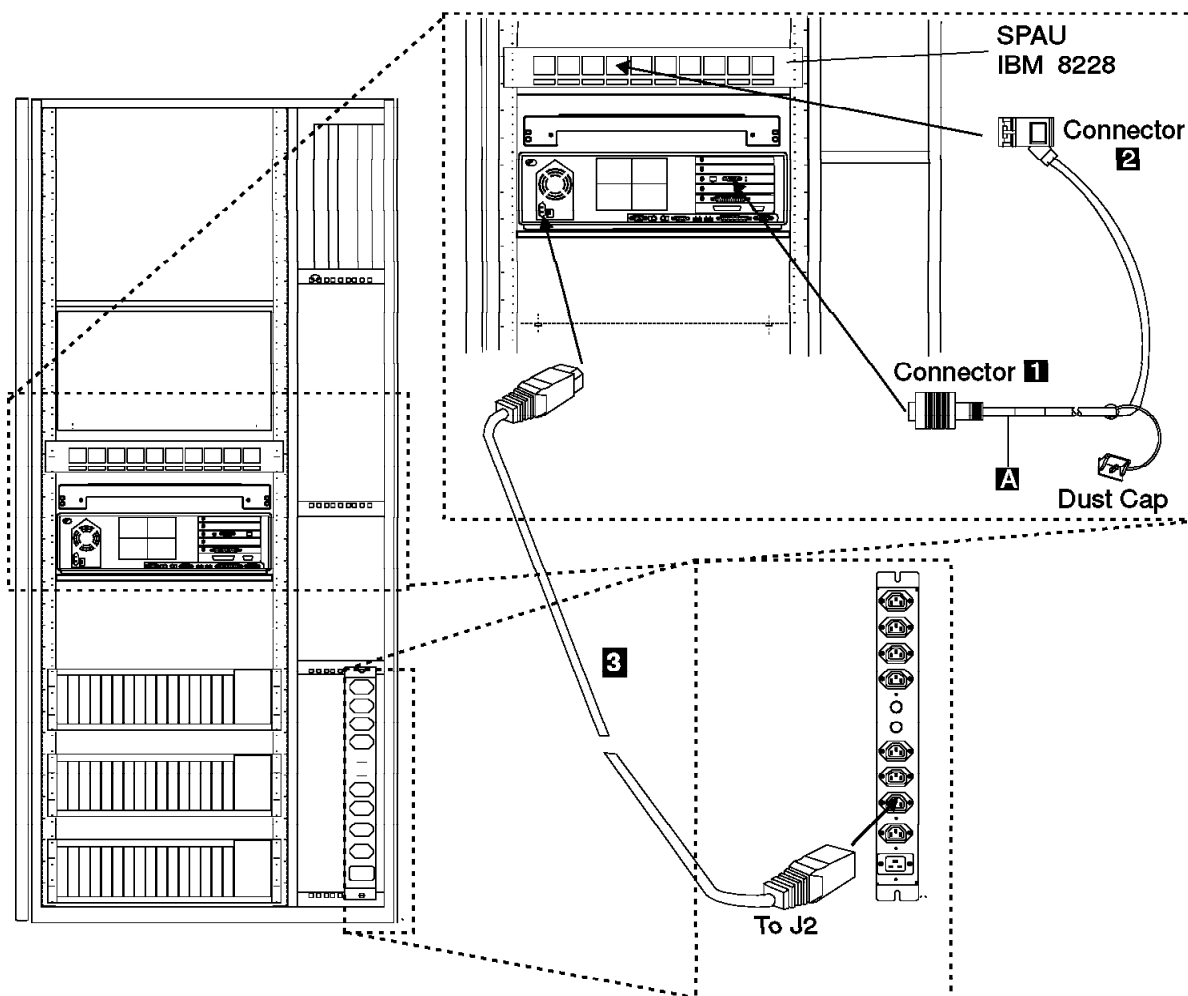
- ___ 6. Using label (PN 0792966), **identify** your Network Node Processor-A by sticking the appropriate label **A** on the front and rear side of the unit.





10.3 Connecting the NNP-A.

- 1. Plug connector **1** of cable **A** (PN 6339098) to the token-ring card connector.
- 2. Using a sticker, identify the cable **A** as the "network node processor cable" and plug connector **2** to **any** plug of the 8228 from **1 to 8**
- 3. Connect power cord **3** from J2 to the ac outlet of the NNP-A.



On the NNP-A Front Side:

- 4. Open the access door, then press the Power button to **Switch ON** the NNP-A system unit.

Note: For any unexpected message or error concerning the NNP-A, go to **Chapter 3. Network Node Processor Problem Determination** of the *Network Node Processor Installation and Maintenance Manual*. SY33-2111.



10.4 Installing the Code on the Network Node Processor

On the Service Processor

- ___ 1. Double click on the 3746-900 icon where you are going to install the NNP-A.
- ___ 2. From the 3746-9x0 menu, click on **Network Node Processor (NNP) Management**.
- ___ 3. Double click on **(M) Install/Remove/Change/Restore LIC/NNP**.
- ___ 4. Click on the **NNP-A** radio button, then click on **Install NNP** button.
- ___ 5. Click on **OK**.
- ___ 6. If necessary, modify the **IP address** and the **Subnet mask** for the service processor and the network node processor according to the values recorded by the customer on the parameter worksheet. Otherwise keep the default values and record the hostnames for later use. Then, Click on **OK** button.

	IP address	Subnet mask	Hostname
Service Processor:	192.9.200.1	255.255.255.240	SP11111
NNP-A:	192.9.200.2	255.255.255.0	CA112345
NNP-B:		255.255.255.0	CB112345
3746 NN:	192.9.200.4	255.255.255.0	

OK Cancel Help

- ___ 7. Insert the **Network Node Processor installation diskette** in the diskette drive of the **Service Processor**. Then, click on **OK** button.

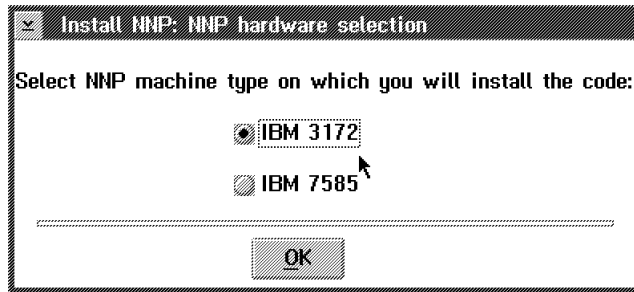
821V03.0/3746-9x0/NNP Licensed Internal Code (LIC) Management

i Please insert the Network Node Processor Installation Diskette in the Service Processor Drive A.

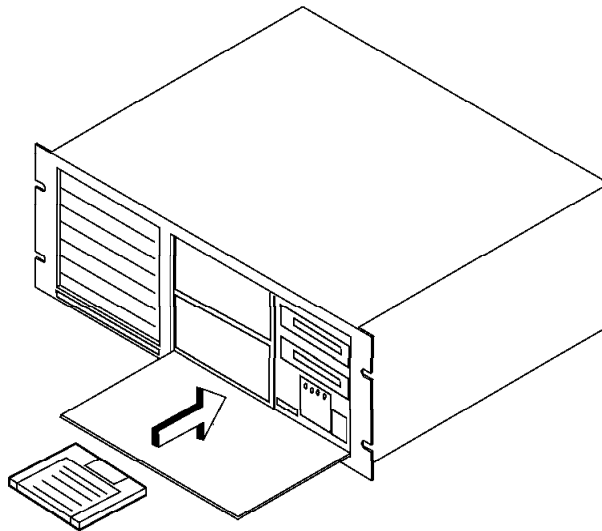
OK



- ___ 8. Click on the **IBM7585** radio button, then click on **OK** button.



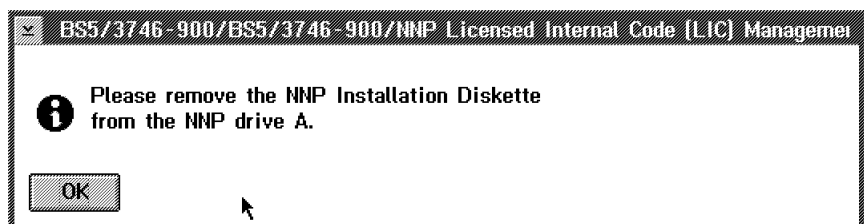
- ___ 9. When the process is completed, power OFF the Network Node Processor A.
- ___ 10. Remove the **NNP Installation Diskette** from the **Service Processor**; Then insert it in the **NNP-A** diskette drive.



- ___ 11. Power ON the Network Node Processor A.
- ___ 12. Then click on **OK** button.
- ___ 13. To follow the progress of the installation, read the messages prompted in '**Messages**' box.

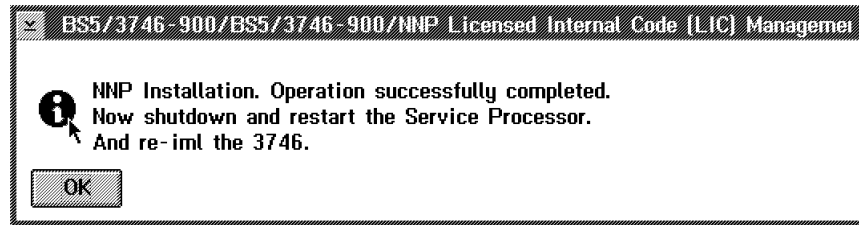
Note: It takes about 30 minutes to complete the installation

- ___ 14. As indicated in the following information message, remove the Network Node Processor installation diskette, then click on **OK** button.





- ___ 15. The installation is completed, click on **OK** button.



- ___ 16. Click on **Close** button.
- ___ 17. Ask the customer for a maintenance window on 3746-900 with traffic deactivated.
- ___ 18. Shutdown and restart the Service Processor and re-iml the 3746-9x0

10.5 Returning the Machine to the Customer

- ___ 1. Inform the Customer that the machine is now ready to receive the APPN configuration.

11.0 Test Procedures

No test required.

12.0 Field Updating

None.

After Installation (steps 13-15)

13.0 Field Updating

None.

14.0 Publications Update

None.

15.0 Parts Disposition

15.1 Purchased Machines

Refer to the parts ownership matrix to determine the correct owner of removed/unused parts.

- For EMEA/APG/AG Areas, refer to *Hardware and General Service Code Description*.
- For Domestic Areas, return parts to the customer.

16.0 Machine Records

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

End of instructions.



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