



Field Feature Bill of Material

PN 02L3496 or 08J5516

Installation of an External CD Rom Drive (FC 5051)

on IBM 3745 Models X1A and 3746 Models 9X0

with Service Processor Type 9585 or 3172.

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Before Installation (Steps 1-8)

1.0 Machines Affected

3745 Models XXA or 3746-9x0 with Service Processor Type 9585 or 3172 (FC 5021).

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

2.0 Related BMs and ECs

None.

3.0 BMs to be Installed

FFB/M	Title
08J5516	External CD-ROM Drive on Service Processor type 3172 installation, or
02L3496	External CD-ROM Drive on Service Processor type 9585 installation.

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 upgrade of the Service Processor has no impact on customer operations.

5.0 Programming

None.

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6.0 Purpose and Description

6.1 Purpose

To allow the use of CD-ROM on the Service Processor type 3172 or 9585.

6.2 Description

To install an external CD-ROM Drive.

7.0 Installation Time

FFBM	Machine Hrs.	System Hrs.	CE Hours	Nbr of CE
08J5516 or 02L3496	00.0	00.0	1	1

No impact on 3745 or 3746-9x0 customer operations.

8.0 Tools/Material Required

None.

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.*

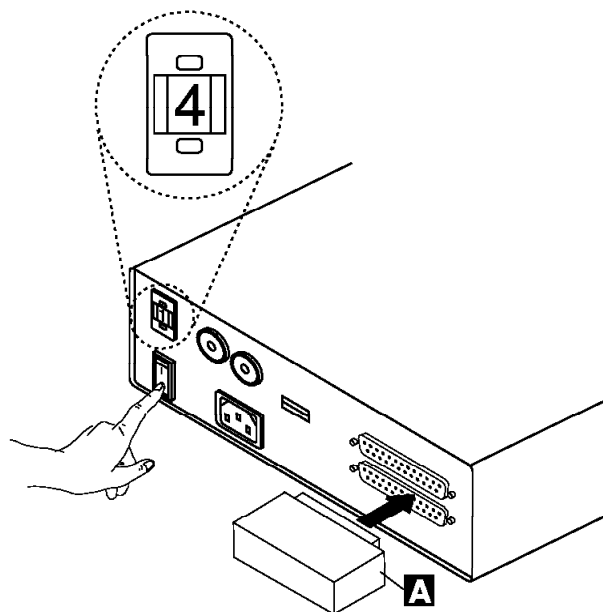
10.0 Details of Installation

10.1 Setting the CD-ROM Drive.

- ___ 1. Unpack the CD-ROM Drive.

On the rear side of the CD-ROM Drive:

- ___ 2. Verify that the power switch is set to **OFF**.
- ___ 3. Verify that the SCSI switch is set to the address ID **4**, if necessary change the ID by pressing the buttons located at the right and left of the display.
- ___ 4. Plug terminator **A** (if not already done) into the lower connector.



10.2 Powering OFF the Service Processor.

- ___ 1. Locate the Service Processor unit.
- ___ 2. If the Service Processor unit installed in the Controller Expansion, Open the front and rear covers of the Controller Expansion.
- ___ 3. Locate the Optical Disk Drive.
- ___ 4. On the **MOSS-E View** window, click on **Program**.
- ___ 5. Double click on **shut-down**, then enter the maintenance password, and click on **OK**.



- ___ 6. When the pop-up appears saying shut down has completed, power OFF the Service Processor.

SP Type?

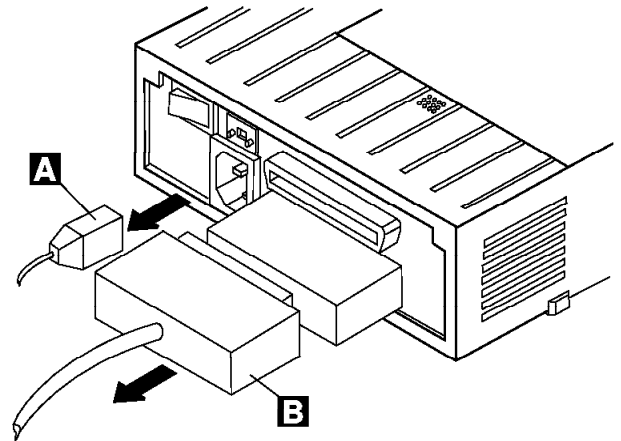
3172 go to 10.3, "Installing the CD ROM on SP Type 3172.."

9585, go to 10.4, "Installing the CD ROM on SP Type 9585." on page 9.

10.3 Installing the CD ROM on SP Type 3172.

10.3.1 Removing the Optical Disk Drive (ODD).

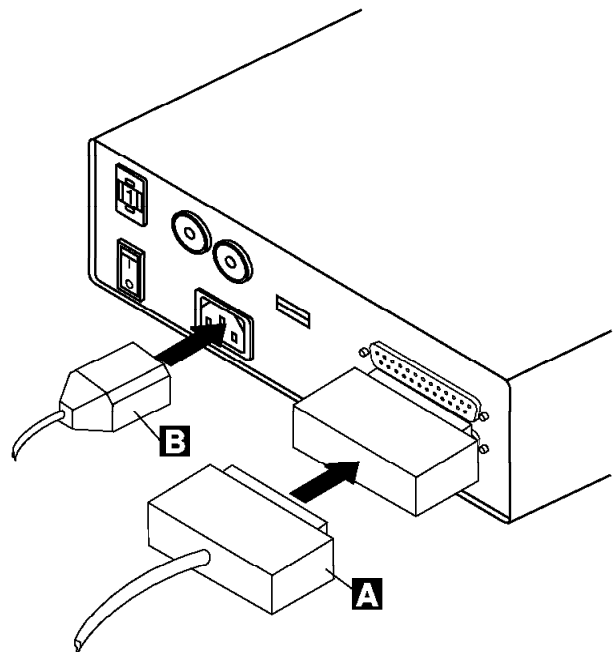
- ___ 1. **On the rear side of the ODD**, turn OFF the power switch (0).
- ___ 2. Unplug the power cable **A** from the power connector and unplug the signal cable **B** from the upper connector.
- ___ 3. Remove the ODD. Then, pack it on the return box PN 32H0346 provided in the Microcode Upgrade FBM or FFBM.



10.3.2 Installing and Connecting the CD-ROM Drive.

- ___ 1. Install the CD-ROM Drive at the place where the ODD was.
- ___ 2. Plug the SCSI cable **B** into the upper connector, and
- ___ 3. Plug the power cable **A** into the power connector.

Note: Re-use the SCSI and power cables of the ODD.



10.3.3 Checking the SCSI device Configuration.

- ___ 1. Power **ON** the CD-ROM Drive and then the Service Processor.
- ___ 2. When the **F1**-key prompt appears on the screen under the **IBM** logo press the **Esc** key.
- ___ 3. The following message is displayed:

The adapter configuration changed

- ___ 4. Wait until the following message appears; Then, press **N** key.

Adapter Configuration Error 00165

If you have installed or removed an adapter, run automatic configuration

If you have not installed or removed an adapter do not run automatic configuration. Continue until the Main Menu appears. Select "Test the computer" to determine the cause of this error and what action to take.

Automatically configure the system? (Y/N)

- ___ 5. Press the **F8** key to scroll through any error message panels and then press **Enter** key to exit the last error panel.
- ___ 6. From the **Main Menu**, select option **Set Configuration**.
- ___ 7. From the **Set Configuration** menu, select the option **Set and View SCSI Device Configuration**.
- ___ 8. Use the Up/down arrow keys to move the highlight bar down to the line which reads
Not present KEEP
This line should correspond to the SCSI address of the old Optical Disk Drive (05), if it's SCSI address was different to the one set on the CD ROM Drive (04).
- ___ 9. Use the **F5** key to change the **KEEP** into **REMOVE**.
- ___ 10. Press **F10** key to save the configuration and press the **Enter** key to confirm the completion message.
- ___ 11. Press **F3** key to return to the main menu, then press the **Enter** key to confirm the reboot.
- ___ 12. When the **F1** key prompt appears on the screen under the **IBM** logo press the **Esc** key.
- ___ 13. From the **Main Menu**, select option **Set Configuration**.



- ___ 14. From the **Set Configuration** menu, select the option **Set and View SCSI Device Configuration**.
- ___ 15. Compare values with the following screen.

```
Set and View SCSI Device Configuration

SCSI Configuration Verification..... (ENABLED)

Slot 8 - IBM PS/2 SCSI Adapter W/Cache - 512KB Cache
  SCSI Address (ID)..... (7)
  SCSI Device Type..... Hard Disk
  Device Address (ID, LUN)..... 6,0
  Device Size..... 2255MB
  Presence Error Reporting..... (ENABLED)
  Operational Error Reporting.... (ENABLED)

  SCSI Device
  Device Type..... ROM Device
  Device Address (ID, LUN)..... 4,0
  Presence Error Reporting..... (ENABLED)
  Operational Error Reporting.... (ENABLED)
```

- ___ 16. If the details are correct, press **F3** until exit prompt.

```
Save Configuration is complete

Enter
```

- ___ 17. Follow the prompts to exit until the following message appears.
- Remove the reference diskette; then, press **Enter** key.

```
Message

Press enter to restart the computer
ans start the operating system. Remove
the reference diskette from the default
drive if you want to restart the
computer from a diskette or hard disk
drive.

Enter Esc=Cancel
```

- ___ 18. The Service Processor reboot, when completed **Go to 11.0, "Test Procedures" on page 12**.

10.4 Installing the CD ROM on SP Type 9585.

10.4.1 Installing and Connecting the CD-ROM Drive.

1. If the Service Processor system unit is installed on the Controller Expansion install the CD-ROM Drive on the service drawer; otherwise, close to the system unit.
2. Plug one side of the SCSI cable (PN 92F2559) into the the SCSI connector **5** on the rear side of system unit, and
3. The other end **A** on the upper SCSI connector of the rear side of the CD-ROM Drive
4. Plug the power cord (PN 58G5783) into the power connector (See **A** on Figure 1), and

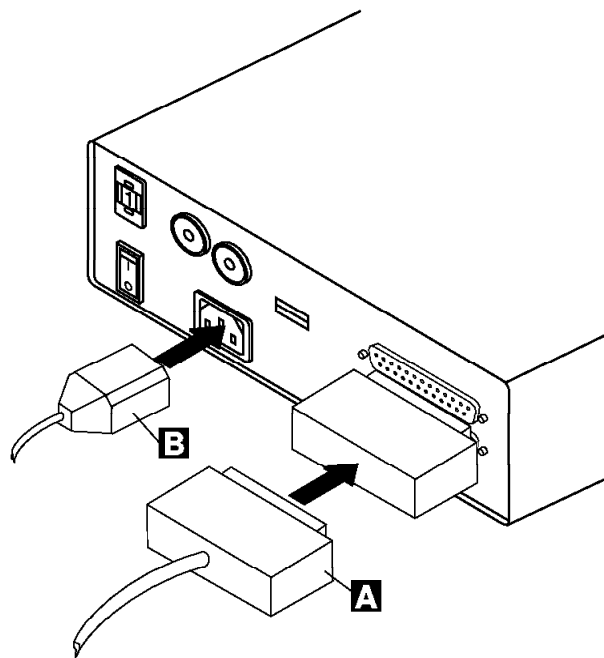
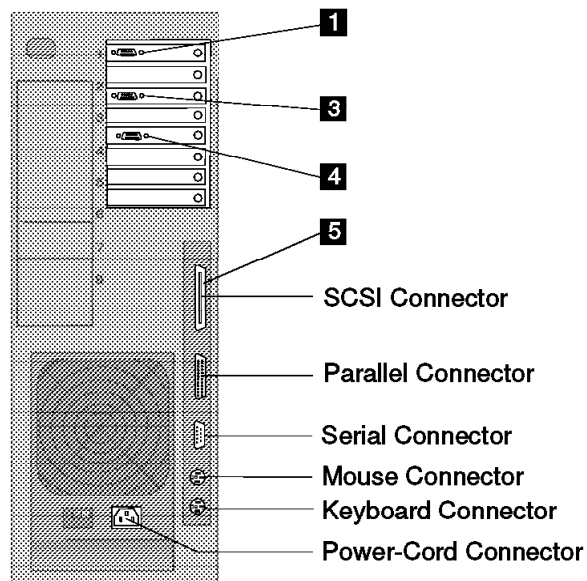


Figure 1. Power Cords Connection to the CD-ROM Drive.



- 5. Route and connect it to the ac outlet distribution box as shown in Figure 2. Secure these cables using tie clamps along the frame.

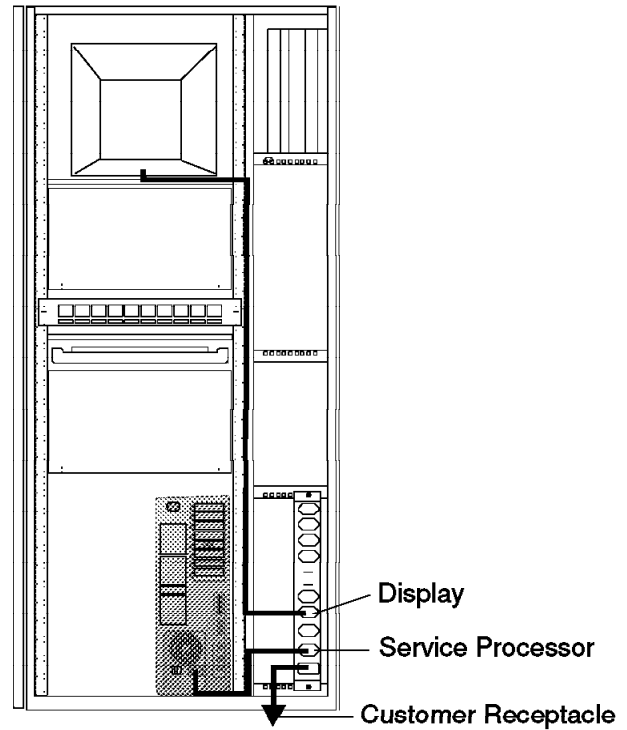


Figure 2. Power Cords Connection to an ac Outlet Distribution Box

10.4.2 Checking the SCSI Device Configuration

- ___ 1. Power **ON** CD-ROM Drive and then the Service Processor.
- ___ 2. When the following message appears on the display, press **Y** key.

```
00174. Device configuration now changed.
```

- ___ 3. Configuration is automatically updated. When the following message appears, press **ENTER** key.

```
The automatic configuration program is complete.

Press enter to restart the system.
```

- ___ 4. The system reboot. When the **F1**-prompt key appears on the screen, press the **F1** key.
- ___ 5. From the **Main Menu** window select the **Set Configuration** option, then the **View Configuration** option.
- ___ 6. When systems boots to the reference program, press the **Enter** key to select the keyboard type.
- ___ 7. Press **F8** key to page past the configuration error message.
- ___ 8. Press **N** when prompted for the auto-configuration of the system.
- ___ 9. When the **main menu** appears, select **Set Configuration** option.
- ___ 10. From the **Set Configuration** window select the **Set and View SCSI Configuration** option.
- ___ 11. Compare values with the following screen.

```
Set and View SCSI Device Configuration

SCSI Configuration Verification

IBM PS/2 System Board SCSI
  SCSI Address (ID)..... 7
  SCSI Device
    Device Type..... Hard Disk
    Device Address (ID, LUN)..... 6,0
    Device Size..... 1052MB
    Presence Error Reporting..... (ENABLED)

  SCSI Device
    Device Type..... ROM Device (Note)
    Device Address (ID, LUN)..... 4,0
    Presence Error Reporting..... (ENABLED)

  SCSI Device
    Device Type..... Optical Memory (Note)
    Device Address (ID, LUN)..... 5,0
    Presence Error Reporting..... (ENABLED)
```



Note: CD-ROM and optical disk drive may be present together but according to the code level they are mutually exclusive. Up to EC D46130 only optical disk is used. From EC F12380 only CD-ROM is used.

- ___ 12. Press **F3** key to exit the main menu, then press **Enter** key to confirm exit, the Service Processor will now re-boot.
- ___ 13. When re-boot complete, **Go to 11.0, "Test Procedures"** .

11.0 Test Procedures

No test required.

12.0 Field Updating

None.



After Installation (steps 13-15)

13.0 Publications Update

None.

14.0 Parts Disposition

See parts disposition on the Microcode Upgrade FBM or 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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