



IBM Network Printer 24 and 24PS Options Controller Installation

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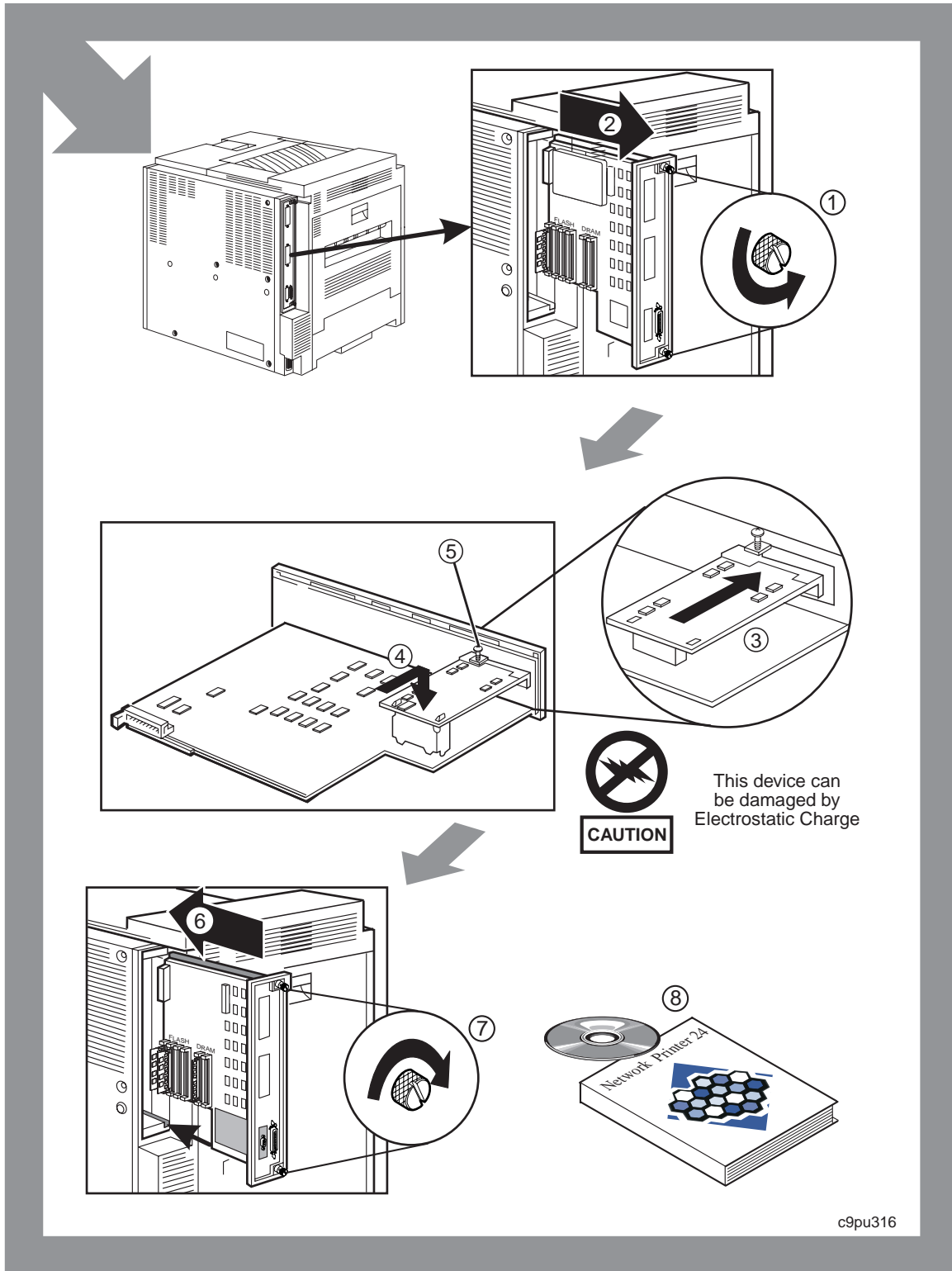
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Quick Start for Installing Options Controller

If you need further details, go to "Installing the Options Controller Card" on page 2



IBM Network Printer 24 and 24PS Options Controller

The enclosed Options Controller Card and CD ROM are intended for the IBM Network Printer 24 or IBM Network Printer 24PS.

Installing the Options Controller Card

1. Install the options controller card in the printer controller board as described in the *Network Printer 24 and 24PS User's Guide*, S544-5378.

Note: Detailed instructions are provided in the *User's Guide* for attaching the 2000-sheet input drawer and 2000-sheet finisher to the options controller card.

2. When you handle the options controller card and other computer components, take these precautions:
 - a. Limit your movement. Movement can cause static electricity to build up around you.
 - b. Always handle components carefully. Handle adapters and memory-module kits by the edges. Never touch any exposed circuitry.
 - c. When you are installing a new option, touch the static-protective package containing the option to the mounting bracket on the controller card for at least two seconds. This reduces static electricity from the package and from your body.
 - d. When possible, remove the option and install it directly in the controller without setting the option down. When this is not possible, place the static-protective package that the option came in on a smooth, level surface and place the option on it.
 - e. Do not place the option on the printer cover or other metal surface.
3. If you have difficulty installing the Options Controller Card, you may want to remove the plastic connector support on the Options Controller Card. After you remove the support, install the card, and then install the plastic support.
4. After the Options Controller Card is installed, verify that the card is installed correctly by printing a new Configuration Page. See step 5.
5. Print a Configuration Page (full details are in the *User's Guide*):
 - a. Make sure the printer is offline. If the printer is online, press the **Online** key to take it offline.
 - b. Press the **Menu** key once. TEST MENU appears in the message display area.
 - c. Press the **Item** key once. CONFIG PAGE appears in the message display area. Note that the menu name appears on the top line and the action item appears on the second line.
 - d. Press the **Enter** key to print the Configuration Page.
 - e. If you have installed other options, such as the 2000-Sheet Input Drawer (Tray-3), check the **Installed Options** section of the Configuration Page for the an option like Tray 3 or 3 Bin Finisher.

Note: If the printer controller microcode level is less than 2.34, then neither Tray 3 nor 3 Bin Finisher will be listed on the Configuration Page. You need to update printer Controller Microcode. After you update the printer Controller Microcode, you should print a Configuration Page and verify that an option like Tray 3 or 3 Bin Finisher is listed under **Installed Options**.

Determining If You Need to Update Microcode

It may be necessary to update microcode levels on the printer using the supplied CD-ROM. Follow these steps to determine if you need to update microcode:

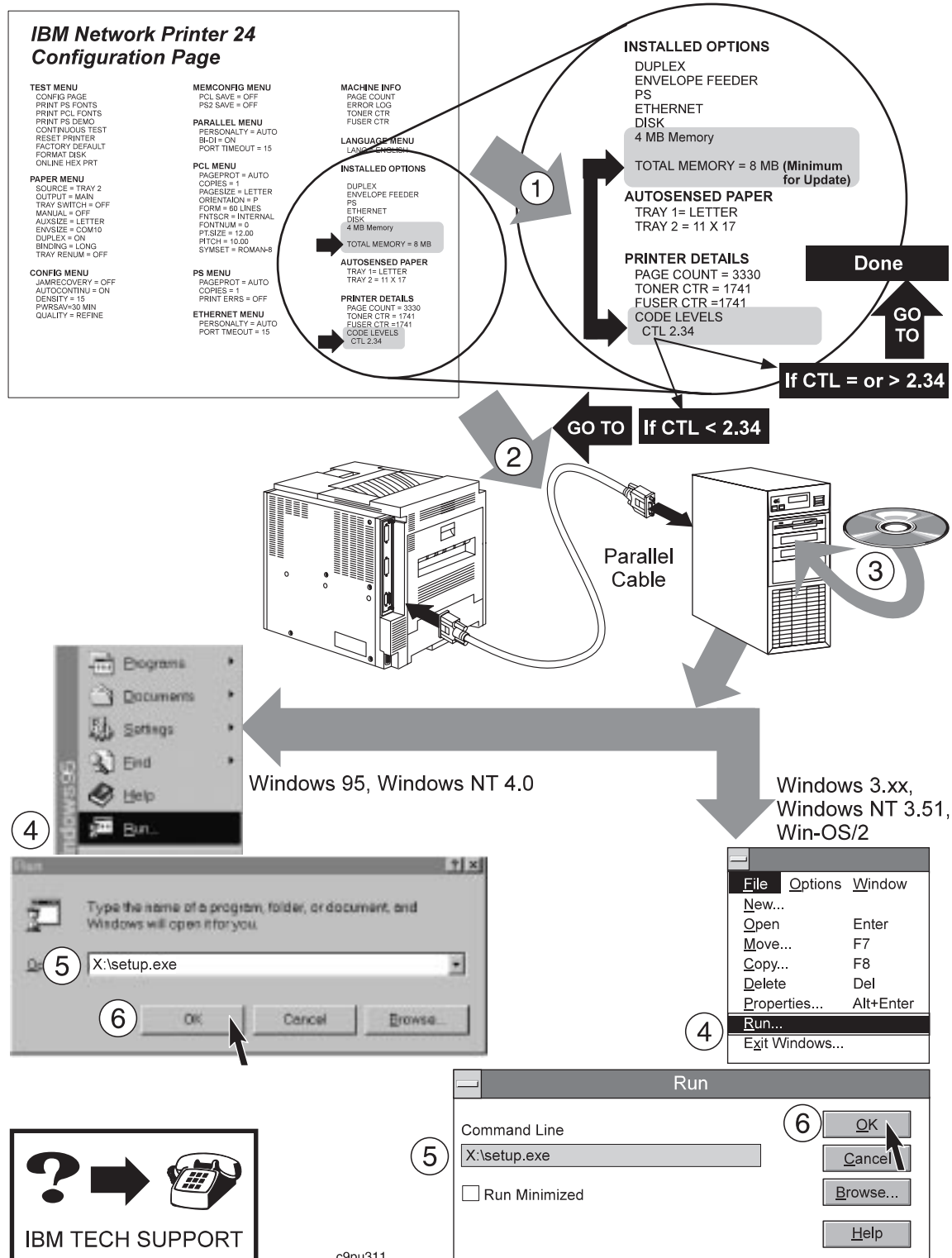
1. Review the Configuration Page, under **Printer Details**, to determine microcode levels for:
 - a. Controller (CTL) microcode
 - b. PostScript (PS) microcode, if feature is installed.
 - c. IPDS (IPDS) microcode, if feature is installed
 - d. Coax (CT) or Twinax (TA) microcode, if network card is installed
 - e. Network Interface Card Microcode (EN or TR), if network card is installed.
2. After you have identified the microcode levels, check the following table to determine what action, if any, you need to take:

Microcode Level	Action
If Controller Microcode (CTL) is less than 2.34	Update Controller Microcode. Go to "Updating Controller, IPDS, and PostScript Microcode" on page 5.
If Controller Microcode (CTL) is 2.34 or greater	No action required.
If PostScript Microcode (PS) is less than 1.12	Update PostScript Microcode. Go to "Updating Controller, IPDS, and PostScript Microcode" on page 5.
If PostScript Microcode (PS) is 1.12 or greater	No action required.
If IPDS Microcode (IPDS) is less than 1.19	Update IPDS Microcode. Go to "Updating Controller, IPDS, and PostScript Microcode" on page 5.
If IPDS Microcode (IPDS) is 1.19 or greater	No action required.
If Coax Microcode (CT) is less than 1.11	You need to obtain a new coax interface card. Contact IBM Support.
If Coax Microcode (CT) is 1.11 or greater	No action required.
If Twinax Microcode (TA) is less than 1.02	You need to obtain a new twinax interface card. Contact IBM Support.
If Twinax Microcode (TA) is 1.02 or greater	No action required.
If Network Interface Card Microcode (EN or TR) is less than 5.21	IBM recommends updating the Network Interface Card Microcode only if you are experiencing network print problems associated with the Network Interface Card. If you plan to update your Network Interface Card Microcode, go to "Updating Network Interface Card Microcode" on page 7.
If Network Interface Card Microcode (EN or TR) is 5.21 or greater	No action required.

Note: You can update microcode in any order. For instance, you can update Controller Microcode then PostScript Microcode.

Quick Start for Updating Printer Microcode

If you need further instructions, go to “Updating Controller, IPDS, and PostScript Microcode” on page 5.



Updating Controller, IPDS, and PostScript Microcode

The CD ROM that was shipped with the options controller card contains printer software and utilities. Follow these steps to update microcode, such as the printer Controller Microcode, IPDS Microcode, and PostScript Microcode.

Memory Requirements for Microcode Update(s)

To update microcode, your printer must have the following amounts of DRAM memory installed:

- To update Controller Microcode or PostScript Microcode, the printer must have 8MB of DRAM memory installed.
- To update IPDS Microcode, the printer must have 10MB of DRAM memory installed.

To update the microcode, follow these steps:

1. Locate the printer within 6 feet of a workstation (or laptop). The workstation must be able to run Windows (Windows 3.1, Windows 95, or Windows NT) or WIN-OS/2.

Note: The WIN-OS/2 session must be from OS/2 3.0 (WARP) or higher. To get the session, select the OS/2 System icon from the desktop, select the Command Prompts icon, and then select the WIN-OS/2 icon.

2. If the printer is already parallel-attached, skip to step 3.

Turn off the printer power and the workstation power. Attach the workstation to the printer using a 6-foot **parallel cable**.

Note: You must use the parallel connection to update microcode, you cannot update microcode over the LAN.

3. Turn on the workstation power.

4. Close any applications that are running.

5. Find the CD ROM that was shipped with this option.

6. Insert the CD ROM into your CD ROM drive.

7. For Windows 95 and Windows NT 4.0, select **Start**, then select **Run** and enter **x:\setup.exe** (x is the letter assigned to your CD ROM drive, which is often D or E). Select **OK** to start the program.

If you have your system set to autoplay a CD ROM, the program will start automatically once the CD ROM is inserted into the CD ROM drive.

8. For Windows 3.X, Windows NT 3.51, and WIN-OS/2 select **Run** from **File Menu**, then enter **x:\setup.exe** (x is the letter assigned to your CD ROM drive, which is often D or E). Select **OK** to start the program.

9. Select the tab labeled **Getting Started** and read the instructions provided, including the **READ.ME** file.

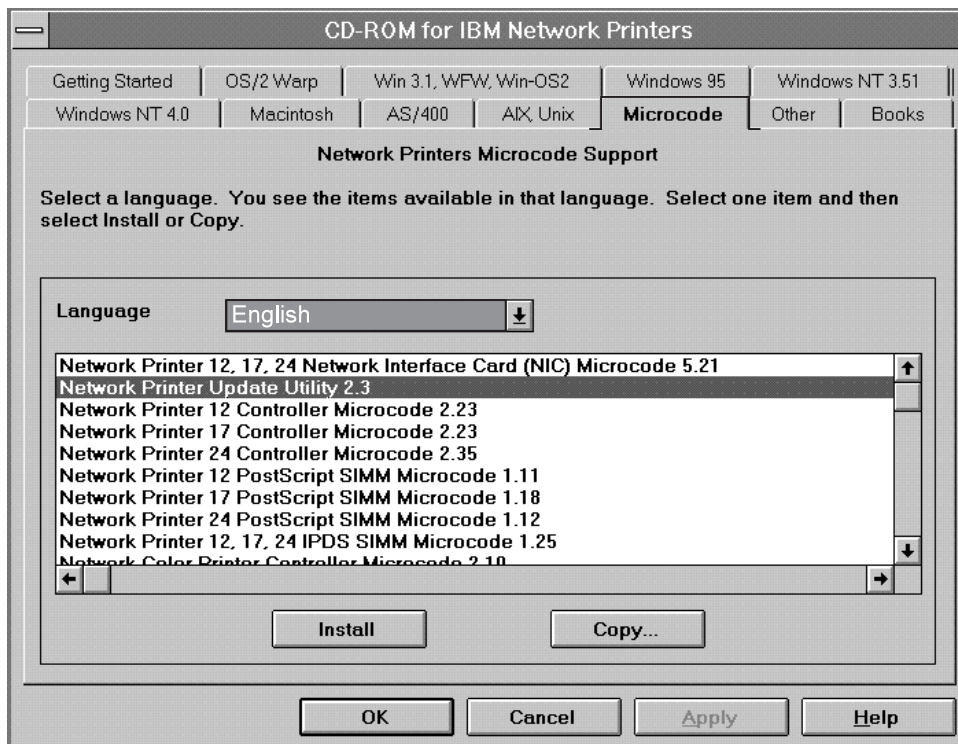
10. After reading the instructions, choose the **Microcode** tab.

11. From the list of software, select **Network Printer Update Utility**. The Network Printer Update Utility is needed to load microcode, such as the Network Printer 24 Controller Microcode, onto the printer through the parallel port.
 - a. If you previously installed the IBM Network Printer Update Utility, please remove the previous version before installing this version.
 - b. Make sure you have enough disk space for the Network Printer Update Utility and microcode.

Utility or Microcode	Fixed Disk Space
Network Printer Update Utility	Approximately 7MB
Controller Microcode	Approximately 4MB
IPDS Microcode	Approximately 4MB
PostScript Microcode	Approximately 4MB

After you update the microcode, you can remove the directory where you installed the IBM Network Printer Update Utility and the microcode.

12. Select **Install** and then follow the steps displayed on your screen. (Make a note of the directory where you installed the **Network Printer Update Utility** as you will want to copy microcode to that directory.)



13. Once you install the utility, you should have an icon called **IBM Network Printer Update Utility** as shown below:



14. After you have installed the **IBM Network Printer Update Utility**, from the CD ROM, under the **Microcode** tab, select **Network Printer 24 Controller Microcode**.
15. Select **Copy**. You may want to copy the microcode to the same directory where you installed the Network Printer Update Utility. Follow the instructions displayed on your screen.
16. After copying the microcode, select the **IBM Network Printer Update Utility** icon and follow the instructions displayed on your screen to load microcode in the printer.
17. If an error message is displayed, turn printer power off, then turn printer power back on. Print a configuration page and check, under **Printer Details**, to see if the microcode level was changed. If not, try starting the Network Printer Update Utility again to load microcode in the printer.

If you cannot solve the problem, contact Technical Support (in US and Canada: 1-800-358-6661) or your point of purchase.
18. If you need to install PostScript or IPDS microcode, repeat steps 13 through 16 and select either **Network Printer 24 PostScript SIMM Microcode** or **Network Printer 24 IPDS SIMM Microcode**.

Updating Network Interface Card Microcode

IBM recommends updating the Network Interface Card (NIC) microcode only if you are experiencing network print problems associated with the NIC. If you need to update the NIC microcode, **you must use TCP/IP to send the new microcode to the NIC.**

If you have Windows 95 or NT, IBM recommends that you use Network Printer Manager (NPM) to update the NIC microcode.

Note:

NPM is provided on the CD ROM:

- For the Windows 95 version, select the **Windows 95** tab.
- For the Windows NT version, select the appropriate **Windows NT** tab.

Instructions for updating microcode are provided in the NPM *READ.ME* file, which is in the **x:\npm\win\english\disk1** directory on the CD ROM. (Where x is your CD ROM drive letter.)

If you do not have Windows 95 or NT, you must log in to the NIC manually. For instructions on how to update the NIC microcode this way, refer to either the *NICREAD.TXT* file in the **x:\ucode\nic** directory on the CD. (Where x is your CD ROM drive letter.)

Instructions on updating NIC code are also provided in the *IBM Network Printers: Ethernet and Token-Ring Configuration Guide*, G544-5240.

Note:

The *IBM Network Printers: Ethernet and Token-Ring Configuration Guide* is provided on the CD ROM. To view the manual, select the **Books** tab, and then select **Ethernet and Token-Ring Configuration Guide**. You can view the manual directly from the CD ROM by selecting **View**.

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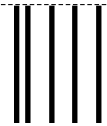
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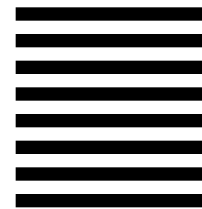
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