

# Axis NPS 530/532

## Quick Installation Guide

Ethernet Print Server for

- NetWare
- Windows
- OS/2
- Unix
- Macintosh

# Quick Installation Guide

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This guide covers the installation and basic configuration procedures for the NetWare, Windows, OS/2, Unix, and Macintosh environments. For advanced configuration and further customizing, please consult the NPS 530/532 User's Manual.

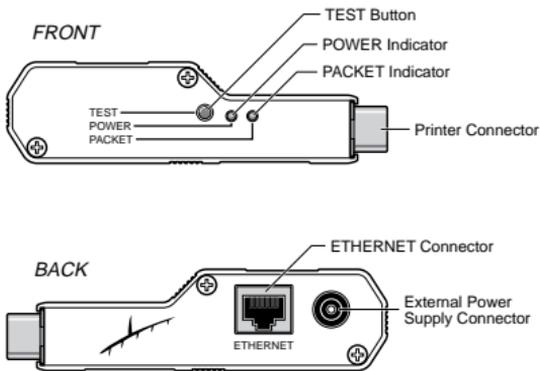
## What is on the disk?

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The disk contains installation, configuration and print utilities for the different printing environments. Installation instructions are given for each environment later in this guide.

## Installation

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*The illustration shows the NPS 530. The NPS 532 has a 10base2 BNC ethernet connector.*

1. Record your NPS 530/532 serial number (you will need it during the configuration).
2. Switch off the printer.
3. Attach your NPS 530/532 to the printer, either directly to the parallel port, or using the optional printer cable extension.
4. Connect your NPS 530/532 to the network using a twisted-pair/10baseT (NPS 530) or thin-wire/10base2 (NPS 532) Ethernet cable.
5. Switch on the printer.
6. Connect the external power supply.
7. To print the test page, press and hold the test button until the PACKET indicator starts to flash, then release the button.

# NetWare

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The procedure below applies to the NPS 530/532 Print Server Mode only and is recommended only if you have a small network with just a few file servers. If you prefer to use the Remote Printer Mode or if you have a larger network, see the NPS 530/532 User's Manual.

Setup and printing is done using the Novell PCONSOLE and CAPTURE applications respectively. If you need to configure your NPS 530/532 beyond the PCONSOLE capabilities, refer to the User's Manual.

## Add a Print Server:

1. Log in as *Supervisor* to a file server from a client work station.
2. Start PCONSOLE. Press <F4> for *Bindery Mode* if you are using NetWare version 4.xx
3. Select *Print Server Information* (NetWare 3.xx) or *Print Servers* (NetWare 4.xx).
4. Press <Insert> to add a new Print Server.
5. Type the print server name as **AXIS<nnnnnn>** (<nnnnnn> are the last six digits of your NPS 530/532 serial number). Press <Enter>.
6. Press <Escape> to return to PCONSOLE main menu.

Repeat this procedure for each file server using the NPS NPS 530/532.

## Link a Print Queue to the Print Server:

1. Select *Print Queue Information* (NetWare 3.xx) or *Print Queues* (NetWare 4.xx) from the PCONSOLE main menu. If you plan to use an existing queue, skip to step 4.
2. Press <Insert> to add a new print queue.
3. Type a queue name, and press <Enter>
4. Select the queue to be serviced by your NPS 530/532.
5. Select *Queue Servers* (NetWare 3.xx) or *Print Servers* (NetWare 4.xx) in the *Print Queue Information* menu.
6. Press <Insert> to display the Queue Server Candidates.
7. Select **AXIS<nnnnnn>**.
8. Press <Escape> to return to the main menu.

Restart your NPS 530/532 (power-off/power-on) to connect your print queues.

# Windows

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This section describes how to set up your NPS 530/532 for the Microsoft Windows printing environment.

The NPS 530/532 setup for Windows comprises installing the NPS 530/532 printer ports as Windows printer ports, and connecting the ports to a Windows printer driver.

Setup and printing is done using *Axis Print Utility for Windows*. To install: Insert the disk included with your delivery, and choose **Run: a:\axpuw\install.exe**.

If you need to configure your NPS 530/532, refer to the User's Manual.

## Peer-to-peer vs. Client-Server printing

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The procedures below set up your NPS 530/532 for peer-to-peer printing, which is the recommended method for smaller networks (no file server is required). For larger networks, or if central monitoring and priority management are required, you can set up your NPS 530/532 for client-server printing:

1. Install Axis Print Utility on the file server.
2. Set up your NPS 530/532 as described below, but check the *Share* box for your printer.

Your shared printers can now be used by all Windows clients on your network.

## Windows 3.1

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Windows 3.1 requires that network support such as *LAN Server* or *LAN Manager Workstation* software is installed. If you have that, proceed as described under *Windows for Workgroups* below, otherwise we strongly recommend upgrading to Windows for Workgroups.

## Windows for Workgroups

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Follow these steps to install an NPS 530/532 printer port as a Windows port, and to connect a printer driver:

1. Double-click the *Axis Print Utility*.
2. In the *Port* menu, click **Add**.
3. In the *NPS Port* list, select the NPS 530/532 port you want to install.

The port appears as <name>.LP1, where <name> is the NPS 530/532 print server name (AXIS... is abbreviated to AX...).

4. Accept or change the suggested *Windows port* name, and type any comments in the *Description* field. Make a note of the Windows port name (you will need it later), then click **OK** to install the Windows port.
5. In the *Port* menu, click **Connect** to bring up the Windows *Printers* dialog.
6. Select a printer driver from the list of *Installed Printers* (or click **Add>>** to install a new driver), then click **Connect...**
7. Select the *Windows port* from step 4 (at the bottom of the *Ports* list), then click **OK**.
8. Click **OK** to close the *Connect* dialog, and **Close** to close *Printers*.

**Important:** Axis Print Utility must be running when you print through your NPS 530/532. We strongly recommend that you copy the Axis Print Utility icon into your Startup folder.

## Windows 95

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Follow these steps to install an NPS 530/532 printer port as a Windows port, and to connect a printer driver:

1. Double-click the *Axis Print Utility*.
2. In the *Port* menu, click **Add**.
3. In the *NPS Port* list, select the NPS 530/532 port you want to install.  
The port appears as <name>.LP1, where <name> is the NPS 530/532 print server name (AXIS... is abbreviated to AX...).
4. Accept or change the suggested *Windows port* name, and type any comments in the *Description* field. Make a note of the Windows port name (you will need it later), then click **OK** to install the Windows port.
5. In the *Port* menu, click **Connect** to bring up the *Printers* folder.
6. Double-click the *Add Printer* icon. The *Add Printer Wizard* will guide you through the installation. Click **Next** to proceed.
7. Choose **Local Printer**, then click **Next**.
8. Choose *Manufacturer* and *Printer*, then click **Next**.
9. Select the *Windows port* from step 4, then click **Next**.
10. Accept or change the suggested *Printer name*, then click **Next**.
11. Click **Finish** to complete the installation.

**Important:** Axis Print Utility must be running when you print through your NPS 530/532. We strongly recommend that you copy the Axis Print Utility icon into your Startup folder.

## Windows NT

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Follow these steps to install an NPS 530/532 printer port as a Windows port, and to connect a printer driver:

1. Double-click the *Axis Print Utility*.
2. In the *Port* menu, click **Add**.
3. In the *NPS Port* list, select the NPS 530/532 port you want to install.  
The port appears as <name>.LP1, where <name> is the NPS 530/532 print server name (AXIS... is abbreviated to AX...).
4. Accept or change the suggested *Windows port* name, and type any comments in the *Description* field. Make a note of the Windows port name (you will need it later), then click **OK** to install the Windows port.
5. In the *Port* menu, click **Connect** to bring up *Print Manager*.
6. In the Printer menu, click **Create Printer**.
7. Type a name in the *Printer Name* field, select a suitable printer driver from the *Driver* list, and select **Other...** in the *Print to* list.
8. In the *Print Destinations* dialog, select **Local Port**, then click **OK**.
9. In the Port Name field, type: C:\~\<port>  
where C:\~ is your spool directory, and <port> is the Windows port name from step 4. Click **OK**.
10. **Close** the *Print Manager*.

**Important:** Axis Print Utility must be running when you print through your NPS 530/532. We strongly recommend that you copy the Axis Print Utility icon into your Startup folder.

The NetBEUI protocol must be active. If not, use MPTN/LAPS (LAN Server) or SETUP (LAN Manager) to activate it.

## **Install the Axis Print Utility and your NPS 530/532:**

1. Install the Axis Print Utility for OS/2: Insert the disk included with your delivery, and execute **a:\axpu\install.exe**.
2. When Axis Print Utility is running, click **Install** to install your NPS 530/532. It will then appear in the print server list as **AX<nnnnnn>.LP1** (<nnnnnn> are the last six digits of your NPS 530/532 serial number).
3. Select the print servers you want to install by clicking the corresponding entries in the list, then click **Install**.

Repeat this procedure for each server using the NPS 530/532.

**Important:** Axis Print Utility must be running when you print through your NPS 530/532.

## **Create a Print Queue (OS/2 version 1.x):**

1. Double-click the *Print Manager* icon, click **Setup**, then select *Printers...*
2. Click **Add** to make a new printer definition, then type a name of your choice in the *Name* field.
3. Select **\PIPE\AX<nnnnnn>.LP1** from the *Device* list, and select a printer driver suitable for your printer.
4. Click **Add**, then click **OK** to confirm the printer definition.
5. Click **Setup**, then select **Queues...**
6. Click **Add** to create a print queue, and type a name in the *Name* field.
7. Click **Add**, then click **OK** to confirm the queue definition.

## **Create a Print Queue (OS/2 version 2.x):**

1. Double-click the *Templates* folder, then drag the *Printer* icon out to the *Workplace Shell* (or into a folder) while holding the right mouse button down.
2. Type a name of your choice in the *Name* field.
3. Select **\PIPE\AX<nnnnnn>.LP1** from the *Port* list, and select a printer driver suitable for your printer from the *Standard printer* list.
4. Click **OK** to confirm the printer definition.

## Print queue sharing:

A print queue must be made a shared resource before it can be accessed from other computers (clients or other servers). Open an OS/2 window and issue the following command:

```
NET SHARE queue_name /PRINT
```

*Queue\_name* is the queue created above.

# Protocol Upgrades

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## Unix & Macintosh

Software keys for upgrading to Unix and Macintosh are available separately from your dealer. You must specify your NPS 530/532 serial number when ordering upgrades.

### Upgrading procedures:

The software keys are entered as NPS 530/532 parameter values, one for Unix, and one for Macintosh. These parameters are accessed through FTP file transfer in a Unix environment, and through AXCFG in a NetWare, Windows or OS/2 environment. See the NPS 530/532 User's Manual for further information.

## Macintosh

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Open the *Chooser* window by selecting *Chooser* in the *Apple* menu. Follow these steps to choose a printer:

1. Click the *LaserWriter* (or *LaserWriter8.0*) icon.
2. If your network has more than one zone, click the name of the default zone.

Click the name of the printer you want. The default NPS 530/532 printer name is **AXIS<nnnnnn>** (<nnnnnn> is the last six digits of the NPS 530/532 serial number).

3. For LaserWriter 8.0 printer driver only: Click **Setup...**, and then **Select PPD...** If the Select PPD... button is not available, click **More Choices**. Select a PPD file matching your printer, then click **OK**. Click **OK** again to confirm.
4. Click the *close* box. This completes the configuration and closes the Chooser.

Repeat this procedure for each Macintosh using the NPS 530/532.

# Unix

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You will need *root* privileges for the configuration.

1. Find an unused Internet address (IP address) and choose a unique host name for your NPS 530/532.
2. Add the NPS 530/532 IP address and host name to your system host table by appending the following line to the */etc/hosts* file:

```
<IP address>          <host name>
```

*Example: (Use the IP address and host name from step 1.)*

```
192.36.253.96         salesdept
```

3. Update your alias name data bases (YP/NIS).

*Example: (The commands may be different on your system.)*

```
> cd /var/yp
> make
```

4. Send the IP address to the print server. The node address is your NPS 530/532 serial number divided into six groups of two digits each, using ':' to separate the groups. (See the example below.)

```
arp -s <host name> <node address> temp
ping <host name>
```

*Example: (Use the host name from step 1.)*

```
arp -s salesdept 00:40:8c:11:00:86 temp
ping salesdept
```

*Note:* The arp command syntax may differ between Unix systems. You may also use *rarp* or *bootp* to set the IP address, see the User's Manual.

5. Log in to the NPS 530/532 and up-load the *axinstall* script:

```
> ftp <host name>
Name (salesdept:thomas): root
Password: pass      (not visible)
ftp> get axinstall
ftp> bye
```

*Example: (Use the host name from step 1.)*

```
ftp salesdept
```

6. Execute the script:

```
> sh axinstall
```

The directions on the screen will guide you through the installation of LPD, FTP or PROS on your Unix system.

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