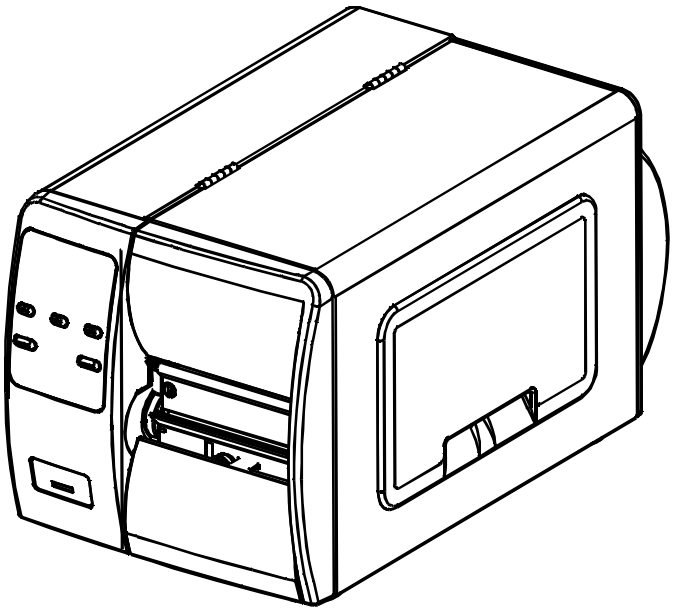
M CLASS™

Internal Ethernet Print Server Option

Installation Instructions



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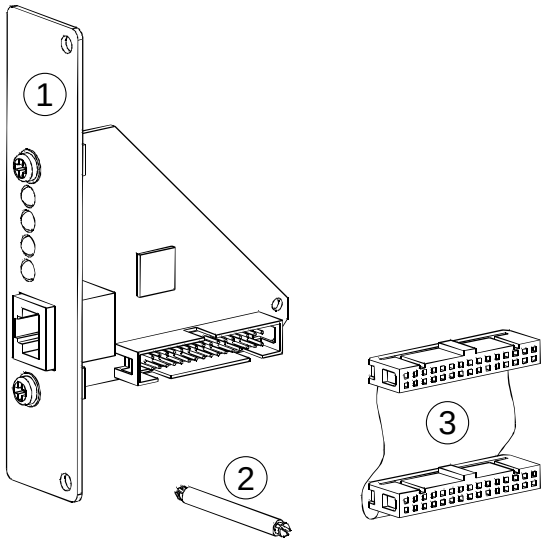
Contents of the Internal Ethernet Print Server Kit (DPO78-2538-01)

This kit contains the following items:

① Internal Ethernet Print Server PCB, P/N 51-2361-00

② Standoff, P/N 17-3047-01

③ Ribbon Cable, P/N 32-2546-01



Follow the steps listed below to install this option.

☞**Note:** Only qualified service personnel should install this Option.

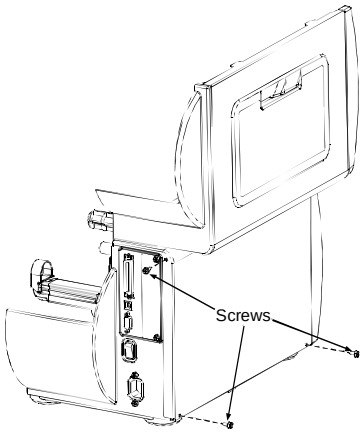
Tools Required

To install this option you will need a #2 Phillips head screwdriver.

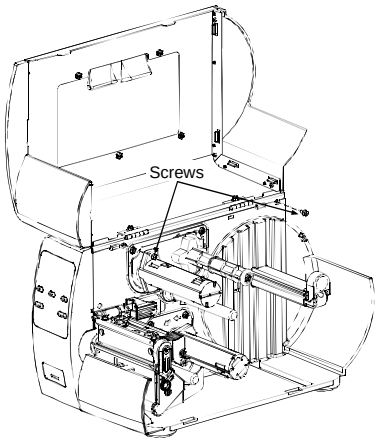
Preparing the Printer

Metal Cover Removal:

1. Turn 'Off' the power switch and unplug the printer.
2. Open the cover. Remove any installed media/ribbon from the printer.
3. Remove the single Screw on the rear of the printer and remove the two Screws securing the side cover.



4. Open the cover, remove the two Screws from the inside of the printer as shown.



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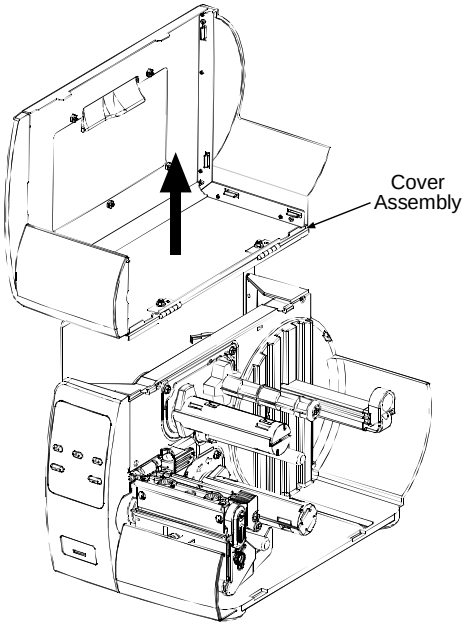
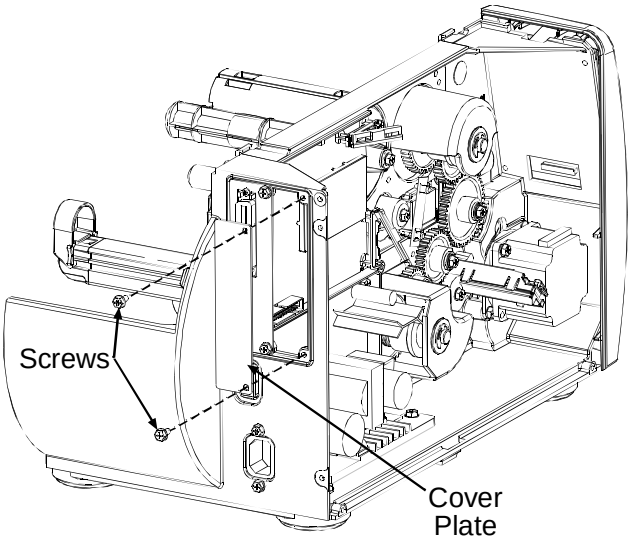
5. Lift the cover up and off the printer.

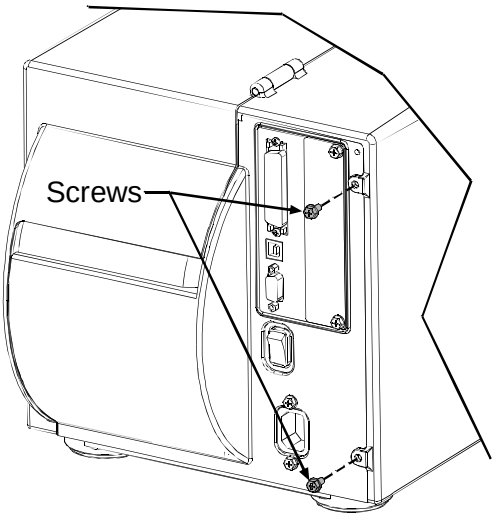


6. Remove the two Screws and the Cover Plate from the rear of the printer.



Plastic Cover Removal:

1. On the rear of the printer, remove the two Screws securing the cover.



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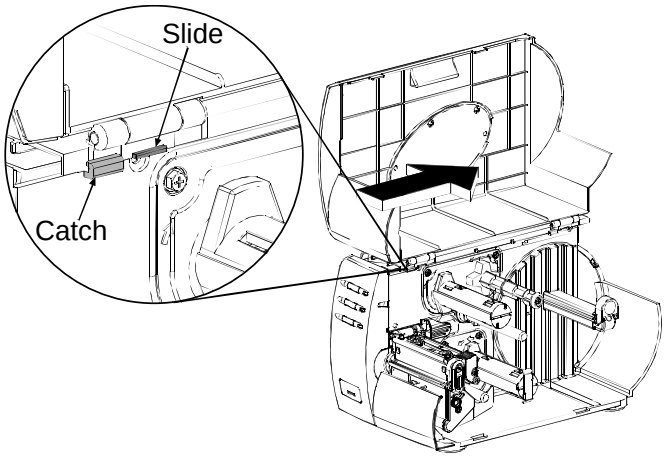
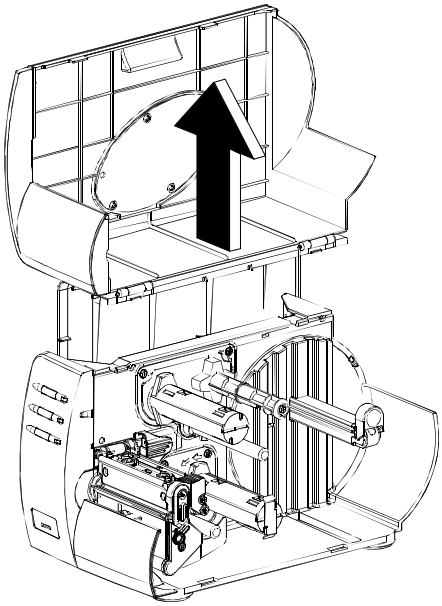
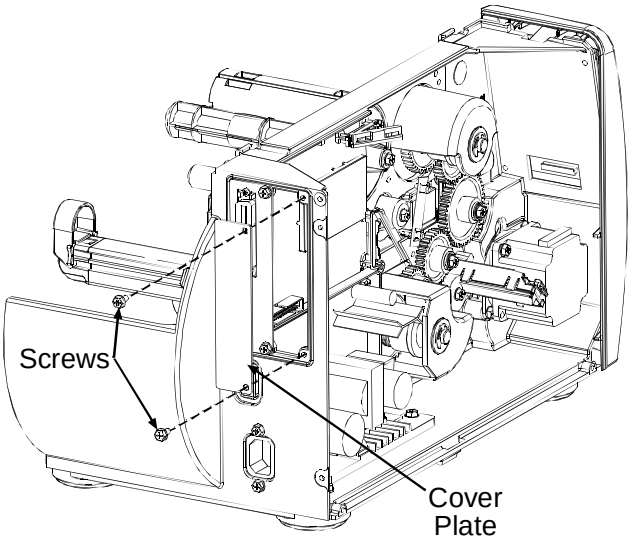
2. Open the cover, slide the cover to the rear of the printer as shown. Be sure the Slide on the cover is clear of the Catch on the frame of the printer.



3. Lift the cover up and off the printer.



4. Remove the two Screws and the Cover Plate from the rear of the printer.



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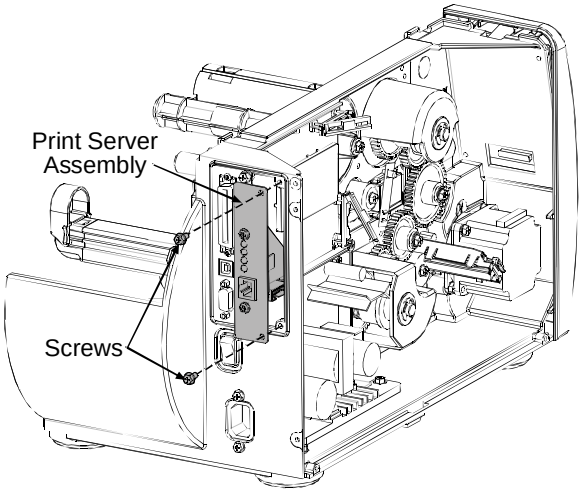
Installing the Internal Ethernet Print Server Assembly

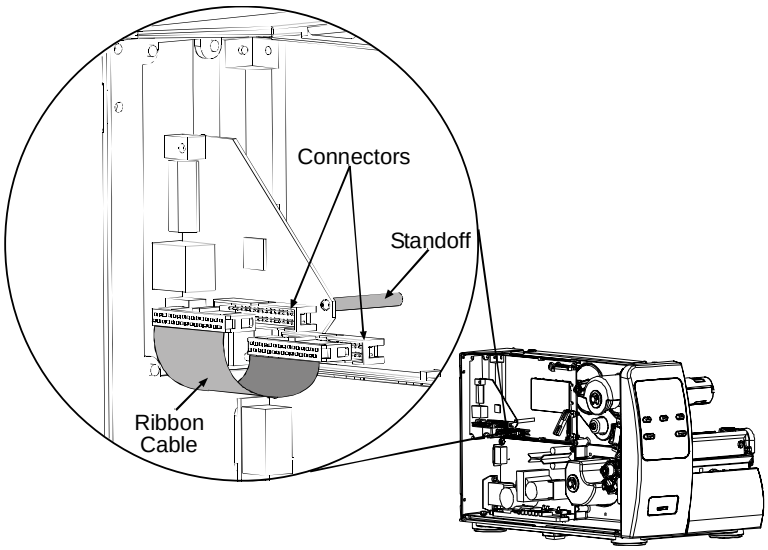
1. Slide the Print Server Assembly into the rear of the printer and secure with the two previously removed screws.



2. Install each end of the supplied Ribbon Cable into its corresponding connectors on the printer's main board and Print Server Assembly.

3. Insert the Standoff into the holes in the printer's main board and Print Server Assembly.

4. Re-install the printer's covers and associated screws.



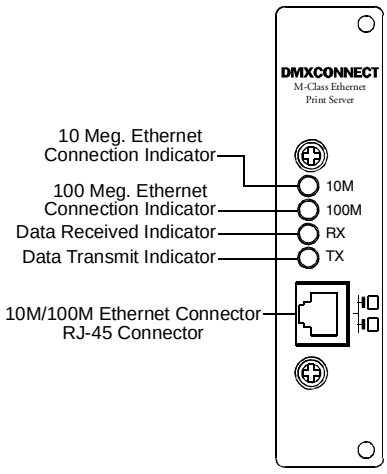
Indicators and Connector

10M Indicates a valid 10-megabit Ethernet connection is present when lit.

100M Indicates a valid 100-megabit Ethernet connection is present when lit.

RX Flashes when data is being received by the printserver.

TX Flashes when data is being transmitted by the printserver.



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The Internal Ethernet Print Server can be configured in one of two ways:

> Using 'IP Discovery' (*DHCP, BootP, and RARP*)
or
> Using a static IP set using the printer's front panel.

☑ ***Note:*** The factory default has IP Discovery 'Enabled'. If you do not wish to use the IP Discovery function be sure to set it to 'Disable' using the printers front panel before connecting and powering on the printer.

Configuration Using IP Discovery (DHCP, BootP, and RARP)

☑ ***Note:*** After approximately 3 minutes the printer will display "IP DISCOVER FAILED" if it was unable to find a DHCP server. This message does not effect the operation of the printer and can be cleared from the display by pressing the FEED button.

Once the Ethernet Print Sever has been installed and connected, plug in the power cord and Ethernet cable then turn the printer's power switch 'On'.

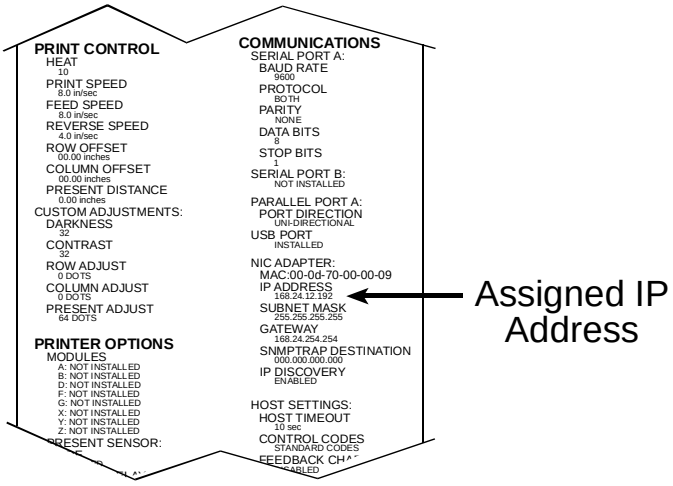
DHCP, BootP, and RARP are server services that provide a method for assigning and maintaining IP addresses. The Print Server obtains IP information from these services.

The factory default has IP Discovery enabled. This enables all three (DHCP, BootP, and RARP) server services, they are not individually selectable. The Print Server makes IP requests at power-up. If using this method of discovery, after the connection is established print a Configuration Label (see below) from the printer to obtain the IP Address and then use it to install your printer port and driver to complete your setup.

☑ ***Note:*** *Depending upon your server, you may have to wait a minute or two for the assigned IP Address to appear on the Configuration Label.*

To print a configuration label:

With the printer on, loaded with media (at least 4 inches wide) and ribbon (if printing with thermal transfer media). Press the **TEST** button once, then use the FWD button scroll to 'PRINT CONFIGURATION' and press the **TEST** button again to print.



Once you have obtained the assigned IP from the configuration label you can then install the port and printer driver using the Windows® 'Add a Printer Wizard'. See section, *Installing the Printer Driver and Port* in this document.

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Configuration Using a Static IP Address

Once the Ethernet Print Sever has been installed, plug in the power cord, but <u>do not</u> connect the Ethernet cable, then turn the printer's power switch 'On'.

1. Verify the printer is in the 'Ready Mode'	WED 10:16A 02JUL2003 READY
2. Press the MENU button to enter the printer's menu.	MENU MODE MEDIA SETTINGS
3. Using the FWD button scroll to 'COMMUNICATIONS' and press the ENT button.	MENU MODE COMMUNICATIONS
4. Using the FWD button scroll to 'NIC ADAPTER' and press the ENT button.	COMMUNICATIONS NIC ADAPTER
5. Using the FWD button scroll to 'IP DISCOVERY' and press the ENT button.	NIC ADAPTER IP DISCOVERY
6. Using the FWD button scroll to 'DISABLED' and press the ENT button.	IP DISCOVERY *DISABLED
7. Press the ESC button once to return to the 'NIC ADAPTER' menu level. Then use the FWD button scroll to 'IP ADDRESS' and press the ENT button.	NIC ADAPTER IP ADDRESS
8. Use the FWD and REV buttons to increment/decremnt the flashing value. Press the ENT button to move to the next field. Once all fields are correct press the ESC button once. The value will automatically be saved. You can then use the FWD to scroll to the 'SUBNET MASK and 'GATEWAY' menu items and set those values in the same manner as the 'IP ADDRESS' was set.	IP ADDRESS *192.000.000.192 SUBNET MASK *000.000.000.000 GATEWAY *000.000.000.000

☑ **Note:** *When the menu item 'IP DISCOVERY' is set to enabled you will not be able to change the values for the "IP ADDRESS', 'SUBNET MASK', or 'GATEWAY' menu items. The values displayed are for reference only and will become active once 'IP DISCOVERY' set to disabled.*

9. Once you have the proper addresses set, press the ESC button repeatily until you have exited the printer's menu. Turn OFF the printer and then back ON.	WED 10:16A 02JUL2003 READY

Once you have entered your IP settings into the printer you can then install the port and printer driver using the Windows® 'Add a Printer Wizard'. See section, *Installing the Printer Driver and Port* in this document.

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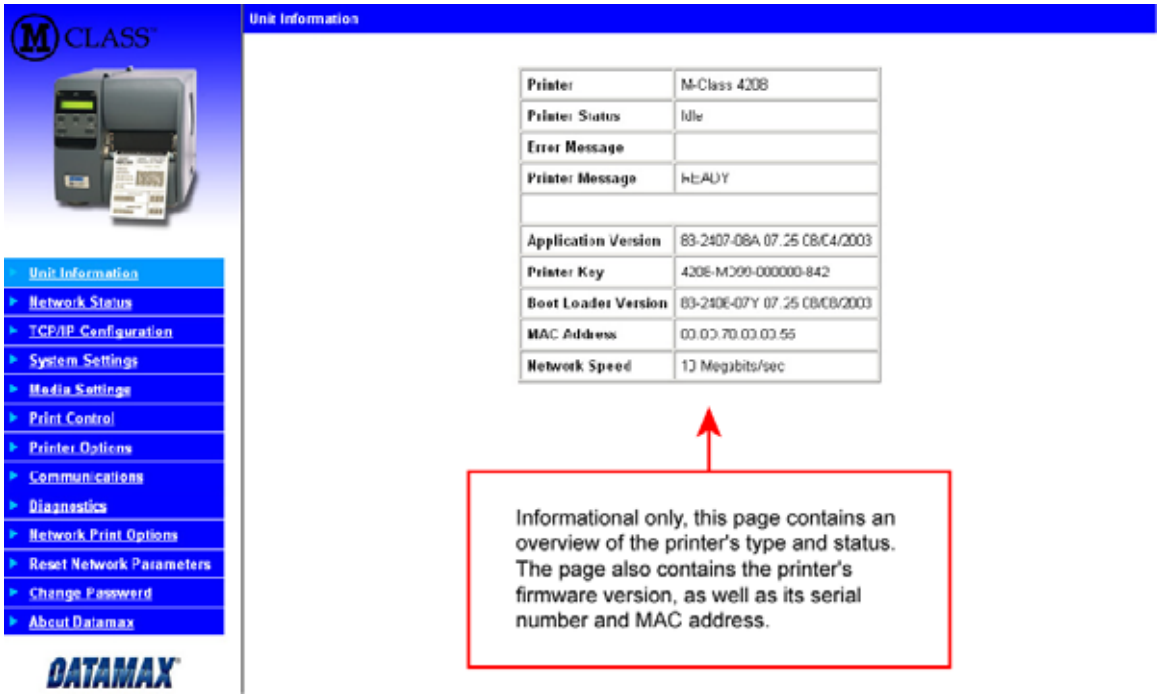
The printer has resident HTML (Web) pages that allow configuration of network and printer settings as well as performing status queries and diagnostic tests. To configure the Print Server and other internal printer settings you can access the printer via HTML pages using any Web browser.

1. In your Web browser, choose **File -> Open**.

2. Enter the IP address of the Print Server and press Enter. (The default IP Address is: 192.0.0.192)

> ☑ ***Note:*** Consult with your system administrator for all necessary address, printer, and protocol information. To change these settings you will be asked for an authentication password. Type `sysadm` and click "Apply".

Next you should see the Print Server's **Unit Information** page:



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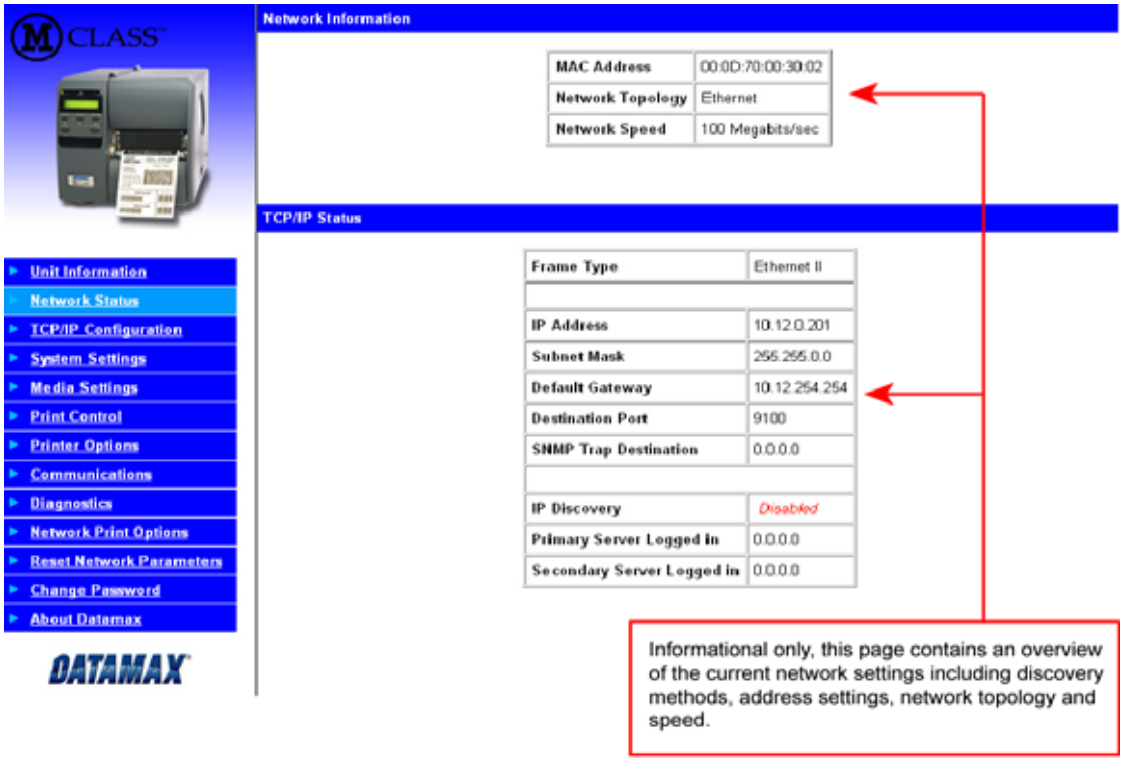
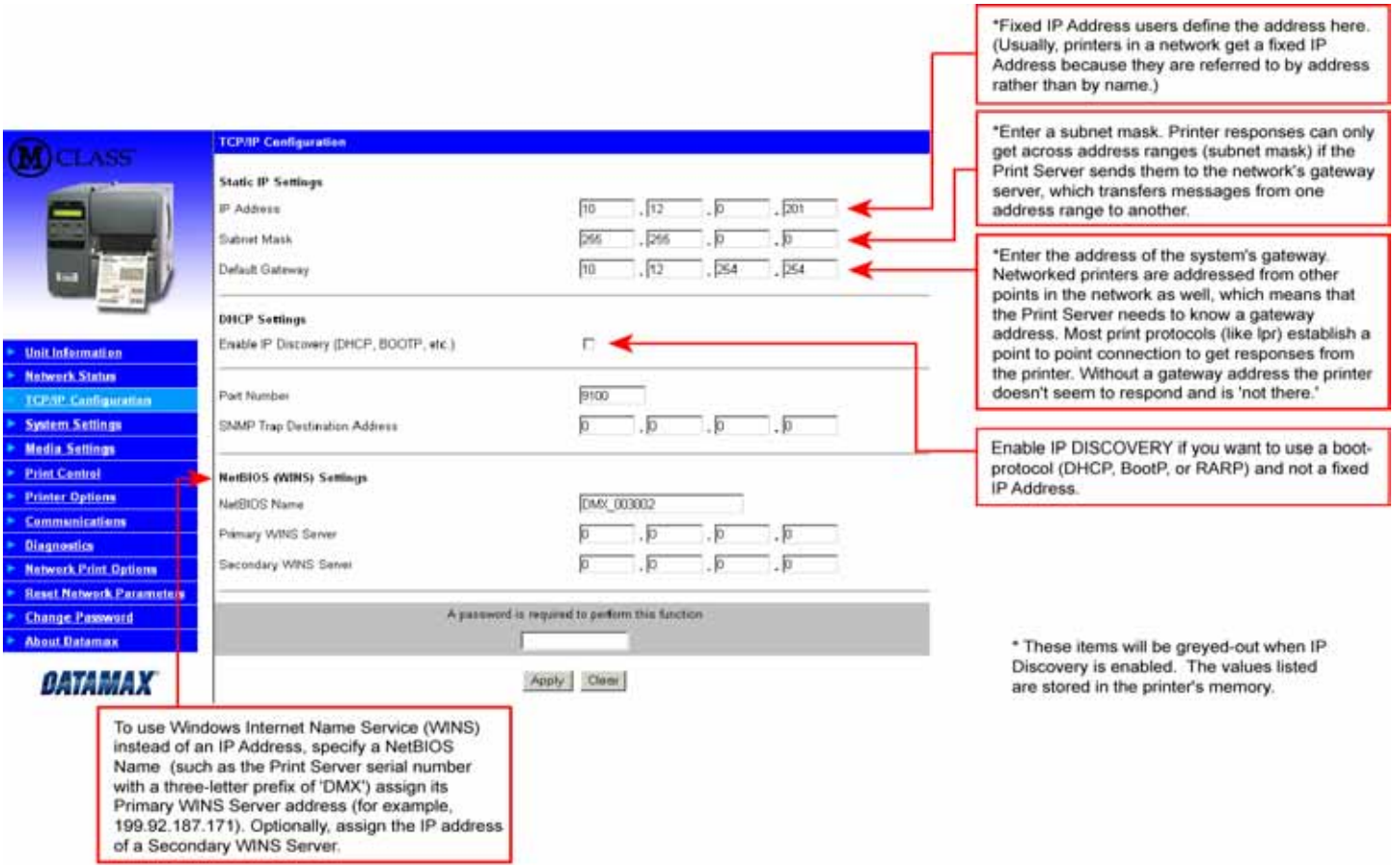
Network Status



TCP/IP Configuration



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System Settings, Media Settings, and Print Control

Many of the printer's internal menu settings can be controlled from the following next six screens. This allows the user to adjust many of the printer's settings remotely without using the printer's front panel. For more information on the function of these settings see the M-Class Operator's Manual.

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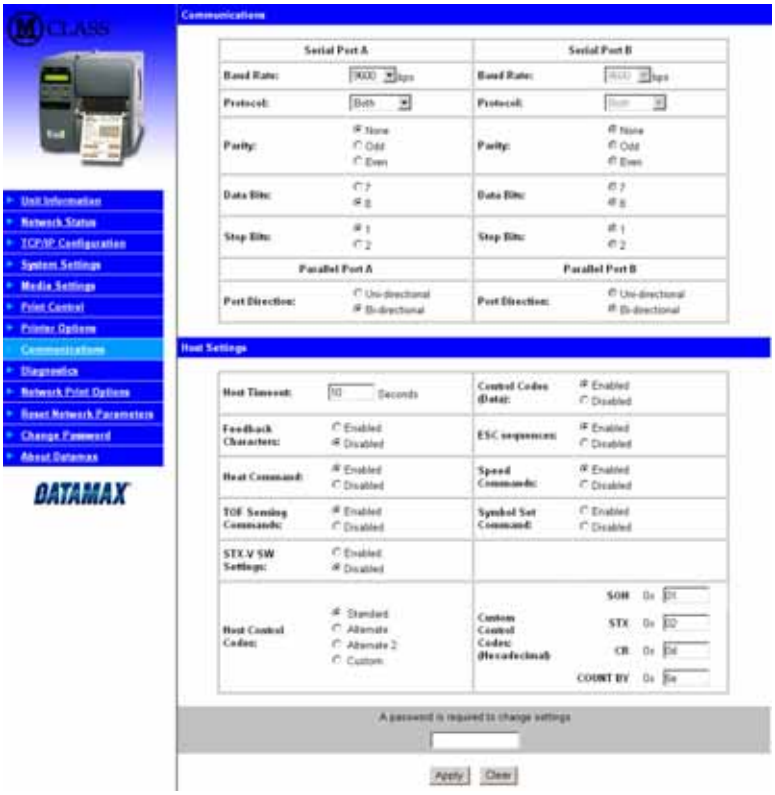
Printer Options, Communications, and Diagnostics



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Network Print Options

Reset Network Parameters

Change Password

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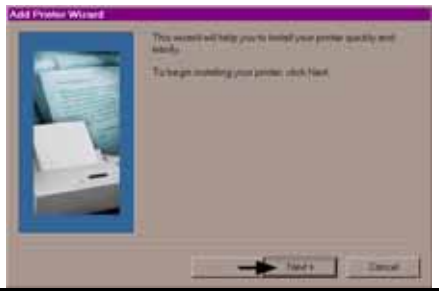
Windows 95/98 Driver and Port Installation

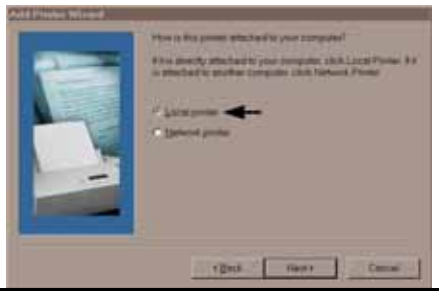
1

Start the Windows "Add Printer Wizzard". The following screen should appear, click 'Next>'.



2

Make sure that 'Local Printer' is selected and then click 'Next'.

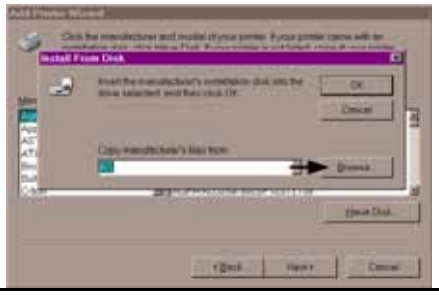


3

Click on 'Have Disk'.

4

Insert the Accessories CD-Rom and click 'Browse'.

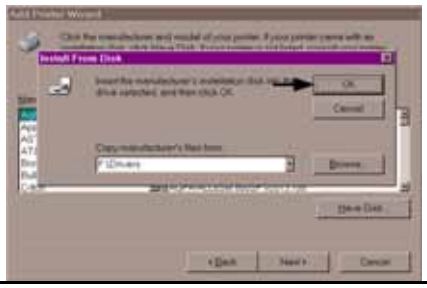


5

Browse to the "\DRIVERS\Seagull" folder on the CD-ROM, make sure the file "Datamax for 95, 98, me, 2000, and xp.inf" is selected and click 'OK'.

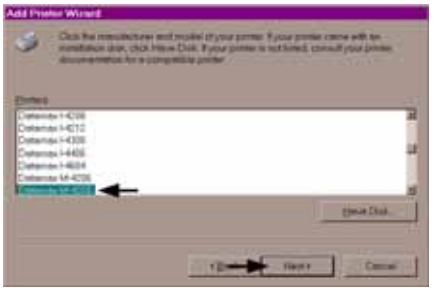
6

Click 'OK'.



7

Select the 'M-4208' printer from the list and then click 'Next'.

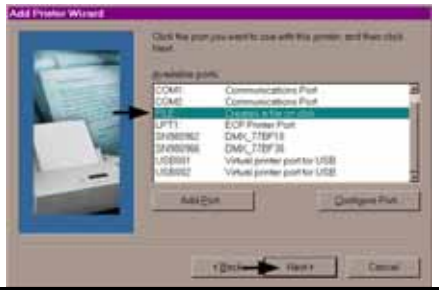


8

Your computer will now copy the necessary files from the CD-ROM.

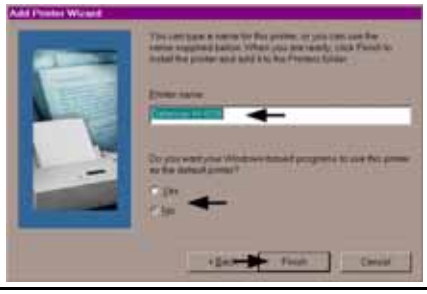
9

When prompted to choose a port, select 'FILE' for now and click 'Next'. *You will set up the network port from the printer properties later.*



10

Name your printer in the 'Printer name:' field. Next select whether or not to set this printer as your default printer. Then Click 'Finish'.



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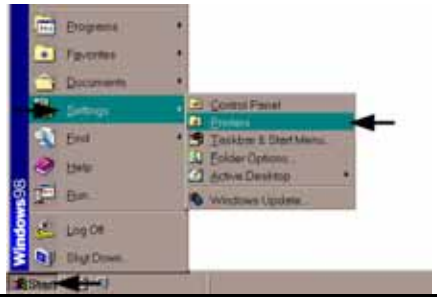
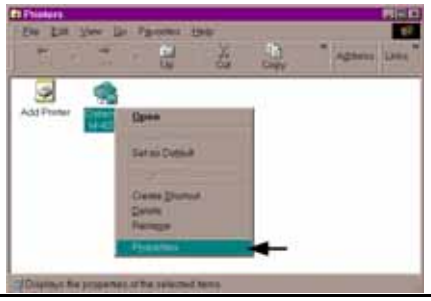
11

From the Windows desktop click ‘Start’ / ‘Settings’ / ‘Printers’.



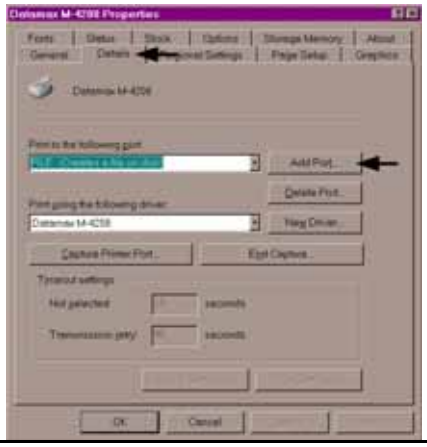
12

Once the Printers window opens, right-click on the printer icon and select ‘Properties’ from the drop down menu.



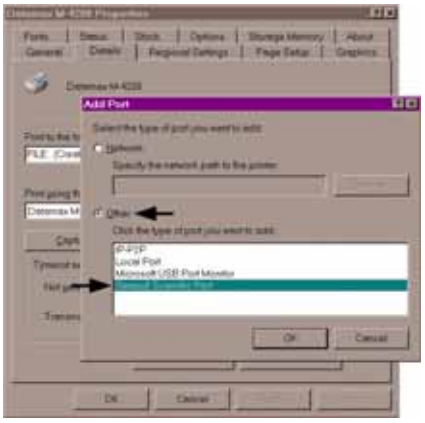
13

Click on the ‘Details’ tab and then click ‘Add Port’.



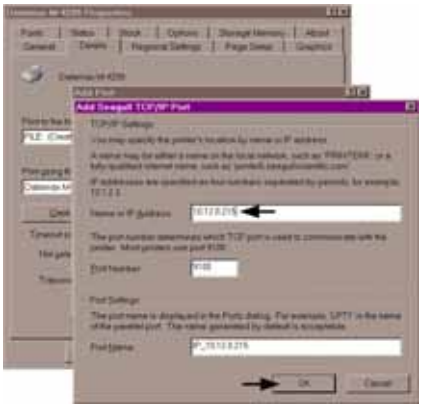
14

In the ‘Add Port’ window, Select ‘Other’ and “Seagull Scientific Port” and then click ‘OK’.



15

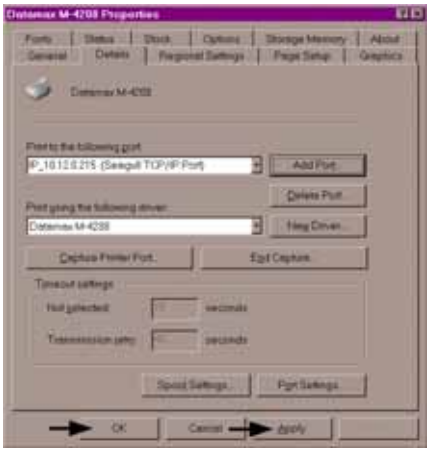
In the ‘Name or IP Address:’ field enter the IP address of your printer. The ‘Port Number’ and ‘Port Name’ fields <u>do not</u> need to be changed. When finished click “OK’



16

Click ‘Apply’ and then click ‘OK’.

The driver and port installation is now complete. The printer can be selected through any Window’s application.



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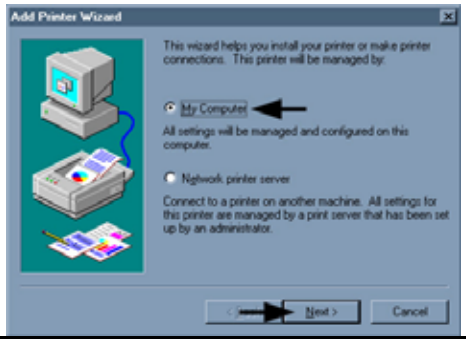
Windows NT 4.0 Driver and Port Installation

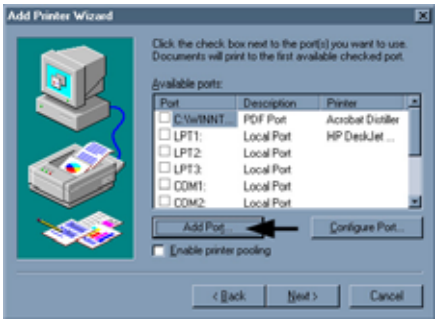
1

Start the Windows "Add Printer Wizzard". Make sure that 'My Computer' is selected and then click 'Next'.



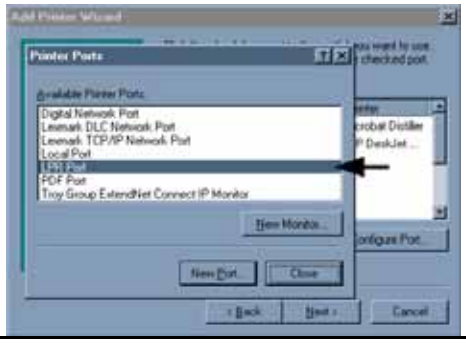
2

Click 'Add Port'.



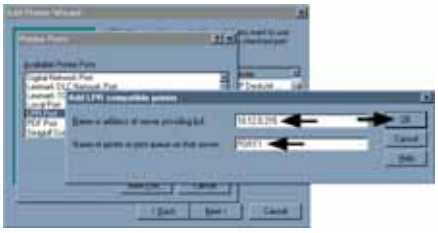
3

Double-click 'LPR Port'.



4

In the top field enter the IP address of your printer. In the bottom field enter PORT1. When finished click "OK'.

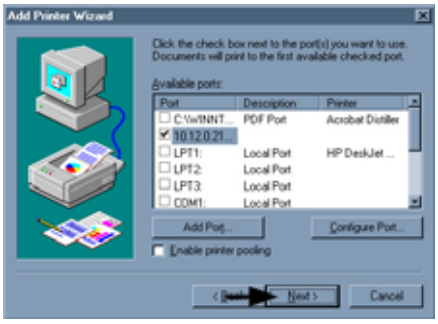


5

Click 'Close'

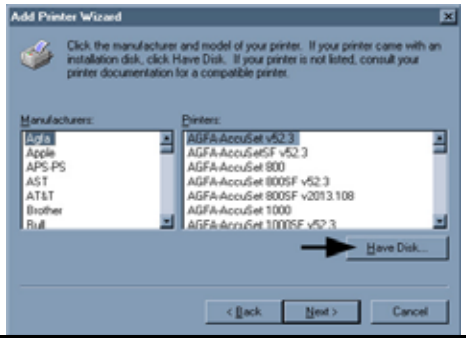
6

Click 'Next'.



7

Click on 'Have Disk'.

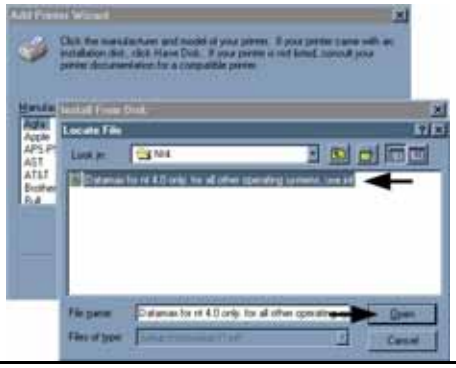


8

Insert the Accessories CD-Rom and click 'Browse'.

9

Browse to the "\DRIVERS\Seagull\Nt 4\" folder on the CD-ROM, make sure the file "Datamax for nt 4.0 only…" is selected and click 'Open'.



10

Click 'OK'.

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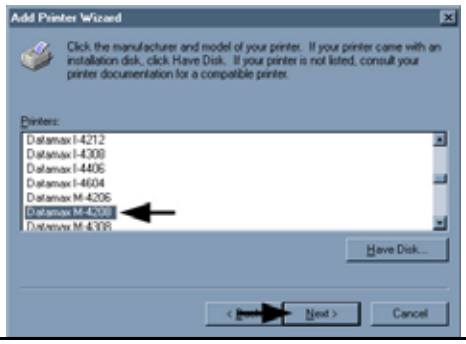
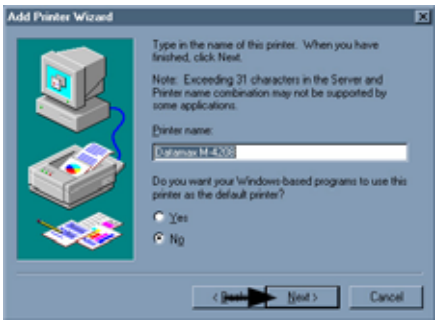
11

Select the ‘M-4208’ printer from the list and then click ‘Next’.



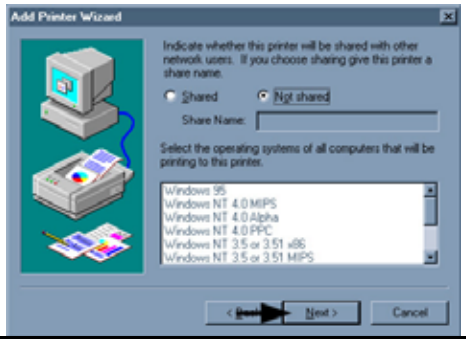
12

Name your printer in the ‘Printer name:’ field. Next select whether or not to set this printer as your default printer. Then Click ‘Next’.



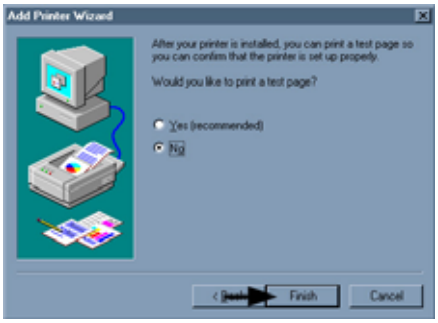
13

Select whether or not to share this printer on your network. Then Click ‘Next’.



14

Select ‘No’ then Click ‘Finish’.



15

Your computer will now copy the necessary files from the CD-ROM.

The driver and port installation is now complete. The printer can be selected through any Window’s application.

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Windows 2000 Driver and Port Installation

1

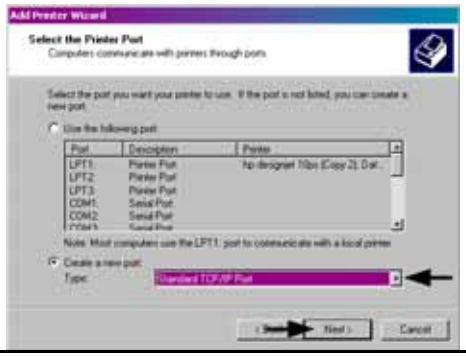
Start the Windows "Add Printer Wizzard". The following screen should appear, click 'Next>'.

2

Make sure that 'Local Printer' is selected and then click 'Next'.

3

Select on 'Create a new port:' and then select 'Standard TCP/IP Port' from the drop down menu. Click 'Next'

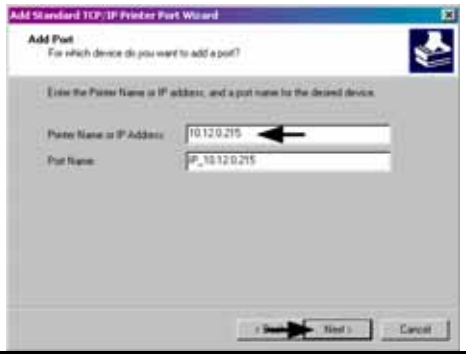


4

Click 'Next'.

5

In the 'Printer Name or IP Address:' field enter the IP address of your printer. The 'Port Name' field <u>does not</u> need to be changed. When finished click 'Next'.



6

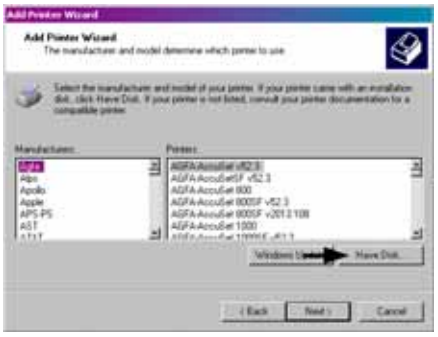
Make sure 'Standard' is selected and then click 'Next'.

7

Confirm your settings and then click 'Finish'.

8

Click on 'Have Disk'.



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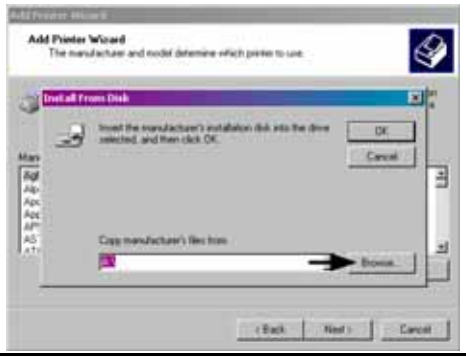
9

Insert the Accessories CD-Rom and click ‘Browse’.

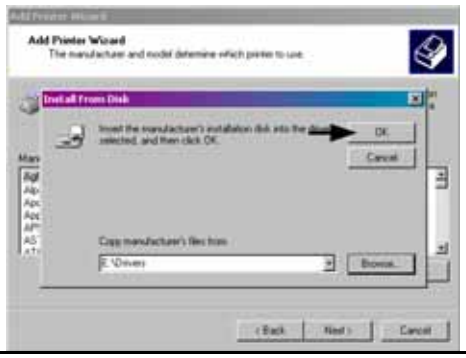


10

Browse to the “\DRIVERS\Seagull” folder on the CD-ROM, make sure the file “Datamax for 95, 98, me, 2000, and xp.inf” is selected and click ‘OK’.

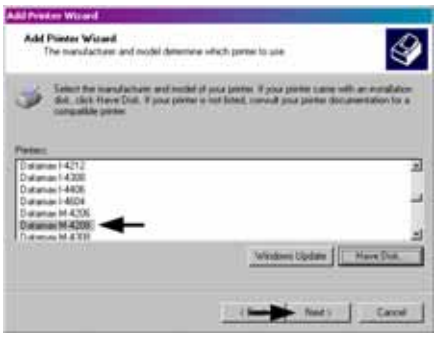
11

Click ‘OK’.



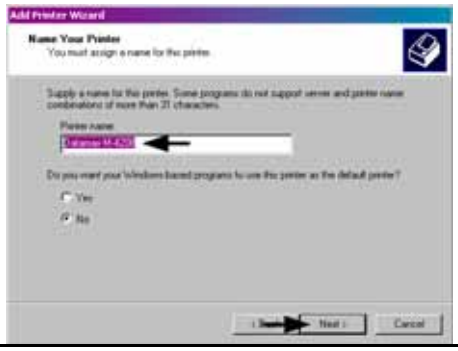
12

Select the ‘M-4208’ printer from the list and then click ‘Next’.



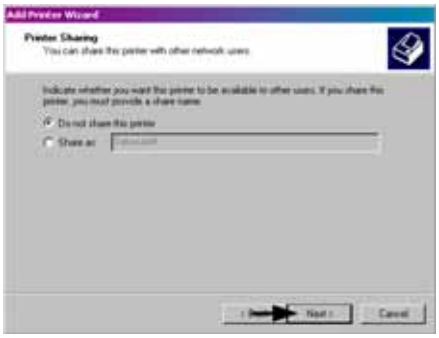
13

Name your printer in the ‘Printer name:’ field. Next select whether or not to set this printer as your default printer. Then Click ‘Next’.



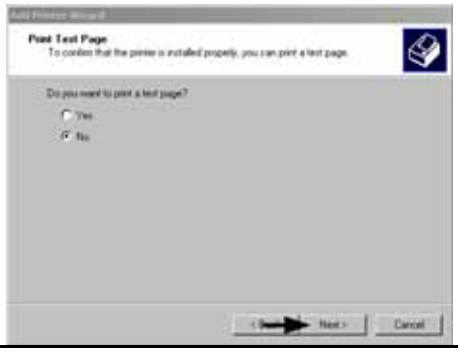
14

Select whether or not to share this printer on your network. Then Click ‘Next’



15

Select ‘No’ then Click ‘Next’.

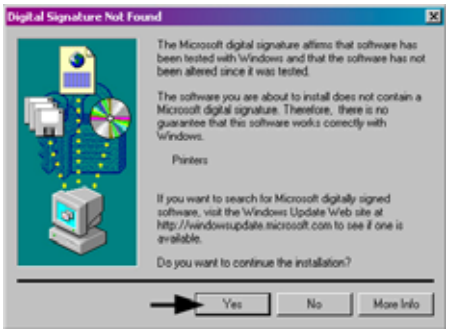


16

Confirm your settings and then click ‘Finish’.

17

If prompted with the "Digital Signature Not Found" window, click ‘Yes’ to continue installation.



18

Your computer will now copy the necessary files from the CD-ROM.

The driver and port installation is now complete. The printer can be selected through any Window’s application.

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Windows XP Driver and Port Installation

1

Start the Windows "Add Printer Wizzard" The following screen should appear, click 'Next>'.

2

Make sure that 'Local Printer' is selected and then click 'Next'.

3

Select on 'Create a new port:' and then select 'Standard TCP/IP Port' from the drop down menu. Click 'Next'

4

Click 'Next'.

5

In the 'Printer Name or IP Address:' field enter the IP address of your printer. The 'Port Name' field does not need to be changed. When finished click "Next'.

6

Make sure 'Standard' is selected and then click 'Next'.

7

Confirm your settings and then click 'Finish'.

8

Click on 'Have Disk'.

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9

Insert the Accessories CD-Rom and click ‘Browse’.

10

Browse to the “\DRIVERS\Seagull” folder on the CD-ROM, make sure the file “Datamax for 95, 98, me, 2000, and xp.inf” is selected and click ‘OK’.

11

Click ‘OK’.

12

Select the ‘M-4208’ printer from the list and then click ‘Next’.

13

Name your printer in the ‘Printer name:’ field. Next select whether or not to set this printer as your default printer. Then Click ‘Next’.

14

Select whether or not to share this printer on your network. Then Click ‘Next’

15

Select ‘No’ then Click ‘Next’.

16

Confirm your settings and then click ‘Finish’.

17

If prompted with the "Digital Signature Not Found" window, click ‘Yes’ to continue installation.

18

Your computer will now copy the necessary files from the CD-ROM.

The driver and port installation is now complete. The printer can be selected through any Window’s application.

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