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# **2060 Print System Installation Guide**

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## **Thank You**

Thank you for purchasing a 2060 Print System. You have made an excellent choice. Your 2060 Print System is specially designed for optimal performance in Windows, Macintosh and networking environments.

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## **Registering the Printer**

**Mail** - Fill out and send in the registration card enclosed in your shipment

**Internet** - [www.qms.com/support/prodreg](http://www.qms.com/support/prodreg) (USA only)

# CONTENTS

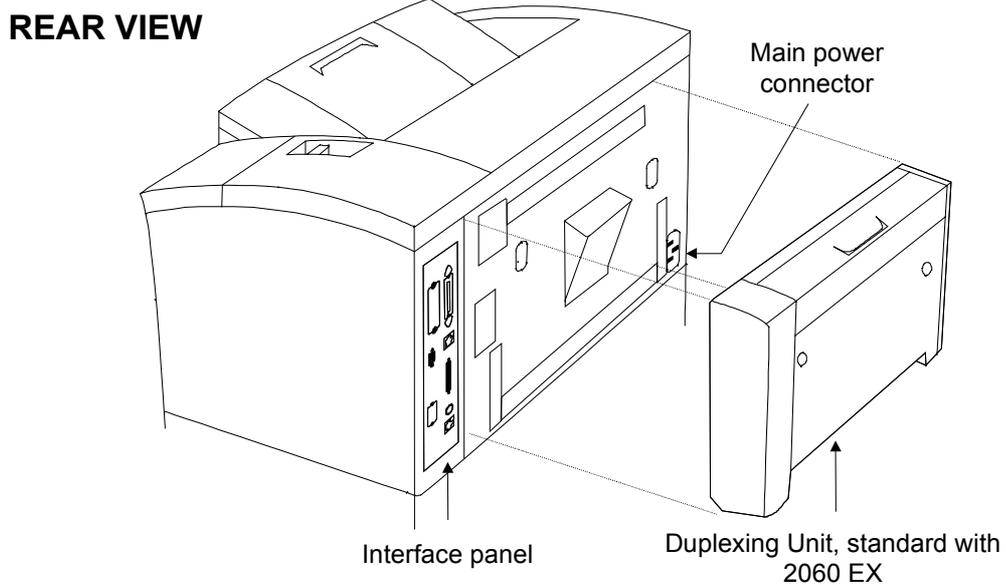
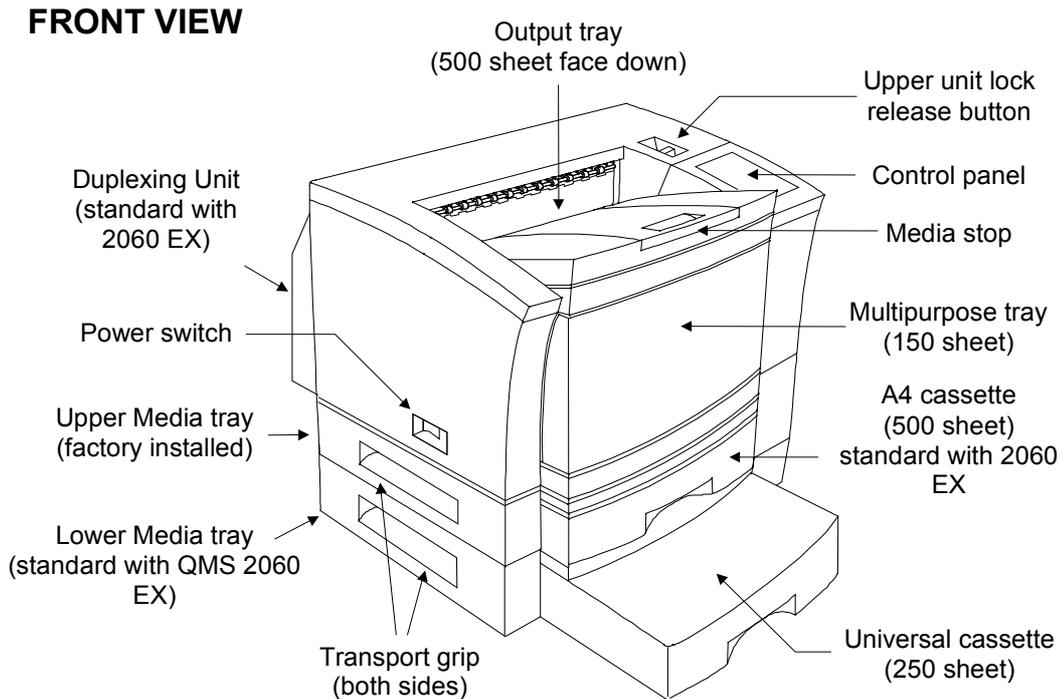
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<b>1.</b>	<b>INTRODUCTION</b>	<b>4</b>
1.1.	GETTING ACQUAINTED	4
1.2.	PRINTER CONFIGURATIONS	5
1.3.	ABOUT THE DOCUMENTATION	6
<b>2.</b>	<b>SETTING UP YOUR PRINTER</b>	<b>7</b>
2.1.	UNPACKING THE PRINTER	7
2.2.	INSTALL THE LOWER MEDIA TRAY (model EX only)	7
2.3.	INSTALL THE MEDIA CASSETTE (models BX, GX and IS only)	8
2.4.	PLACE THE PRINTER...	8
2.5.	INSTALLING CONSUMABLES	8
2.6.	LOADING THE 500 SHEET A4 CASSETTE (model EX)	10
2.7.	LOADING THE 250 SHEET UNIVERSAL CASSETTE (all models)	11
2.8.	LOADING THE MULTIPURPOSE TRAY (all models)	12
2.9.	CONNECTING THE POWER CORD	13
2.10.	IF SOMETHING GOES WRONG	14
2.11.	INSTALLING MORE OPTIONS	14
2.12.	MESSAGE WINDOW	14
<b>3.</b>	<b>CONNECT TO YOUR COMPUTER</b>	<b>15</b>
<b>4.</b>	<b>CONNECT TO YOUR HOST SYSTEM</b>	<b>16</b>
4.1.	CONNECT TO A WINDOWS PC	16
4.2.	CONNECT TO A MACINTOSH	28
4.3.	CONNECT TO A NETWARE 4 OR 5 NDS ENVIRONMENT	30
<b>5.</b>	<b>THE CONTROL PANEL</b>	<b>35</b>
5.1.	CONTROL PANEL INDICATORS	35
5.2.	CONTROL PANEL KEYS	35
5.3.	MENU KEYS	36
<b>6.</b>	<b>CONTROL PANEL MENU</b>	<b>37</b>
<b>7.</b>	<b>TROUBLESHOOTING</b>	<b>38</b>
7.1.	CLEARING MEDIA JAM INSIDE THE PRINTER (all models)	39
7.2.	CLEARING CASSETTE AREA JAMS (all models)	40
7.3.	CLEARING MULTIPURPOSE TRAY AREA JAMS (all models)	40
7.4.	CLEARING A DUPLEXER MEDIA JAM (model EX only)	41
<b>8.</b>	<b>OPTIONS AND SUPPLIES</b>	<b>42</b>
8.1.	OPTIONS	42
8.2.	SUPPLIES	42

# 1. INTRODUCTION

## 1.1. GETTING ACQUAINTED

The drawings on this page illustrate the various parts of your 2060 Print System. The parts are referred to throughout this manual, so please take some time to become familiar with them.

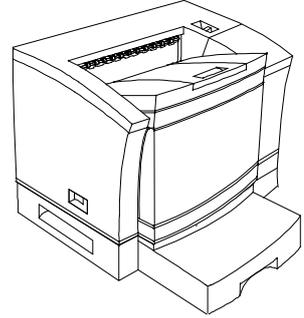


## 1.2. PRINTER CONFIGURATIONS

The 2060 Print System is available in the following configurations:

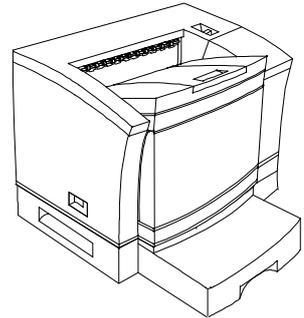
### 1.2.1. THE 2060 PRINT SYSTEM MODEL BX

Standard RAM : 16 Mbyte  
Standard Resolutions : 600 x 600 dpi (A4)  
300 x 300 dpi (A3)  
Standard Media input : 150 sheet MPT  
250 sheet universal cassette



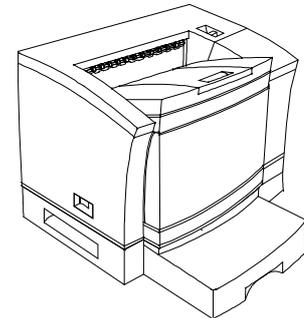
### 1.2.2. THE 2060 PRINT SYSTEM MODEL GX

Standard RAM : 32 Mbyte  
Standard Resolutions : 600 x 600 dpi (A4)  
600 x 600 dpi (A3)  
Standard Media input : 150 sheet MPT  
250 sheet universal cassette



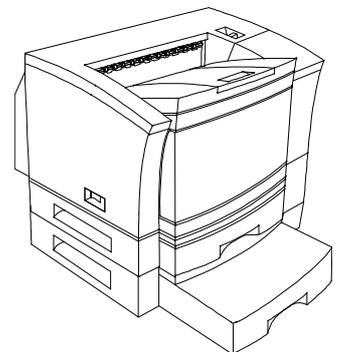
### 1.2.3. THE 2060 PRINT SYSTEM MODEL IS

Standard RAM : 32 Mbyte  
Standard Resolutions : 600 x 600 dpi (A4)  
600 x 600 dpi (A3)  
Standard Media input : 150 sheet MPT  
250 sheet universal cassette  
Internal Hard disk : Standard installed  
ImageServer : Standard installed



### 1.2.4. THE 2060 PRINT SYSTEM MODEL EX

Standard RAM : 48 Mbyte  
Standard Resolutions : 1200 x 1200 dpi (A4)  
1200 x 1200 dpi (A3)  
Standard Media input : 150 sheet MPT  
500 sheet A4 cassette  
250 sheet universal cassette  
Internal Hard disk : Standard installed  
ImageServer : Standard installed  
Duplexing unit : Standard installed



### 1.3. ABOUT THE DOCUMENTATION

The 2060 Print System shipment includes two CD-ROMs :

#### 1.3.1. THE 2060 DOCUMENTATION CD-ROM

This CD-ROM contains specific 2060 Print System documents in PDF format:

- **2060 Getting Started**

This manual is a set up guide, somewhat similar like the Installation Guide you are currently looking at.

- **2060 Operation Manual**

This manual guides you through the day-to-day operation of your printer. It includes detailed information on advanced printing, maintenance and troubleshooting.

- **2060 Options Manual**

This manual describes the installation of options, like memory upgrades, network interfaces and installation of an internal hard disk.

- **2060 Reference Manual**

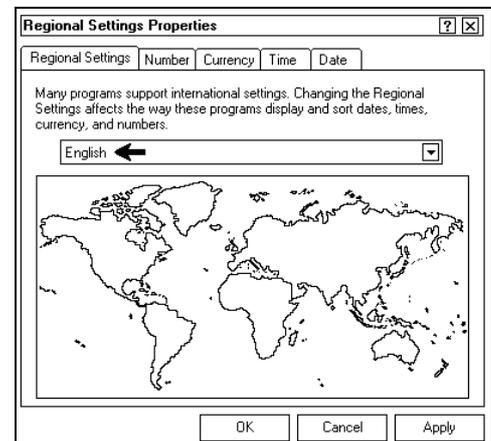
This manual contains references for print media, typefaces and printer configurations.

#### 1.3.2. THE SOFTWARE UTILITIES CD-ROM

This CD-ROM contains software utilities and printer drivers for Windows Me/98 & 95, Windows 2000, Windows NT 4 and Macintosh.

#### 1.3.3. AUTO INSTALLATION

The *Software Utilities* CD-ROM is equipped with an auto installation program. It will automatically start up in one of the available languages on the *Software Utilities* CD-ROM. In a Windows environment, you may affect the opening language by changing the **REGIONAL SETTINGS** (the illustration shows the utility for an English Windows 95 platform). You will find this program by double clicking on the **MY COMPUTER** icon and then open the folder **CONTROL PANEL**.



<b>NOTE</b>	Other applications on your PC may also be affected changing these settings. Therefore, when you change the Regional Settings prior to loading the 2060 Print System driver, you are advised to set this back to its original setting afterwards (usually, each time changing this setting requires a restart of your PC).
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## 2. SETTING UP YOUR PRINTER

### 2.1. UNPACKING THE PRINTER

Use the following procedure to unpack the printer. To ensure that your printer was not damaged during shipment, follow the entire procedure.

<b>NOTE</b>	Save the packing materials of all components and options in case you ever have to move or ship the printer to a new location.
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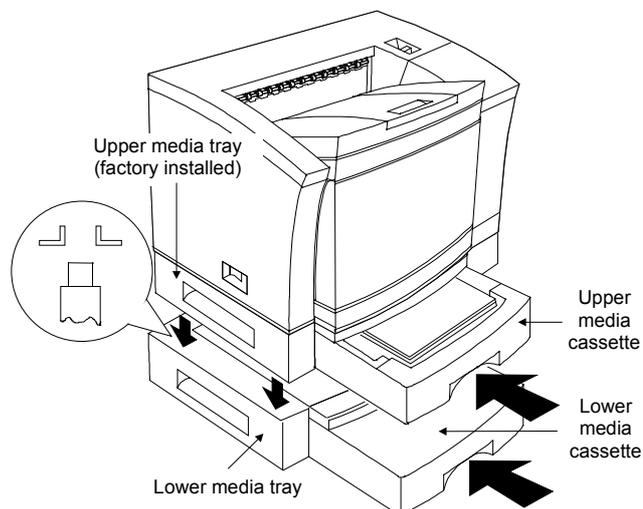
- 1 Open the box and remove everything except the printer from the shipping carton. Put your hands into the transport grips of the printer and lift the printer out of the shipping carton.
- 2 Remove the protective covering and tape from the printer body. Make sure all the foam is removed from the printer.

### 2.2. INSTALL THE LOWER MEDIA TRAY (model EX only)

If you purchased a 2060 Print System model BX, GX or IS, please proceed with the next chapter. If you purchased a 2060 Print System model EX, at this point you should first install the lower media tray.

- 1 The lower media tray comes in a separate box. Unpack the box, remove all protective covering and tape and place the tray on a flat surface. Together with the lower tray, a cassette (500 sheet A4) is included. Put the cassette apart for the moment.

- 2 Carefully lift the printer by the transport grips and put the printer on the lower media tray, using the coupling pins as guides. Align the printer over the pins on the tray and carefully put the printer down.



- 3 Unpack both cassettes (the standard 250 sheet Universal cassette from the printer box and the 500 sheet A4 cassette from the separate box) and remove all packing material and tape. Slide the A4 cassette in the upper tray and the 250 sheet Universal cassette in the lower tray.

### 2.3. INSTALL THE MEDIA CASSETTE (models BX, GX and IS only)

Remove the 250 sheet Universal cassette from the shipping box and remove all packing material and tape. Slide the cassette in the tray.

### 2.4. PLACE THE PRINTER...

- Away from cooling and heating sources, extreme temperature changes, direct sunlight, excessive dust, corrosive chemicals or vapors, any strong electromagnetic field, items that can easily burn and excessive vibration.
- In an area with a temperature range of 10 - 35°C and relative humidity range of 15% - 85%.
- On a hard level surface, capable of supporting the printer.
- Near your computer in case you use the parallel connection.
- Close to a grounded power supply of the rated line voltage.
- In a well-ventilated room.
- With enough space to allow adequate ventilation and easy servicing of the printer.

### 2.5. INSTALLING CONSUMABLES

You must install the toner cartridge, load the media cassette, connect the power cable and print a start-up page before you should install any additional option.

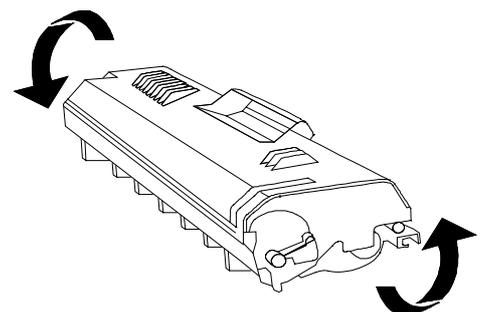
#### 2.5.1. INSTALLING THE TONER CARTRIDGE

- 1 Lift the toner cartridge out of its shipping carton, open the aluminum protective bag and remove the cartridge.

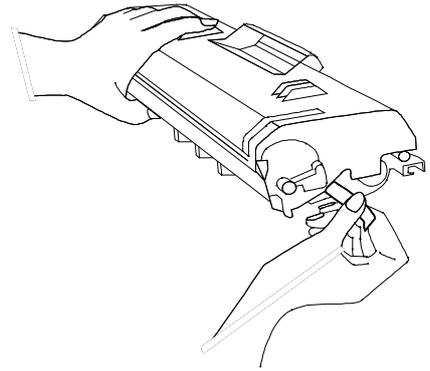
**NOTE** The toner cartridge is sensitive to bright light. Do not remove the cartridge from its protective bag until you are ready to install it. Store the cartridge in an environment that is not subject to extreme heat or humidity, salty air, or corrosive gases, such as aerosols.

**NOTE** After taking the toner cartridge from its protective bag, do not open the cover or touch the OPC drum of the toner cartridge, because it may deteriorate the drum and reduce print quality.

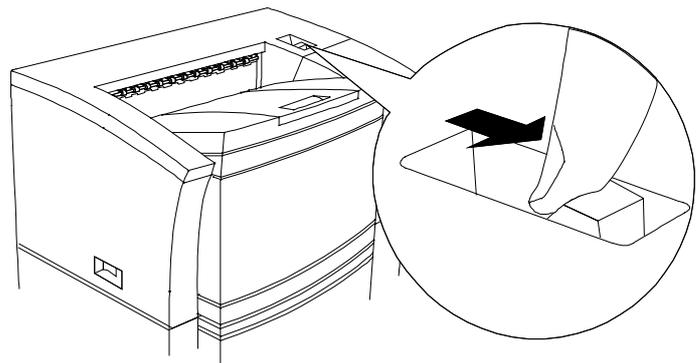
- 2 Distribute the toner in the cartridge. Hold the cartridge with both hands and gently rock it from side-to-side five or six times to distribute the toner.



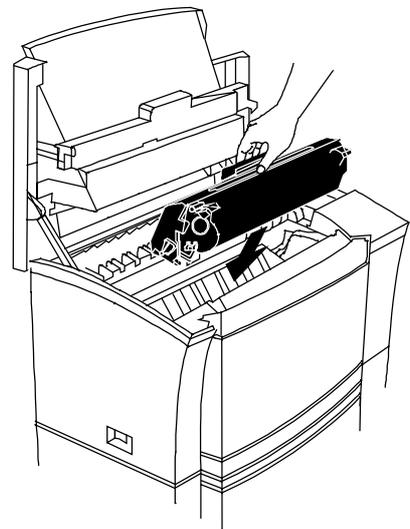
- 3** Remove the tape seal. Holding the cartridge in place with your left hand, use your right hand to grasp the tab on the right side of the toner cartridge. Grasp the clear plastic strip and pull it straight out.



- 4** Press the upper unit lock release button and open the top cover.



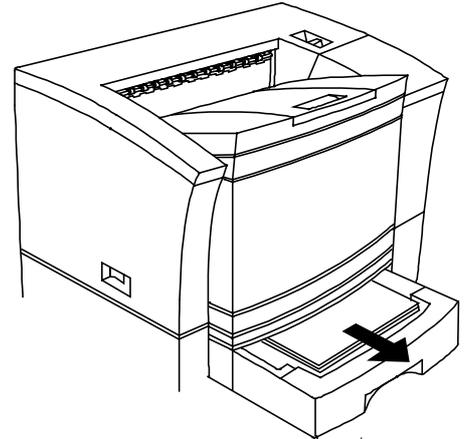
- 5** Slide the toner cartridge into the printer. Hold the grooved area on the toner cartridge with your right hand, then with the arrow on the toner cartridge facing away from you, angle the cartridge down in the printer. Place the cartridge on the rails inside the upper unit of the printer and gently slide it straight down until it is firmly seated.



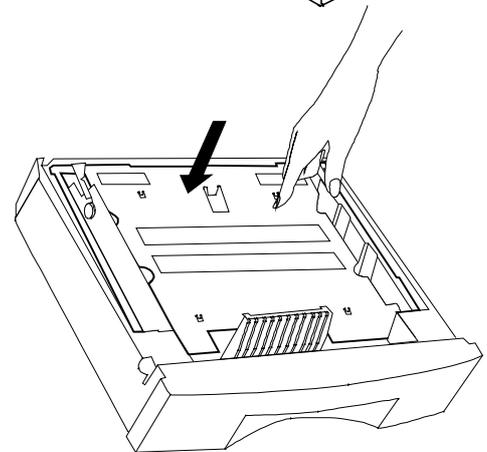
- 6** Close the printer's top cover.

## 2.6. LOADING THE 500 SHEET A4 CASSETTE (model EX)

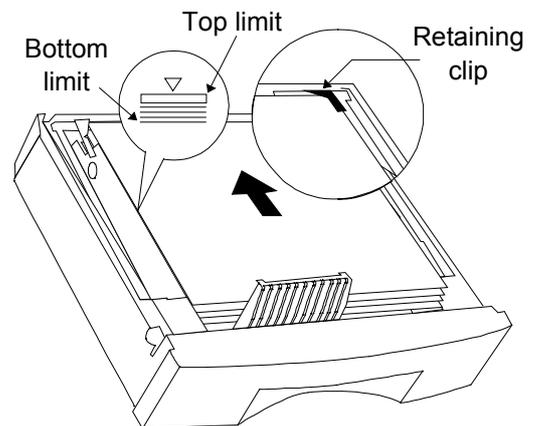
- 1 Pull out and remove the cassette.



- 2 Position the cassette. The cassette has a spring in the bottom that provides some resistance when print media is placed on it. Lay the cassette flat on a hard surface and push the plate down in the cassette until it locks.

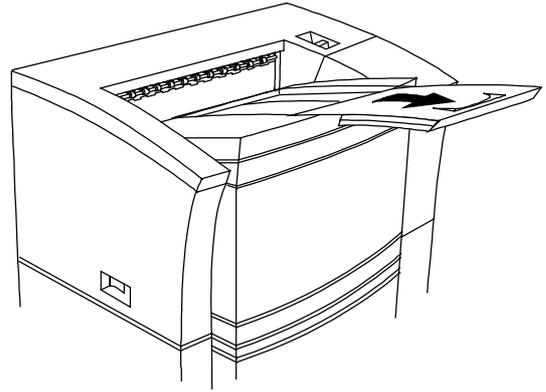


- 3 Load media in the 500 sheet A4 cassette in increments so that the 500 sheets fit in the cassette and the media stack is properly levelled out.



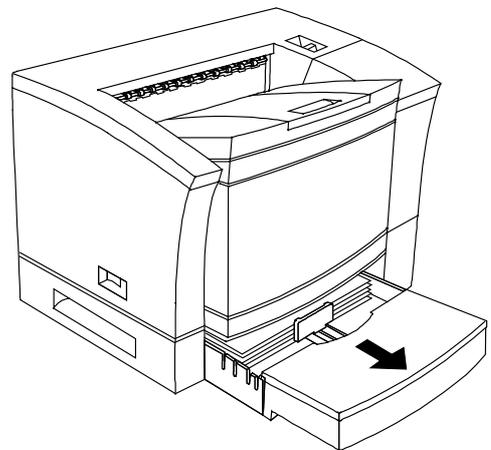
- 4 Ensure that the media stack lies flat and does not exceed the top limit mark.
- 5 Slide the cassette back into the tray until it is firmly seated.

- 6** Pull out the media stop and slide it to the correct media size (use the media size markers).

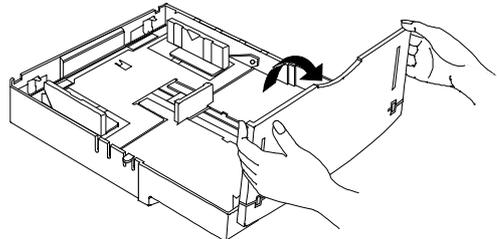


## 2.7. LOADING THE 250 SHEET UNIVERSAL CASSETTE (all models)

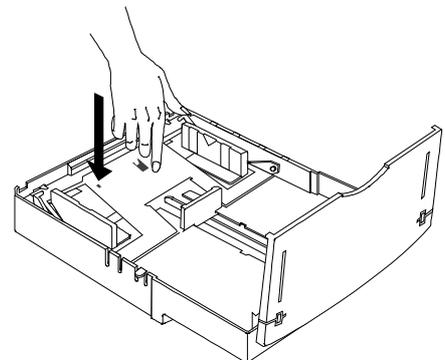
- 1** Pull out and remove the cassette.



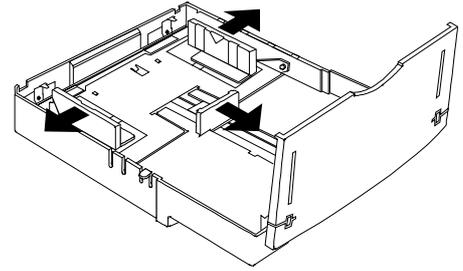
- 2** Open the cover.



- 3** Position the cassette. The cassette has a spring in the bottom that provides some resistance when print media is placed on it. Lay the cassette flat on a hard surface and push the plate in the cassette down until it locks.

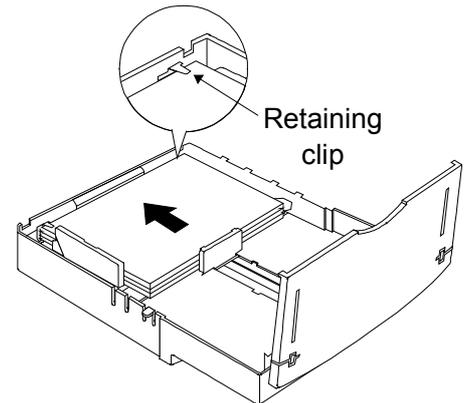


- 4 Adjust the media guides to fit the media size (using the media size markings in the cassette).



- 5 Load the media face-up in the universal cassette.

- 6 Ensure that the media stack lies flat, does not exceed the top limit mark and is positioned under the retaining clips.



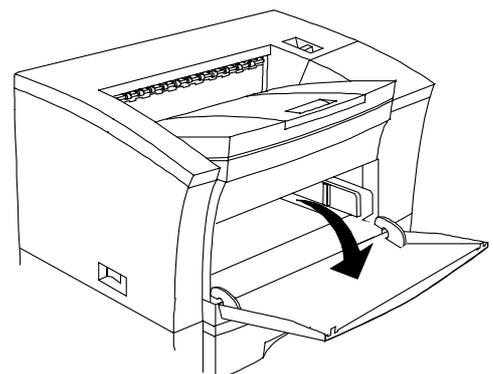
- 7 Close the cover and slide the cassette back into the tray until it is firmly seated.
- 8 Adjust the media stop to fit the media size. The printer delivers your output, print-side down, to the output tray at the top of the printer. The media stop keeps the sheets positioned in the output tray.

**NOTE** When printing different size media in the face-down tray, set the media stop to the largest media size. If the media stop is set to a smaller media size, large size media will curl, block the opening (when delivered to the output tray) and cause a media jam.

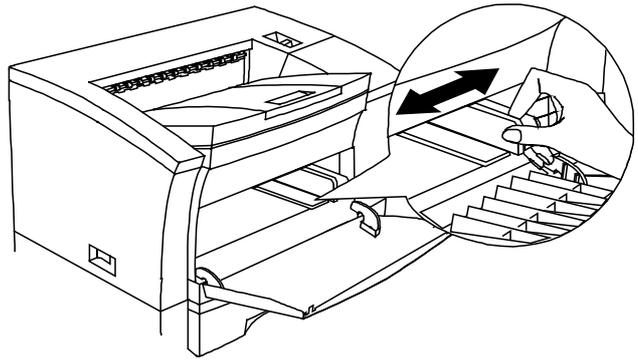
## 2.8. LOADING THE MULTIPURPOSE TRAY (all models)

The multipurpose tray may hold approx. 150 sheets of all supported sizes.

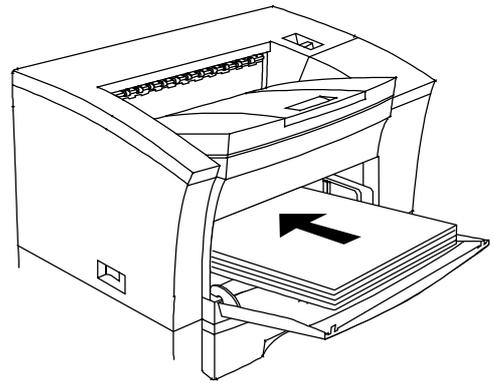
- 1 Open the multipurpose cover.



- 2 Adjust the media guides to the proper media size by shifting the right hand guide. The right hand guide has a lock. By pressing the lock the guides may be moved (the left hand guide is adjusted automatically as the right hand guide moves).



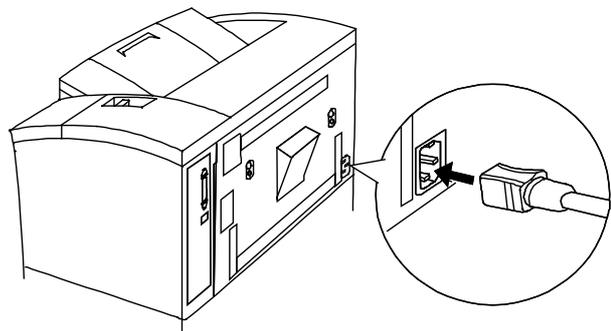
- 3 Load the media into the multipurpose tray. The multipurpose tray may be loaded with approx. 150 sheets up to oversized A3 (330 x 483 mm) media.



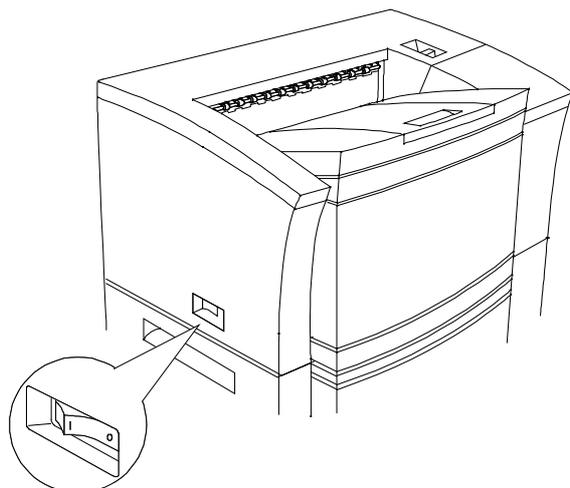
**NOTE** The multipurpose tray does not have automatic media size sensors. Therefore, the media size used must be set on the control panel, under menu : 'Operator Control' and sub-menu : 'Multipurpose size'.

## 2.9. CONNECTING THE POWER CORD

- 1 Plug the female end of the power cable in the connector on the rear of the printer. Plug the opposite end of the power cable in a grounded AC outlet.



- 2 Turn the printer on (press down the 'I' side of the switch). After a brief warm-up (less than 2 minutes) your printer is ready and prints a start-up page.



## 2.10. IF SOMETHING GOES WRONG

If you experience a problem installing your 2060 Print System, first go through the installation procedure in this manual once more. Verify each item thoroughly. You may also refer to the 2060 Operation Manual for troubleshooting tips. If you still experience a problem, you may contact your local vendor.

## 2.11. INSTALLING MORE OPTIONS

If you purchased any additional printer option, such as extra memory (SIMMs), then install it now. If installation instructions are included with the option, follow them. If not, installation instructions are included in the 2060 Option Manual.

## 2.12. MESSAGE WINDOW

Status messages and configuration menus can be displayed in the message window in English, German, French or Spanish language. When you receive your 2060 Print System, the language is set to English. If you need to change the message window language, use the following control panel sequence:

PRESS KEY	(UNTIL) DISPLAY READS
<b>Online</b>	Idle
<b>Menu</b>	Operator Control
<b>Next</b>	Administration
<b>Select</b>	Communications
<b>Previous</b>	Miscellaneous
<b>Select</b>	Restore Defaults
<b>Previous</b>	Keypad Language
<b>Select</b>	*English
<b>Next/Previous</b>	Press the Next and/or Previous key until the language required is displayed.
<b>Select</b>	<language> is selected Keypad Language
<b>Online</b>	Save Changes ? - *No

<b>Next</b>	Yes
<b>Select</b>	Reboot now ? - *No
<b>Next</b>	Yes
<b>Select</b>	The printer will reboot. After rebooting, all window messages will be displayed in the language you selected.

### 3. CONNECT TO YOUR COMPUTER

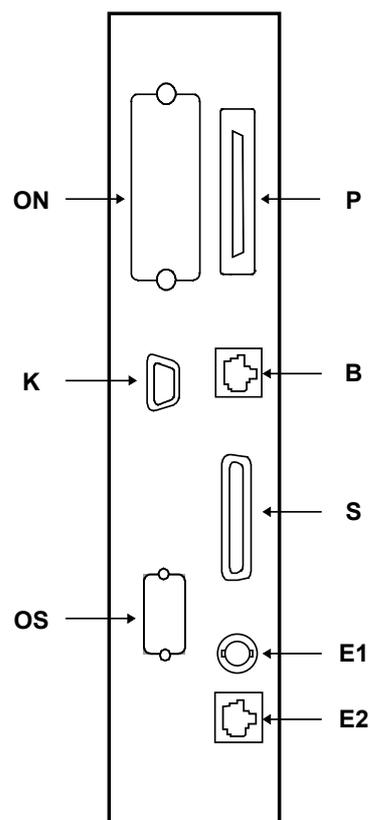
The 2060 Print System comes with three interfaces: an IEEE1284 bi-directional parallel and two Ethernet interfaces (located on the rear side of your printer, see drawing). Optionally, a network interface and/or a Serial interface may be installed.

#### **STANDARD INTERFACES**

- P** - IEEE1284 bi-directional parallel (36-pin female)
- E1** - CrownNet Ethernet 10-Base-2
- E2** - CrownNet Ethernet 10-Base-T
- B** - Connector for BuzzBox lite
- S** - SCSI interface
- K** - Connector (9-pin female) for a Security key (allows protecting the control panel menus by passwords)

#### **OPTIONAL INTERFACES**

- ON** - Network interface (like : CrownNet Token-Ring)
- OS** - Serial RS232 interface.



**NOTE** The shipment of the 2060 Print System series does not include interface cables.

## 4. CONNECT TO YOUR HOST SYSTEM

After you have completed setting up your MINOLTA-QMS 2060 Print System, you will have to connect it to your host system. The type of connection is dependent on your local environment. This chapter guides you through the installation of the 2060 Print System for the most popular environments.

### 4.1. CONNECT TO A WINDOWS PC

Usually there are two ways to connect your 2060 Print System. Either you have a local (parallel) connection or you are connected into a TCP/IP network environment.

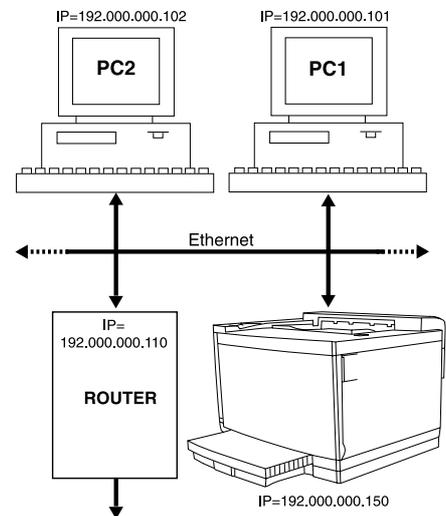
#### 4.1.1. PARALLEL CONNECTION

- **Step 1 - Connect your printer to your PC**  
Connect your 2060 Print System to your PC by means of a parallel cable.
- **Step 2 - Install the Windows driver**  
Depending on the Window platform your PC operates with, go to the following paragraph.

If you run	Go to paragraph	On page
Windows Me, 95 or 98	INSTALL THE WIN ME/98/95 DRIVER	19
Windows 2000	INSTALL THE WIN 2000 DRIVER	22
Windows NT 4.0	INSTALL THE WIN NT 4 DRIVER	25

#### 4.1.2. TCP/IP CONNECTION

To connect your MINOLTA-QMS 2060 Print System in a TCP/IP oriented network environment, you must first set internal network addresses in the printer. The next figure shows an example of a simple network environment. Principally, you only have to enter a unique IP address. Optionally, you may enter a submask and/or a router address, depending on your local environment and requirements. It is assumed that all PC's attached have TCP/IP installed and that an RJ45 network connector is available. If your network does not provide an RJ45 connection, you may either install the (optional) Ethernet interface (with a 10-Base-2 connector) or use a hub.



- **Step 1 - Set the Internet Address**  
This location must contain the unique printer IP address. This address should never conflict with any other (unique) IP address present in your network. The 2060 Print System is shipped with a preset IP address. Due to your network environment you usually must change this address. In the following installation examples we assume that this IP address is 192.000.000.150.

NOTE Your network system administrator should submit this IP address.

- **Step 2 - Set the Submask Address**

The submask allows you to make limitations to the access of your printer (separating divisions for example). The table below shows some examples.

SUBMASK	USERS HAVING ACCESS
000.000.000.000	No limitations (default).
255.255.255.000	Only users (PC's) having IP addresses yyy.yyy.yyy.xxx have access to your printer (yyy.yyy.yyy represents the first part of the <i>printer's</i> IP address - xxx is don't care).

- **Step 3 - Set the Router address**

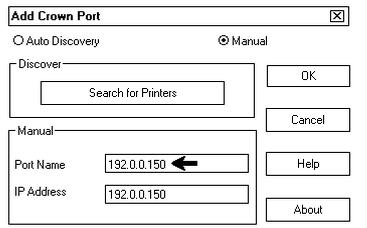
If you have a router in your network and you allow users outside your network to print on your 2060 Print System, you should enter the router's IP address here. Otherwise, this address should be : 000.000.000.000 (default).

- **Step 4 - Connect your printer to the network**

Attach your 2060 Print System to the network by means of plugging in the RJ45 connector.

- **Step 5 - Install the Crown Print Monitor**

In a networked environment you will also have to install a Print Monitor. A Print Monitor is software that enables the connection between the software application on your PC and the physical network port in your PC. It is somewhat similar to the standard parallel LPT port, where resident software handles the print data from your application to the parallel port. The difference is that the parallel port including its software is standard built into your PC and the network card (plus software = Print Monitor) usually not. The Crown Print Monitor allows the transportation of print data over the TCP/IP protocol for serverless printing with your 2060 Print System.

STEP	SCREEN SHOWS	WHAT TO DO
6	Insert the <i>Software Utilities</i> CD-ROM into your CD-ROM drive. The CD-ROM automatically starts (or you may use the Windows Explorer and browse to the CD-ROM location, click on the CD-ROM icon with the right hand mouse button and select autoplay).	
7	In the Main Menu, select <b>INSTALL PRINTER UTILITIES AND DRIVERS</b> . Follow the instructions on the screen and proceed to the section <b>MAKE A SELECTION</b> .	
8	Select <b>MINOLTA-QMS PRINT MONITOR</b> . Select the language you prefer and click on <b>OK</b> . Proceed and follow the instructions on the screen.	
9		<p>In <b>PORT NAME</b>, enter the IP address of your 2060 Print System (in our example : 192.0.0.150).</p> <p><b>Note</b> : With the <b>IP ADDRESS</b>, you must omit leading zero's between the dots. '000' <i>must</i> be entered as '0', '005' as '5', etc.</p> <p>Click on <b>OK</b>.</p>

---

- **Step 10 - Install the Windows driver**

Do not remove the *Software Utilities* CD-ROM. Depending on the Window platform your PC operates with, continue with the following paragraph.

<b>If you run</b>	<b>Go to paragraph</b>	<b>On page</b>	<b>Step</b>
Windows Me, 95 or 98	INSTALL THE WIN ME/98/95 DRIVER	19	2
Windows 2000	INSTALL THE WIN 2000 DRIVER	22	2
Windows NT 4.0	INSTALL THE WIN NT 4 DRIVER	25	2

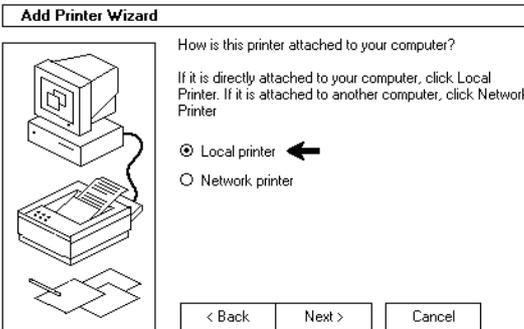
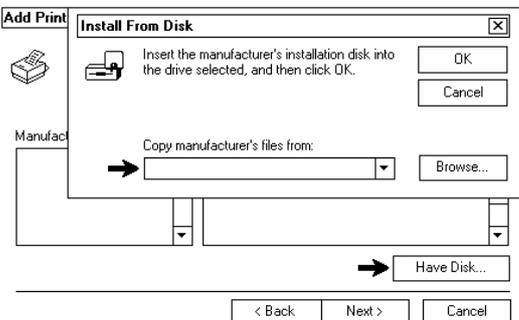
NOTE	In a networked environment, you must install the Crown Print Monitor and the Windows driver on each PC attached to the network having access to your MINOLTA-QMS 2060 Print System.
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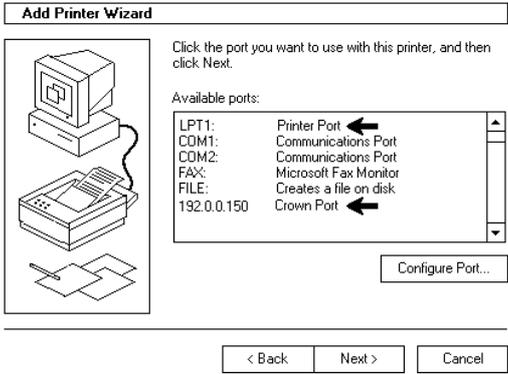
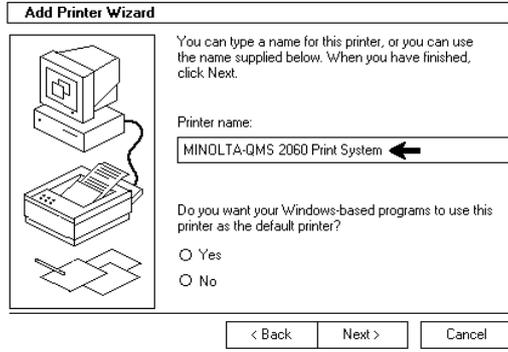
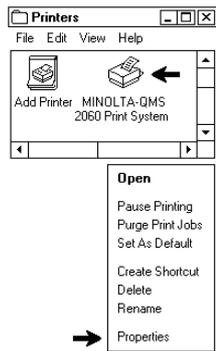
NOTE	For details regarding printer settings, refer to the CrownBook available on the Software Utilities CD-ROM.
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### 4.1.3. INSTALL THE DRIVER FOR WINDOWS ME/98/95

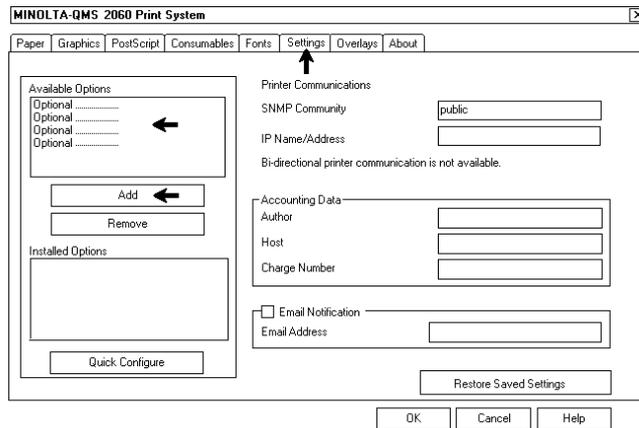
The following assumes that you are installing the MINOLTA-QMS 2060 Print System Windows Me/98/95 driver for the first time.

**NOTE** Windows Me and Windows 98 have 'new hardware' auto detect capabilities. To avoid conflicts, first switch on your PC and your printer. Then connect your printer to your PC. When Windows Me or Windows 98 starts with the 'New Hardware Wizard', close the wizard and continue as described below.

STEP	SCREEN SHOWS	WHAT TO DO
1	Insert the <i>Software Utilities</i> CD-ROM into your CD-ROM drive. The CD-ROM automatically starts (or you may use the Windows Explorer and browse to the CD-ROM location, click on the CD-ROM icon with the right hand mouse button and select autoplay).	
2	Proceed to the Main Menu and select <b>INSTALL PRINTER UTILITIES AND DRIVERS</b> . Follow the instructions on the screen and proceed to the section <b>MAKE A SELECTION</b> .	
3	In the menu, select <b>MINOLTA-QMS PRINTER DRIVER FOR WINDOWS ME, 98, &amp; 95</b> . Follow the directions on the screen.	
4		<p>Select <b>LOCAL PRINTER</b> (you are attaching to a port, not to a printer attached to a server)</p> <p>Click on <b>NEXT</b>.</p>
5		<p>Select <b>HAVE DISK</b> and enter or browse to the location of the driver: <b>Ⓜ:\PLATFORM\WINDOWS ME, 98 &amp; 95\DRIVER\</b> (where <b>Ⓜ</b> is the letter of your CD-ROM drive and <b>Ⓜ</b> the folder of the language you prefer).</p> <p>Click on <b>OK</b> twice.</p>

6	The driver contains a range of MINOLTA-QMS printers. Select the MINOLTA-QMS 2060 Print System. Then click on <b>NEXT</b> .	
7		<p>Select the appropriate printer port.</p> <p>For a local (parallel) connection select the printer port (LPT) and for the TCP/IP connection select the Crown Port (in our example : 192.0.0.150, previously installed).</p> <p>Click on <b>NEXT</b>.</p>
8		<p>This screen allows you to rename your printer and to set the printer as default printer. Select <b>NEXT</b> and then <b>FINISH</b>. The driver will be loaded from the CD-ROM. Finish the installation program.</p> <p>Remove the <i>Software Utilities</i> CD-ROM from your CD-ROM drive and store it in a safe place.</p>
9	After finishing, you are advised to restart your computer. The following steps are recommended, setting default values (like the media size you will have in your media cassette).	
10		<p>After your computer has been restarted, double click on <b>MY COMPUTER</b>, then double click on the folder <b>PRINTERS</b> and locate the (new) MINOLTA-QMS 2060 Print System icon. Click on the icon with the right hand mouse button. Select <b>PROPERTIES</b>. Then select <b>DETAILS</b>. Verify that the port and driver name is correct. Then select <b>SETUP</b>.</p>

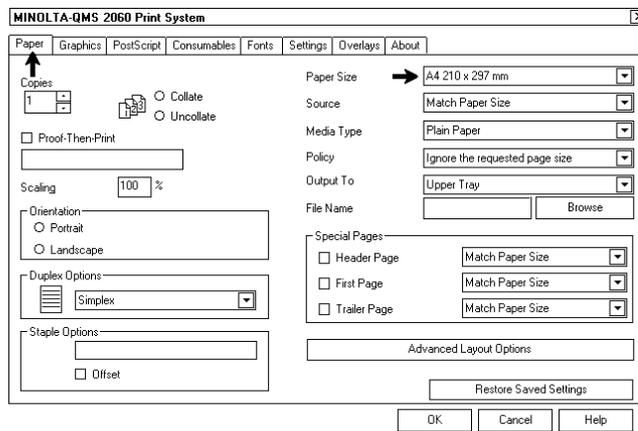
11



Click on the **SETTINGS** tab. In this window you may select certain options according to the model you purchased. Refer to the chapter **PRINTER CONFIGURATIONS** on page 5.

Select the appropriate option(s), by clicking on the option and then clicking on **ADD** (one option at a time).

12



Click on the **PAPER** tab. In this window you may set various defaults. However, you are advised to select the correct media size you use.

Click on **OK** and finish the settings.

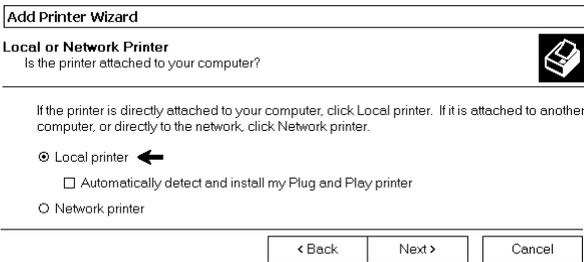
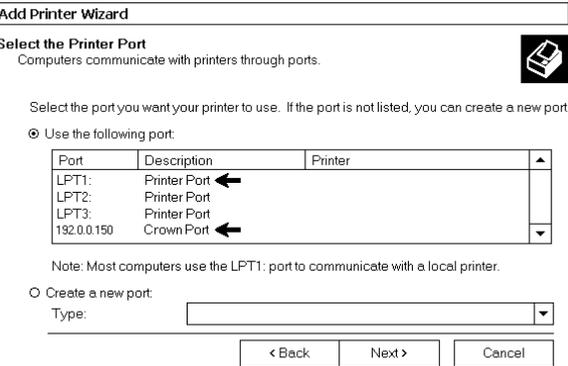
You have now installed the MINOLTA-QMS 2060 Print System Windows Me/98/95 driver.

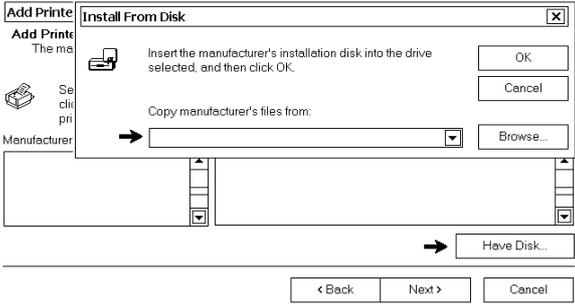
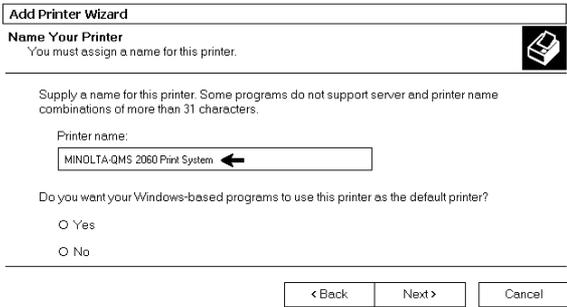
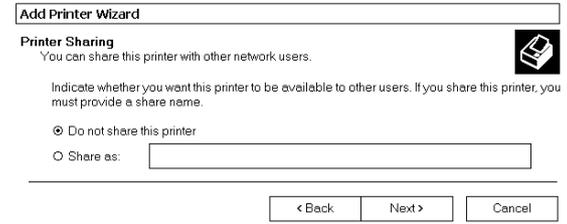
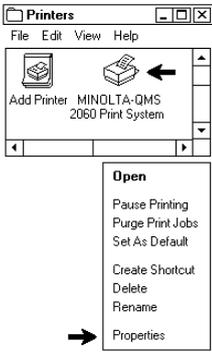
**NOTE** You may also load other utilities available on the Software Utilities CD-ROM.

#### 4.1.4. INSTALL THE DRIVER FOR WINDOWS 2000

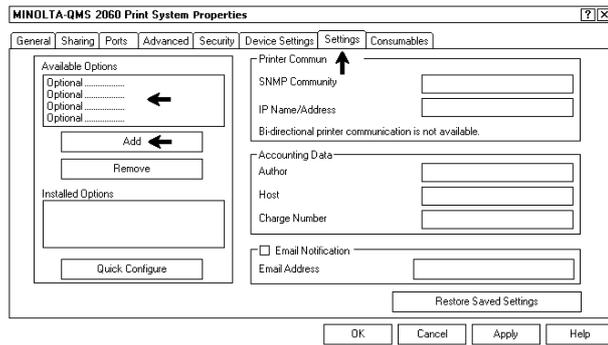
The following assumes that you are installing the MINOLTA-QMS 2060 Print System Windows 2000 driver for the first time.

**NOTE** Windows 2000 has 'new hardware' auto detect capabilities. To avoid conflicts, first switch on your PC and your printer. Then connect your printer to your PC. When Windows 2000 starts with the 'New Hardware Wizard', close the wizard and continue as described below.

STEP	SCREEN SHOWS	WHAT TO DO
1	Insert the <i>Software Utilities</i> CD-ROM into your CD-ROM drive. The CD-ROM automatically starts (or you may use the Windows Explorer and browse to the CD-ROM location, open the CD-ROM and double click on setup.exe).	
2	Proceed to the Main Menu and select <b>INSTALL PRINTER UTILITIES AND DRIVERS</b> . Follow the instructions on the screen and proceed to the section <b>MAKE A SELECTION</b> .	
3	In the menu, select <b>MINOLTA-QMS PRINTER DRIVER FOR WINDOWS 2000 &amp; NT 4.0</b> . Follow the directions on the screen.	
4		<p>Select <b>LOCAL PRINTER</b> (you are attaching to a port, not to a printer attached to a server)</p> <p>Click on <b>NEXT</b>.</p>
5		<p>Select the appropriate printer port. For a local (parallel) connection select the printer port (LPT) and for the TCP/IP connection select the Crown Port (in our example : 192.0.0.150, previously installed).</p> <p>Click on <b>NEXT</b>.</p>

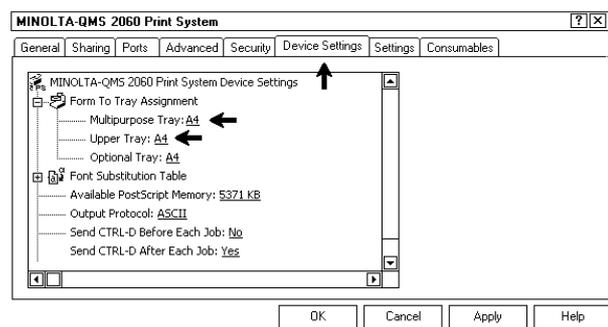
<p><b>6</b></p>		<p>Select <b>HAVE DISK</b> and enter or browse to the location of the driver:  <b>Ⓜ:\PLATFORM\WINDOWS 2000 &amp; NT4\DRIVER\</b> (where Ⓜ is the letter of your CD-ROM drive and the folder of the language you prefer).</p> <p>Click on <b>OK</b> twice.</p>
<p><b>7</b></p>	<p>The driver contains a range of MINOLTA-QMS printers. Select the MINOLTA-QMS 2060 Print System. Then click on <b>NEXT</b>.</p>	
<p><b>8</b></p>		<p>This screen allows you to rename your printer and to set the printer as default printer.</p> <p>Select <b>NEXT</b>.</p>
<p><b>9</b></p>		<p>Select <b>DO NOT SHARE</b> and then <b>FINISH</b>. The driver will be loaded from the CD-ROM. Finish the installation program. Remove the <i>Software Utilities</i> CD-ROM from your CD-ROM drive and store it in a safe place.</p>
<p><b>10</b></p>	 <p>After finishing, you are advised to restart your computer. The following steps are recommended, setting default values (like the media size you will have in your media cassette).</p> <p>After your computer has been restarted, double click on <b>MY COMPUTER</b>, then double click on the folder <b>PRINTERS</b> and locate the (new) MINOLTA-QMS 2060 Print System icon. Click on the icon with the right hand mouse button. Select <b>PROPERTIES</b>. Then select <b>DETAILS</b>. Verify that the port and driver name is correct. Then select <b>SETUP</b>.</p>	

11



Click on the **SETTINGS** tab. In this window you may select certain options according to the model you purchased. Refer to the chapter **PRINTER CONFIGURATIONS** on page 5. Select the appropriate option(s), by clicking on the option and then clicking on **ADD** (one option at a time).

12



Click on the **DEVICE SETTINGS** tab. In this window you may set various defaults. However, you are advised to select the correct media size you use.

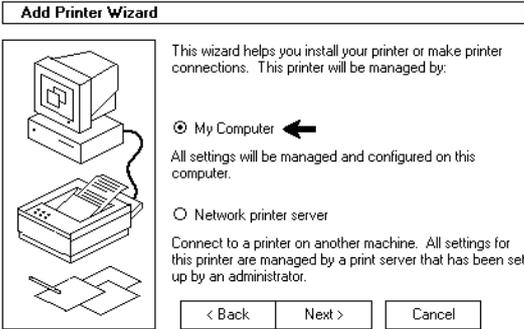
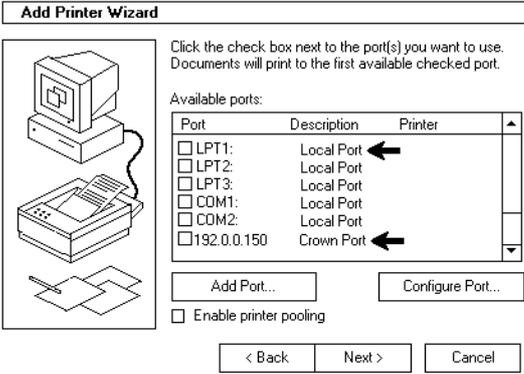
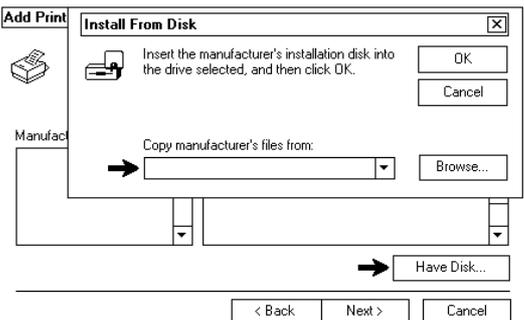
Click on **OK** and finish the settings.

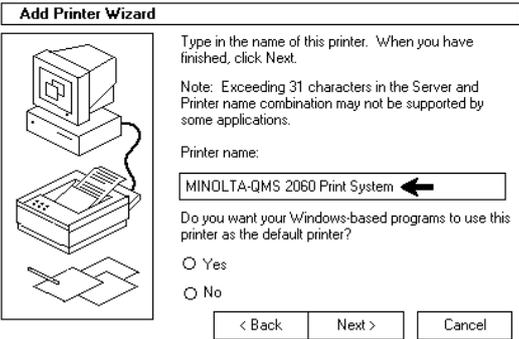
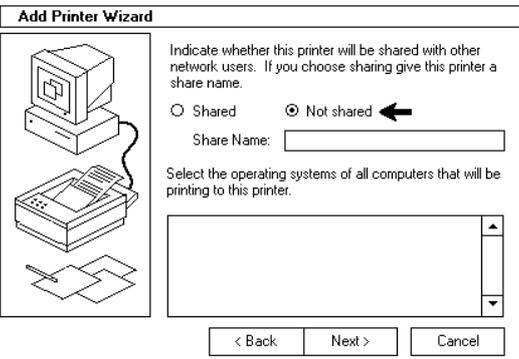
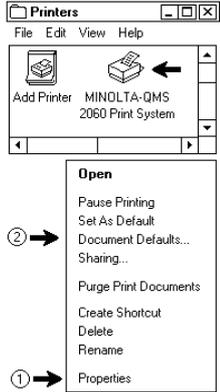
You have now installed the MINOLTA-QMS 2060 Print System Windows 2000 driver.

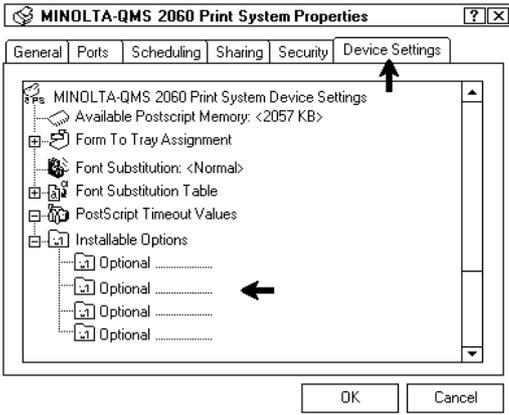
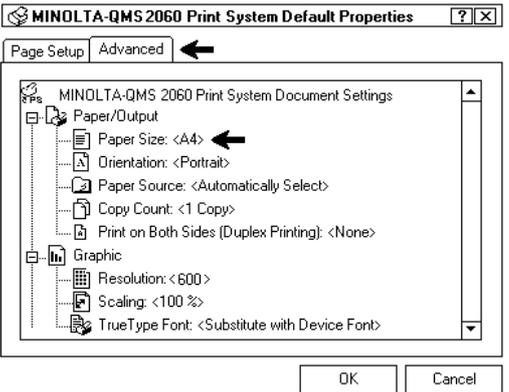
**NOTE** You may also load other utilities available on the Software Utilities CD-ROM.

#### 4.1.5. INSTALL THE DRIVER FOR WINDOWS NT 4.0

The following assumes that you are installing the MINOLTA-QMS 2060 Print System Windows NT 4 driver for the first time.

STEP	SCREEN SHOWS	WHAT TO DO
1	Insert the <i>Software Utilities</i> CD-ROM into your CD-ROM drive. The CD-ROM automatically starts (or you may use the Windows Explorer and browse to the CD-ROM location, click on the CD-ROM icon with the right hand mouse button and select autoplay).	
2	In the Main Menu, select <b>INSTALL PRINTER UTILITIES AND DRIVERS</b> . Follow the instructions on the screen and proceed to the section <b>MAKE A SELECTION</b> .	
3	In the menu, select <b>MINOLTA-QMS PRINTER DRIVER FOR WINDOWS 2000 &amp; NT 4.0</b> . Follow the directions on the screen.	
4		<p>Select <b>MY COMPUTER</b> (you are attaching to a port, not to a printer attached to a server)</p> <p>Click on <b>NEXT</b>.</p>
5		<p>Select the appropriate printer port. For a local (parallel) connection select the printer port (LPT) and for the TCP/IP connection select the Crown Port (in our example : 192.0.0.150, previously installed).</p> <p>Click on <b>NEXT</b>.</p>
6		<p>Select <b>HAVE DISK</b> and enter the location of the MINOLTA-QMS 2060 Print System driver : <b>Ⓜ:\PLATFORM\WINDOWS 2000 &amp; NT4\NT4DRIVER\</b> (where Ⓜ is the letter of your CD-ROM drive and the folder of the language you prefer).</p> <p>Click on <b>OK</b> and proceed to the next screen.</p>

7	The driver contains a range of printer drivers. Select the MINOLTA-QMS 2060 Print System. Then click on <b>NEXT</b> .	
8		<p>This screen allows you to rename the printer for your convenience and to set the printer as default printer.</p> <p>Select <b>NEXT</b>.</p>
9		<p>You <b>must</b> select <b>NOT SHARED</b>.</p> <p>Click on <b>NEXT</b> and then select <b>FINISH</b>.</p> <p>Remove the <i>Software Utilities</i> CD-ROM from your CD-ROM drive and restore it in this documentation set.</p>
10	After finishing, you will have to restart your computer. The next steps are recommended, setting default values (like the media size you will have in your media cassette).	
11		<p>After your computer has been restarted, double click on <b>MY COMPUTER</b>, then double click on the folder <b>PRINTERS</b> and locate the (new) MINOLTA-QMS 2060 Print System icon.</p> <p>Click on the icon with the right mouse button.</p> <p>Select <b>PROPERTIES</b> (item 1). Then select <b>DEVICE SETTINGS</b>.</p>

<p><b>12</b></p>		<p>In this window you may select certain 'options' according to the model you purchased. Refer to the chapter <b>PRINTER CONFIGURATIONS</b> on page 5. Activate the appropriate option(s).</p> <p>After the selection(s), click on <b>OK</b> en finish the default settings.</p>
<p><b>13</b></p>	<p>Double click on <b>MY COMPUTER</b>, then double click on the folder <b>PRINTERS</b> and locate the (new) <b>MINOLTA-QMS 2060 Print System</b> icon. Click on the icon with the right hand side mouse button. Select <b>DOCUMENT DEFAULTS</b> (see step 11, item 2). Then select <b>ADVANCED</b>.</p>	
<p><b>14</b></p>		<p>In this window you may set various defaults. However, you are advised to at least select the media size you use.</p> <p>Click on <b>OK</b> and finish the settings.</p>

You have now installed the MINOLTA-QMS 2060 Print System Windows NT 4 driver.

**NOTE** You may also load other utilities available on the Software Utilities CD-ROM.

## 4.2. CONNECT TO A MACINTOSH

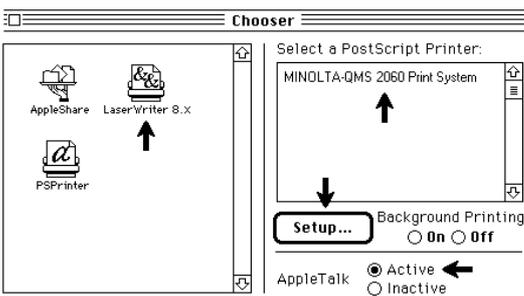
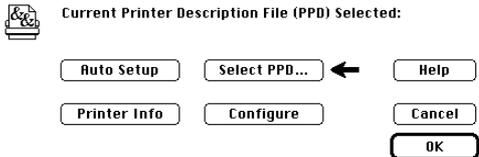
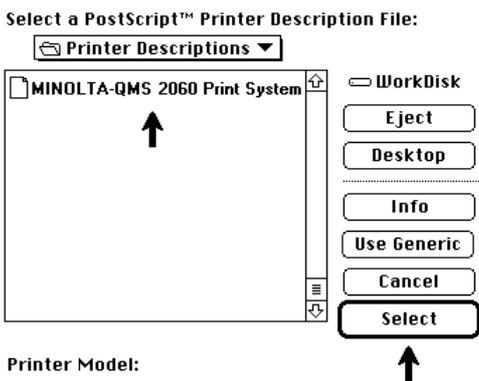
- **Step 1 - Connect your printer to the Macintosh**  
Attach your MINOLTA-QMS 2060 Print System to Macintosh by means of plugging in the RJ45 connector, attached to your Macintosh.
- **Step 2 - Install the driver.**

**NOTE** The standard method of connecting your printer to a Macintosh is loading the PPD (PostScript Printer Definition) file and then assign the PPD file to the selected printer.

### 4.2.1. INSTALL THE DRIVER FOR MACINTOSH

The following assumes that you are installing the MINOLTA-QMS 2060 Print System Macintosh driver for the first time.

STEP	SCREEN SHOWS	WHAT TO DO
1	Insert the <i>Software Utilities</i> CD-ROM into your CD-ROM drive. Open the CD-ROM icon.	
2	The install program will start up. Double click on <b>INSTALL</b> .	
3		<p>If needed, select the <b>DESTINATION</b>. Then click on <b>CONTINUE</b>.</p> <p>A list of printers appears. Select the MINOLTA-QMS 2060 Print System. Then click on <b>CONTINUE</b>.</p> <p>After the installation, a new folder <b>MINOLTA-QMS F</b> is downloaded on the destination.</p> <p>Remove the <i>Software Utilities</i> CD-ROM from your CD-ROM drive and store it in a safe place.</p>
4	Locate the (new) folder <b>MINOLTA-QMS F</b> . Open the folder <b>PPD</b> and select the MINOLTA-QMS 2060 Print System <b>PPD</b> file. Copy this ppd file into the folder <b>SYSTEM FOLDER/EXTENSIONS/PRINTER DESCRIPTIONS</b> .	

<p>5</p>		<p>Open the <b>CHOOSE</b> (under the Apple icon in the desktop). Make sure that <b>APPLETALK</b> is active. Select a printer driver, like LaserWriter 8.x.</p> <p>The chooser will now search for available printers attached. From the list select MINOLTA-QMS 2060 Print System and then select <b>SETUP</b>.</p>
<p>6</p>		<p>In the setup window, click on <b>SELECT PPD</b>.</p>
<p>7</p>		<p>From the folder <b>SYSTEM FOLDER/ EXTENSIONS/PRINTER DESCRIPTIONS</b>, select the MINOLTA-QMS 2060 Print System ppd file, you previously stored.</p> <p>Click on <b>SELECT</b>.</p> <p>Your Macintosh will now make a 'connection' between the selected ppd file and the MINOLTA-QMS 2060 Print System attached.</p> <p>Finish the Chooser.</p>

You have now installed the MINOLTA-QMS 2060 Print System Macintosh driver.

**NOTE** You may also load other utilities available on the Software Utilities CD-ROM.

### 4.3. CONNECT TO A NETWARE 4 OR 5 NDS ENVIRONMENT

Connecting your 2060 Print System to a NetWare environment does not necessarily invoke installing drivers. Making a connection is the process of creating objects on the NetWare Server and attaching the printer to this network. Installing a driver for the 2060 Print System is a process you perform on your workstation(s) attached to the NetWare environment.

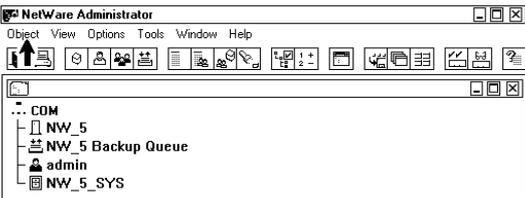
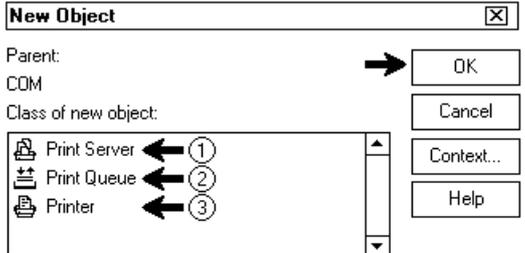
- **Step 1 - Install the Windows driver**  
Install the Windows driver (WIN Me/98/95, Windows 2000 or WIN NT 4) on all workstations as **local** (LPT) printer. See previous paragraphs.
- **Step 2 - Create Server objects**  
On the NetWare Server, you must create a Print Server object, a Printer Queue object and a Printer Name object.
- **Step 3 - Prepare the 2060 Print System**
- **Step 4 - Link the 2060 Print System (driver) to the NetWare network**

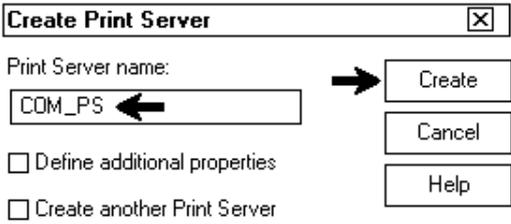
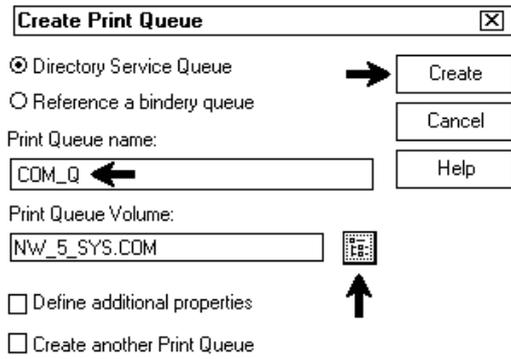
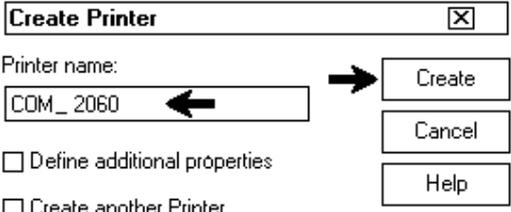
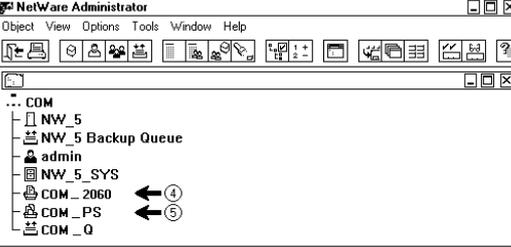
Throughout this paragraph we assume the following names :

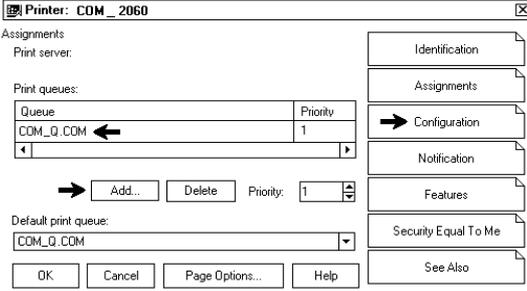
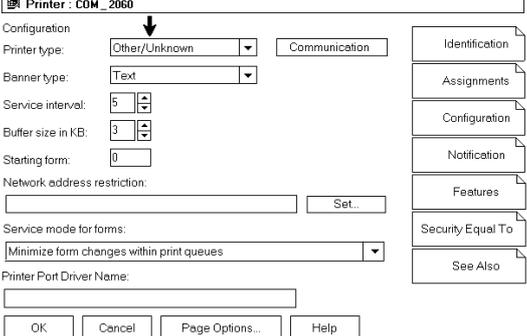
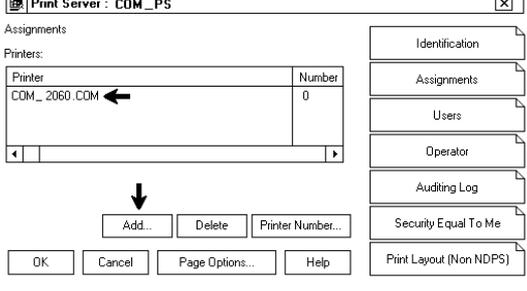
NetWare Server name       = **NW\_5**  
 Context name               = **COM**  
 Print Server name         = **COM\_PS**  
 Printer Queue name       = **COM\_Q**  
 Printer name               = **COM\_2060**

**NOTE** You must be logged on as network system administrator or you must have network system administrator privileges in order to create Server objects.

#### 4.3.1. CREATE SERVER OBJECTS

STEP	SCREEN SHOWS	WHAT TO DO
<b>1</b>		<p>Make a connection to the NetWare Server and open the <b>NWADMIN</b> utility (located in the <b>PUBLIC</b> directory on your Server). The main menu starts.</p> <p>Click on <b>OBJECT</b> and then click on <b>CREATE</b>.</p>
<b>2</b>		<p>In the <b>NEW OBJECT</b> window, select <b>PRINT SERVER</b> (item 1).</p> <p>Click on <b>OK</b>.</p>

3		<p>Enter a <b>PRINT SERVER</b> name (in our example COM_PS).</p> <p>Click on <b>CREATE</b>.</p>
4	<p>From the main menu, click on <b>OBJECT</b> and then on <b>CREATE</b>. In the <b>NEW OBJECT</b> window, select <b>PRINT QUEUE</b> (see step 2, item 2). Click on <b>OK</b>.</p>	
5		<p>Enter a <b>PRINT QUEUE</b> name (in our example COM_Q).</p> <p>Verify the appropriate <b>PRINT QUEUE VOLUME</b> (by using the Browse key).</p> <p>Click on <b>CREATE</b>.</p>
6	<p>From the main menu, click on <b>OBJECT</b> and then on <b>CREATE</b>. In the <b>NEW OBJECT</b> window, select <b>PRINTER</b> (see step 2, item 3). Click on <b>OK</b>.</p>	
7		<p>Enter a <b>PRINTER NAME</b> (in our example COM_2060).</p> <p>Click on <b>CREATE</b>.</p>
8		<p>In the main menu, locate the three new objects you previously created. We must now link these objects.</p> <p>Double click on <b>COM_2060</b> (item 4). In the <b>PRINTER</b> window, click on <b>ASSIGMENTS</b>.</p>

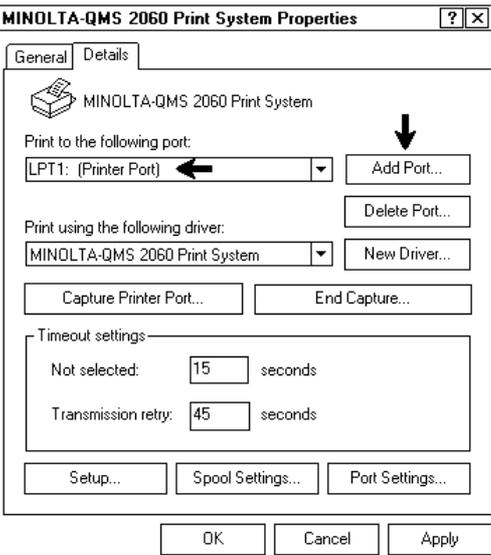
<p><b>9</b></p>		<p>Click on <b>ADD</b> and select a <b>QUEUE</b> (in our example COM_Q.COM).</p> <p>Then click on <b>CONFIGURATION</b>.</p>
<p><b>10</b></p>		<p>Select <b>OTHER/UNKNOWN</b> as printer type.</p> <p>Click on <b>OK</b>.</p>
<p><b>11</b></p>	<p>From the main menu, double click on <b>COM_PS</b> (see step 8, item 5). Then select <b>ASSIGNMENT</b>.</p>	
<p><b>12</b></p>		<p>Click on <b>ADD</b> and select a <b>PRINTER NAME</b> (in our example COM_2060.COM).</p> <p>Click on <b>OK</b>.</p> <p>In the main menu, close the utility by clicking on <b>OBJECT</b> and then <b>EXIT</b>.</p>

### 4.3.2. PREPARE THE 2060 PRINT SYSTEM

STEP	WHAT TO DO
1	You must now enter the full NetWare Server printer name you created on the NetWare Server into the printer in <b>PSEV CONTEXT</b> of the <b>NETWARE</b> menu, in our example : <b>NW_5▼COM_2060.COM</b> , where ▼ is a space. Remember that all <i>must</i> be entered in capitals!
2	There are several ways : a. By using the 2060 Print System control panel. This method is the least complex method, but is restricted to a string length of 48 characters. For details, refer to the CrownBook on the <i>Software Utilities</i> CD-ROM. b. By using Telnet (available as TCP/IP utility). This method is also restricted to a string length of 48 characters and you <i>must</i> have a TCP/IP connection to your 2060 Print System (therefore, you must also have an IP Address set in the printer, see previous paragraphs).
3	After the setting, reboot your 2060 Print System.

### 4.3.3. LINK THE 2060 PRINT SYSTEM TO THE NETWARE NETWORK

You must now make a physical connection between the NetWare network and the 2060 Print System by means of attaching the network cable. Then you must make a link between the NetWare Server and the WIN driver on your workstation(s).

STEP	SCREEN SHOWS	WHAT TO DO
1	On your workstation(s) double click on <b>MY COMPUTER</b> , then double click on the folder <b>PRINTER</b> and locate the 2060 Print System driver, you previously installed. Click on the driver icon with the right hand side mouse button and select <b>PROPERTIES</b> . In the <b>PROPERTIES</b> window select <b>DETAILS</b> .	
2		<p>You must (re-) direct the printer port to the NetWare network.</p> <p>Click on <b>ADD PORT</b>.</p>

3

**Add Port** [?] [X]

Select the type of port you want to add:

Network  
Specify the network path to the printer:  
NW\_5 ← Browse...

Other  
Click the type of port you want to add:  
[ ]

OK Cancel

In the **ADD PORT** window, use **BROWSE** and select the NetWare **SERVER NAME** (in our example **NW\_5**). Then click on **OK**.

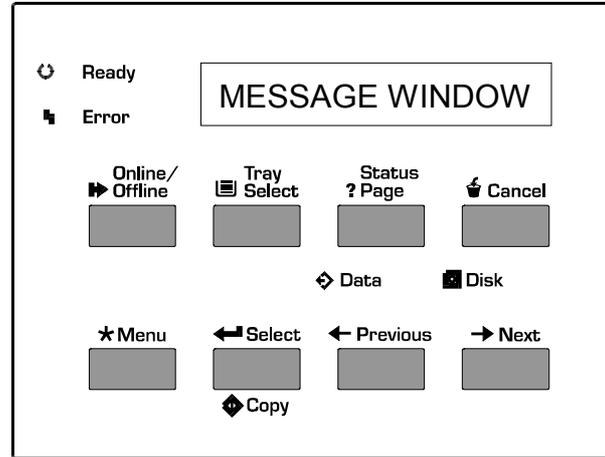
Finish the driver settings.

You have now connected your 2060 Print System to your NetWare 4 or 5 NDS network.

## 5. THE CONTROL PANEL

The control panel, located on the front of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention. The control panel consists of the following parts:

- Three indicators to provide printer status information.
- A message window to display status and configuration information.
- Eight keys to allow you to control the printer.



### 5.1. CONTROL PANEL INDICATORS

 <b>Ready</b>	<p>The <b>READY</b> light is</p> <ul style="list-style-type: none"> <li>• on when the system is online and ready.</li> <li>• blinking when the printer is warming up.</li> <li>• off when the system is offline or not ready or both.</li> </ul>
 <b>Error</b>	<p>The <b>ERROR</b> light is on when the printer requires operator intervention. This indicator is usually accompanied by a status message in the message window.</p>
 <b>Data</b>	<p>The <b>DATA</b> light is on when the printer is receiving data from one or both of the interfaces.</p>

### 5.2. CONTROL PANEL KEYS

 <b>Online/Offline</b>	<p>The <b>ONLINE/OFFLINE</b> key switches the printer from the online to the offline status. Press the key once to take the printer offline when it is online and once to return the printer to online when it is offline.</p>
 <b>Tray Select</b>	<p>The <b>TRAY SELECT</b> key allows you to select the active media input source. The printer must be offline to use the Tray Select key.</p>

<b>Status ? Page</b>	Use the <b>STATUS PAGE</b> key to print a listing of the current printer configuration.
 <b>Cancel</b>	Press the <b>CANCEL</b> key and select the Cancel mode. You may use this key while the printer is on line.

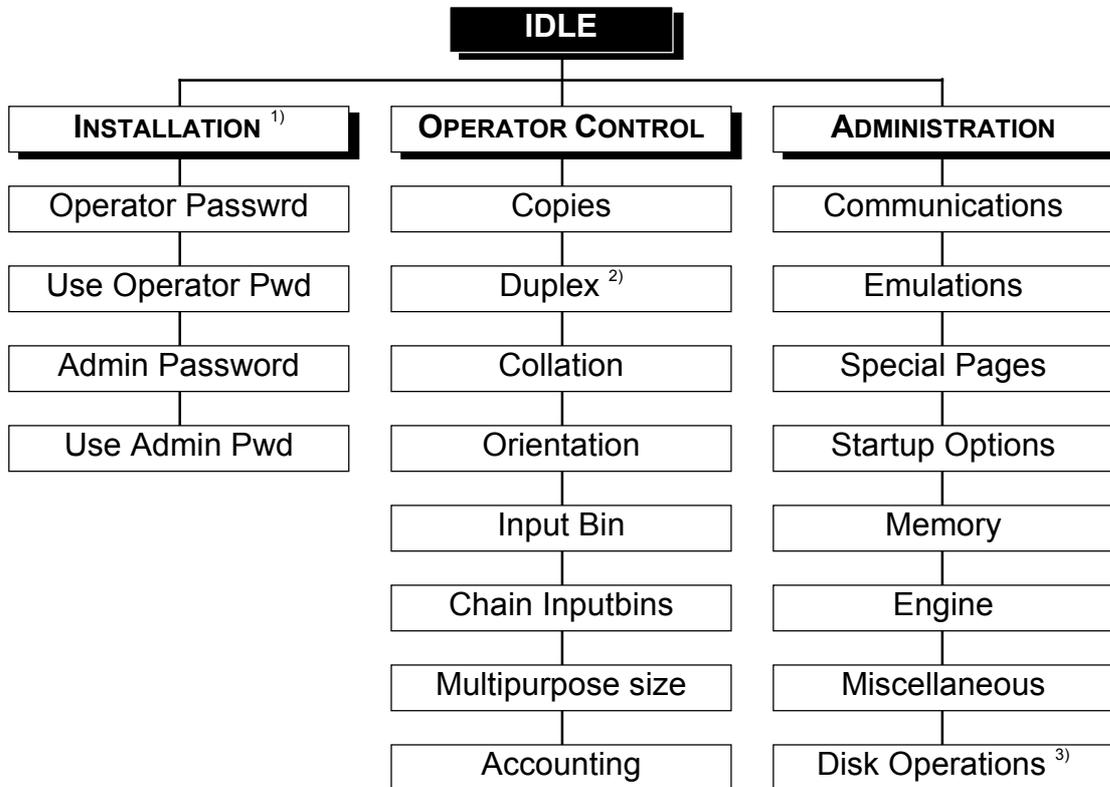
### 5.3. MENU KEYS

The Menu, Select, Previous, and Next keys are used to configure your printer. Before using any of these keys, press the Online/Offline key to take the printer offline.

<b>* Menu</b>	The <b>MENU</b> key gives you access to the configuration menu. First press the Online key to take the printer offline, and then press the Menu key to access the configuration menu.
 <b>Select</b>	Press the <b>SELECT</b> key to access a menu or to choose a displayed menu option.
 <b>Previous</b>	Press the <b>PREVIOUS</b> key to return to the previous selection or option for the current menu. When changing character information, use this key to return to the previous choice for the current input character.
 <b>Next</b>	Press the <b>NEXT</b> key to advance to the next selection or option in the current menu. When changing character information, use this key to advance to the next choice for the current input character.

## 6. CONTROL PANEL MENU

You may use this section as a quick reference for understanding and navigating the menu structure of the 2060 Print System.



### Notes:

1. The Installation menu is active only when the Security key is installed into the 'Key'-connector on the interface panel.
2. This sub menu is displayed only when the duplexing unit is installed (standard with model EX).
3. This sub menu is displayed only when the internal Hard Disk is installed (standard with models IS and EX).

## 7. TROUBLESHOOTING

Although your 2060 Print System is designed to be highly reliable, you may however, occasionally experience a problem. This chapter helps you to identify the cause of the problem and suggests possible solutions (this chapter shows the English keypad language). For detailed procedures, please refer to the 2060 Operation Manual. The printer shows errors in the message window.

The following table lists the error message, the cause and suggests possible solutions.

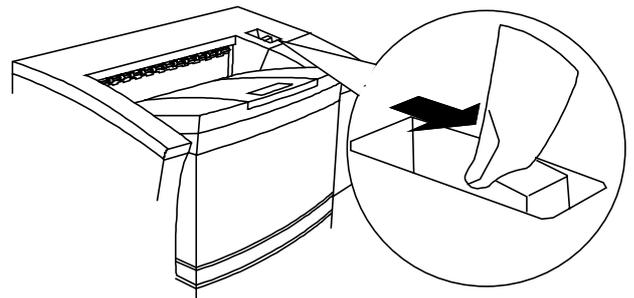
Error Message	Problem / Solution
ADJUST <inputbin> BIN	The specified input bin (cassette) is not inserted properly.
<inputbin> BIN JAM	Media has jammed while being pulled from the specified input bin.
CLOSE ENGINE DOOR(S)	The top cover is open and must be closed.
DUPLEXER ABSENT	The duplexing unit is not installed.
DUPLEXER JAM	Media has jammed while passing through the duplexer.
ILLEGAL DUPLEX PRINTING	Envelope printing was selected for the input bin and the duplexer as the output bin. The printer does not support printing duplexed envelopes.
ILLEGAL MANUAL FEED PRINTING	Media has been inserted in the manual feed slot before the media tray lifting mechanism is in the ready position.
OUTPUTBIN <outputbin> JAM	Media has jammed between the print engine and the specified output bin.
PUT <size> PAPER IN <inputbin> BIN	The specified input bin does not contain the specified media. The media size of a cassette is detected by sensors. The multipurpose tray media size is set by the control panel.
PUT <size> PAPER IN ANY BIN	Same as above, however, the Chain Inputbins mode is on and, therefore, the specified media size is accepted from any bin.nnn
TONER ABSENT	The Toner Cartridge is not installed.
TONER LOW	The toner is low. From the first appearance of this message, there is enough toner left to print approx. another 100 pages.
TRANSPORT JAM	Media has jammed while passing through the engine.

When print media jams occur, a message displays in the message window. Frequent jams in any area indicate that area should be checked, repaired, or cleaned. Frequent jams may also happen if you are using the wrong weight print media.

**NOTE** After clearing a jam, always open and close the top cover once before printing. Printing will not resume until you do this.

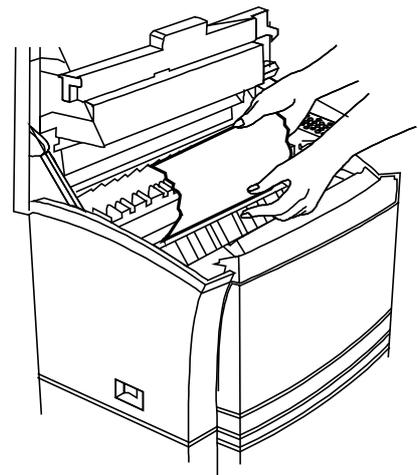
### 7.1. CLEARING MEDIA JAM INSIDE THE PRINTER (all models)

- 1 Open the Upper unit.

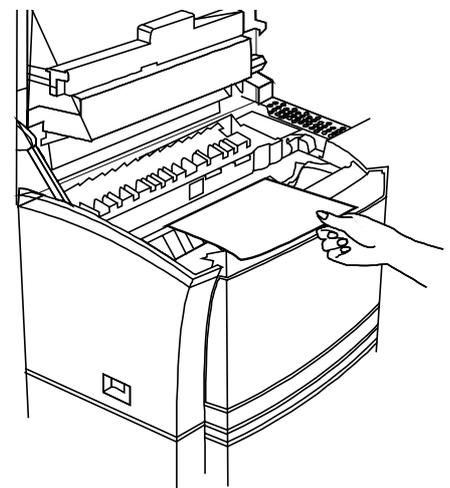


- 2 Remove the Toner cartridge.

- 3 If the edge of the media hasn't been fed in the fusing unit, open the front transport guide and pull the jammed media upward and then out.



- 4 If the edge of the media has been fed into the fusing unit, pull the jammed media forward and out.



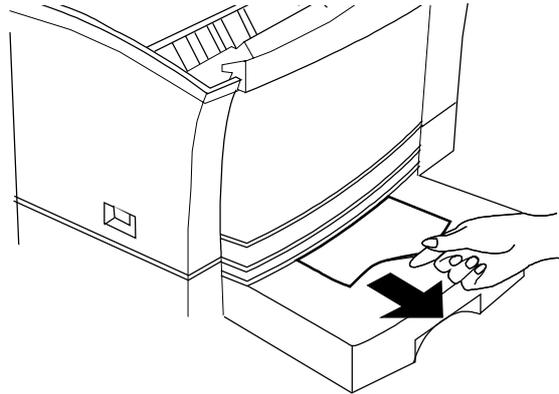
**NOTE** Toner may get on your hands because the image transferred to the media is not fixed. Also, pull the media forward and out, not down and out.

- 5 Reinstall the Toner cartridge and close the Upper unit.

## 7.2. CLEARING CASSETTE AREA JAMS (all models)

- 1 Open the Upper unit and remove the Toner cartridge.

- 2 Determine which media cassette is currently being used and remove it.

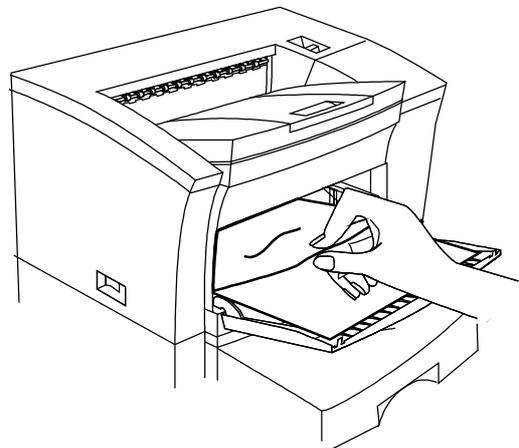


- 3 Check the cassette pick-up roller area and remove any jammed print media that remains outside the main unit.
- 4 Reinstall the toner cartridge, close the upper unit and reinstall the media cassette.

## 7.3. CLEARING MULTIPURPOSE TRAY AREA JAMS (all models)

- 1 Open the upper unit and remove the Toner cartridge.

- 2 Open the Multipurpose tray and pull out the jammed media.

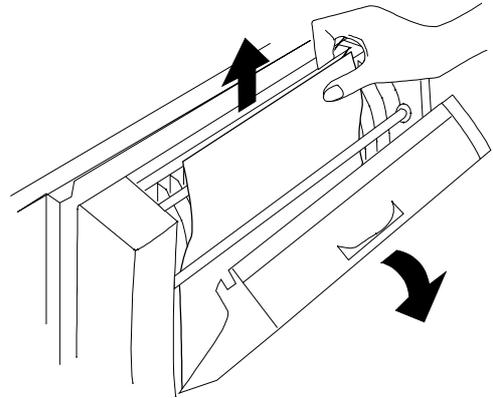


- 3 Reinstall the Toner cartridge and close the upper unit.

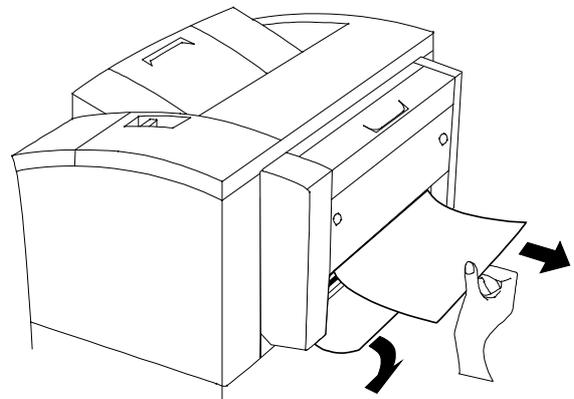
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**7.4. CLEARING A DUPLEXER MEDIA JAM (model EX only)**

- 1** Open the duplex cover and pull out the jammed media.



- 2** Open the maintenance cover and remove the jammed media.



- 3** Close the maintenance cover and the duplexer

## 8. OPTIONS AND SUPPLIES

### 8.1. OPTIONS

Part number	Description	Remark(s)
1710172-001	Media Cassette, Letter, 500 sh.	<sup>1)</sup>
1710195-001	Media Cassette, A4, 500 sh.	<sup>1)</sup>
1710173-001	Media Cassette, Universal, 250 sh.	<sup>1)</sup>
1710197-001	Lower Tray (for A4 cassette)	Including one A4 cassette.
1710199-001	Lower Tray (for Universal cassette)	Including one Universal cassette.
1710170-001	Duplexing Unit	Standard with 2060 model EX
2600344-100	LocalTalk interface	
2600489-100	Serial RS232 interface	
2600292-200	CrownNet Token-Ring interface	
2600436-100	DECnet-TCP/IP interface	10-Base-T adapter is built in.
4760003-901	Security key	Allows protecting of control panel settings by means of passwords.
26000381-300	BuzzBox lite	Remote warning system
2600200-540	Internal IDE Hard Disk	Standard with 2060 models IS and EX.
1420022-004	Memory extension 8 MB	<sup>2)</sup>
1420051-002	Memory extension 16 MB	<sup>2)</sup>
1420054-002	Memory extension 32 MB	<sup>2)</sup>

- Notes :** <sup>1)</sup> The 2060 EX is standard equipped with a 250 sheet Universal and 500 sheet A4 media cassette. The other models have a 250 sheet Universal cassette only. Ordering extra Media Cassettes may be convenient when changing media formats frequently.
- <sup>2)</sup> The 2060 Print System controller board has 4 SIMM slots in total and may be upgraded to a total of 128 Mbytes.

### 8.2. SUPPLIES

Part number	Description	Remark(s)
1710171-001	Toner Cartridge	The toner cartridge is for approx. 10,000 images with a 5% toner coverage.