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For the latest product information and manuals, we welcome you to visit our web site:

http://www.okidata.com

Year 2000 Compliance
All products currently sold by Okidata are Year 2000 Compliant. Each product contains information technology that accurately processes date and time data between the years 1999 and 2000. These products, when used in combination with products purchased from other manufacturers, whose products properly exchange date and time information, will accurately process the date and time. All future products are committed to meeting the same Year 2000 compliance.

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Conventions Used in this Setup Guide

Notes
Notes are set in regular type and contain general information.

Caution!
Cautions are set in bold italics and contain information regarding actions which could potentially cause personal injury or damage to the printer.

Important!
Important information is set in italics.
Your OKI printer has been carefully designed to give you years of safe, reliable performance. As with all electrical equipment, there are a few basic precautions you should take to avoid hurting yourself or damaging the printer:

• Read the setup and operating instructions in this manual carefully. Be sure to save it for future reference.
• Read and follow all warning and instruction labels on the printer itself.
• Unplug the printer before you clean it. Use only a damp cloth; do not use liquid or aerosol cleaners.
• Place your printer on a firm, solid surface. If you put it on something unsteady, it might fall and be damaged; if you place it on a soft surface, such as a rug, sofa, or bed, the vents may be blocked, causing it to overheat.
• To protect your printer from overheating, make sure no openings on the printer are blocked. Do not put the printer on or near a heat source, such as a radiator or heat register. If you put the printer in any kind of enclosure, make sure it is well ventilated.
• The printhead can get quite hot when it has been printing for a length of time. Do not touch the printhead until it has had a chance to cool off.
• Do not use your printer near water, or spill liquid of any kind into it.
• Be certain that your power source matches the rating listed on the back of the printer. If you are not sure, check with your dealer or with your local power company.
• Your printer has a grounded, 3-prong plug as a safety feature, and it will only fit into a grounded outlet. If you can not plug it in, chances are that you have an older, non-grounded outlet; contact an electrician to have it replaced with a grounded outlet. Do not use an adapter to defeat the grounding.
• The printer must be installed near a power outlet which will remain easily accessible.
• To avoid damaging the power cord, do not put anything on it or place it where it will be walked on. If the cord becomes damaged or frayed, replace it immediately.

• If you’re using an extension cord or power strip with the printer, make sure that the total of the amperes required by all the equipment on the extension is less than the extension’s rating. Generally, the total ratings of all equipment plugged into any one power line should not exceed 15 amperes. Don’t exceed this unless you know that the power line your equipment is plugged into has a rating above 15 amperes.

• Do not poke anything into the ventilation slots on the sides of the printer; you could get a shock or cause a fire.

• Aside from the routine maintenance described in Section 2 of the online Pacemark 4410 User’s Guide, don’t try to service the printer yourself; opening the cover may expose you to shocks or other hazards. Don’t make any adjustments other than those outlined in the Pacemark 4410 User’s Guide - you might cause damage requiring extensive repair work.

• If anything happens that indicates that your printer is not working properly or has been damaged, unplug it immediately and follow the procedures in Section 4 of your on-line Pacemark 4410 User’s Guide for having your printer serviced. These are some of the things to look for:
  - The power cord or plug is frayed or damaged.
  - Liquid has been spilled into the housing, or the printer has been exposed to water.
  - The printer has been dropped or its cabinet has been damaged.
  - The printer doesn’t function normally when you’re following the operating instructions.
Introduction

Pacemark 4410 Features

• Reliable, heavy-duty
  - Reliability: 15,000 hours MTBF
  - Duty Cycle: 35,000 pages/month

• Fast
  - 300 lines per minute
  - 1066 cps in High Speed Draft mode

• Capable of handling 10-part carbonless forms up to 0.03 inch (0.79 mm) thick

• Rugged, long-life printhead (400 million characters)

• Wide, 136-column format

• Network capable

• Software selectable or auto-switched rear- and front-feed paper paths

• Two user-settable menu configurations
Select a Location

- Firm, level surface capable of supporting approximately 95 lbs. (43 kg)
- Clearance to open cover
- At least four inches (102 mm) additional clearance on both sides for adequate ventilation
- Nearby power source
- Room temperature: 41 to 95°F (5 to 35°C)
- Relative humidity: 20 to 80%
- Away from direct sunlight
Unpacking

Getting Started

Caution! The Pacemark 4410 printer weighs approximately 95 lbs. (43 kg). Be very careful to take appropriate precautions when lifting it. We recommend that at least two people participate when lifting the printer.

Check the contents:

1 Printer  
2 Ribbon Cartridge  
3 Paper Guide  
4 Power Cord  
5 Cable (only included with 4410s which have Print Server pre-installed)

If anything is missing or damaged, contact your dealer immediately.

The printer interface cable is not supplied.
Documentation Provided

Setup Guide
The document you’re holding.

OKIcare™ Brochure
This brochure explains the Pacemark 4410 service enhancement programs available in the U.S. and Canada.

On-line User’s Guide
In addition to the printer drivers, the Pacemark 4410 CD contains

• Adobe® Acrobat Reader® 3.0 software

• User’s Guide Acrobat® file:

Recommended minimum requirements for viewing the on-line User’s Guide:
desktop area = 800 x 600 pixels
color palette = 256 colors.

User’s Guide Contents:
– The Front Panel
– Maintenance
– Troubleshooting
– Service Information
– Specifications
– Interfacing
– Command Summary
– Hex Dump Mode
– Character Sets

You can print any portion or all of the User’s Guide from Adobe Acrobat Reader.

If you would like a printed copy of the Pacemark 4410 User’s Guide, see the form at the back of this Setup Guide.
Installing the Printer

Getting to Know the Pacemark 4410

Front View

Rear View

Pacemark 4410 Setup Guide
Installation

Remove the Shipping Restraints

Save the shipping restraints and packing materials in case you ever need to ship the printer.

1. Remove the pieces of shipping tape, then peel the protective plastic film off the digital display.

2. Press on the area(s) marked “PUSH” and open the printhead access cover.

3. Remove the printhead shipping restraint and its retaining screw. Be sure to keep this restraint/screw: it is needed to lock the printhead in place should you ever need to move or ship the printer.
4. Remove the red rubber shipping restraints (1) at either end.

5. Open the tear bar cover, remove the shipping restraint and close the cover.

*Caution! Avoid the sharp, serrated tear bar.*
Install the Ribbon Cartridge

Prepare the Cartridge

1. Swing out the ribbon arms at either end of the cartridge until they snap into place.

2. Push in on the white plastic ribbon restraint (1) at the right end of the cartridge (this engages the ribbon take-up knob).

3. Pull out the red shipping restraint (1) and turn the blue knob (2) counterclockwise (in the direction of the molded arrows) to take up any excess slack in the ribbon.
Load the Cartridge

1. Move the printhead to the ribbon loading area (1).

   *Caution! Make sure the printer is turned off before proceeding.*

2. Install the ribbon cartridge in the printer: place the ribbon arms (1) over the metal tabs (2) at either end, then press down on the cartridge.
3. Feed the ribbon *behind* the printhead (1), *threading it around the black guides* (2) on either side of the printhead.

Be careful not to twist the ribbon: this can cause jams.

4. Turn the blue knob *counter* clockwise (in the direction of the molded-on arrows) to take up any slack in the ribbon.

*Caution! Do NOT turn the knob clockwise: this can cause the ribbon to jam.*

5. Close the printhead access cover.
Install the Paper Guide

Hold the paper guide as shown and place it in the slots on the back of the printer.

![Paper guide installation](image-url)
Connect to the Computer/Network

Connecting the Parallel Port

The parallel port is a standard IEEE-1284-compatible, 36-pin port. It requires a shielded IEEE-1284-compatible, bi-directional cable no longer than 6 ft. (1.8 m).

1. Open the port access cover.

2. Plug the interface cable into the parallel port and secure it with the wire loops.

3. Close the port access cover, and attach the other end of the cable to the computer and secure it with the screws.

Default settings for the parallel interface (see Section 1 of your on-line Pacemark 4410 User’s Guide for information on changing Menu settings):

- I Prime = Buffer Print
- Pin 18 = +5V
- Auto Feed XT = Invalid (Epson FX emulation only)
- BiDirection = Enable
Connecting the Serial Port

The serial port is a standard RS-232C, 25-pin port, with selectable baud rates of up to 38.4 Kbps. It requires a shielded RS-232C cable which is UL and CSA approved and no more than 50 feet (15 m) in length.

1. Open the port access cover and plug the interface cable into the serial port.

2. Secure the cable with the screws and close the port access cover.

3. Attach the other end of the cable to the computer and secure it with the screws.

Default menu settings for the serial interface (see Section 1 of your on-line Pacemark 4410 User’s Guide for information on changing Menu settings):

- Parity = None
- Baud Rate = 9600 BPS
- # Serial Bits = 8 Bits
- DSR Signal = Valid
- Protocol = Ready/Busy
- DTR Signal = Ready on Power Up
- Diagnostic Test = No
- Busy Time = 200 mS
- Busy Line = SSD-
Connecting the Ethernet® Port
(for Pacemark 4410 with Print Server Pre-Installed)
The installed print server is EtherNet 10/100BaseT.

The Ethernet port requires a cable with two twisted-wire pairs and an RJ45 plug for connection to the network. See the OkiLAN 6100e User’s Manual included with your printer for additional information.

1. Open the port access cover.

2. Plug one end of the short cable included with the printer into the network board and the other end of the cable into the parallel port.
3. Secure the cable at both ends, then close the port access cover.

4. Plug the RJ45 connector into the EtherNet connector on the OkiLAN board, then connect the opposite end of the cable into the network.
Connect to Power

1. Attach the power cord to the back of the printer.

2. Plug the opposite end into a suitable, grounded outlet.
Load Paper

Front Feed Continuous Forms

Paper Specifications: Front Feed

Maximum thickness: 0.031 inches (0.79 mm)

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Part</td>
<td>12 to 24 lb. (45 to 90 g/m²)</td>
<td>3* to 16.5 inches (76 to 419 mm)</td>
</tr>
<tr>
<td>Carbonless (1 + 9 max.)</td>
<td>9 to 11 lb. (34 to 41 g/m²)</td>
<td>3* to 16.5 inches (76 to 419 mm)</td>
</tr>
<tr>
<td>Interleaf (1 + 6 max)</td>
<td>9 to 14 lb. (34 to 52.5 g/m²)</td>
<td>3* to 16.5 inches (76 to 419 mm)</td>
</tr>
<tr>
<td>Labels</td>
<td>0.011 inch (0.28 mm) thick</td>
<td>3/4 to 15 inches (83 to 381 mm)</td>
</tr>
<tr>
<td>Envelopes</td>
<td>24 lb. (90 g/m²) max.</td>
<td>3 to 10 inches (76 to 254 mm)</td>
</tr>
<tr>
<td>Card Stock</td>
<td>100 lb. (375 g/m²) max.</td>
<td>3 to 8 inches (76 to 203 mm)</td>
</tr>
</tbody>
</table>

* For paper widths less than 5 inches (127 mm), remove the support between the tractors.

When using paper which is thicker than 7-part carbonless or its equivalent, you must enter the Menu mode, then go to the Impact Mode item in the Set-Up group and select High Impact Copy as the setting.

To load front-feed continuous forms:

Preparation

1. Position the printer at the front edge of the support (this promotes the unrestricted flow of paper into the printer), then place a stack of continuous forms below the printer. Recommended height of printer support, 29.5 inches (750 mm).
2. Pull the front access door out and lift it up into the open position.

3. Pull the lock levers forward to unlock the tractors, and position the tractors to roughly fit the width of the continuous forms you will be using.

The movement of the left tractor is limited to ensure that the paper covers the paper-out sensor.
4. Center the supports between the tractors.

**Left Tractor**

1. Open the left tractor pin cover, place the paper holes on the pins, then close the cover.

2. Move the left tractor to align the edge of the paper with the appropriate reference mark (1: this sets the print indent from the paper edge at 0 to 1.5 inches in 0.1-inch increments), then push the lock lever back.
**Right Tractor**
1. Open the right tractor pin cover, place the paper holes over the pins and close the cover.

2. Fine tune the position of the right tractor to *center the holes in the paper on the pins of both tractors*, then push the lock lever back.

**Finish Up**
1. Make sure that the feed stack of paper is directly aligned (left-right) with its entry point into the tractors: this will promote a smooth flow of paper into the printer.

2. Close the front access door.

3. Press **FF/LOAD** to load the paper into the print path.
The printer is set to a default front-feed paper width of 13.6 inches (136 columns). If you are using 9-inch paper, you must enter the printer menu and change the setting to 8 inches (80 columns) to avoid printing on the platen and damaging the printhead. Other paper widths must be set using your software application.

To change the menu setting to 8 inches, turn the printer on, then:

a. Press **MENU**.

b. Press **GROUP** until **Front Feed** appears on the display.

c. Press **ITEM** until **Page Width** appears on the display.

d. Press **OPTION** once to switch to the 8-inch setting.

An asterisk (*) appears next to the setting.

e. Press **STORE** to save the 8-inch setting.

f. Press **MENU** to exit the menu mode and save the new setting.

The Top of Form (TOF) for the front feed paper path is set at the factory to 0.35 inch (9 mm) down from the top of the page. If this setting does not suit your application, you will need to set the Top of Form: see “Setting Top of Form” in the Front Panel Overview section of this Setup Guide.
Rear Feed Continuous Forms

Paper Specifications: Rear Feed
Maximum thickness: 0.014 inch (0.36 mm)

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Part</td>
<td>12 to 24 lb. (45 to 90 g/m²)</td>
<td>3&quot; to 16.5 inches (76 to 419 mm)</td>
</tr>
<tr>
<td>Carbonless</td>
<td>9 to 11 lb. (34 to 41 g/m²)</td>
<td>3&quot; to 16.5 inches (76 to 419 mm)</td>
</tr>
<tr>
<td>(1 + 5 max.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interleaf</td>
<td>9 to 14 lb. (34 to 52.5 g/m²)</td>
<td>3&quot; to 16.5 inches (76 to 419 mm)</td>
</tr>
<tr>
<td>(1 + 3 max)</td>
<td>9 lb. (34 g/m²) carbon</td>
<td></td>
</tr>
</tbody>
</table>

* For paper widths less than 4 inches (102 mm), remove the support between the tractors.

When using paper which is thicker than 7-part carbonless or its equivalent, you must enter the Menu mode, then go to the **Impact Mode** item in the **Set-Up** group and select **High Impact Copy** as the setting.

To load rear-feed paper:

**Preparation**

1. Position the printer at the rear edge of the support (this promotes the unrestricted flow of paper into the printer), then place a stack of continuous forms below the printer. Recommended height of printer support, 29.5 inches (750 mm).
2. Push on the rear-feed access cover tabs and push the cover back, then push on the back access door to release it.

3. Pull the lock levers forward to unlock the tractors, and position the tractors to roughly fit the width of the continuous forms you will be using.

The movement of the right tractor (as viewed from the back of the printer) is limited to ensure that the paper covers the paper-out sensor.
4. Center the support between the tractors, then position the paper guide (1) over the support (2).

Right Tractor (viewed from the back of the printer)
1. Open the tractor pin cover, place the paper holes on the pins, then close the cover.

2. Move the tractor to align the edge of the paper with the appropriate reference mark (1: this sets the print indent from the paper edge at 0 to 1.5 inches in 0.1-inch increments), then push the lock lever back.
Left Tractor (viewed from the back of the printer)
1. Open the tractor cover, place the paper holes over the pins and close the cover.

2. Fine tune the position of the right tractor to center the paper holes on the pins of both tractors, then push the right lock lever back.

Finish Up
1. Make sure that the feed stack of paper is directly aligned (left-right) with its entry point into the tractors: this will promote a smooth flow of paper into the printer.

2. Close the rear-feed access cover and the back access door.

3. Press **FF/LOAD** to load the paper into the print path.

   The printer is set to a default rear-feed paper width of 13.6 inches (136 columns). If you are using 9-inch paper, you must enter the printer menu and change the setting to 8 inches (80 columns) to avoid printing on the platen and
damaging the printhead. Other paper widths must be set using your software application.

To change the menu setting to 8 inches, turn the printer on, then:

a. Press MENU.
b. Press GROUP until Rear Feed appears on the display.
c. Press ITEM until Page Width appears on the display.
d. Press OPTION once to switch to the 8-inch setting.
e. Press STORE to save the 8-inch setting.
f. Press MENU to exit the menu mode.

The Top of Form (TOF) for the rear feed paper path is set at the factory to 0.35 inch (9 mm) down from the top of the page. If this setting does not suit your application, you will need to set the Top of Form: see “Setting Top of Form” in the Front Panel Overview section of this Setup Guide.

Switching Paper Paths

The Pacemark 4410 is set at the factory for software control of the paper path. You can enter the menu and change this so that the printer will automatically switch to the alternate path when paper runs out. To do this:

1. With the printer turned on, press MENU.
2. Press GROUP until Set-Up appears on the display.
3. Press SHIFT + ITEM until Auto Path appears on the display.
4. Press OPTION. Valid will appear on the display.
5. Press STORE. An asterisk (*) will appear next to Valid.
6. Press MENU to exit the menu and engage the settings.
Changing Paper Paths Manually
To change paper paths manually:

1. Press PARK.
   *The current paper retracts from the paper path.*
2. Press PATH.
   *The alternate paper automatically loads into the paper path.*

Run the Self Tests
Font Sample Test
To print a sample of the available fonts:

1. Make sure continuous form paper at least 8 inches wide is loaded and that the printer is turned off.
2. Press and hold LF (1) while turning the printer on.

To stop the test before it is complete, press ON-LINE/RESET.
Rolling ASCII Test

To print a Rolling ASCII test:

1. Make sure that continuous form paper at least 9 inches wide is loaded and that the printer is turned off.

   Caution! If you have 9-inch paper loaded, be sure that the Page Width menu setting for the paper path you are using is changed from 13.6 inches to 8 inches before starting the Rolling ASCII test. If you don’t, the printhead could be damaged.

2. Press and hold PATH/TOF (1) while turning the printer on.

To stop the test, press ON-LINE/RESET.
Select an Emulation

Your printer has three emulations:

• Epson® FX
• IBM® Proprinter III (PPSII): the factory setting
• OKI® Microline® Standard

Changing Emulations

1. Press **MENU** to enter the menu mode.

   *The display reads*
   
   MENU GROUP
   Printer Control

2. Press **ITEM**.

   *The display reads*
   
   Printer Control
   Emulation Mode

3. Press **OPTION**.

   *The display reads*
   
   Emulation Mode
   IBM-PPR *

4. Press **OPTION** until the emulation you wish to use appears on the second line of the display.

5. Press **STORE** to save the setting.

   *An asterisk (*) appears next to the setting.*

6. Press **MENU** to exit the menu mode and save the new setting.
The Pacemark 4410 CD
Included on the Pacemark 4410 CD:
• Pacemark 4410 Printer Drivers
• Pacemark 4410 On-Line Registration Program
• Pacemark 4410 User’s Guide
• Adobe® Acrobat® Reader® 3.0 Software

Printer Drivers
The Pacemark 4410 CD includes printer drivers for printing in the following Windows® environments:
• Windows 98  • Windows NT 4.0
• Windows 95  • Windows 3.1x

If you are using MS-DOS® or another non-Windows operating system, select the IBM® Proprinter III or Epson® FX printer driver in your software application.

On-Line Registration Program
You have several options for registering your printer:
• via the Internet: http://www.okidata.com
• via modem, using the On-Line Registration program
• via fax, using the On-Line Registration program
• via mail, using the registration sheet included with the printer

If you wish to register through the Internet or by mail, you do not need to load the On-Line Registration Program.
User’s Guide
The Pacemark 4410 CD also includes the OKI Pacemark 4410 On-Line User’s Guide, as well as the Adobe Acrobat Reader 3.0 software required to view the User’s Guide.

When installed, the User’s Guide takes up approximately 2 MB of space on your hard drive. If you prefer, you can view the User’s Guide directly from the CD.

If you don’t already have it installed, Acrobat Reader requires 10 MB minimum for Windows 95, 98 and NT 4.0; 5 MB minimum for Windows 3.1x.

Printing the OKI Pacemark 4410 On-Line User’s Guide
With the User’s Guide open in Acrobat Reader:
1. Select File, Print.
2. Choose the page(s) to print.
3. Make sure that Level 2 only is selected under PostScript Options.
4. Click Setup and confirm the printer and its settings, then click OK.
5. Click OK to print.

Installation for Windows 95/98
To Install the Pacemark 4410 Printer Driver on Windows 95/98

Minimum System Requirements for Windows 95/98:
CPU: i486DX, 66 MHz (90 MHz pentium recommended)
RAM: 8 MB (16 MB recommended)
Empty hard disk space:
2 MB for use by print spooler
2 MB for User’s Guide (optional)
10 MB for Adobe Acrobat Reader Software (optional)
These instructions assume “D” is the location of your CD-ROM drive.

1. Close any open applications.
2. Make sure that the printer is connected to the PC and that the printer is turned on.
3. Insert the Pacemark 4410 CD in your CD-ROM drive.
4. Click the Start button on the Windows taskbar, then select Run.
5. Type D:/install, then click OK.
6. Click Printer Driver.
7. Follow the instructions on your screen. When you are prompted for the printer:
   a. Click Have Disk.
   b. Type one of the following paths in the Copy manufacturer’s files from box:
      For Windows 95,
      type D:setup\win95\English\drivers\oemsetup.inf
      For Windows 98,
      type D:setup\win98\English\drivers\oemsetup.inf
   c. Click OK.
      You will see PM4410 highlighted.
8. Click Next.
9. Continue with the installation following the instructions on your screen.
To Install the On-Line Registration Program in Windows 95/98

These instructions assume “D” is the location of your CD-ROM drive.

1. Close any open applications.
2. Make sure that the printer is connected to the PC and that the printer is turned on.
3. Insert the Pacemark 4410 CD in your CD-ROM drive.
4. Click the Start button on the Windows taskbar, then select Run.
5. Type D:/install, then click OK.
6. Click On-Line Registration.
7. Follow the instructions on your screen.

To Run the On-Line Registration Program in Windows 95/98

1. Click the Start button on the Windows taskbar.
2. Choose Programs → PM4410.
3. From the submenu, click OKI Pacemark 4410 On-Line Registration.
4. Follow the instructions on your screen.

To Install the On-Line Pacemark 4410 User's Guide in Windows 95/98

First, make sure Adobe Acrobat Reader 3.0 is installed

To view the on-line Pacemark 4410 User’s Guide, you must have Adobe Acrobat Reader version 3.0 installed on your computer. Acrobat Reader is provided on the Pacemark 4410 CD. If you already have Acrobat Reader 3.0 installed, you do not need to reinstall it.
To install Acrobat Reader 3.0 in Windows 95/98:

These instructions assume “D” is the location of your CD-ROM drive.

1. Make sure all applications are closed and the Pacemark 4410 CD is in your CD-ROM drive.
2. Click Start on the Windows task bar, then click Run.
3. For Windows 95, type D:\setup\win95\acrobat\ar32e30.exe
   For Windows 98, type D:\setup\win98\acrobat\ar32e30.exe
4. Click OK.
5. Follow the instructions on your screen.

Next, install the On-Line User’s Guide in Windows 95/98

These instructions assume “D” is the location of your CD-ROM drive.

1. Close any open applications.
2. Make sure that the printer is connected to the PC and that the printer is turned on.
3. Insert the Pacemark 4410 CD in your CD-ROM drive.
4. Click the Start button on the Windows taskbar, then select Run.
5. Type D:/install, then click OK.
7. Follow the instructions on your screen.

Viewing the On-Line Pacemark User’s Guide in Windows 95/98
1. Click the Start button on the Windows taskbar.
2. Choose Programs → PM4410.
Installation for Windows NT 4.0

Minimum System Requirements for Windows NT 4.0:

CPU: i486DX, 66 MHz (90 MHz pentium recommended)
RAM: 24 MB (32 MB recommended)
Empty hard disk space:
2 MB for use by print spooler
2 MB for User’s Guide (optional)
10 MB for Adobe Acrobat Reader Software (optional)

To Install the Pacemark 4410 Printer Driver in Windows NT 4.0

These instructions assume “D” is the location of your CD-ROM drive.

1. Close any open applications.
2. Make sure that the printer is connected to the PC and that the printer is turned on.
3. Insert the Pacemark 4410 CD in your CD-ROM drive.
4. Click the Start button on the Windows taskbar, then select Run.
5. Type D:/install, then click OK.
6. Click Printer Driver.
7. Follow the instructions on your screen. When you are prompted for the printer:
   a. Click Have Disk.
   b. Type D:\setup\nt40\English\drivers\printer.inf in the Copy manufacturer’s files from box.
   c. Click OK.
      You will see PM4410 highlighted.
8. Click Next.
9. Continue with the installation following the instructions on your screen.
To Install the On-Line Registration Program in Windows NT 4.0

These instructions assume “D” is the location of your CD-ROM drive.

1. Close any open applications.
2. Make sure that the printer is connected to the PC and that the printer is turned on.
3. Insert the Pacemark 4410 CD in your CD-ROM drive.
4. Click the Start button on the Windows taskbar, then select Run.
5. Type D:/install, then click OK.
6. Click On-Line Registration.
7. Follow the instructions on your screen.

To Run the Electronic Registration Program in Windows NT 4.0

1. Click the Start button on the Windows taskbar.
2. Choose Programs → PM4410.
3. From the submenu, click OKI Pacemark 4410 On-Line Registration.
4. Follow the instructions on your screen.
To Install the On-Line Pacemark 4410 User's Guide in Windows NT 4.0

First, make sure Adobe Acrobat Reader 3.0 is installed

To view the on-line Pacemark 4410 User's Guide, you must have Adobe Acrobat Reader version 3.0 installed on your computer. Acrobat Reader is provided on the Pacemark 4410 CD. If you already have Acrobat Reader 3.0 installed, you do not need to reinstall it.

To install Acrobat Reader 3.0 in Windows NT 4.0:

These instructions assume “D” is the location of your CD-ROM drive.
1. Make sure all applications are closed and the Pacemark 4410 CD is in your CD-ROM drive.
2. Click Start on the Windows task bar, then click Run.
3. Type D:\setup\nt40\acrobat\ar32e30.exe.
4. Click OK.
5. Follow the instructions on your screen.

Next, Install the On-Line User's Guide in Windows NT 4.0

These instructions assume “D” is the location of your CD-ROM drive.
1. Close any open applications.
2. Make sure that the printer is connected to the PC and that the printer is turned on.
3. Insert the Pacemark 4410 CD in your CD-ROM drive.
4. Click the Start button on the Windows taskbar, then select Run.
5. Type D:/install, then click OK.
7. Follow the instructions on your screen.
Viewing the On-Line Pacemark User's Guide in Windows NT 4.0
1. Click the Start button on the Windows taskbar.
2. Choose Programs → PM4410.

Installation for Windows 3.1x

Minimum System Requirements for Windows 3.1x:
- CPU: i486DX, 66 MHz (90 MHz pentium recommended)
- RAM: 8 MB (16 MB recommended)
- Empty hard disk space:
  - 2 MB for use by print spooler
  - 2 MB for User’s Guide (optional)
  - 5 MB for Adobe Acrobat Reader Software (optional)—12 MB recommended

To Install the Pacemark 4410 Printer Driver and On-Line Registration Program in Windows 3.1x

These instructions assume “D” is the location of your CD-ROM drive.

1. Close any open applications.
2. Insert the Pacemark 4410 CD in your CD-ROM drive.
3. Click File → Run.
4. Type D:install, then click OK.
5. Click On-Line Registration/Printer Driver.
6. Follow the instructions on your screen.
To Run the On-Line Registration Program in Windows 3.1x
To run the On-Line Registration program:
1. Double click the PM4410 group from the Program Manager.
2. Double click the OKI Pacemark 4410 On-Line Registration icon.
3. Follow the instructions on your screen.

To Install the On-Line Pacemark 4410 User's Guide in Windows 3.1x
First, make sure Adobe Acrobat Reader 3.0 is installed

To view the on-line Pacemark 4410 User’s Guide, you must have Adobe Acrobat Reader version 3.0 installed on your computer. Acrobat Reader is provided on the Pacemark 4410 CD. If you already have Acrobat Reader 3.0 installed, you do not need to reinstall it.

To Install Acrobat Reader 3.0 in Windows 3.1x:
These instructions assume “D” is the location of your CD-ROM drive.
1. Make sure all applications are closed and the Pacemark 4410 CD is in your CD-ROM drive.
2. Click File → Run.
3. Type D:\setup\win31\acrobat\ar16e30.exe.
4. Click OK.
5. Follow the instructions on your screen.
Next, install the Pacemark 4410 User's Guide in Windows 3.1x

These instructions assume “D” is the location of your CD-ROM drive.

1. Close any open applications.
2. Insert the Pacemark 4410 CD in your CD-ROM drive.
3. Click File → Run.
4. Type D:\install, then click OK.
6. Follow the on-screen instructions.

Viewing the On-Line Pacemark User's Guide in Windows 3.1x

1. Double click the PM4410 group from the Program Manager.
Front Panel Overview

Print Mode

**Power Light:** indicates that printer is turned on.

**MENU Button:** Press to enter Menu mode.

**Alarm Light:**
- **On:** indicates printer error, such as paper out.
- **Blinking:** Indicates printer error such as ROM/RAM error, spacing error, etc.

**Status Light:**
- **On:** indicates that printer is ready to receive data.
- **Blinking:** Printer is in Print Suppress mode.

**GROUP/ITEM/OPTION Buttons:**
For use in Menu Mode only

**STORE Button:**
For use in Menu Mode only

**ON-LINE/RESET Button:**
Press to switch printer on/off line.
*With SHIFT,* press and hold to reset printer.

Pacemark 4410 Setup Guide  E-47
**CONFIG Button:**

With printer off line and no data being sent:

Press to switch between preset menu configurations CFG1 and CFG2.

For more information on the preset menu configurations, see Section 1 of the OKI Pacemark 4410 On-Line User's Guide.

---

**PATH/TOF Button:**

With printer off line:

Press to switch paper paths

Hold to set current paper position as Top of Form

---

**SHIFT Button:**

Press and hold to engage alternate (lower) button functions.

---

**LF/Micro Feed Down Button:**

Press to execute line feed

With **SHIFT**, press for reverse fine line feeds (1/144" increments)

---

**PARK Button:**

Press to park form currently in paper path.

---

**TEAR Button:**

Press to move form up to tear position.

---

**FF/LOAD/Micro Feed Up Button:**

Press to move paper to next Top of Form

If paper is *parked*, press to feed paper into print position

With **SHIFT**, press for fine line feeds (1/144" increments)
Menu Mode

**MENU Button:**
Press to exit Menu mode.
*With SHIFT,* press to print out a listing of the current menu settings.

**ON-LINE/RESET Button:**
Press to exit Menu mode.

**STORE Button:**
Press to save the new setting.

**GROUP Button:**
Press to page through available groups in the menu.
*With SHIFT,* press to page backwards through available groups.

**OPTION Button:**
Press to page through available setting values for the selected item.
*With SHIFT,* press to page backwards through available setting values.

**ITEM Button:**
Press to page through available items for the selected group.
*With SHIFT,* press to page backwards through available items.
**Top of Form (TOF)**

The red line (1) on the paper shield indicates where the Top of Form (TOF) is located.

The TOF must be set separately for each paper path. You can store up to two TOFs for each path: one under CFG1 and one under CFG2. See Section 1 of the on-line *Pacemark 4410 User’s Guide* for more information.

The factory setting for TOF is 0.35 inch (9 mm) down from the top of the page.
Setting the TOF

The TOF can be set with the printhead access cover open.

To set the TOF in fine increments over a limited area:

1. To move the TOF up on the page, press and hold **SHIFT** (1) while pressing **LF/Micro Feed Down** (2, paper moves down).
2. To move the TOF down on the page, press and hold **SHIFT** (1) while pressing **FF/LOAD/Micro Feed Up** (3, paper moves up).
3. To engage the position you have set, press and hold **SHIFT**, then press **PATH/TOF**.

Resetting TOF to the Factory Setting

To reset the TOF to the factory setting, turn the printer off, then press and hold **GROUP** and **OPTION** (1) while turning the printer back on.
**Temporarily Changing the Print Start Position**

To set the print start position lower for one page only: press **LF** (1) until you reach the position on the paper where you want the printing to start.
Preset Menu Configurations

Once you have made changes in Menu settings, you can save them in one of two preset storage areas — CFG1 and CFG2 — and use them instead of the factory settings.

To switch back and forth between stored settings:

1. Press ON-LINE/RESET.
   *The printer goes off line.*

2. Press CONFIG.
   *The CFG designation on the display changes.*

3. Press ON-LINE/RESET.
   *The printer goes back on line with the new CFG showing on the display.*

For information on how to store Menu settings as CFG1 or CFG2, see Section 1 of your on-line Pacemark 4410 User’s Guide.

Tear Feature

Use this feature to advance continuous forms up to the tear position by pressing TEAR (1).
Forms Tear-Off Feature

*Caution! Never engage Forms Tear-Off when printing on labels.*

Forms Tear-Off automatically moves continuous forms up to the tear position after the interval you select, then moves it back down again for printing when the printer receives more data.

This feature is normally turned off. To activate it:

1. Press **MENU** to enter the menu mode.
2. Press **GROUP** until the paper path you are using appears on the second line of the display.
3. Press **ITEM** until Form Tear-Off appears on the display.
4. Press **OPTION** until the time interval setting you wish to select appears.
5. Press **STORE** to save that setting.
6. Press **MENU** to exit the menu mode.

Some programs pause occasionally while sending data. If the pause is too long, the paper will advance to the tear-off position until more data is received. This extra paper movement can cause uneven print registration in graphics. If you have this problem, use the menu to turn off the Forms Tear-Off feature.
Adjusting the Tear-Off Position

The tear-off positions for the front and rear paper paths are set independently.

To adjust the tear-off position for the paper currently in the paper path:

- Hold SHIFT (1) and press FF/LOAD/Micro Feed Up (2) repeatedly to move the continuous forms up
- Hold SHIFT (1) and press LF/Micro Feed Down (3) repeatedly to move the continuous forms down.

Paper Park Feature

When you press PARK (1), the continuous forms currently in the print path retract out of the path and are placed in the parked position (remaining loaded on the tractors, ready to feed in again) and the ALARM light comes on.

To reload the forms, press FF/LOAD.

To load the forms from the alternate paper path, press PATH/TOF.
Specifications

For additional specifications, see Appendix A in the on-line Pacemark 4410 User’s Guide.

Electrical Specifications

Voltage: 90 to 264 Volts, AC, universal

Frequency: 50 or 60 Hz, +/- 2%

Power Consumption

Idling: Less than 15 watts

Local Test: About 295 watts

Environmental Specifications

Temperature

Operating: 41 to 95°F (5 to 35°C)

Storage: 14 to 109°F (-10 to +43°C)

Relative Humidity

Operating: 20 to 80% RH,
maximum wet bulb temperature 86°F (30°C)

Storage: 5 to 95% RH,
maximum wet bulb temperature 104°F (40°C)
Okidata, division of Oki America, Inc. (Okidata) warrants this printer to be free from defect in material and workmanship and will remedy any such defect according to the terms of this Limited Warranty. This Limited Warranty extends to the original purchaser only. This Limited Warranty does not extend to network setup, application conflicts, or consumable items, including but not limited to ribbons, fuses, etc.

Okidata will repair (or at its option, replace) at no charge, any defective component(s) of the printer for one (1) year from the date of purchase. This Limited Warranty extends to the original purchaser only.

**On-Site Repair**

On-Site repair is available in the United States and Canada only.

Okidata will, for a period of one (1) year from the date of purchase, repair (or replace at its option) on-site at the original purchaser’s facility within a 50 mile radius of an Authorized Service Center and without charge, any defective component(s) of the Pacemark 4410, provided that this warranty service is performed by an authorized Okidata service center or authorized third-party service organization.

To make request or claim for service under this Limited Warranty, contact your Okidata Authorized Dealer, authorized third-party service provider, or Okidata.
A written receipt for the product, showing the date of purchase, dealer’s name, and serial number of the Pacemark 4410 printer, must accompany any request or claim for work to be performed under this Limited Warranty.

This Limited Warranty shall not apply if the product has been damaged due to abuse, misuse, misapplication, accident, or as a result of service or modification by any other than an authorized Okidata service center.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE ON THE FACE HEREOF AND DESCRIBED ABOVE. NO WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXTEND BEYOND THE RESPECTIVE WARRANTY PERIOD DESCRIBED ABOVE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

OKIDATA SHALL NOT BE RESPONSIBLE OR LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSS ARISING FROM THE USE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

Additional information on obtaining service under this Limited Warranty is available by contacting the Okidata dealer from whom the product was purchased, by contacting Okidata directly at 1-800-OKIDATA (U.S. and Canada, English only) or at 1-609-222-5276 (Spanish only), or by contacting one of the service locations listed below.
This Limited Warranty applies to this printer. However, the procedure for obtaining service may vary outside the continental United States. Contact your Okidata dealer for such warranty service information. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
Declaration of Conformity
We declare here that this device has been tested and found to comply with the FCC Standards, Part 15 Class B.

Model Name: Dot Matrix Printer PM4410
Model Number: D21001A

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Oki Data Corporation
Takasaki Campus
8-1, Futaba-cho, Takasaki-shi, Gunma-ken, Japan
(Signed)
Isao Suda
Dated: October 5, 1998
for
Okidata, Div. of Oki America, Inc.
2000 Bishops Gate Blvd. Mt. Laurel, NJ 08054-4620

Federal Communications Commission (FCC)
Radio Frequency Interference (RFI) Statement
WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This
equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Plug the unit into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

It is the responsibility of the user to obtain the required shielded cable in order to ensure compliance of this equipment with FCC regulations.

Changes or modifications not expressly approved by Okidata may void your authority to operate this device.

**Industry Canada (IC) Radio Interference (RI) Statement**

This OKI apparatus complies with the Class B limits for radio interference as specified in the Industry Canada Radio Interference Regulations.

**European Union Council of the European Communities Statement of Electromagnetic Conformance**

Material Safety Data Sheet

MSDS No. 58064401
for Pacemark 4410
Black Ribbon, P/N 40629302

For more information, contact Okidata at:
2000 Bishops Gate Blvd.
Mount Laurel, NJ 08054-4620

For Emergency Information, call 1-800-OKIDATA (US and Canada only).

Emergency First Aid Procedures

<table>
<thead>
<tr>
<th>Emergency</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact occurs with eyes.</td>
<td>Flush eyes with large quantities of water for 15 minutes, keeping eyelids open with fingers. Seek medical attention.</td>
</tr>
<tr>
<td>Contact occurs with skin.</td>
<td>Wash thoroughly with soap and water.</td>
</tr>
</tbody>
</table>

Hazardous Ingredients

Carbon Black (1.0% by weight)
CAS# 1333-86-4
OSHA TWA 3.5 mg/m³
ACGIH TLV 3.5 mg/m³

Preparation Date: 12/1/98

Coloring Material
CAS# Not applicable
OSHA TWA Not applicable
ACGIH TLV Not applicable

Oil
CAS# Not applicable
OSHA TWA Not applicable
ACGIH TLV Not applicable

Additives
CAS# Not applicable
OSHA TWA Not applicable
ACGIH TLV Not applicable

Nylon 6-6 Fabric
CAS# Not applicable
OSHA TWA Not applicable
ACGIH TLV Not applicable

Physical Data
Melting Point: N/A
Boiling Point: N/A
Vapor Pressure: N/A
Vapor Density (Air = 1): N/A
Evaporation Rate (Butyl Acetate = 1): N/A
Specific Gravity (H₂O=1): No data available
Solubility in Water: Negligible
Appearance and Odor: Nylon 6-6 fabric impregnated with liquid black ink

Pacemark 4410 Setup Guide
Fire and Explosion Hazard Data
Flash Point (Method Used): N/A
Flammable Limits, LEL/UEL: N/A
Extinguishing Media: Water mist, Foam, Dry powder, CO₂, gas, others
Special Fire and Explosion Procedures: N/A
Unusual Fire and Explosion Hazards: None

Health Hazard Data
Routes of Entry: Ingestion, Eyes, Skin
Health Hazards: None

Reactivity Data
Stability: Stable
Polymerization: Will not occur
Hazardous Decomposition or By products: None
Conditions to Avoid: N/A
Incompatibility (Materials to Avoid): None

Spill Cleanup and Disposal
Spill Cleanup: If the ribbon is inadvertently pulled out, it should be rewound on the reel using the take-up knob.
Waste Disposal: Follow appropriate federal, state and local regulations.

Safe Handling and Use
Respiratory Protection: Not applicable
Protective Gloves and/or Eye Protection: Not normally required. Protective gloves desirable in some cases.
Ventilation: Not applicable
Other Protective Equipment and/or Hygienic Practices: None

Special Precautions
Precautions for Handling or Storage: Store in a dark, cold place. Do not pull ribbon out of cartridge.
Other Precautions: Not applicable

The information contained in this MSDS is based on data considered accurate; however, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person party proximately caused by the product if reasonable safety procedures are not adhered to as stipulated in the MSDS. Furthermore, vendor assumes no responsibility for injury to vendee or third person party proximately caused by abnormal use of the product even if reasonable safety procedures are followed. Additionally, vendee assumes the risk of his use of the product.
Pacemark 4410
Printed User’s Guide Request Form

Pacemark Model (check one): ☐ 4410  ☐ 4410 Network Version

Serial No.: __ __ __ __ __ __ __ __ __ __  (look for silver label on side or back of printer)

Check one:

English  ☐ MS-10233/1198  Pacemark 4410 User’s Guide
Français  ☐ MS-10234/1198  Pacemark 4410 Guide de L’utilisateur
Español  ☐ MS-10235/1198  Pacemark 4410 Guía del usuario
Português ☐ MS-10236/1198  Pacemark 4410 Guia do usuário

Name: __________________________________________________
Company: ____________________________________________
Address: ______________________________________________
City: __________________________ State: ____ ZIP: _________
Country: __________________________

Option 1
MAIL this form to:
Okidata
PO Box 4603
Trenton, NJ 08650-9852

Option 2
FAX this form to (609) 393-0338.

Option 3
CALL: In the US and Canada (English only), call 1-800-545-4747 and tell the operator you wish to order an Okidata manual. You will be transferred to an order taker: be prepared to provide the information from the form above.