OKI
MICROLINE 186 Plus

User's Guide
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Note
A note appears like this. It provides additional information which helps you to use and understand the product.

Important
An important message appears like this. It provides supplemental information which can prevent potential problems.

CAUTION!
A caution message appears like this. It provides information which, if ignored, can result in equipment malfunction or damage.

WARNING!
A warning message appears like this. It provides information which, if ignored, can result in the risk of personal injury.
Getting Started

Location

- Select a firm, solid surface for your printer.
- Allow enough space around the printer to easily access the platen knob and the various paper feed paths.
- Make sure a suitable grounded power outlet is available nearby.

Contents and Unpacking

- If any items are missing, contact your dealer immediately.
- Keep your packing materials and carton in case you ever need to ship or transport the printer.
- Interface cables and paper are sold separately.

1 ML186 Printer
2 Paper Separator
3 Platen Knob
4 Ribbon Cartridge
5 Power Cord
6 CD
Removing the Shipping Restraint

**Important**
Do not plug the printer into the power outlet until the following steps have been completed.

1. Remove any packing tape.
2. Reach into the top cover slot (1) and remove the access cover (2) by lifting it.

3. Remove the printhead shipping restraint. Keep the shipping restraint for future use.

4. Reinstall the access cover.
Installing/Replacing the Ribbon Cartridge

*Use only genuine Oki Data ribbon cartridges.*

When replacing a ribbon cartridge, make sure you have the correct replacement ribbon for your printer. The wrong ribbon will not print when installed in your printer.

**Important**

- Leave unused ribbon cartridges in their packaging until you are ready to install them.
- **Careful!** The ribbon ink can cause permanent stains.
- Ribbon ink on skin or clothing can usually be removed with soap and water.

1. Make sure the printer is turned off!

**WARNING!**

If the printer has been recently used, the printhead may be **HOT!**
2. Remove the access cover and center the printhead.

3. If you are replacing the ribbon cartridge, remove the used one:

**Important**
Do not remove the ribbon shield (1) from the new ribbon!
4. Unpack the ribbon cartridge and install it on the printhead.

5. Press gently on the ribbon cartridge until you feel it click into place.

**Note**

If the ribbon won’t load easily, turn the take-up knob slightly until the x-shaped notch on the bottom of the ribbon cartridge aligns with the x-shaped insert on the ribbon plate.
6. Turn the take-up knob (1) in the direction of the molded arrow to take up any ribbon slack.

7. Replace the access cover.

**Installing the Platen Knob**

Align the notch (1) with the pin on the platen shaft and push it firmly into place.
Adjusting the Head Gap

The head gap is the distance between the printhead and the platen roller. When you use envelopes or multipart forms, you need to have a larger gap than when using plain paper. Use the recommended head gap to ensure the best print quality and easy paper feed.

**CAUTION!**

Incorrect setting of the head gap can cause printhead damage or ribbon jams. To avoid these problems set the head gap for the type of media being used.

To adjust the head gap, move the colored lever (1) located to the left of the ribbon cartridge to the correct position for the type of media being used ...

---

<table>
<thead>
<tr>
<th>Paper Type</th>
<th>Lever Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Sheets, up to 20 lb. (75 g/m²)</td>
<td>1 or 2</td>
</tr>
<tr>
<td>Forms, 2-part [maximum thickness 0.28 mm]</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Forms, 3-part [maximum thickness 0.28 mm]</td>
<td>3</td>
</tr>
<tr>
<td>Forms, 4-part [maximum thickness 0.28 mm]</td>
<td>3</td>
</tr>
</tbody>
</table>
Installing the Paper Separator

The paper separator is used for printing on single sheets (no carbons). With continuous forms paper, it is used to separate the ingoing/outgoing paper to prevent paper jams.

1. Hold the paper separator with the spring-loaded feet down.
2. Place the tabs (1) on the paper separator in the two corresponding slots (↓) on the printer.
3. Press down to release the paper separator onto the printer.
Setting Up Your Printer

Power Connection

**WARNING!**
Operations of this equipment are not warranted when the equipment is connected to UPS (Uninterruptible Power Supply) and/or inverter. Doing so may result in damage of this equipment. Do not use an UPS and/or inverter.

1. Make sure the printer is turned off.

2. Plug the power cord supplied with your printer into the back of the printer.

**Important**
The outlet voltage must match the voltage marked on the printer label.

3. Plug the other end of the power cord into an appropriate grounded outlet.
Loading Paper

Three types of paper can be used with your printer:

- Continuous Forms Paper
  (with or without the optional Pull Tractor)
- Single Sheets
- Roll Paper, *using the optional Roll Paper Stand*

Before You Start

1 Bail Arm Lever
2 Bail Arm
3 Paper Lever
4 Platen Knob
5 Head Gap Lever
Paper Lever Positions

= Single Sheet Feed

= Continuous Forms

Setting the Head Gap
Before you load paper, be sure to check the head gap lever setting (see page 11).

Important
Do not plug the printer into the power outlet until the following steps have been completed.
1. Make sure the printer is turned off.
2. Place the stack of continuous forms paper behind the printer.
3. Remove the access cover (1).
4. Pull the bail arm lever (2) — on the left side of the printer — toward the front of the printer to lift the bail arm.
5. Move the paper lever (3) — on the right side of the printer — toward the front of the printer to the continuous forms symbol.

6. Pull the lock levers (A) on the sprocket wheels at either end of the platen forward, then adjust the sprocket wheels (B) so that the sprockets align with the holes in the continuous forms you are using.

7. Push the levers back to lock the sprocket wheels in position.

8. Insert the first sheet of paper between the paper separator guides (5) and push it through the paper separator.
9. Place the paper between the sprocket feed guides (6) and feed it behind the platen, gently positioning it so that its holes engage the sprockets on the ends of the platen.

**Note**

Make sure you keep the lead edge of the paper straight so that the sprockets engage the matching pins on either side. Otherwise the paper will feed in skewed and paper jams will occur.
10. Turn the platen knob (7) to advance the paper until it appears in front of the platen, behind the bail arm.

**Important**

Check to be sure that the matching holes on either side are engaging the sprockets (A). If they are not evenly matched and the paper is skewed (B), back the paper out and try again!
11. Push back on the bail arm lever (2) to lower the bail arm.

12. Use the platen knob (7) to set the position of the paper to the first printing line.

13. Replace the access cover, being sure to feed the edge of the paper through the slot in the cover.

14. Turn the printer on.
Loading Continuous Forms, Bottom Feed

1. Make sure the printer is turned off.
2. Place the printer on a slotted printer stand, carefully aligning the slot in the stand with the slot in the base of the printer.
3. Place a box of continuous forms paper on the stand, under the printer.
4. Remove the access cover (1).
5. Pull the lock levers (A) on the sprocket wheels at either end of the platen forward, then adjust the sprocket wheels (B) so that the sprockets align with the holes in the continuous forms you are using.

6. Push the levers back to lock the sprocket wheels in position.

7. Pull the bail arm lever (3) — on the left side of the printer — toward the front of the printer to lift the bail arm.

8. Move the paper lever (4) — on the right side of the printer — toward the front of the printer to the continuous forms symbol.
9. Insert the first sheet of continuous forms paper through the opening in the printer stand and into the bottom of the printer, gently feeding it into the printer until it appears in front of the platen, and above the bail arm.

**Important**

Check to be sure that the matching holes on either side are engaging the sprockets (A). If they are not evenly matched and the paper is skewed (B), back the paper out and try again!
10. Move the bail arm lever (3) back to lower the bail arm.

11. Use the platen knob (5) to advance the paper to the first printing line.

12. Replace the access cover, being sure to feed the edge of the paper through the slot in the cover.

13. Turn the printer on.
Loading Single Sheets

Your printer can accommodate single sheets up to 9.5 inches (241 mm) wide.

**Note**
Before printing single sheets, you must remove the Pull Tractor or Roll Paper Stand, if installed.

**Note**
In order to use paper wider than traditional letter size, you must move the sprocket wheels to their outermost positions so that the paper does not tear on the sprockets. See the directions below.

1. Turn the printer on.
2. Move the paper lever (1) — on the right side of the printer — toward the rear of the printer, to the single sheet symbol.

3. Ensure that the printer is off-line (SELECT light off): press SELECT if necessary.

4. If you are using paper wider than 8.5 inches (216 mm), move the sprocket wheels to their outermost position:
   a. Remove the access cover.
   b. Pull the lock levers (A) at either end forward and move the sprocket wheels (B) as needed.
c. Push back on the levers to lock the sprocket wheels in position.

5. Raise the paper separator.
6. Adjust the sheet guide (3) on the paper separator to position the left edge of the sheet, then insert a single sheet along the guide until it reaches the pinch roller.

7. Pull the bail arm lever (2) toward the front of the printer.
8. Use the platen knob to wind the paper through to the front of the printer and adjust the top of form. Press the **TOF SET** button while the printer is deselected (**SELECT** light off) to set top of form.

![Image of printer](image)

9. Push back the bail arm lever, ensuring that the paper has been positioned correctly.

10. Press **SELECT** to place the printer on line.
Testing Your Printer

Your printer has a built-in test (self test) to make sure that it is set up and working correctly.

1. Load continuous forms paper into the printer (see page 14, ff.).
2. Make sure the printer is turned off, then press and hold **LINE FEED** while turning the printer on.  
*The test print begins.*
3. To stop the test, press **SELECT** or turn the printer off.

**Important**

The top of each test printout contains information about your printer. Be sure to have a copy of the printout handy if you have to call for service.
Computer Connections
USB Connection

Notes

• The operation of a printer is not assured if a USB compatible device is connected concurrently with other USB-compatible machines.
• When connecting multiple printers of the same type, they appear as ****, ****(2), ****(3), etc. These numbers depend on the order of connecting or turning on of each printer.
• USB is a "hot-pluggable" protocol. This means that the printer and computer do not necessarily have to be switched OFF.
• Interface cables are not supplied with your printer.

USB Cable Requirements

• USB 1.1 or higher
• Max. length 19.7 ft. (5 m)
• USB "B" series connector
1. Attach a suitable USB cable to the USB series "B" port on the back of the printer.

2. Connect the other end of the cable to the computer.

3. If you turned the computer and printer off, turn them back on.
Parallel (LPT) Connection, IEEE-1284

Parallel Cable Requirements

- bi-directional
- max. length 6 ft. (1.8 m)
- 36-pin Centronics type connector

Note
Interface cables are not supplied with your printer.

CAUTION!
Make sure the printer and computer are both turned OFF.

1. Turn both the computer and the printer OFF.
2. Attach a suitable bi-directional cable to the parallel connector on the back of the printer and secure it with the wire loops.
3. Attach and secure the cable to your computer.

![Diagram of attaching cable to computer]

4. Turn the printer and computer back on.

**Serial (COM) Connection, RS-232C**

**Serial Model Only**

**Note**

Interface cables are not supplied with your printer.

**Serial Cable Requirements:**

- Shielded RS-232C cable, UL and CSA approved
- Max. length 50 ft. (15 m)
- 25-pin serial connector.

**CAUTION!**

Make sure the printer and computer are both turned OFF.
1. Switch both the computer and the printer OFF.

2. Plug the cable into the serial port on the back of the printer and tighten the screws.

3. Plug the cable into the computer and tighten the thumbscrews.

4. Turn the printer and computer back on.
Setting up the Printer to Work with Your Computer

Notes

- Settings made in your software application normally override settings made in your printer driver.
- Settings made in the printer driver normally override settings made in the printer menu or via the front panel.

Install the Windows Printer Driver

To print from a Windows-based system, install the printer driver located in the Drivers folder on the CD supplied with your printer. This driver incorporates commands which use the full capability of the printer and automatically switches the printer to the correct emulation regardless of which emulation is selected in the printer menu.

1. Place the CD in your CD-ROM drive.
2. Follow the on-screen instructions to install the driver to be used with your printer.
Non-Windows Systems:  
Set the Emulation in the Printer Menu

Your printer has three emulations:

- IBM® 2480 — the factory default
- Epson® ESC/P2
- Oki Data® MICROPAGE® Standard

If you are using a non-Windows system such as LINUX®, a non-Windows application such as a DOS® program, or an older application such as Word Perfect® 5.1, you need to make sure you have the correct emulation selected in the printer menu (see "Changing the Emulation Default in the Printer Menu" below). If you have the wrong emulation selected, you will see strange characters, incorrect fonts, etc.

**Important**

See your software documentation for information on how to select an emulation in that application.

If you are directly replacing a MICROPAGE ML184 Turbo or ML184 printer with the ML186 Plus, you must make sure that the printer menu on your new ML186 Plus is set to match the emulation being used for the existing printer (see "Changing the Emulation Default in the Printer Menu" below).

**For Non-Windows Applications**

Your printer is compatible with the emulations listed in the table below and will function properly with software developed for them. To make full use of the ML186 Plus printer’s features, use the top entry for the applicable emulation (e.g., IBM 2480). Entries further down (e.g., IBM Graphics Printer Plus, IBM Graphics Printer) work well with the printer, but do not provide full use of the printer’s capabilities.
Changing the Emulation Default in the Printer Menu

The default for the emulation in the printer menu is IBM. If you wish to change the menu default to another emulation:

1. Make sure continuous forms paper is loaded.
2. Turn the printer off.
3. Press and hold SELECT while turning the printer back on. The printer enters the menu mode.
4. Press FORM FEED. The first line of the menu prints, showing the emulation engaged. For example:

   Printer Control Emulation Mode IBM

5. Press TOF SET once or twice until the emulation you wish to engage appears in the right-hand column. Each time you press TOF SET, a new line prints and the setting which appears in the last column changes. For example:

   Printer Control Emulation Mode Epson
   Printer Control Emulation Mode ML

6. Press PITCH and MODE together to save your setting and exit the printer menu.
## Front Panel Operation

### Front Panel Lights

<table>
<thead>
<tr>
<th>LED</th>
<th>Status, Function</th>
</tr>
</thead>
</table>
| **SELECT** | - On = Printer is on line.  
- Off = Printer is off line.  
- **Flashing** = flashes with **ALARM** light to indicate a fault has been detected. |
| **ALARM** | - **On**, **SELECT** light off = paper out.  
- **On**, **SELECT** light **flashing** = auto diagnostics have detected an error.  
- **Flashing**, **SELECT** light **on** = printer has overheated. Normal print operation will resume only after a cooling period. |
| **POWER** | - On = printer is turned on.  
- Off = printer is turned off. |
| 10, 12, 17 | The one lit indicates which character pitch —in characters per inch (cpi)— is engaged. |
The one lit indicates which print mode is engaged:

**NLQ** = Near Letter Quality

**UTILITY** = Draft mode

**HSD** = High Speed Draft mode, or SSD (Super Speed Draft) if 12 cpi is selected.
## Front Panel Buttons

<table>
<thead>
<tr>
<th>Button</th>
<th>Print Mode</th>
<th>Menu Mode</th>
<th>Held at Power Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINE FEED</td>
<td>Advances the paper one line</td>
<td>Scrolls through the printer menu groups.</td>
<td>Initiates printer Self Test (see page 60). LINE FEED + SELECT = Initiates Rolling ASCII test (see page 61).</td>
</tr>
<tr>
<td>FORM FEED</td>
<td>Advances the paper to the next top of form or ejects single sheet from the printer.</td>
<td>Scrolls through the items for each menu group.</td>
<td>FORM FEED + SELECT = Places printer in hex dump mode (see page 60).</td>
</tr>
<tr>
<td>TOF SET</td>
<td>Sets a new top of form (TOF) position.</td>
<td>Scrolls through the settings for each item within a group.</td>
<td>Sets printer to 17 cpi.</td>
</tr>
<tr>
<td>SELECT</td>
<td>Toggles the printer on and off line.</td>
<td>Prints list of current menu settings.</td>
<td>Places printer in Menu Mode.</td>
</tr>
<tr>
<td>PITCH</td>
<td>Selects the character pitch setting (cpi).</td>
<td>PITCH + MODE = save settings and exit to print mode.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>MODE</td>
<td>Sets print mode (NLQ, Utility, HSD).</td>
<td>PITCH + MODE = save settings and exit to print mode.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
Setting Printer Defaults

The printer has an internal menu containing a number of default parameters which can be set to enable your printer to match the parameters required by your computer.

Using the Menu Mode

Entering the Menu Mode
To enter the Menu Mode, press SELECT while turning on the printer.
*The 12 and UTILITY LEDs flash.*

Printing a List of Current Menu Settings
With the printer in the Menu Mode, press SELECT to print the complete menu.
*The current default settings print out.*
### Sample Default Menu Printout

<table>
<thead>
<tr>
<th>Printer Control</th>
<th>Emulation Mode</th>
<th>IBM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Font</td>
<td>Print Mode</td>
<td>Utility</td>
</tr>
<tr>
<td>Font</td>
<td>DRAFT Mode</td>
<td>SSD</td>
</tr>
<tr>
<td>Font</td>
<td>Pitch</td>
<td>10 CPI</td>
</tr>
<tr>
<td>Font</td>
<td>Proportional Spacing</td>
<td>No</td>
</tr>
<tr>
<td>Font</td>
<td>Style</td>
<td>Normal</td>
</tr>
<tr>
<td>Font</td>
<td>Size</td>
<td>Single</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol Sets</th>
<th>Character Set</th>
<th>Set I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbol Sets</td>
<td>Language Set</td>
<td>American</td>
</tr>
<tr>
<td>Symbol Sets</td>
<td>Zero Character</td>
<td>Slashed</td>
</tr>
<tr>
<td>Symbol Sets</td>
<td>Code Page</td>
<td>USA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vertical Control</th>
<th>Line Spacing</th>
<th>6 LPI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Control</td>
<td>Skip Over Perforation</td>
<td>No</td>
</tr>
<tr>
<td>Vertical Control</td>
<td>Page Length</td>
<td>11&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Set-Up</th>
<th>Graphics</th>
<th>Uni-directional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set-Up</td>
<td>Receive Buffer Size</td>
<td>64K</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Paper Out Override</td>
<td>No</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Print Registration</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Set-Up</th>
<th>Operator Panel Function</th>
<th>Full Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set-Up</td>
<td>Reset Inhibit</td>
<td>No</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Print Suppress Effective</td>
<td>Yes</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Auto LF</td>
<td>No</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Auto CR</td>
<td>Yes</td>
</tr>
<tr>
<td>Set-Up</td>
<td>SI Select Pitch (10 CPI)</td>
<td>17.1 CPI</td>
</tr>
<tr>
<td>Set-Up</td>
<td>SI Select Pitch (12 CPI)</td>
<td>12 CPI</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Time Out Print</td>
<td>Invalid</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Auto Select</td>
<td>No</td>
</tr>
<tr>
<td>Set-Up</td>
<td>ESC SI Pitch</td>
<td>17.1 CPI</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Impact Mode</td>
<td>Normal</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Power Saving</td>
<td>Enable</td>
</tr>
<tr>
<td>Set-Up</td>
<td>Power Save Time</td>
<td>5 min</td>
</tr>
<tr>
<td>Interface</td>
<td>Feature</td>
<td>Setting</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Parallel I/F</td>
<td>I-Prime Buffer Print</td>
<td>Enable</td>
</tr>
<tr>
<td>Parallel I/F</td>
<td>Bi-Direction</td>
<td>Enable</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>Parity</td>
<td>None</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>Serial Data 7/8 Bits</td>
<td>8 bits</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>Protocol</td>
<td>Ready/Busy</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>Diagnostic Test</td>
<td>No</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>Busy Line</td>
<td>SSD-</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>Baud Rate</td>
<td>9600 bps</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>DSR Signal</td>
<td>Valid</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>DTR Signal</td>
<td>Ready on Power UP</td>
</tr>
<tr>
<td>Serial I/F</td>
<td>Busy Time</td>
<td>200 ms</td>
</tr>
</tbody>
</table>

(*1) Serial I/F Group only appear for printers equipped with Serial Interface.

**44 • Operating Your Printer**
Changing Menu Settings

1. Press SELECT while turning on the printer.

2. Change settings:
   a. Press LINE FEED to select the relevant group that needs to be changed (the group is the left-hand column on the Menu printout).
   b. Press FORM FEED to select the relevant item within the selected group (the Item is the center column on the Menu printout).
   c. Press TOF SET to cycle through the settings available for the item you want to change (the settings are the right-hand column on the Menu printout).
   d. To continue making changes:
      • press LINE FEED for the next group
      or
      • press FORM FEED for the next item.

3. Repeat the previous step until you are finished changing settings.

4. Press PITCH and MODE together to save the changes you have made and exit the Menu Mode.

Important
Exiting the Menu Mode by turning off the printer will cancel any changes you have made.
For Example
The default setting for the zero character is slashed. To change the setting to unslashed:

1. Press and hold SELECT while turning the printer on. The following line prints:
   Printer Control Emulation Mode IBM

2. Press LINE FEED several times until the Symbol Sets group line appears:
   Symbol Sets Character Set SetI

3. Press FORM FEED repetitively until the Zero Character item line appears:
   Symbol Sets Zero Character Slashed

4. Press TOF SET once. The following line prints:
   Symbol Sets Zero Character Unslashed

5. Press PITCH and MODE together to save the setting and exit the Menu Mode.
Default Menu Selections
Default settings are indicated in bold italic.

<table>
<thead>
<tr>
<th>Group</th>
<th>Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printer Control</td>
<td>Emulation Mode</td>
<td><em>IBM</em>, Epson, ML</td>
</tr>
<tr>
<td>Font</td>
<td>Print Mode</td>
<td><em>Utility</em>, NLQ Courier, NLQ</td>
</tr>
<tr>
<td>(Font)</td>
<td>DRAFT Mode</td>
<td>Gothic, Draft</td>
</tr>
<tr>
<td>(Font)</td>
<td>Pitch</td>
<td><em>10 CPI</em>, 12 CPI, 15 CPI, 17.1CPI, 20 CPI</td>
</tr>
<tr>
<td>(Font)</td>
<td>Proportional Spacing</td>
<td><em>No</em>, Yes</td>
</tr>
<tr>
<td>(Font)</td>
<td>Style</td>
<td><em>Normal</em>, Italic</td>
</tr>
<tr>
<td>(Font)</td>
<td>Size</td>
<td><em>Single</em>, Double</td>
</tr>
</tbody>
</table>

Selects both double width and double height characters or single width and single height characters.
<table>
<thead>
<tr>
<th>Group</th>
<th>Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbol Sets</td>
<td>Character Set</td>
<td><strong>Set I</strong>, <strong>Set II</strong>, <strong>Standard</strong>, <strong>Line Graphics</strong>, <strong>Block Graphics</strong> (ML mode only)</td>
</tr>
<tr>
<td>(Symbol Sets)</td>
<td>Language Set</td>
<td><strong>American</strong>, <strong>French</strong>, <strong>German</strong>, <strong>British</strong>, <strong>Danish I</strong>, <strong>Swedish</strong>, <strong>Italian</strong>, <strong>Spanish I</strong>, <strong>Japanese</strong>, <strong>Norwegian</strong>, <strong>Danish II</strong>, <strong>Spanish II</strong>, <strong>Latin American</strong>, <strong>French Canadian</strong>, <strong>Dutch</strong>, <strong>Publisher</strong></td>
</tr>
<tr>
<td>(Symbol Sets)</td>
<td>Zero Character</td>
<td><strong>Slashed</strong>, <strong>Unslashed</strong></td>
</tr>
<tr>
<td>Vertical Control</td>
<td>Line Spacing</td>
<td><strong>6 LPI</strong>, <strong>8 LPI</strong></td>
</tr>
<tr>
<td>(Vertical Control)</td>
<td>Skip Over Perforation</td>
<td><strong>No</strong>, <strong>Yes</strong></td>
</tr>
<tr>
<td>(Vertical Control)</td>
<td>Page Length</td>
<td><strong>11”</strong>, <strong>11-2/3”</strong>, <strong>12”</strong>, <strong>14”</strong>, <strong>17”</strong>, <strong>5”</strong>, <strong>3”</strong>, <strong>3.25”</strong>, <strong>3.5”</strong>, <strong>4”</strong>, <strong>5.5”</strong>, <strong>6”</strong>, <strong>7”</strong>, <strong>8”</strong>, <strong>8.5”</strong></td>
</tr>
<tr>
<td>Set-Up</td>
<td>Graphics</td>
<td>Bi-directional, <strong>Uni-directional</strong></td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>7 or 8 Bits Graphics</td>
<td>8, 7</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>7 or 8 Bits Graphics</td>
<td>ML emulation only.</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Receive Buffer Size</td>
<td>1 Line*, 32K, <strong>64K</strong>, 128K</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Paper Out Override</td>
<td><strong>No</strong>, <strong>Yes</strong></td>
</tr>
</tbody>
</table>

* When 1 Line is selected, the receive buffer size is 2K bytes.
<table>
<thead>
<tr>
<th>Group</th>
<th>Item</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Set-Up)</td>
<td>Print Registration</td>
<td>0.25 mm Right, 0.20 mm Right, 0.15 mm Right, 0.10 mm Right, 0.05 mm Right, 0, 0.05 mm Left, 0.10 mm Left, 0.15 mm Left, 0.20 mm Left</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>7 or 8 Bits Data Word</td>
<td>8, 7</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>ML emulation only.</td>
<td></td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Operator Panel Function</td>
<td>FULL OPERATION, Semi Operation*, Limited Operation*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* When Limited Operation is selected, after exiting the Menu, only the SEL, LINE FEED and FORM FEED buttons operate. The PRINT QUALITY, TOF and PITCH buttons are inactive.</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Reset Inhibit</td>
<td>No, Yes</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Print Suppress Effective</td>
<td>No, Yes</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Auto LF</td>
<td>No, Yes</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Auto CR</td>
<td>No, Yes</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>SI Select Pitch (10 CPI)</td>
<td>15 CPI, <strong>17.1 CPI</strong></td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>SI Select Pitch (12 CPI)</td>
<td><strong>12 CPI</strong>, 20 CPI</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Time Out Print</td>
<td>Valid, <strong>Invalid</strong></td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Auto Select</td>
<td>No, Yes</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>ESC SI Pitch</td>
<td><strong>17.1 CPI</strong>, 20CPI</td>
</tr>
<tr>
<td>Group</td>
<td>Item</td>
<td>Setting</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Impact Mode</td>
<td><strong>Normal</strong>, <strong>Quiet</strong></td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Power Saving</td>
<td><strong>Enable</strong>, <strong>Disable</strong></td>
</tr>
<tr>
<td>(Set-Up)</td>
<td>Power Save Time</td>
<td><strong>5 min</strong>, 10 min, 15 min, 30 min, 60 min</td>
</tr>
<tr>
<td>Parallel I/F</td>
<td>I-Prime</td>
<td>Invalid, <strong>Buffer Print</strong>, Buffer Clear</td>
</tr>
<tr>
<td>(Parallel I/F)</td>
<td>Auto Feed XT</td>
<td>Valid, <strong>Invalid</strong></td>
</tr>
<tr>
<td>(Parallel I/F)</td>
<td>Bi-Direction</td>
<td><strong>Enable</strong>, <strong>Disable</strong></td>
</tr>
<tr>
<td>Serial I/F</td>
<td>Parity</td>
<td><strong>None</strong>, Odd, Even</td>
</tr>
<tr>
<td></td>
<td>Serial Data 7 or 8 Bits</td>
<td><strong>8 bits</strong>, 7 bits</td>
</tr>
<tr>
<td>(Serial I/F)</td>
<td>Protocol</td>
<td><strong>Ready/Busy</strong>, X-ON/X-OFF</td>
</tr>
<tr>
<td>(Serial I/F)</td>
<td>Diagnostic Test</td>
<td><strong>No</strong>, Yes</td>
</tr>
<tr>
<td>(Serial I/F)</td>
<td>Busy Line</td>
<td><strong>SSD-</strong>, <strong>SSD+</strong>, DTR, RTS</td>
</tr>
<tr>
<td>(Serial I/F)</td>
<td>Baud Rate</td>
<td>19,200 bps, <strong>9600 bps</strong>, 4800 bps, 2400 bps, 1200 bps, 600 bps, 300 bps</td>
</tr>
<tr>
<td>(Serial I/F)</td>
<td>DSR Signal</td>
<td><strong>Valid</strong>, <strong>Invalid</strong></td>
</tr>
<tr>
<td>(Serial I/F)</td>
<td>DTR Signal</td>
<td><strong>Ready on Power Up</strong>, Ready on Select</td>
</tr>
<tr>
<td>(Serial I/F)</td>
<td>Busy Time</td>
<td><strong>200 ms</strong>, 1 sec</td>
</tr>
</tbody>
</table>
Using the Pull Tractor Unit (if installed)

Paper can be loaded from the rear of the printer or, if you have a slotted printer stand, it can be loaded from the bottom.

1. Remove the acoustic cover (1) and access cover (2).

2. Adjust the left tractor if necessary, making sure that it is not more than ½-inch (12.7 mm) from the left end of the tractor unit. To move the tractor, pull the lock lever (1) forward, slide the tractor to the desired position, then push the lever back to lock it in place.
3. Adjust the right tractor to the paper width by pulling its lock lever \((1)\) forward, sliding the tractor to the desired position, then pushing the lever back to lock it in place.

4. Pull the paper under the bail arm and up to the level of the tractor unit.

5. Open the sprocket covers \((A)\) at either end of the pull tractor.

6. Pull the paper lever (on the right side of the printer) forward to the continuous forms position.
7. Place the holes in the paper over the sprockets on the pull tractor unit and close both sprocket covers.

![Image of sprockets]

**Note**

Be careful to align the paper properly so that an equal number of holes are engaged on the sprockets at either end of the pull tractor. Misalignment will cause paper jams and/or ripping.

8. Replace the access cover and acoustic cover.

![Image of printer with covers replaced]
Using the Roll Paper Stand (if installed)

Loading the Paper

Correct Paper Path

1. Remove the access cover from the printer.
2. Place the paper lever (right side of printer) in the single sheet position (back) and the bail arm lever (left side of printer) toward the front of the printer (bail arm raised away from platen).
3. Open the paper separator (1).

4. Remove the paper roller. Note that there is a disk (2) on the left end of the roller.

5. Slide the roller into a roll of paper, making sure that the disk (2) is on the left side and that the paper rolls up from the bottom.
6. Put the paper roller back into the stand, with the disc (2) on the left side.

7. Feed the paper *over* (not under!) the roller (3) on the stand, adjusting the round paper guides on either end (4) to the paper width.

8. Feed the paper down behind the platen and use the platen knob to bring the paper through the printer. Feed the paper in as straight as possible.

9. Continue to feed the paper through for approximately 4 inches (102 mm).
10. Pull the paper lever (right side of printer) toward the front of the printer—to the continuous forms position—and make sure the paper is straight by adjusting it to align the left and right sides behind the platen with the sides in front of the platen.

**Important**

Be sure that the paper covers the groove in the left end of the platen so that it clears the paper out detector.

11. Push the paper lever back to the single sheet position to reapply pressure on the platen.

12. Push the bail arm lever (left side of printer) back to close the bail arm.

13. Replace the access cover:
   a. Fit the cover tabs into the slots at the printer front.
   b. Lower the cover carefully, making sure the paper fits through the front slot in the access cover.

14. Lower the paper separator so that paper enters the printer from under the separator and exits the printer going over the separator (see "Correct Paper Path" diagram on page 54).

15. Turn the platen knob to move the paper to the point where you want printing to start. (Many word processing packages automatically allow for a top margin of 1 inch [25 mm]).

**Note**

To save this position as the permanent Top of Form, press the TOF button.
Maintenance

Replacing the Ribbon Cartridge
For more details, see page 7.

WARNING!
If the printer has been recently used, the printhead may be HOT!

1 Turn the printer off!
59 • Maintenance
Testing Your Printer

Self Test (Font Samples)
Your printer has a built-in test (self test) to make sure that it is set up and working correctly.

1. Load continuous forms paper into the printer (see page 14, ff.).
2. Make sure the printer is turned off, then press and hold LINE FEED while turning the printer on.
   The test print begins.
3. To stop the test, press SELECT or turn the printer off.

   Note
   The top of each test printout contains information about your printer. Be sure to have a copy of the printout handy if you have to call for service.
Rolling ASCII Test
The Rolling ASCII Test produces a continuous sampling of ASCII characters using the default type style. To run the test:

1. Make sure continuous forms paper is loaded.
2. With the printer turned off, press and hold SELECT and LINE FEED while turning the printer on. The Rolling ASCII Test begins.
3. To stop the test, press SELECT or turn the printer off.

Hex Dump Mode
In Hex Dump Mode, all data sent to the printer, including text and printer commands, prints in both hexadecimal and ASCII format.

- To place the printer in the Hex Dump Mode, press and hold SELECT and FORM FEED while turning the printer on.
- To disengage the Hex Dump Mode, turn the printer off, then on again.
Cleaning the Housing

CAUTION!
Never use solvents or strong detergents on the cabinet: they could damage the housing.

You should clean the printer every six months (or after about 300 hours of operation).
1. Turn the printer off.

2. Remove any paper from the path.

3. Remove the access cover (1).

4. Pull the bail arm lever (2) forward to lift the bail arm.

5. Use a clean, dry cloth to dust around the carriage shaft and platen.

6. Remove any loose bits of paper.
7. Push the bail arm lever back and reinstall the access cover.
8. Reload paper.
9. Turn the printer on.
Troubleshooting

General Information

Here are some general things to check before proceeding with detailed troubleshooting.

• Is the printer plugged in and turned on?
• Are the connections (power and interface) secure?
• Is the printer being operated under the proper ambient conditions (see page 82)?
• Does the paper being used meet the specifications for this printer (see page 81)?
• Is the paper properly installed (see pages 14, ff.)?
• Is the ribbon properly installed (see pages 7, ff.)?
• Is an Oki ribbon being used?
• Is the head gap correctly set (see page 11)?
• Are the correct printer drivers being used for the printer (see page 36)?

Notes

• Settings made in your software application normally override settings made in your printer driver.
• Settings made in the printer driver normally override settings made in the printer menu or via the front panel.
General Problems/Solutions

Problem 1 __________________________________________

My word processor files do not print the way I have the menu and front panel set.

Solution

1. Check your software application and/or printer driver settings: these override the menu and front panel settings (see Note above).

2. Before sending a file to the printer, many word processors send either an "initialization string" or an I-Prime signal to the printer.

   The initialization string contains codes that override the panel and menu settings. To change your printer to ignore the reset code, enter the Menu Mode, go to the Set-Up group and change the setting for Reset Inhibit to Yes.

   The I-Prime signal will automatically override any front panel settings you have made. To eliminate this problem, enter the Menu Mode, go to the Parallel Interface group and change the setting for I-Prime to Invalid.

   For more information on changing menu settings, see page 42.

Problem 2 __________________________________________

Nothing happens when I turn on the printer.

Solution

1. Check the power cord connection to the outlet and to the printer.

2. If you are using a power strip, make sure it is turned ON, and that the fuse hasn’t blown or that the circuit breaker hasn’t tripped.

3. If the solution is not obvious — call for service.
Problem 3  

The printer does not print when the computer sends data.

Solutions

1. Is the SELECT light on? If not, press SELECT.
2. Check that the interface cable is securely connected to both the printer and the computer.

Problem 4  

I'm getting strange symbols, incorrect fonts, etc., when I try to print a document.

Solutions

1. Check to be sure that the printer driver you have selected in your software matches the printer emulation: see "Changing Menu Settings" on page 45.
2. If you have embedded any printer commands in your software, check to be sure that you entered them correctly.

Problem 5  

Ink smears on the paper when I print narrow columns.

Solutions

The head gap could be too close. Check that the Head Gap Lever (1) is set correctly (see "Adjusting the Head Gap" on page 11).
**Problem 6**

*I've installed a new ribbon and the printing is smeared and streaked.*

**Solution**

The ribbon shield (1) is either loose or missing.

1. Remove the ribbon cartridge and check the ribbon shield.
2. If it is loose, secure it.
3. If it is missing, find it and install it. If you cannot find it, see if you have an old ribbon cartridge with the shield still on it. If so, remove the shield from it and put it on the current ribbon cartridge. If not, replace the ribbon cartridge.

**Problem 7**

*There are dots missing in my printouts (typically, tops and/or bottom of characters missing).*

**Solution**

The head gap may not be set correctly. Try moving the Head Gap Lever (1) to a lower setting.

If that doesn’t help, the printhead may be damaged; call for service.
Problem 8
The ALARM light is flashing.

Solution
Try turning the printer off, then back on again. If the light still blinks, call for service.

Problem 9
The Print Quality and Character Pitch keys on the front panel don't work.

Solution
The Operator Panel Function in the printer menu can be used to disable these buttons (Limited Function). If the printer is part of a customized system or if it is used by a number of people, the system manager may have used this option to make sure the printer is always set properly.

Check with your system manager before changing any menu settings.

Problem 10
My printer keeps indicating "Paper out" even though there is paper installed.

Solution
The most likely cause is that the paper sensor groove at the left end of the platen is not covered by the paper. Move the paper over to cover the sensor groove.

Problem 11
When I am using continuous feed paper, the sprocket holes are torn, causing alignment problems.

Solution
The most likely cause is that the paper lever (right side of printer) is in the single sheet position. Make sure the lever is in the continuous forms position (forward).
Clearing Paper Jams

Rear Feed Jams
1. Turn the printer off.

2. Use the platen knob to back the paper all the way out of the printer.

CAUTION!
Make sure the printer is turned OFF before you remove the access cover.
3. Remove the access cover (1).

4. Move the bail arm lever (2) toward the front of the printer to open the bail arm.

**WARNING!**

The printhead may be **HOT**!

5. Remove any torn paper.

6. Reload the paper (see pages 14, ff.).
7. Move the bail arm lever (2) towards the rear of the printer and replace the access cover (1) being sure to feed the edge of the paper through the slot in the cover.

8. Turn the printer on.
Rear Feed, Repeating Paper Jams

If the paper keeps jamming, you may have:

- defective paper
- misaligned paper
- bits of paper in the paper path

For Defective Paper

Replace the defective paper with a fresh stack.

For Misaligned Paper

1. Turn the printer off.

2. Use the platen knob to back the paper all the way out of the printer.

3. Tear off a couple of sheets of paper, leaving a new, clean, square-cut edge.
4. Reload the paper.

5. Turn the printer back on.

For Bits of Paper in the Paper Path
1. Turn the printer off.

2. Remove any accessories.
3. Use the platen knob to back the paper all the way out of the printer.

4. Remove the access cover.

5. Remove any debris from the paper path.

6. Replace the access cover and any accessories which you removed.

CAUTION!
Make sure the printer is turned OFF before you remove the access cover.
7. Reload the paper.

8. Turn the printer on.
Single Sheet Paper Jams

1. Turn the printer off.

2. Use the platen knob to back the paper out.

CAUTION!
Make sure the printer is turned OFF before you remove the access cover.

3. Remove the access cover.

WARNING!
If the printer has been recently used, the printhead may be HOT!
4. Remove any torn pieces from around the carriage.
5. Replace the access cover.

6. Turn the printer back on.

7. Reload the paper.
Parts & Options

Replacement Parts

Ribbon Cartridge
(Oki 52102001)

Platen Knob
(Oki 53459807)

Power Cord
(Oki 56609701)

Access Cover
(Oki 53467410)

Paper Separator
(Oki 53459303)
Options

Pull Tractor (Oki 70009701)

Includes Pull Tractor (1), Acoustic Cover (2) and Access Cover (3).

Roll Paper Stand (46634101)
## Specifications

### General

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Print Method</strong></td>
<td>Impact dot matrix</td>
</tr>
<tr>
<td><strong>Printhead</strong></td>
<td>9 pins, 0.34 mm (0.0134&quot;) diameter, with thermal protection</td>
</tr>
<tr>
<td><strong>Emulations (co-resident)</strong></td>
<td>IBM 2480</td>
</tr>
<tr>
<td></td>
<td>Epson ESC/P2</td>
</tr>
<tr>
<td></td>
<td>Okidata MICROLINE Standard</td>
</tr>
<tr>
<td><strong>Print Speed, characters per second (cps)</strong></td>
<td>375 cps (12 cpi only)</td>
</tr>
<tr>
<td>Super Speed Draft (SSD)</td>
<td>333 cps</td>
</tr>
<tr>
<td>High Speed Draft (HSD)</td>
<td>250 cps</td>
</tr>
<tr>
<td>Utility (UTL)</td>
<td>62.5 cps</td>
</tr>
<tr>
<td>Near Letter Quality (NLQ)</td>
<td></td>
</tr>
<tr>
<td><strong>Buffer size</strong></td>
<td>128 Kb</td>
</tr>
</tbody>
</table>
## Paper

<table>
<thead>
<tr>
<th>Type</th>
<th>Feed</th>
<th>Weight</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut Sheets</td>
<td>Top only</td>
<td>16 to 21 lb. US Bond (60 to 81 g/m²)</td>
<td>3&quot; to 9.5&quot; (76 to 241 mm)</td>
</tr>
<tr>
<td>Continuous, Single Part</td>
<td>Rear/Bottom</td>
<td>14 to 20 lb. US Bond (53 to 75 g/m²)</td>
<td>3&quot; to 9.9&quot; (76 to 251 mm)</td>
</tr>
<tr>
<td>Continuous, Multipart</td>
<td>Rear/Bottom</td>
<td>14 to 20 lb. US Bond (53 to 75 g/m²)</td>
<td>3&quot; to 9.9&quot; (76 to 251 mm)</td>
</tr>
<tr>
<td>• 4 sheets (orig.+3), Carbonless</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Up to 0.11&quot; (0.28 mm) thick</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Reliability

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon Life</td>
<td>3 million characters, on average</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printhead Life</td>
<td>200 million characters average in 10 cpi utility mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mean Time Between Failures (MTBF)</td>
<td>20,000 hours at 25% duty cycle and 35% page density</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mean Time to Repair (MTTR)</td>
<td>15 minutes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Physical

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>3.15&quot; (80 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>14.17&quot; (360 mm)</td>
</tr>
<tr>
<td>Depth</td>
<td>10.83&quot; (275 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>8.6 lb. (3.9 Kg)</td>
</tr>
</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>120VAC, +6%, -15%</td>
</tr>
<tr>
<td></td>
<td>220-240VAC, ±10%</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 or 60 Hz, ±2%</td>
</tr>
</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Operating: 41 to 95°F (5 to 35°C)</td>
</tr>
<tr>
<td></td>
<td>Storage: -40 to 158°F (-40 to +70°C)</td>
</tr>
<tr>
<td>Humidity</td>
<td>Operating: 20 to 80% RH</td>
</tr>
<tr>
<td></td>
<td>Storage: 5 to 95% RH</td>
</tr>
<tr>
<td>Noise level</td>
<td>Normal: Less than 58 dBA (Utility Print)</td>
</tr>
</tbody>
</table>
## Interfaces

<table>
<thead>
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<th></th>
<th>Centronics Parallel, IEEE-1284 compliant USB 2.0 (Full Speed)</th>
</tr>
</thead>
<tbody>
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<td></td>
</tr>
<tr>
<td><strong>Serial Models</strong></td>
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