



User's Guide



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Helpful Hints

Your printer has many features and capabilities that will help you:

- · save money.
- save time.
- operate the machine.

This section summarizes the features and capabilities directly connected to saving money and time.

Details for these features and capabilities are provided in other sections of this document.

You may want to use some of our Helpful Hints when working with your machine.

Saving Money

Saving Money: Forms Tear-Off

The Forms Tear-Off feature allows a printed page (rear feed, continuous form) to be torn off without wasting paper or adjusting the printer.

Forms Tear-Off automatically moves the paper from the initial printing position (print start position) to the tear-off position, after a time interval (which you select through the menu).

The top of the page (perforation) is even with the tear bar. The tear bar is located under the clear top of the access cover.

Paper remains in the tear-off position until the printer receives more data. Then, the paper moves back down for printing (retracts to the initial print position).

When printing stops, the paper will advance to the tear-off position.

This feature is normally turned off.

Forms Tear-Off and the Top of Form settings interact.

For more information, refer to "Using Your Printer, Forms Tear-Off" and "Using Your Printer, Top of Form."

Saving Time

Saving Time: Internet Support

Oki Data provides support via the Internet.

Oki Data's main web site, www.okidata.com, is the gateway to Oki Data's products and services.

my.okidata.com is a powerful area of Oki Data's web site designed to help you personalize the information and service you get from Oki Data.

You can find information at your convenience, at any time. For more information, refer to "Service and Support, Internet Support."

Saving Time: Paper Park

Your printer's paper park feature allows you to print a single sheet (cut-sheet) page without removing continuous feed paper from the printer.

For more information, refer to "Using Your Printer, Paper Park."

Saving Time: Moving Through the Menu

When the printer is in Menu Mode, you can move forward or backwards through the menu.

To move forward, press GROUP, ITEM, or Set, whichever is appropriate.

To move backward, press and hold SHIFT, then GROUP, ITEM, or Set, whichever is appropriate.

For more information, refer to "Using Your Printer, Menu Mode."

Operation Tips

Operation Tip: Top of Form

- If you turn the platen knob when the printer is turned
 on, you will cause the Top of Form to mis-align. Always turn the printer off before turning the platen knob!
- Always determine the status of the Forms Tear-Off menu
 setting BEFORE setting the Top of Form. Refer to
 "Using Your Printer, Top of Form, Forms Tear-Off
 Status (ON or OFF)."

Top of Form sets the print start position for the printer. It is adjustable in increments of 1/144 of an inch. The amount of adjustment is limited to avoid paper jams.

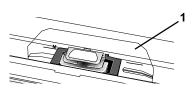
The Top of Form may be left at the factory default (1 inch), changed for a single print job, or set to a new (permanent) default.

The first line prints at the red line of the plastic paper shield (1) on the printhead.

The Top of Form and Forms Tear-Off settings of your printer interact.

How you set the Top of Form depends on the status of the Forms Tear-Off menu setting.

For more information, refer to "Using Your Printer, Top of Form (TOF)."



Operation Tip: Turning the Platen Knob

If you turn the platen knob when the printer is turned
 on, you will cause the Top of Form to mis-align. Always turn the printer off before turning the platen knob!

Operation Tip: Control Access to the Printer

You can control access to the printer by changing the setting for the Operator Panel Function (in the Menu).

When the Operator Panel Function is set to Full Operation (the factory default), all keys on the front panel operate.

When the Operator Panel Function is set to Limited Operation, the PRINT QUALITY and CHARACTER PITCH keys don't work. This prevents these settings from being changed from the control panel when several people are using the printer.

For more information, refer to "Using Your Printer, Menu Mode, Menu Settings Table, Setup, Operator Panel Function."

Introduction

Thank you for purchasing this printer.

This rugged 24-pin printer can meet the needs of harsh and demanding environments. The expanded printhead gap, zero-tear capability, and multiple paper feed paths allow the printer to handle a wide variety of media, including 6-part forms. Your printer will provide years of dependable and efficient service.

In addition to the many standard features, options can expand the machine's capabilities.

For information on the options, see "Accessories."

Oki Data on the Internet

The Oki Data Web Sites provide the most current information available on your product.

An on-line version of this document is available for viewing and downloading via Oki Data's Web Sites.

You may reach Oki Data via the Internet at:

- www.okidata.com
- my.okidata.com

For more information on the Oki Data Web Sites, refer to "Service and Support, Internet Support."

Printer Features

- Super reliable, durable operation: 10,000 hours Mean Time Between Failures (MTBF)!
- Expandable head gap for handling forms up to 0.031" (0.79 mm) thick through the bottom feed path using the optional push and/or pull tractor.
- Advanced paper handling, with built-in rear push tractor and zero-tear forms capability.
- Blazing print speeds:
 - Utility Mode
 - 260 to 390 cps
 - depends on selected characters per inch
 - Letter Quality Mode
 - 87 to 174 cps
 - depends on selected characters per inch
- 100% backward compatible with Microline 390/391 printers.

Parts Identification

The parts identified here are parts of the unit that you will use during normal operation.

For accessories (consumables, options, replacement parts, and documentation), refer to "Accessories."

Printer Serial Number

The serial number of your machine is on a label on the back of your machine.

The label says "S/N."

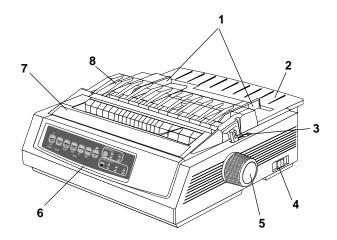
An example serial number is: 401A0154693.

- You will need your printer serial number if your
- machine requires servicing.

A written receipt for the product, showing the date of purchase, dealer's name, and both the model and serial numbers of the product must accompany any request or claim for work to be performed under Limited Warranty.

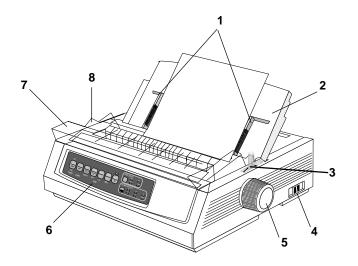
Parts Identification: Rear Feed (Continuous Forms)

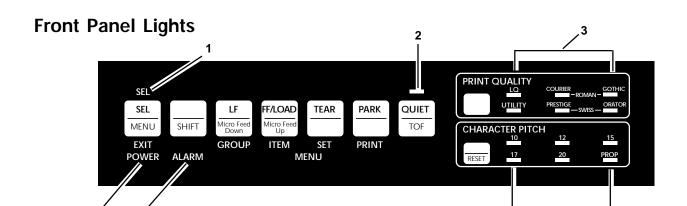
- 1 Paper Guides
- 2 Paper Separator
- 3 Paper Lever
- 4 On-Off Switch
- 5 Platen Knob
- 6 Control Panel
- 7 Acoustic Cover
- 8 Access Cover
- **♦** Move the paper lever to the position marked "REAR."
- For rear feed, the paper lever is towards the front of the printer.



Parts Identification: Top Feed (Single-Sheet)

- 1 Paper Guides
- 2 Paper Separator
- 3 Paper Lever
- 4 On-Off Switch
- 5 Platen Knob
- 6 Control Panel
- 7 Acoustic Cover (open)
- 8 Access Cover
 - Move the paper lever to the position marked "TOP."
- The paper lever is towards the back of the printer.

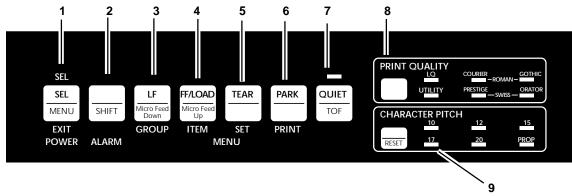




- SEL: Glows = printer selected, ready to receive data
 Flashes = printer in Print Suppress Mode
 Not lit = printer deselected (cannot receive data)
- 2 QUIET: Glows = printer is in Quiet mode.
- **3** Print Quality: Indicates selected print quality and typeface.

- 4 POWER: Glows = printer is turned on.
- **5** ALARM: Glows = error condition exists:
 - out of paper (no other lights blinking)
 - paper jam if 15 cpi light is also blinking
 - paper lever is set to wrong position if 10 cpi light is also blinking.
 - Blinks = error condition. Turn printer off, then on; if light still flashes, contact service dealer.
- 6 10 / 12 / 15 / 17 / 20 / PROP: Indicate selected character pitch.

Front Panel Keys



- 1 SEL: Selects/deselects printer (printer on-line / off-line). When held on power up, or with SHIFT key, engages Menu Mode.
- **2** SHIFT: Press and hold while pressing another key to engage the alternate function for that key (e.g., "Micro Feed Down" for LF key).
- 3 LF: Moves paper up one line: press and hold for repetitive line feeds. When held on power up, activates Font Test.
- **4** FF/LOAD: Loads/ejects single sheet of paper; loads continuous-form paper or feeds it to next page.

- **5** TEAR: Moves continuous-form paper up for tear-off or back down for printing.
- **6** PARK: Retracts continuous-form paper from the path.
- 7 QUIET: Turns Quiet Mode on and off. When held on power up, activates Rolling ASCII Test.
- **8** PRINT QUALITY: Selects print quality and typeface.
- **9** CHARACTER PITCH: Selects the character pitch. Used with SHIFT key to reset the printer and clear the buffer.

Installation

Installation Hints

- Read the setup and operating instructions in this document carefully. Be sure to save this document for future reference.
- Read and follow all warning and instruction labels on the printer itself.
- Place your printer on a firm, solid surface. If you put in 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.
- The printer must be installed near a power outlet which will remain easily accessible.
- 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. It will only fit into a grounded outlet. If you can not plug it in, chances are that you have an older, nongrounded outlet. Contact an electrician to have it replaced with a grounded outlet. Do not use an adapter to defeat the grounding.
- 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.
- Protect your printer from overheating. Make sure the
 openings on the printer are not 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.

Installation Overview

To install your new printer, follow the instructions in this section. You must complete these steps for your printer to operate properly.

If you have purchased an accessory (option) for your printer, refer to the documentation you received with that accessory for installation instructions.

Installation Location

- Place your printer on a firm, solid surface.
- Allow enough space on each side of the machine to easily access the platen knob and the various paper feed paths.
- Make sure a power outlet is available nearby.

Customizing the Installation

Your printer has many settings (defaults) that do not need to be adjusted as part of a standard installation.

However, you may need to adjust settings to fit your standards.

Some settings you may need to adjust as part of your installation are:

- Top of Form (TOF)
- Paper Path
- Printhead Gap

To adjust these settings, refer to the appropriate section in "Using Your Printer."

Top of Form (TOF)

- If you turn the platen knob when the printer is turned
- on, you will cause the Top of Form to mis-align. Always turn the printer off before turning the platen knob!
- **♦** The factory default setting for the Top of Form (where
- the printing should begin) is one inch down from the top of the page.
- Your software may print the first line of print above or
- below where TOF is set. You may need to adjust the TOF to meet your software's needs. Use the procedures in "Using Your Printer, Top of Form, Forms Tear-Off Status (ON or OFF)."
- The first line prints at the red line of the plastic paper
- shield (1) on the printhead.



The Top of Form and Forms Tear-Off settings of your printer interact.

How you set the Top of Form depends on the status of the Forms Tear-Off menu setting.

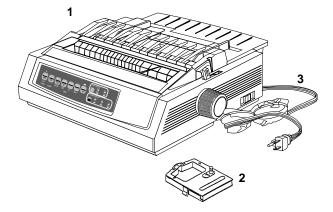
If Forms Tear-Off is activated (set to ON), set the Top of Form using "Using Your Printer, Setting Top of Form, Forms Tear-Off ON (Step A)."

If Forms Tear-Off is NOT activated (set to OFF), set the Top of Form using the "Using Your Printer, Setting Top of Form, Forms Tear-Off OFF (Step B)."

Unpacking the Machine

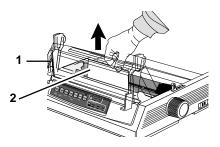
Before you begin, be sure that all the items listed below are included in your package.

- **♦** If any items are missing, contact your dealer
- immediately. Keep you packing materials and carton in case you ever need to ship or transport the unit.
- 1 Printer
- 2 Ribbon Cartridge
- 3 Power Cord

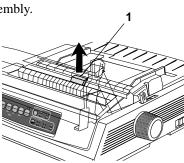


Shipping Restraints

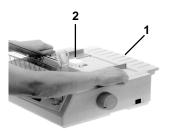
1 Open the access cover (1). Remove the printhead shipping restraint (2) and tape.

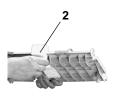


2 Remove the shipping restraint (1) behind the pull-up roller assembly.



3 Grasp the tabs and lift off the paper separator (1). Remove the shipping restraint (2).





4 Install the paper separator.



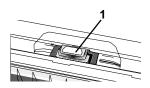
Keep your packing materials and carton in case youever need to ship or transport the unit.

Ribbon Cartridge

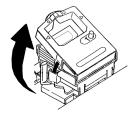
- Important: Make sure you have the correct replacement
- ribbon for the ML390/391 Turbo Printers (P/N52104001).

The wrong ribbon WILL NOT print when installed on the ML390/391 Turbo Printers.

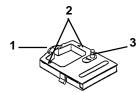
- 1 Make sure the printer is turned OFF.
- **2** Center the printhead (1).



- 3 If you are replacing the ribbon: swing the front of the cartridge up off the printhead, then lift the cartridge out and discard it.
 - Caution! The printhead may be HOT!



- 4 Unpack the ribbon cartridge.
- Important! DO NOT remove the ribbon shield from the ribbon!
 - 1 Ribbon Shield
 - 2 Grip Points
 - 3 Take-up Knob



5 Install the new ribbon cartridge.



6 Turn the take-up knob in the direction of the arrow to take up any ribbon slack.



Ribbon Cartridge Handling

- Leave unused ribbon cartridges in their packages until needed.
- When replacing a ribbon cartridge, re-use the packaging to dispose of the old ribbon cartridge.
- Be careful when removing the ribbon cartridge. Do not let it touch your clothing or porous materials. The ribbon ink may cause permanent stains.
- Ribbon ink on skin or clothing can usually be removed with soap and water.

Ribbon Cartridge Emergency First Aid

Contact occurs with eyes.

Flush eyes with large quantities of water for 15 minutes, keeping eyelids open with fingers. Seek medical attention.

Contact occurs with skin

Wash thoroughly with soap and water.

For more information

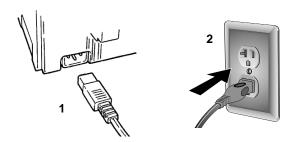
Refer to the Material Safety Data Sheet in "Warranty, Regulatory, and Safety Information."

Accessories

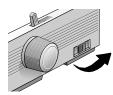
If you have purchased an accessory (option) for your printer, refer to the documentation you received with that accessory for installation instructions.

Power Connections

- 1 Make sure both the printer and the computer are OFF.
- 2 Plug the power cord into the back of the printer (1), then into a grounded outlet (2).



3 Turn on the printer.



Paper Loading

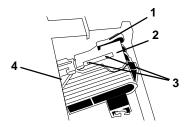
Rear Feed, Continuous Forms

Use the rear-feed path for printing on single-thickness, continuous-form paper.

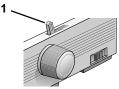
Use the single-sheet path (top feed) for graphics or charts.

If you have paper in the paper path, be sure to remove itbefore installing rear-feed paper.

- 1 Lock Lever
- 2 Upper Tractor Cover
- 3 Pins
- 4 Lower Tractor Cover



1 Move the paper lever (1) to the position marked "REAR."

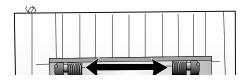


2 Grasp the tabs and lift off the paper separator.



3 Pull up on the lock levers and open the tractor covers.

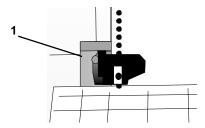
Then, move the right tractor to fit the width of the paper.



4 Place the first two holes in the paper over the tractor pins on either side. Close the tractor covers.



5 Move the left tractor to align the edge of the paper with the appropriate reference mark (1). Then, push back the lock lever.

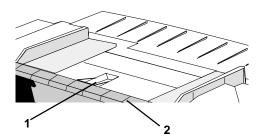


6 Adjust the position of the right tractor to center the holes in the paper on the pins. Then, push back the right lock lever. Do not stretch the paper.





7 Install the paper separator. Place the wire guide (1) on the pull-up roller assembly (2).



- **8** Press FF/LOAD. The paper feeds into the printer.
- The factory default setting for the Top of Form (where
- the printing should begin) is one inch down from the top of the page. To change the setting, see "Using Your Printer, Top of Form (TOF)."

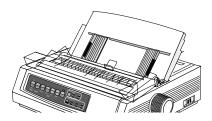
Top Feed (Single Sheets)

Use the single-sheet path for letterhead stationery, memos, and individual envelopes.

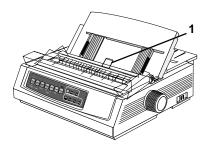
- If you have continuous-form paper in the path, press
 PARK to remove it before loading single sheets.
- 1 Make sure the printer is on and deselected (SEL light off).
- 2 Place the paper lever in the position marked "TOP."



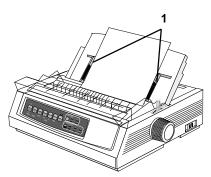
3 Open the carriage cover. Raise the paper separator to the single-sheet position.



4 Make sure the wire feed guide (1) is secured in the sheet guide.



5 Adjust the paper feed guides (1) for the width of the paper. Place a sheet of paper in the separator. The paper will feed into the printer.



- Important!
- If the paper does not feed in, remove it. Check the paper lever position. Make sure the ALARM light is on: if it is flashing, hold the SHIFT key and press the CHARACTER PITCH (RESET) key. Reload the sheet of paper.
- The factory default setting for the Top of Form (where the printing should begin) is one inch down from the top of the page. To change the setting, see "Using Your Printer, Top of Form (TOF)."

Testing the Printer

Running the printer self tests is a good way to check the installation of your printer.

The two self tests are:

- Font Sample Test
- Rolling ASCII Test

- **♥** Wide Carriage Model
- Microline 391 Turbo/n

If you are using 8.5 inch paper to run the test, make sure the paper width selection in the printer menu is set to 8.5 inches. Otherwise, printing on the platen may damage the printer. Refer to "Using Your Printer, Menu Mode, Explanations of Menu Items."

Font Sample Test

- The Font Sample Test automatically stops after all the
- available fonts print.
- **♦** Wide Carriage Model
- Microline 391 Turbo/n

If you are using 8.5 inch paper to run the test, make sure the paper width selection in the printer menu is set to 8.5 inches. Otherwise, printing on the platen may damage the printer. Refer to "Using Yo

The Font Sample Test prints a sample of the fonts standard to the printer.

The top of the printout has the Printer Model, Emulation, Country Code, Interface, and Firmware Revision Level for your printer.

To run the test:

• Turn the printer off, then press and hold the LF key while turning the printer back on.



To exit the test:

Press SEL.



Rolling ASCII Test

Wide Carriage Model

Microline 391 Turbo/n

If you are using 8.5 inch paper to run the test, make sure the paper width selection in the printer menu is set to 8.5 inches. Otherwise, printing on the platen may damage the printer. Refer to "Using Your Printer, Menu Mode, Explanations of Menu Items."

- **♦ The Rolling ASCII Test DOES NOT automatically stop.**
- You must manually stop it.

The Rolling ASCII Print Test produces a continuous printout of all 96 ASCII characters in a rolling pattern. The type style set in the printer menu will be utilized.

Use the Rolling ASCII Test to check the following.

- Print Quality
 Across the entire length of a line
 Down the entire page
- Line Spacing
- Character Formation

The top of the printout has the Printer Model, Emulation, Country Code, and Firmware Revision Level.

To run the test:

• Turn the printer off, then press and hold the QUIET key while turning the printer back on.



To exit the test:

Press SEL.



Local Printer Installation

You MUST install your printer as a Local Printer before you perform any network installation.

During this part of your printer installation, you DO NOT connect a cable between your printer and your computer.

You are making an installation to a logical port, which is done through software, not physical connections.

If you want to use the parallel port, you MUST remove the Network Card from the printer. See the OkiLAN 6120e User's Guide for details.

Installing Printer Software

Windows 95, 98, Me, NT4.0

- 1 With the OKI ML 390/391 Turbo/n CD in your CD-ROM drive, click Start→ Run.
- 2 Browse to your CD-ROM drive, then double-click install.exe.
- 3 Select the ML 390/1Tn printer model.
- 4 On the OKI Menu Installer main menu, click Printer Software.
- Make sure the ML390/1Tn Driver is selected.
- 6 Select Local Printer. Click Next.
- 7 Select **LPT1**. Click **Next**.
- 8 Click Finish.

Installing Printer Software

Windows 2000

- 1 With the OKI ML 390/391 Turbo/n CD in your CD-ROM drive, click **Start→ Run.**
- 2 Browse to your CD-ROM drive, then double-click install.exe. Click OK.
- 3 Select the 390/1Tn printer. Click Continue.
- 4 On the OKI Menu Installer main menu, click **Printer Software**. This launches the Add Printer Wizard.
- 5 Select Local. Clear Automatically detect and install my Plug and Play printer. Click Next.
- **6** Click **Next** to accept LPT1 as the port selection.

- 7 Click Have disk.
- 8 Click Browse.
- 9 Locate CD-ROM in the pull-down menu.
- 10 Open the **Drivers**\390391\Win2k\ folder.
- 11 Select OEMPRINT.INF. Click Open.
- 12 Click OK.
- 13 OKI ML390/1 Turbo displays in the Printers window. Click Next—do not select Have disk.
- **14** Rename the printer if you wish. Click **Next**.
- 15 Select Do not share this printer. Click Next.
- **16** Do not print a test page. Click **Next**.
- 17 Click Finish.
- 18 If the Digital Signature Not Found window appears, click Yes.
- 19 Click Next.

Network Printer Installation

- You MUST install your printer as a Local Printer before
- you perform any network installation.
- If you want to use the parallel port, you MUST remove
- the Network Card from the printer. See the OkiLAN 6120e User's Guide for details.

For detailed information on installing network software and setting up your printer on a network, refer to the on-line OkiLAN 6120e User's Guide.

From the OKI Menu Installer, click **Network and Admin** Software→ Network Documentation.

Connecting the Network Cable

- 1 Plug the power adapter wire into the power jack on the OkiLAN 6120e. Then plug the power adapter into a 120 VAC wall outlet.
- Some countries may require a different adapter for local voltages, such as 240 VAC.



2 Attach the 10/100 Base-T UTP cable to the receptacle on the back of the OkiLAN 6120e. Attach the other end of the cable to the Network.



3 Plug the printer power cord into the power outlet.



Connecting to the Parallel Port

If you want to use the parallel port, you MUST remove
 the Network Card from the printer. See the OkiLAN
 6120e User's Guide for details.

FCC regulations require the use of a shielded cable no longer than 6 ft. (1.8 m).
 An IEE 1284-compatible parallel cable is needed for

1 Plug the interface cable into the parallel port (1) and secure it with the wire loops.

bi-directional communications.



2 Attach the other end of the cable to your computer.

Emulations

The factory default emulation for your printer is Epson® LQ. If you need to change the emulation, refer to "Using Your Printer, Emulations."

Printer Drivers

Before you can use your printer, you must select the correct printer driver in your software. If you select the wrong driver, you will see strange characters, incorrect fonts, etc.

 See your software documentation for information on how to select a printer driver.

For more information on printer drivers, refer to "Using Your Printer, Printer Drivers."

Product Registration

my.okidata.com

Your Personal Solutions Center

Register your printer and create your own personalized support center with *my.okidata.com*.

my.okidata.com is a powerful area of our web site designed to help you get the most from your OKI printer. It represents our commitment to providing you with solutions, finding out the latest updates about your OKI products, and getting the details on OKI programs and services that can help your bottom line.

You can also

- · Choose to receive product updates via e-mail.
- Have private access to our solutions section.
- Check out the What's New section to see what's changed since your last visit.
- Get your own Solutions Specialist that you can contact directly via e-mail when you need assistance.

my.okidata.com offers you support, solutions and more, all personalized for you and your specific OKI printer. Start using *my.okidata.com* today!

Registering Your Printer

You can register your printer by:

- visiting our website at http://www.okidata.com.
 Click on Product Registration.
- filling out the hardcopy registration form and mailing it in
 or

faxing it in.

Service and Support

If you need further assistance or have questions, please refer to "Service and Support."

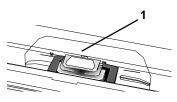
Using Your Printer

Top of Form (TOF)

- If you turn the platen knob when the printer is turned
 on, you will cause the Top of Form to mis-align. Always turn the printer off before turning the platen knob!
- The factory default setting for the Top of Form (where
 the printing should begin) is one inch down from the top
 of the page.
- Your software may print the first line of print above or below where TOF is set. You may need to adjust the TOF to meet your software's needs. Use the procedures in "Using Your Printer, Top of Form, Forms Tear-Off Status (ON or OFF)."

Top of Form sets the print start position for the printer. It is adjustable in increments of 1/144 of an inch. The amount of adjustment is limited to avoid paper jams.

The first line prints at the red line of the plastic paper shield (1) on the printhead.



Top of Form (TOF) and Forms Tear-Off

- If you turn the platen knob when the printer is turned
- on, you will cause the Top of Form to mis-align. Always turn the printer off before turning the platen knob!
- Your software may print the first line of print above or
- below where TOF is set. You may need to adjust the TOF to meet your software's needs. Use the procedures in "Using Your Printer, Top of Form, Forms Tear-Off Status (ON or OFF)."

The Top of Form and Forms Tear-Off settings of your printer interact.

How you set the Top of Form depends on the status of the Forms Tear-Off menu setting.

If Forms Tear-Off is activated (set to ON), set the Top of Form using Step A.

Refer to "Using Your Printer, Setting Top of Form, Forms Tear-Off ON (Step A)."

If Forms Tear-Off is NOT activated (set to OFF), set the Top of Form using Step B.

Refer to "Using Your Printer, Setting Top of Form, Forms Tear-Off OFF (Step B)."

Forms Tear-Off Status (ON or OFF)

Before you set the Top of Form, you need to know the status of the Forms Tear-Off menu setting (whether it is ON or OFF).

There are two ways to determine the status of the Forms Tear-Off menu setting:

- print the Menu.
- use the TEAR key.

To print the Menu, refer to "Using Your Printer, Menu Mode, Print the Menu Settings."

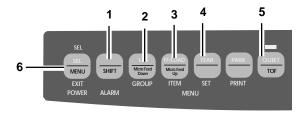
To use the TEAR key:

- 1 Load paper.
- 2 Press TEAR.
- 3 If the paper moves up, then Forms Tear-off is OFF.
 If the paper moves down, then Forms Tear-off is ON.

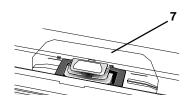
Setting Top of Form, Forms Tear-Off ON (Step A)

- If you turn the platen knob when the printer is turned
 on, you will cause the Top of Form to mis-align. Always turn the printer off before turning the platen knob!
- Always determine the status of the Forms Tear-Off menu
 setting BEFORE setting the Top of Form. Refer to "Using Your Printer, Top of Form, Forms Tear-Off Status (ON or OFF)."
- 1 Turn the printer ON.
- 2 Park the paper.
- **3** With paper out of the unit, (red alarm light should be on) press SHIFT (1) and QUIET/TOF (5) to reset the current Top of Form.
- 4 Press FF/LOAD (3) to load the paper.
- 5 Press SEL/MENU (6) to take the printer off line. The SEL light goes out.
- **6** Wait until the paper moves up to the tear position, then press and hold TEAR (4).
 - The paper moves to the current Top of Form.
 - Keep pressing and holding TEAR.
- 7 Press and hold SHIFT and release TEAR.

- **8** As you continue to hold SHIFT, press the LF / Micro Feed Down (2), or FF/LOAD / Micro Feed Up (3), depending on which direction you want to move the paper to align Top of Form.
 - Press LF / Micro Feed Down to decrease the space (move Top of Form higher). The paper moves down.
 - Press FF/LOAD / Micro Feed Up to increase the space (move Top of Form lower). The paper moves up.



- The first line prints at the red line of the plastic paper
- shield (7) on the printhead.



- **9** Keep holding SHIFT and press QUIET/TOF a few times to set the Top of Form.
- **10** When the Top of Form is at the correct position, release all keys.
- 11 Press SEL/MENU to place the printer on-line.

Setting Top of Form, Forms Tear-Off OFF (Step B)

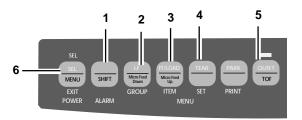
- If you turn the platen knob when the printer is turnedon, you will cause the Top of Form to mis-align. Always
- on, you will cause the Top of Form to mis-align. Alway turn the printer off before turning the platen knob!
- Always determine the status of the Forms Tear-Off menu
- setting BEFORE setting the Top of Form. Refer to "Using Your Printer, Top of Form, Forms Tear-Off Status (ON or OFF)."

- 1 Turn the printer ON.
- **2** Press SEL/MENU (6) to take the printer off line. The SEL light goes out.
- **3** Press and hold SHIFT (1).

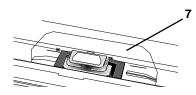
Then, press LF / Micro Feed Down (2) or FF/LOAD / Micro Feed Up (3), depending on which direction you want to move the paper to align the tear-off position.

Press LF / Micro Feed Down to decrease the space (move Top of Form higher). The paper moves down.

Press FF/LOAD / Micro Feed Up to increase the space (move Top of Form lower). The paper moves up.



- The first line prints at the red line of the plastic paper
- shield (7) on the printhead.



- **4** Keep holding SHIFT and press QUIET/TOF a few times to set the Top of Form.
- **5** When Top of Form is at the correct position, release all keys.
- **6** Press SEL/MENU to place the printer on line.
- **♦** If you turn the platen knob when the printer is turned
- on, you will cause the Top of Form to mis-align. Always turn the printer off before turning the platen knob!
- For information on resetting the Top of Form to the
- factory default, refer to "Using Your Printer, Top of Form, Reset Top of Form to Factory Default."

Temporary Top of Form Change

- If you turn the platen knob when the printer is turned on, you will cause the Top of Form to mis-align.
 Always turn the printer off before turning the platen knob!
- The factory default setting for the Top of Form (where the printing should begin) is one inch down from the top of the page.
- To change the Top of Form (move it lower) *for one page only*:
- 1 Press SEL to deselect the printer.
- 2 Press LF to change the position of the Top of Form.

Reset Top of Form to Factory Default

- If you turn the platen knob when the printer is turned
 on, you will cause the Top of Form to mis-align. Always turn the printer off before turning the platen knob!
- The factory default setting for the Top of Form (where
 the printing should begin) is one inch down from the top of the page.

There are two ways to reset the Top of Form to the factory default:

- with the printer ON.
- with the printer OFF.

Printer ON

1 With the printer ON, and paper parked (out of the printer) Press QUIET/TOF.

Printer OFF

1 With the printer OFF, and no paper installed, Press and hold PARK + QUIET/TOF while turning on the printer.

Forms Tear-Off

The status of the Forms Tear-Off menu setting affects
 how you set the Top of Form.

To determine the status of the Forms Tear-Off menu setting, refer to "Using Your Printer, Top of Form, Forms Tear-Off Status (ON or OFF)."

For information on setting the Top of Form, refer to "Using Your Printer, Top of Form, Setting Top of Form, Forms Tear-Off (ON or OFF)."

The Forms Tear-Off feature allows a printed page (continuous forms, rear or bottom feed, with no pull tractor option installed) to be torn off without wasting paper or adjusting the printer.

Forms Tear Off automatically moves the paper from the initial printing position to the tear-off position, after a time interval (which you select through the menu).

The top of the page (perforation) is even with the tear bar. The tear bar is located under the clear top of the access cover.

Paper remains in the tear-off position until the printer receives more data. Then, the paper moves back down for printing (retracts to the initial print position).

When printing stops, the paper advances to the tear-off position.

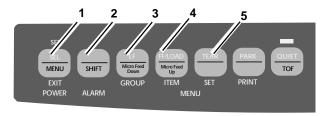
The default setting for Forms Tear-Off is OFF.

There are two types of Forms Tear-Off:

- Automatic Forms Tear-Off
- · Manual Forms Tear-Off
- If the software package you are using "pauses" while sending data to the printer, Forms Tear-Off may be activated (if it is enabled through the Menu). The pause must be for two or more seconds. No data is lost. Uneven print registration will occur due to the paper movement. If the problem occurs, use the menu to turn off this feature.
- DO NOT use Forms Tear-Off with labels or multi-part forms!
- Forms Tear-Off CANNOT be used when the optional pull tractor is engaged.

Changing the Forms Tear-Off Setting

The default setting for Forms Tear-Off is OFF.



To change the Forms Tear-Off setting:

- **1** Press SHIFT (2) + SEL (1).
- 2 Press GROUP (3) until one of the following lines appears, depending on which paper feed you are using

REAR FEED Form Tear-Off OFF BOTTOM FEED Form Tear-Off OFF

- 3 Press ITEM (4) until Form Tear-Off appears in the second column.
- **4** Press SET (5) until the time interval you wish to select appears in the third column.
- 5 Press SHIFT (2) + SEL (1) to exit Menu Mode and save the setting.

- The status of the Forms Tear-Off menu setting affects
 how you set the Top of Form.
- If the software package you are using "pauses" while sending data to the printer, Forms Tear-Off may be activated (if it is enabled through the Menu). The pause must be for two seconds or more. No data is lost. Uneven print registration will occur due to the paper movement. If the problem occurs, use the menu to turn off Forms Tear-Off.
- DO NOT use Forms Tear-Off with labels or multi-part forms!
- Forms Tear-Off CANNOT be used when the optional pull tractor is engaged.

Automatic Forms Tear-Off

Forms Tear-Off must be set to ON in the menu for Automatic Forms Tear-Off to occur.

Automatic Forms Tear-Off automatically moves the paper from the initial printing position (print start position) to the tear-off position, after a time interval which you select through the menu.

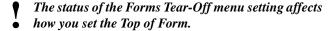
The top of the page (perforation) is even with the tear bar. The tear bar is located under the clear top of the access cover.

Paper remains in the tear-off position until the printer receives more data. Then, the paper moves back down for printing (retracts to the initial print position).

When printing stops, the paper advances to the tear-off position.

TEAR Key and Automatic Forms Tear-Off

If you press TEAR (1) when Forms Tear-Off is turned on (activated in the printer menu), the printer retracts the paper to the Top of Form position.



To determine the status of the Forms Tear-Off menu setting, refer to "Using Your Printer, Top of Form, Forms Tear-Off Status (ON or OFF)."

For information on setting the Top of Form, refer to "Using Your Printer, Top of Form, Setting Top of Form, Forms Tear-Off (ON or OFF)."

- If the software package you are using "pauses" while sending data to the printer, Forms Tear Off may be activated (if it is enabled through the Menu). The pause must be for two or more seconds. No data is lost. Uneven print registration will occur due to the paper movement. If the problem occurs, use the menu to turn off this feature.
- DO NOT use Forms Tear Off with labels or multi-part forms!
- Forms Tear-Off CANNOT be used when the optional pull tractor is engaged.

Manual Forms Tear-Off

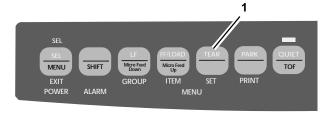
Manual Forms Tear-Off allows you to advance a single page to the tear-off position.

Manual Forms Tear-Off works when Forms Tear-Off is turned off (deactivated in the printer menu).

When Forms Tear-Off is turned on (activated in the printer menu), and you attempt Manual Forms Tear-Off, the printer retracts the paper to the Top of Form position.

- DO NOT use Forms Tear-Off with labels or multi-part forms!
- Forms Tear-Off CANNOT be used when the optional pull tractor is engaged.

1 Press TEAR (1) to advance continuous-form paper up to the tear position.



TEAR Key

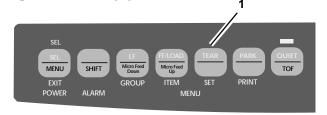
Forms Tear-Off set OFF

If you press TEAR (1) when Forms Tear-Off is turned off (deactivated in the printer menu), the printer advances continuous-form paper up to the tear position.

Manual Forms Tear-Off allows you to advance a single page to the tear-off position.

Manual Forms Tear-Off works when Forms Tear-Off is turned off (deactivated in the printer menu).

Forms Tear-Off CANNOT be used when the optional pull tractor is engaged.

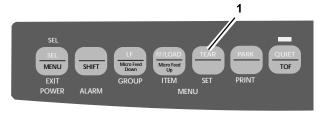


Forms Tear-Off set ON

If you press TEAR (1) when Forms Tear-Off is turned on (activated in the printer menu), the printer retracts the paper to the Top of Form position.

Forms Tear-Off CANNOT be used when the optional

• pull tractor is engaged.



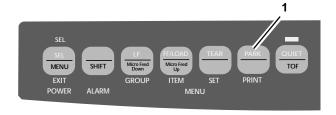
Paper Park



Never park labels!

Paper park allows you to print a single sheet (cut-sheet) page without removing continuous feed paper from the printer.

Press PARK (1) to retract rear-feed paper from the paper path.



Changing Paper Paths

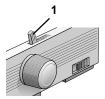
Continuous-forms to single-sheet feed

- 1 Tear off any printed pages.
- 2 Press PARK.
- 3 Raise the paper separator to the single-sheet feed position.
- 4 Place the wire feed guide in the paper separator.
- 5 Move the paper lever to the position marked "TOP."
 The paper lever is towards the back of the printer.
- **6** Place a sheet of paper in the paper separator.



Single-sheet feed to continuous forms

- 1 Press FF/LOAD to remove the single-sheet paper.
- **2** Lower the paper separator into the continuous-forms position. Swing the wire feed guide over onto the pull-up roller.
- **3** Move the paper lever to the appropriate position. For rear feed (1), the paper lever is towards the front of the printer.
 - For bottom feed, (2), the paper lever is in the center position.
- 4 If necessary, load continuous-form paper.
- 5 Press FF/LOAD.



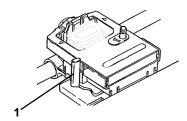


Printhead Gap

The printhead gap is the distance between the printhead and the platen.

Make sure the printer is turned off before you open the access cover.

To adjust the gap, open the access cover and move the blue lever (1) to the recommended setting from the table.



Media	Setting
12-20 lb paper	1
20-24 lb bond paper	2
Labels	3 or 4
Envelopes	4 or 5
2-part form (with carbon)	1 or 2
3-part form (with carbon)	2 or 3
4-part form (with carbon)	3 or 4
5-part form (with carbon)	4 or 5
6-part form (with carbon)	5

For dedicated, bottom-feed printing of extra-thick continuous forms (requires optional push and/or pull tractor), the printhead gap range can be expanded to take forms up to 0.031" (0.79 mm) thick. For more information, refer to "Using Your Printer, Printhead Gap, Expanded Printhead Gap."

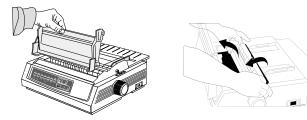
Expanded Printhead Gap

Your printer can be used for dedicated bottom-feed printing on extra-thick multi-part forms. Extra-thick multi-part forms range from 0.017-inch (0.43 mm) to a maximum of 0.03 inch (0.79 mm). To print on extra-thick multi-part forms, you engage the expanded printhead gap feature. This expands the head gap settings for extra-thick forms and heavy card stock. It also increases the impact strength of the pins in the printhead.

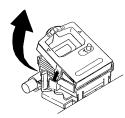
CAUTION! Once the expanded printhead gap is engaged, you cannot print on single sheets without changing the gap back. If you try to print on single sheets without adjusting the printhead gap, you can damage the printhead and void your warranty. To disengage the expanded printhead gap, reverse the following steps.

To engage the expanded printhead gap:

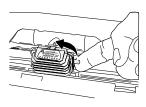
- 1 Turn the printer off.
- 2 Remove the access cover and the pull-up roller assembly.

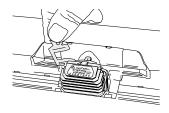


- 3 Move the printhead to the center of the platen.
- 4 Remove the ribbon cartridge.

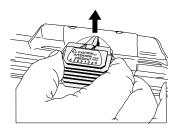


5 Swing up the printhead clamp, then remove it by pushing forward (toward the platen) and to the left.

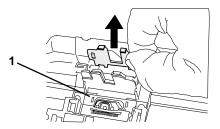




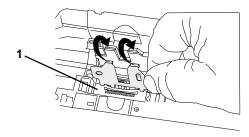
6 Remove the printhead.



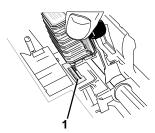
7 Lift the printhead plate off the carriage assembly (1).



8 Turn the printhead plate around and reinsert it on the other side of the carriage assembly (1).



9 Replace the printhead, making sure that the circuit board at the bottom of the printhead firmly engages the slot (1) in the carriage.



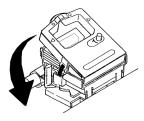
CAUTION! Be sure the printhead is fully inserted before proceeding.

10 Reinstall the printhead clamp and swing it back over to lock the printhead in place.

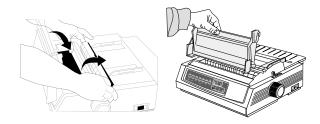


Important! The clamp must be between the black projection on the printhead and the metal plate on the carriage, on both sides.

11 Reinstall the ribbon cartridge.



12 Replace the pull-up roller assembly and the access cover, then turn the printer on.



- **13** Change the printer's secondary menu (make sure paper is loaded!) to engage the expanded printhead gap:
 - a) Press SEL + TEAR while turning the printer back on.
 - b) Press LF to advance through the menu to the Technical group (last option in menu).
 - c) Press FF/LOAD to advance through the items to Expanded Gap.
 - d) Press TEAR to change the setting for Expanded Gap to Valid.
 - e) Press SHIFT + MENU to exit the menu and save your setting.

Print Quality

- Important!
- Front panel settings for print quality and character pitch are overridden by software commands.
 The lights will always reflect the printer's state.



Press PRINT QUALITY to select:

LQ: Letter Quality

- · Highest quality, slowest speed
- Seven typefaces
- Recommended for correspondence

Utility

- · Medium quality, medium speed
- Gothic font only
- Recommended for internal documents and high-volume data.
- **♦** To engage high speed 390 cps printing, select Utility for
- the Print Quality and 15 cpi for the Character Pitch.

Typeface

- Important!
- Front panel settings for print quality and character pitch are overridden by software commands.
 The lights will always reflect the printer's state.



When Letter Quality is engaged, the front panel lights indicate which typeface is selected.

Courier: LQ and COURIER lights are on Gothic: LQ and GOTHIC lights are on Orator: LQ and ORATOR lights are on Prestige: LQ and PRESTIGE lights are on

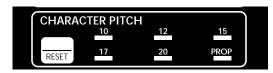
Roman: LQ, COURIER, and GOTHIC lights are on Swiss: LQ, ORATOR, and PRESTIGE lights are on

Swiss Bold: LQ light is on

Character Pitch

- **■** Important!
- Front panel settings for print quality and character pitch are overridden by software commands.
 The lights will always reflect the printer's state.

Press CHARACTER PITCH/RESET to select the width of characters in characters per inch, or Proportional.



10 cpi

· Recommended for standard text

12 cpi

- · Recommended for standard text
- Yields more text per page

15 cpi

- Recommended for spreadsheets and large volumes of data
- Yields more text per page
- In HSD mode, yields fastest printing

17.1 cpi, 20 cpi

- Recommended for spreadsheets
- · Smallest print

PROP (LQ only)

- · Recommended for a more polished appearance
- · Proportional spacing

Printer Reset

When you reset the printer, you reinitialize it.

You will need to reset the printer to clear some error conditions

To reset the printer:

- 1 Press and release the SEL key to take the printer off-line. The SEL light will be out.
- 2 Then, press and hold the SHIFT key and press the RESET (CHARACTER PITCH) key.
- **3** The printer is reset.

- **■** Important!
- A printer reset is NOT the same as a reset to factory defaults.

A printer reset reinitializes the printer, but does NOT affect any menu settings.

A reset to factory defaults returns ALL menu settings to the factory defaults.

Emulations

Available Emulations

Your printer has three emulations:

- Epson® LQ factory setting
- IBM® Proprinter
- IBM® AGM

Changing Emulations

- 1 Make sure paper is loaded.
- 2 Press SHIFT + SEL. The printer enters the Menu Mode.
- **3** Press LF. The following line prints:

```
Printer Control Emulation Mode EPSON LO
```

- **4** Press TEAR consecutively until the emulation you wish to select prints in the right-hand column.
- 5 Press SHIFT + SEL to save your setting and exit the Menu Mode.

Printer Drivers

Selecting Printer Drivers

Before you can use your printer, you must select the correct printer driver in your software. If you select the wrong driver, you will see strange characters, incorrect fonts, etc.

See your software documentation for information on how to select a printer driver.

The drivers below are listed by **decreasing** compatibility with your printer. *Use one as close to the top of the list as possible.*

Epson LQ

Oki Data ML390/1T Epson

Epson LQ 870/1170

Epson LQ 80/1000

Epson LQ 2500

Epson LQ 1500

Epson FX

IBM Proprinter

Oki Data ML390/1T IBM

IBM Proprinter X24e/XL24e

IBM Proprinter X24/XL24

IBM Proprinter

IBM Graphics Printer

IBM X24e AGM/XL24e AGM

Use this emulation only when you've selected an IBM proprinter X24e/XL24e driver

and

you need to use Epson Letter Quality (LQ) high density graphics.

Obtaining Drivers

Drivers are available for a variety of operating systems. You can obtain the drivers by downloading them from the web site at

http://www.okidata.com

Installing Printer Drivers

Installation procedures vary according to the driver you select. Follow the instructions provided with the selected driver.

Menu Mode

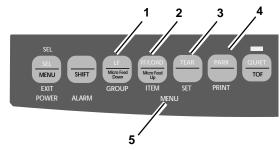
ALWAYS print the current Menu Mode settings before

you reset or change the Menu settings.

Printing the settings is the only way to have a record of the settings.

To print the Menu Mode Settings, refer to "Using Your Printer, Menu Mode, Printing the Menu Settings."

In Menu Mode, you use the front panel keys to change the defaults for the printer parameters. The changes you make in the Menu Mode are automatically saved when you exit the Menu Mode and are retained, even when you turn the printer off.



- 1 GROUP: Prints the next Group in the Menu. With the SHIFT key, prints the previous Group.
- **2** ITEM: Prints next Item in the Group. With the SHIFT key, prints previous Item in the Group.
- **3** SET: Prints next Setting for an Item. With the SHIFT key, prints previous Setting for an Item.
- **4** PRINT: Prints a copy of all the Menu settings. With the SHIFT key, prints the current settings for the Group selected.
- 5 MENU light: Glows when the printer is in the Menu Mode.

Entering and Exiting Menu Mode

To enter or exit the Menu Mode, hold SHIFT while pressing SEL.

Moving Through the Menu

When the printer is in Menu Mode, you can move forward or backwards through the menu.

Moving Forward

To move forward, press GROUP, ITEM, or SET, whichever is appropriate.

For more information, refer to "Using Your Printer, Menu Mode."

Moving Backward

To move backward, press and hold SHIFT, then GROUP, ITEM, or SET, whichever is appropriate.

For more information, refer to "Using Your Printer, Menu Mode."

Resetting Menu to Factory Defaults

ALWAYS print the current Menu Mode settings before
 you reset or change the Menu settings.

Printing the settings is the only way to have a record of the settings.

To print the Menu Mode Settings, refer to "Using Your Printer, Menu Mode, Printing the Menu Settings."

To reset the Menu to the standard settings (factory defaults):

- 1 Turn the printer off.
- **2** Press SEL + LF while turning the printer on.

Printing the Menu Settings

- ALWAYS print the current Menu Mode settings before you reset or change the Menu settings.

 Printing the settings is the only way to have a record of the settings.
- 1 Make sure paper is loaded in the printer.
- 2 Enter the Menu Mode (SHIFT + SEL).
- 3 Press PRINT (PARK key).
- To print out a listing of the settings for all menu items, regardless of the emulation selected or the accessories installed, enter the Menu Mode, then press SHIFT + PRINT QUALITY.

Changing the Menu Settings

- ALWAYS print the current Menu Mode settings before
- you reset or change the Menu settings.

 Printing the settings is the only way to have a record of the settings.

To print the Menu Mode Settings, refer to "Using Your Printer, Menu Mode, Printing the Menu Settings."

- 1 Press SHIFT + SEL to enter the Menu Mode.
- **2** Use the GROUP, ITEM and SET keys to make your changes:

Press GROUP until the Group you wish to change appears in the first column.

Press ITEM until the Item you wish to change appears in the second column.

Press SET until the setting you want appears in the third column.

- **3** Press SHIFT + SEL to exit the Menu Mode and save your settings.
- Important!
- If you turn off the printer without first exiting the Menu Mode, the changes you have made will be lost.

Menu Settings Table

For a complete explanation of each menu item, refer to "Using Your Printer, Menu Mode, Explanations of Menu Items."

Group	Item	Settings (Defaults are set in <i>bold italic</i>)	
Printer Control	Emulation Mode	<i>EPSONLQ</i> , IBM PPR, IBM AGM	
Font	Print Mode	LQ Courier, LQ Roman, LQ Swiss, LQ Swiss Bold, LQ Orator,	
		LQ Gothic, LQ Prestige, Utility	
	Pitch	<i>10 cpi</i> , 12 cpi, 15 cpi, 17.1 cpi, 20 cpi	
	Proportional Spacing	No, Yes	
	Style	Normal, Italics	
	Size	Single, Double	
Symbol Sets	Character Set	Set I, Set II	
	Language Set	American, French, German, British, Danish I, Swedish, Italian, Spanish I,	
		Japanese, Norwegian, Danish II, Spanish II, Latin American, French	
		Canadian, Dutch, Publisher	
	Zero Character	Slashed, Unslashed	
	Code Page	USA, Canada French, Multilingual, Portugal, Norway, BRASC II, Abicomp	

For a complete explanation of each menu item, refer to "Using Your Printer, Menu Mode, Explanations of Menu Items."

Group	Item	Settings (Defaults are set in <i>bold italic</i>)	
Rear Feed	Line Spacing	6 <i>LPI</i> , 8 LPI	
	Form Tear-Off	<i>Off</i> , 500 ms, 1 sec, 2 sec	
	Skip Over Perforation	No, Yes	
	Page Width (wide model only)	<i>13.6''</i> , 8"	
	Page Length	<i>11''</i> , 11-2/3", 12", 14", 17", 3", 3.5", 4", 5.5", 6", 7", 8", 8.5"	
Bottom Feed	Line Spacing	6 <i>LPI</i> , 8 LPI	
	Form Tear-Off	<i>Off</i> , 500 ms, 1 sec, 2 sec	
	Skip Over Perforation	No, Yes	
	Page Width (wide model only)	<i>13.6''</i> , 8"	
	Page Length	<i>11"</i> , 11-2/3", 12", 14", 17", 3", 3.5", 4", 5.5", 6", 7", 8", 8.5"	

For a complete explanation of each menu item, refer to "Using Your Printer, Menu Mode, Explanations of Menu Items."

Group	Item	Settings (Defaults are set in <i>bold italic</i>)	
Top Feed	Line Spacing	6 LPI, 8 LPI	
	Bottom Margin	<i>Valid</i> , Invalid	
	Page Width (wide model only)	<i>13.6''</i> , 8"	
	Page Length	<i>11"</i> , 11-2/3", 12", 14", 17", 3", 3.5", 4", 5.5", 6", 7", 8", 8.5"	
	Wait Time	500 ms, 1 sec , 2 sec	
	Page Length Control	By MENU Setting, By Actual Page Length	
Set-Up	Graphics	Bi-directional, Uni-directional	
	Receive Buffer Size	8 K, 1 Line, 23K	
	Paper Out Override	No, Yes	
	Print Registration	0, set in 0.05 mm increments: press SEL to shift registration to the left;	
		press SHIFT + SEL to shift registration to the right.	

For a complete explanation of each menu item, refer to "Using Your Printer, Menu Mode, Explanations of Menu Items."

Group	Item	Settings (Defaults are set in bold italic)
Set-Up	Operator Panel Function	Full Operation, Limited Operation
(continued)	Reset Inhibit	No, Yes
	Print Suppress Effective	Yes, No
	Auto LF	No, Yes
	Auto CR+	No, Yes
	SI Select Pitch (10 cpi) *	<i>17.1 cpi</i> , 15 cpi
	SI Select Pitch (12 cpi) *	20 <i>cpi</i> , 12 cpi
	Time Out Print	<i>Valid</i> , Invalid
	Auto Select	No, Yes
	Graphics Speed	Low, High
	Centering Position	DEFAULT, MODE 1, MODE 2

^{*} Appears only when the IBM emulation is selected.

For a complete explanation of each menu item, refer to "Using Your Printer, Menu Mode, Explanations of Menu Items."

Group	Item	Settings (Defaults are set in bold italic)
Parallel I/F	I-Prime	Buffer Print, Invalid, Buffer Clear
	Pin 18	+5 <i>V</i> , Open
	Auto Feed XT**	<i>Invalid</i> , Valid

^{* *} Appears only when the Epson emulation is selected.

Explanations of Menu Items

Refer to "Using Your Printer, Menu Mode, Menu Settings Table" for an overview of the menu structure.

Auto CR (IBM). If you want the printer to automatically add a carriage return when a Line Feed is received at the end of a line, change the setting to Yes.

Auto LF. If your printout is consistently double spaced, select No; if it overprints, select Yes.

Auto Feed XT (Epson). If your system uses pin 14 of the parallel interface to control automatic line feed, change the setting to Valid.

Auto Select. If you always use the same Top of Form position, change the setting to Yes.

Bottom Margin. Change to Invalid if you want the printer to ignore the bottom margin setting.

Caution!! This can cause loss of data and damage the

printhead by allowing printing without paper.

Centering Position. Used to limit printhead travel when printing narrow columns.

Select Mode 1 for the narrow carriage printer. Select Mode 1 or Mode 2 for the wide carriage printer.

Character Set. Choose IBM Set I or IBM Set II

Code Page. Choose the Code Page character set you wish to use: USA (IBM 437), Canada French (IBM 863), Multilingual (IBM 850), Portugal (IBM 860), Norway (IBM 865), BRASC II, or Abicomp.

Emulation Mode. Choose the printer emulation.

Form Tear-Off. Choose 500 ms, 1 sec, or 2 sec to turn the Form Tear-Off feature on and to set the time interval for the printer to wait before advancing the paper.

Graphics. Change to bi-directional graphics for faster printing. Optimize the registration using the Print Registration setting in the Menu.

Graphics Speed. Change to High for faster printing when optimum print quality is not an issue.

Explanations of Menu Items (Continued)

Refer to "Using Your Printer, Menu Mode, Menu Settings Table" for an overview of the menu structure.

I-Prime. Determines what the printer will do when it receives the I-Prime signal from the software.

Buffer Print prints out the buffer contents before resetting. Buffer Clear dumps the buffer contents immediately. Invalid causes the printer to ignore the I-Prime command.

Language Set. Replaces certain standard symbols with special characters used in foreign languages.

Line Spacing. Change to 8 lines per inch (lpi) to get more lines on a page.

Operator Panel Function. Change to Limited Operation to deactivate the PRINT QUALITY and CHARACTER PITCH buttons. This prevents these from being changed from the control panel when several people are using the printer.

Page Length. Selects the length of the paper you are using.

Page Length Control. Change the setting to "by Actual Page Length" if you wish to print on single-sheets longer than 17 inches. When "by Actual Page Length" is selected, the menu setting for Top Feed Page Length is isgnored.

Page Width (Wide Carriage only). Change to 8" to print on letter-size paper.

Paper Out Override. Senses when less than 1" (25 mm) of paper remains and stops printing. Change to Yes to override the sensor.

Caution!! This can cause loss of data and damage the printhead by allowing printing without paper.

Pin 18. Sets the signal on pin 18 to +5 volts or to open.

Pitch. Choose the character width, in character per inch (cpi).

Print Mode. Choose the quality and typeface of printing.

Print Registration. Change the setting as required to obtain the best registration for bi-directional printing.

Explanations of Menu Items (Continued)

Refer to "Using Your Printer, Menu Mode, Menu Settings Table" for an overview of the menu structure.

Print Suppress Effective. If your system uses the DC1 and DC3 codes for something other than the print suppress mode, change the setting to No.

Proportional Spacing. Change the setting to Yes to engage proportional spacing of characters.

Receive Buffer Size. Selects the amount of memory devoted to holding received data. Choosing 1 Line will tie up your computer while printing, but if you abort the print job, the printer will stop much sooner.

Reset Inhibit. Select Yes to prevent your software from resetting your printer's settings.

SI Select Pitch, 10 cpi (IBM). Sets the pitch to be engaged when the printer control panel is set for 10 cpi and the SI command is received.

SI Select Pitch, 12 cpi (IBM). Sets the pitch to be engaged when the printer control panel is set for 12 cpi and the SI command is received.

Size. Change to Double for double width and height printing.

Skip Over Perforation. Change to Yes if you want the printer to go to the next page when it comes within 1" (25 mm) of the bottom of the page. Keep it set to No if your software has its own page formatting controls.

Style. Change to italics if you want the printed characters to be slanted.

Time Out Print. If your software spends a long time processing between portions of data it feeds to the printer, change the setting to Invalid to keep your printer from dumping the received data while it is waiting for more.

Wait Time. Sets the amount of time the printer will wait for more data before moving to the form tear-off position.

Zero Character. If you do not want the printer to use a slash to distinguish the number zero from the capital letter O, change the setting to Unslashed.

Maintenance

Replacing the Ribbon Cartridge

If you need instructions for replacing the ribbon cartridge, you can refer to the

- · packaging of the new cartridge
- web site
- "Installation, Ribbon Cartridge."

For the best results, use genuine OKI ribbons.

For information on obtaining consumables, refer to "Accessories."

For information on the web site, refer to "Service and Support, Internet Support."

Make sure that the printer model number for the ribbon
 is the same as the model number for your printer. If the
 model numbers don't match, the ribbon WILL NOT
 work in the printer.

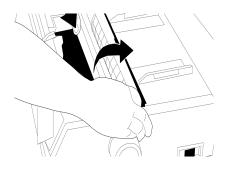
Printer Cleaning

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

- Never use solvents or strong detergents on the cabinet:
 they could cause damage.
- 1 Turn off the printer. Then, use the platen knob to back the paper out of the printer.
- **2** Open the access cover. Remove the pull-up roller assembly.



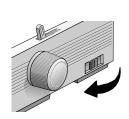
- **3** Use a clean, dry cloth to dust around the carriage shaft and platen. Remove any loose bits of paper.
- 4 Install the pull-up roller assembly. Close the access cover.

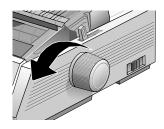


Paper Jams

Rear-Feed Paper Jams

1 Turn off the printer. Then, use the platen knob to back the paper out of the printer.

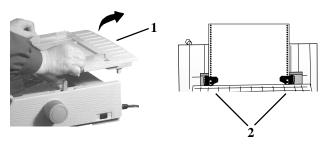




- Make sure the printer is turned off before you open the access cover.
- **2** Open the access cover. Remove the pull-up roller assembly.



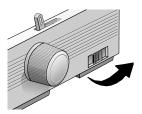
- 3 Remove any torn pieces of paper.
- **4** Grasp the tabs and lift off the paper separator (1). Load paper. Make sure you lock the tractor covers (2).



5 Install the paper separator. Install the pull-up roller assembly. Close the access cover.



6 Turn on the printer.



7 Press FF/LOAD.



Rear-Feed, Repeating Paper Jams

If the paper keeps jamming, you may have:

- · defective paper.
- misaligned paper.
- bits of paper stuck in the paper path.

Defective Paper

Replace the paper with a fresh stack.

Misaligned Paper

- 1 Turn off the printer. Then, use the platen knob to back the paper out of the printer.
- 2 Tear off a couple of sheets of paper, leaving a new, clean, square-cut edge.
- 3 Reload the paper and turn the printer back on.

Bits of Paper Stuck in the Paper Path

- 1 Turn off the printer. Then, use the platen knob to back the paper out of the printer.
- **2** Open the access cover. Remove the pull up roller assembly. Remove any torn pieces of paper.



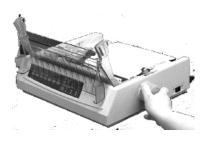
3 Grasp the tabs and lift off the paper separator (1).



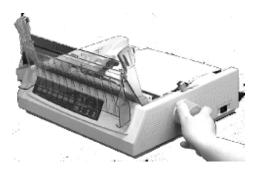
4 Fold some continuous-form paper over three times to make a page four sheets thick. Then, load it on the tractors and close the covers.



5 Use the platen knob to draw the quadruple-thick page around the platen. This clears any jammed bits of paper.



6 Remove any paper pieces. Then, use the platen knob to back the paper out.



 Load regular paper (making sure the tractor covers are closed). Install the paper separator.

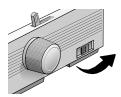


 ${\bf 8} \ \ \hbox{Install the pull-up roller assembly. Close the access cover.} \qquad {\bf 10} \, \hbox{Press FF/LOAD}.$



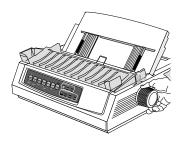


9 Turn on the printer.



Single-Sheet Paper Jams

- 1 Turn off the printer.
- 2 Then, use the platen knob to back the paper out.



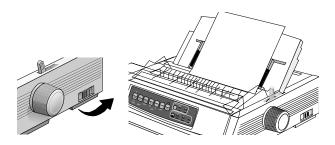
3 Open the access cover. Remove the pull-up roller assembly.



- 4 Remove any torn pieces from around the carriage.
- 5 Install the pull-up roller assembly. Close the access cover.



6 Turn on the printer. Load paper.



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 product being operated under the proper ambient conditions?
- Does the paper being used meet the specifications for this product?
- Is the paper properly installed?
- Has the ribbon been replaced as recommended?
- Is the ribbon properly installed?
- Is an OKI ribbon being used?
- · Is the printhead gap correctly set?
- Are the correct printer drivers being used for the printer?

Settings in your software application will override any settings in your printer driver.

Your printer driver settings will override any settings from the printer menu or printer front panel.

Internet Support

Oki Data provides support via the Internet.

Oki Data's main web site, www.okidata.com, is the gateway to Oki Data's products and services.

my.okidata.com is a powerful area of Oki Data's web site designed to help you personalize the information and service you get from Oki Data.

For more information, refer to "Service and Support, Internet Support."

List of Problems

Problem 1:

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

Problem 2:

Nothing happens when I turn on the printer.

Problem 3:

The printer does not print when the computer sends data.

Problem 4:

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

Problem 5:

Ink smears on the paper when I print on narrow forms.

Problem 6:

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

Problem 7:

The ALARM light is flashing.

Problem 8:

The ALARM light is on and the Character Pitch 10 light is flashing.

Problem 9:

The ALARM light is on and the Character Pitch 15 light is flashing.

Problem 10:

The printer needs paper, but the ALARM light is not on and I cannot load the paper.

Problem 11:

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

Problem 12:

Continuous-form paper sticks to the paper separator.

Problem 1:

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

Solution:

Always remember that:

- 1 Settings in your software application will override any settings in your printer driver.
- 2 Your printer driver settings will override any settings from the printer menu or printer front panel.

Solution:

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. Refer to "Using Your Printer, Menu Mode."

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. Refer to "Using Your Printer. Menu Mode."

Problem 2:

Nothing happens when I turn on the printer.

Solution:

Check the power cord connection to the outlet. If you are using a power strip, make sure it is turned on, and that a fuse hasn't blown or that a circuit breaker hasn't tripped.

Problem 3:

The printer does not print when the computer sends data.

Solutions:

- 1 Is the SEL light on? If not, press the SEL key.
- **2** Check that the interface cable is securely connected to both the printer and the computer.
- **3** If you have the optional serial interface board installed, check to be sure that it is firmly seated in the printer.

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.
 - Press SHIFT and SEL keys, then press GROUP key.
 - This will print a line showing the emulation you have selected.
- **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 on narrow forms.

Solution:

This may be caused by excessive printhead travel from the centering position. Enter the Menu and set the Centering Position to MODE 1. Refer to "Using Your Printer, Menu Mode."

For the wide-carriage printer, if MODE 1 doesn't work, try setting the Centering Position to MODE 2.

Problem 6:

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

Solution:

The ribbon shield is either loose or missing. Remove the ribbon cartridge and check the ribbon shield.

If it is loose, secure it.

If it is missing, find it and install it.

Problem 7:

The ALARM light is flashing.

Solution:

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

Problem 8:

The ALARM light is on and the Character Pitch 10 light is flashing.

Solution:

This indicates that the paper lever is set at the wrong position for the paper you are trying to use. Move it to the proper setting.

Problem 9:

The ALARM light is on and the Character Pitch 15 light is flashing.

Solution:

This indicates a paper jam. Press the SEL key and correct the paper jam situation. Refer to "Maintenance, Paper Jams."

Problem 10:

The printer needs paper, but the ALARM light is not on and I cannot load the paper.

Solution:

Press and release the SEL key.

Then, press and hold the SHIFT key and press the RESET (CHARACTER PITCH) key.

The printer is reset.

Problem 11:

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.

Refer to "Using Your Printer, Menu Mode."

Problem 12:

Continuous-form paper sticks to the paper separator.

Solution:

In cold dry weather, static charges can build up and make the paper cling to the paper separator. Try moving the paper guides together so that the paper rests on the guides rather than on the separator.

Specifications

1

Specifications subject to change without notice.

Print Method

Impact dot matrix

Printhead

 $24\ pins,\, 0.20\ mm\ (0.0079")$ diameter, thermal protection

Print Speed

Mode	Pitch— Characters per Inch	Speed— Characters per Second
Utility	10 cpi	260 cps
	12 cpi	312 cps
	15 cpi	390 cps
	17.1 cpi	223 cps
	20 cpi	260 cps
Letter	10 cpi	87 cps
Quality	12 cpi	104 cps
	15 cpi	131 cps
	17.1 cpi	149 cps
	20 срі	174 cps

Characters per Line (cpl)

Setting	ML390 Turbo/n	ML391 Turbo/n
10 cpi	80 cpl	136 cpl
12 cpi	96 cpl	163 cpl
15 cpi	120 cpl	204 cpl
17.1 cpi	137 cpl	233 cpl
20 cpi	160 cpl	272 cpl

Emulations (co-resident)

Co-resident

Epson LQ

IBM PPR

IBM AGM

Interface

Standard: Centronics parallel, IEEE-1284 compliant

Optional: RS-232C serial

Graphics Resolution

360 x 360 dpi maximum (24-dot, hex density)

Receive Buffer Size

23 K

Resident Fonts

Print Quality	Available Fonts
Letter Quality	Courier, Gothic, Orator, Prestige, Roman, Swiss, Swiss Bold
Utility	Gothic

Resident Scalable Fonts*

Courier, Roman, and Swiss, in sizes from 8 to 64 points *Selectable through software only.

Resident Typefaces

Mode/Font	Size
LQ Courier	10 & 12 cpi, Proportional
	10 & 12 cpi, Superscript/Subscript
	Proportional Superscript/Subscript
LQ Letter Gothic	10 & 12 cpi, Proportional
	10 & 12 cpi, Superscript/Subscript
	Proportional Superscript/Subscript
LQ Prestige	10 cpi, 12 cpi, Proportional
LQ Orator	10 cpi, 12 cpi, Proportional
LQ Roman	10 cpi, 12 cpi, Proportional
LQ Swiss	10 cpi, 12 cpi, Proportional
LQ Swiss Bold	10 cpi, 12 cpi, Proportional
Utility Gothic	10 cpi, 12 cpi, Proportional
	10 & 12 cpi, Superscript/Subscript
HSD Gothic	15 cpi

Bar Codes

Code 39, UPC A, UPC E, EAN 8, EAN 13, Interleaved 2 of 5, Code 128, Postnet

Reliability

Mean Time Between Failures (MTBF)

10,000 hours at 25% duty cycle and 35% page density

Mean Time to Repair (MTTR)

15 minutes

Printhead Life

200 million characters average in 10 cpi draft mode at 25% duty and 35% page density

Ribbon Life

4 million characters, on average, 10 cpi utility

Paper Specifications

Microline 390 Turbo/n

Paper Type: Cut Sheet

Feed: Top

Weight: 14-24 lb. (52.5-90 g/m²)

Width Range: 7.2" to 8.5" (182.8 to 215.9 mm)

Paper Type: Single-part, continuous forms

Feed: Rear, Bottom

Weight: 12-24 lb. (45-90 g/m²) **Width Range:** 3" to 10" (76.2 to 254 mm)

Paper Type: Carbonless continuous forms

Feed: Rear, Bottom

Weight: 9-11 lb. (33.75-41.25 g/m²) **Width Range:** 3-10" (76.2 to 254 mm)

Paper Type: Interleaf continuous forms

Feed: Rear, Bottom **Weight:** 10-12 lb.

Width Range: 3-10" (76.2 to 254 mm)

Paper Type: Labels Feed: Bottom

Weight: Not applicable

Width Range: 3-10" (76.2 to 254 mm)

Paper Type: Envelopes, single feed

Feed: Top

Weight: 24 lb. max. (90 g/m²)

Width Range: 6.5" to 9.5" (165.1 to 241.3 mm)

Paper Type: Envelopes, continuous feed, non-overlap

Feed: Bottom

Weight: 24 lb. max. (90 g/m²)

Width Range: 6.5" to 9.5" (165.1 to 241.3 mm)

Paper Type: Card stock **Feed:** Bottom

Weight: 120 lb. max. (450 g/m²)

Width Range: Not applicable

Paper Type: Transparencies

Feed: Top

Weight: Not applicable Width Range: Not applicable

Standard Transparencies are 8.5" x 11" (215.9 - 279.4 mm)

Paper Specifications

Microline 391 Turbo/n

Paper Type: Cut Sheet

Feed: Top

Weight: 14-24 lb. (52.5-90 g/m²)

Width Range: 7.2" to 14.3" (182.8 to 363.2 mm)

Paper Type: Single-part, continuous forms

Feed: Rear, Bottom

Weight: 12-24 lb. (45-90 g/m²)

Width Range: 3" to 16" (76.2 to 406.4 mm)

Paper Type: Carbonless continuous forms

Feed: Rear, Bottom

Weight: 9-11 lb. (33.75-41.25 g/m²) **Width Range:** 3" to 16" (76.2 to 406.4 mm)

Paper Type: Interleaf continuous forms

Feed: Rear, Bottom **Weight:** 10-12 lb.

Width Range: 3" to 16" (76.2 to 406.4 mm)

Paper Type: Labels Feed: Bottom

Weight: Not applicable

Width Range: 3" to 16" (76.2 to 406.4 mm)

Paper Type: Envelopes, single feed

Feed: Top

Weight: 24 lb. max. (90 g/m²)

Width Range: 6.5" to 9.5" (165.1 to 241.3 mm)

Paper Type: Envelopes, continuous feed, non-overlap

Feed: Bottom

Weight: 24 lb. max. (90 g/m²)

Width Range: 6.5" to 9.5" (165.1 to 241.3 mm)

Paper Type: Card stock **Feed:** Bottom

Weight: 120 lb. max. (450 g/m²)

Width Range: Not applicable

Paper Type: Transparencies

Feed: Top

Weight: Not applicable Width Range: Not applicable

Standard Transparencies are 8.5" x 11" (215.9 - 279.4 mm)

Paper Thickness

Rear Feed

0.014" (0.36 mm) maximum

Bottom Feed*

0.0165" (0.44 mm) maximum expandable to 0.031" (0.79 mm) maximum

* Requires optional push or pull tractor.

Printer Dimensions Width x Depth x Height

ML390 Turbo/n

17.25 x 16.1 x 5.75 inches 436 x 409 x 145 mm

ML391 Turbo/n

23.1 x 16.1 x 5.75 inches 587 x 409 x 145 mm

Printer Weight

ML390 Turbo/n: 16.5 lbs. (6.5 kg) ML391 Turbo/n: 19.8 lbs. (8.9 kg)

Environmental Requirements

Temperature

Operating 41 to 104° F (5 to 40° C)

Storage 14 to 122°F (-10 to 50°C)

Humidity

Operating 20 to 80% RH Storage 5 to 95% RH

Electrical Requirements

120 volts ac

(+5.5%, -15%), 50 or 60 Hz $(\pm 2\%)$

110 W Maximum, 40 W idle

230 or 240 volts ac also available

 $(+10\%, -14\%), 50 \text{ or } 60 \text{ Hz } (\pm 2\%)$

Specifications subject to change without notice.

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Service and Support

General Information

Oki Data offers service and support to you through a variety of methods.

Please chose the service and support method that is best for you.

Oki Data's service and support methods are:

- the documentation provided with your machine
- the store location where you purchased your machine
- Internet Support
- Telephone Support

Details of each support method are provided in this section Oki Data's service and support methods are different in these two areas:

- United States and Canada
- Latin America

Details for each area are provided in this section.

Service Centers are trained by Oki Data and are authorized to service OKI products. For more information about Service Centers, refer to "Service and Support, Service Centers."

Documentation

The documentation provided with your machine provides an excellent reference for the day-to-day operation of your machine.

The documentation included with your machine is:

- User's Guide, on line, provided on the CD
- Microline Reference Manual, on line, provided on the CD
- Warranty, Material Safety Data Sheet

If you cannot locate your documentation, go to www.okidata.com or my.okidata.com. Follow the prompts for your product, and you will find the on-line versions of all of these documents.

Purchase Location

The store location where you purchased your machine provides an excellent, local means of support for you and your machine.

Your purchase location will also provide any warranty service required by your machine

- You will need your printer serial number if your machine requires servicing.
 - A written receipt for the product, showing the date of purchase, dealer's name, and both the model and serial numbers of the product must accompany any request or claim for work to be performed under Limited Warranty.

Internet Support

www.okidata.com

Your Gateway to OKI Products and Services

www.okidata.com is Oki Data's web site. It provides general information about all of the OKI products and services available to you.

You can use our web site to

- get Web-based support for all OKI products: 24 hours a day, 7 days a week—no waiting!
- download the printer drivers you need.
- read about other customers and how they use OKI products to improve their productivity and enhance their documentation.
- use the Dealer Locator to find a dealer location close to you.
- find out about Oki Data's special promotional offers and breaking news.
- and more . . .

my.okidata.com

Your Personal Solutions Center

my.okidata.com is a powerful area of Oki Data's web site designed to help you personalize the information and service you get from Oki Data.

When you register for my.okidata.com, you

- personalize the web-based support for the OKI products you own: 24 hours a day, 7 days a week—no waiting!
- · automatically register your product.
- access on-line versions of your product documentation (manuals) and support information.
- control your contact, profile, and preference information.
- receive automatic notification of new printer drivers, key updates, and support information.
- track your e-mail support history.
- and more . . .

Telephone Support

Oki Data Customer Information System Information System Automated Attendant

1-800-654-3282 (1-800-OKI-DATA)

Toll Free in the U.S. and Canada

For quick answers to commonly-asked questions, the Oki Data Information System Automated Attendant is available 24 hours a day, 7 days a week. The system can provide immediate assistance with:

- Basic operating procedures
- Sales and service referrals
- Parts and consumable referrals
- Product information

Customer Support Professionals

1-800-654-3282 (1-800-OKI-DATA)

Toll Free in the U.S. and Canada

Customer Support Professionals are available 24 hours a day, 7 days a week. Please be sure that you are calling from a telephone close to your machine so you can describe your problem accurately.

Our Customer Support Professionals are trained on all current OKI products. They can answer your questions regarding:

- · Locations of sales and service dealers
- · Installation of your machine
- Usage/normal maintenance of your machine
- Error message interpretation/solutions
- · Parts and supplies identification
- Consumer relations

Oki Data Service Centers

Oki Data Authorized Service Providers

Oki Data has over 2,000 local Authorized Service Providers in North and South America.

For the most comprehensive, up-to-date listing of Oki Data authorized Service Centers:

- Consult our web site at www.okidata.com
- In the U.S. and Canada, call 1-800-654-3282 (1-800-OKI-DATA)
- In Latin America, contact the Latin America Service Coordinator at Oki Data's Corporate Headquarters at 856-222-7496 (Spanish only)

Oki Data Contact Locations

United States

Oki Data Americas, Inc. 2020 Bishops Gate Blvd. Mt. Laurel, NJ 08054 Phone: 1-800-654-3282

Fax: 1-856-222-5247

Canada

Oki Data Americas, Inc. 2735 Matheson Blvd. East, Unit 1 Mississauga, Ontario Canada L4W 4M8 Phone: 1-800-654-3282 Fax: 1-905-238-4427

Mexico

Oki Data de Mexico, S.A. de C.V. Mariano Escobedo No. 748-8 Piso Col. Anzures, e.p. 11590 Mexico, DF

Phone: (525) 263-8780 Fax: (525) 263-8785

Brazil

Oki Data do Brasil, Ltda. Rua Alexandre Dumas, 2220 - 8 andar Chácara Sto Antonio São Paulo, Brazil 04717-004 Phone: 55-11-3444-3500

Fax: 55-11-3444-3501

Service and Support: United States and Canada

Oki Data is firmly committed to the satisfaction of our customers. If you have problem that your customer documentation cannot solve, contact the listed sources for service or support.

Sales and Service Dealers: United States and Canada

Consult the store location where you purchased your machine, or contact Oki Data for the location of the nearest Authorized Oki Data Service Dealer.

- Prices and minimum charges may vary.
- Proof of purchase is required for warranty work. Be sure to retain your purchase documents.

User's Guide: English

Service and Support: Latin America

Oki Data is committed to offer the best customer support possible to our customers. In the instance of having a difficult problem with your OKI product, please contact any of the OKI- CAS (Centro Autorizado de Servicio) shown on our Web site, www.okidata.com.

Sales and Service Centers: Latin America

If you need to service your OKI product, please contact the store where you bought your fax machine or contact any of the OKI-CAS listed on our Web site for information.

- Prices and charges may vary.
- A copy of the proof of purchase is required for the warranty process.

Contacting Oki Data: Latin America

Information regarding our products and authorized service centers is available in our Web site:

http://www.okidata.com

Customer Support Professionals: Latin America

Our CAS's are trained and certified to provide the best service and support possible to our customers. Make sure that you are close to your machine when you call one of our OKI authorized service centers (OKI-CAS) so that you can describe your problem more accurately.

Our customer support professionals are trained on all current OKI products. They can answer your questions regarding:

- Location of nearest CAS (Service Center).
- Installation of your machine.
- · Usage/normal maintenance of your machine.
- Error message interpretation/solutions
- · Parts and supplies identification.
- Consumer relations.

Accessories

Purchasing Accessories

Before you purchase, know your machine model number (see the front of the unit) and have the correct part number and description of the item. Item descriptions and part numbers are provided in this section.

- Consult the dealer where your purchased your machine.
- Locate an Authorized Oki Data Reseller by visiting one of these web sites
 - http://my.okidata.com

Allows you to register your product and personalize your own support needs

- http://www.okidata.com

Provides general information

- In the United States, purchase directly from Oki Data Via the Internet
 - http://my.okidata.com
 - http://www.okidata.com

Via telephone

Order toll-free by phone at 1-800-654-3282 (1-800-OKI-DATA) using VISA, MasterCard, or American Express.

• In Canada, call 888-309-4570.

Accessories: Part Numbers

Consumables: Part Numbers

Consumable Part Number
Ribbon Cartridge (1) ------52104001

Options: Part Numbers

Option Part Number

Model ML390T/n

Pull Tractor, Top-Mount (2) ------70030501
Push Tractor, Bottom-Mount (3) -----70030701
Roll Paper Stand (4) -----70023301

Model ML391T/n

Pull Tractor, Top-Mount (2) ------70030601 Push Tractor, Bottom-Mount (3) -----70030801

Both Models

Cut Sheet Feeder (5)-----70030101 (Cut Sheet Feeder sold only with printer; not available separately)

Serial Interface (Not Shown) -----70012801





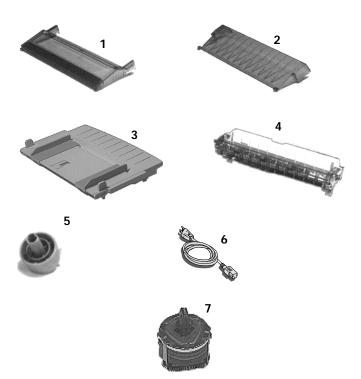
3





Replacement Parts: Part Numbers

Replacement Part	Order No.
Model ML390T/n	
Access Cover (1)	-53076701
Acoustic Cover (2)	-53076901
Paper Separator (3)	-51009409
Pull-Up Roller Assembly (4)	-50411001
Model ML391T/n	
Access Cover (1)	-53076801
Acoustic Cover (2)	-53077001
Paper Separator (3)	-51009510
Pull-Up Roller Assembly (4)	-50411101
Both Models	
Platen Knob (5)	-51902220
Power Cord (6)	-56631801
Printhead (7)	-50114701



Documentation: Part Numbers

Document	Part Number
User's Guide	refer to my.okidata.com
Reference Manual	refer to my.okidata.com
Warranty, Material	
Safety Data Sheet	refer to my.okidata.com

If you cannot locate your hardcopy documentation or the CD provided with your machine, go to www.okidata.com or my.okidata.com. Follow the prompts for your product, and you will find the on-line versions of all of these documents.

Printer Control Codes

This section lists the most commonly used printer control codes.

The Microline Reference Manual provides complete lists of all the commands, along with information on their use.

You may view this document by:

- accessing the document on the CD provided with your machine
- using the Oki Data web sites http://www.okidata.com or my.okidata.com

 The Microline Reference Manual is ONLY available in American English.

Epson LQ Commands

Epson Command	ASCII	Decimal
Backspace	BS	8
Cancel	CAN	24
Carriage Return, Execute	CR	13
Character Pitch		
Select 10 cpi	ESC P	27 80
Select 12 cpi	ESC M	27 77
Select 15 cpi	ESC g	27 103
Begin 10 cpi	ESC SI, or SI	27 15, or 15
Cancel Condensed Print	DC2	18
Character Style		
Normal	ESC q 0	27 113 48
Outline	ESC q 1	27 113 49
Shadow	ESC q 2	27 113 50
Outline with Shadow	ESC q 3	27 113 51
Delete	DEL	127
Double Height On	ESC w 1	27 119 49
	or ESC US 0	or 27 31 48
Double Height Off	ESC w 0	27 119 48
	or ESC US 1	or 27 31 49

Epson Command	ASCII	Decimal
Double Width On	ESC W 1	27 87 49
Double Width Off	ESC W 0	27 87 48
Double Width for One Line	SO	14
	or ESC SO	or 27 14
Emphasized Print On	ESC E	27 69
Emphasized Print Off	ESC F	27 70
Enhanced Print On	ESC G	27 71
Enhanced Print Off	ESC H	27 72
Italic Printing On	ESC 4	27 52
Italic Printing Off	ESC 5	27 53
Form Feed	FF	12
Form Length		
n Inches $(n = 1 \text{ to } 22)$	ESC C NUL	27 67 0 n
	n	
n Lines $(n = 1 \text{ to } 127)$	ESC C n	27 67 n
Horizontal Tab	HT	9
Initialize Printer	ESC @	27 64

Epson LQ Commands (Continued)

Epson Command	ASCII	Decimal
Justification		
Left	ESC a 0	27 97 48
Center	ESC a 1	27 97 49
Right	ESC a 2	27 97 50
Full	ESC a 3	27 97 51
Line Feed, Execute		
w/ Carriage Return	LF	10
n/180" (n-0 to 255)	ESC J n	27 74 n
n/360" (n-0 to 255)	ESC]n	27 93 n
Reverse, n/180"		
(n = 0 to 255)	ESC j n	27 106 n
Line Spacing, Set		
n/360" (n = 0 to 255)	ESC + n	27 43 n
	or ESC [n	or 27 91 n
n/180" (n = 0 to 255)	ESC 3 n	27 51 n
n/60" (n = 0 to 127)	ESC A n	27 65 n
1/6"	ESC 2	27 50
1/8"	ESC 0	27 48

Epson Command	ASCII	Decimal
Margins		
Set Left Margin		
(n = 0 to 255)	ESC 1 n	27 108 n
Set Right Margin		
(n = 0 to 255)	ESC Q n	27 81 n
Paper Out Sensor		
Disabled (Off)	ESC 8	27 56
Enabled (On)	ESC 9	27 57
Print Quality/Font		
Select LQ	ESC x 1	27 120 49
Select Utility	ESC x 0	27 120 48
Select Roman (LQ only)	ESC k 0	27 107 48
Select Swiss (LQ only)	ESC k 1	27 107 49
Select Courier (LQ only)	ESC k 2	27 107 50
Select Prestige (LQ only)	ESC k 3	27 107 51
Select Orator (LQ only)	ESC k 7	27 107 55

Epson LQ Commands (Continued)

Epson Command	ASCII	Decimal
Print Speed		
Half-Speed On	ESC s 1	27 115 49
Half-Speed Off	ESC s 0	27 115 48
Print Suppress Mode On	DC3	19
Print Suppress Mode Off	DC1	17
Proportional Spacing On	ESC p 1	27 112 49
Proportional Spacing Off	ESC p 0	27 112 48
Skip Over Perforation ON	ESC N n	27 78 n
(n = 1 to 127)		
Skip Over Perforation OFF	ESC O	27 79
Software I-Prime	ESC } NUL	27 125 0
Subscript On	ESC S 1	27 83 49
Superscript On	ESC S 0	27 83 48
Subscript/Superscript Off	ESC T	27 84

Epson Command	ASCII	Decimal
Underline On	ESC - 1	27 45 49
Underline Off	ESC - 0	27 45 48
Uni-Directional Printing		
One Line Only	ESC <	27 60
On	ESC U 1	27 85 49
Off	ESC U 0	27 85 48
Upper Range Control Codes		
Permit Printing	ESC 6	27 54
Cancel Printing	ESC 7	27 55
Vertical Tab, Execute	VT	11

IBM Proprinter X24e / XL24e and IBM X24e AGM / XL 24e AGM Commands

IBM Command	ASCII	Decimal
Backspace	BS	8
Cancel	CAN	24
Carriage Return	CR	13
Character Pitch, Select		
10 cpi	DC2	18
12 cpi	ESC:	27 58
15 cpi	ESC g	27 103
Condensed Print	ESC SI, or SI	27 15, or 15
Character Style		
Normal	ESC q 0	27 113 48
Outline	ESC q 1	27 113 49
Shadow	ESC q 2	27 113 50
Outline with Shadow	ESC q 3	27 113 51
Double Width		
On	ESC W 1	27 87 49
Off	ESC W 0	27 87 48
for One Line	SO	14

IBM Command	ASCII	Decimal
Emphasized Printing On	ESC E	27 69
Emphasized Printing Off	ESC F	27 70
Enhanced Printing On	ESC G	27 71
Enhanced Printing Off	ESC H	27 72
Form Feed	FF	12
Form Length		
n inches		
n = 1 to 255	ESC C NUL n	27 67 0 n
n lines		
n = 1 to 255	ESC C n	27 67 n
Horizontal Tab, Execute	HT	9

IBM Proprinter X24e / XL24e and IBM X24e AGM / XL 24e AGM Commands (Continued)

IBM Command	ASCII	Decimal
IBM Character Set		
Select Set I	ESC 7	27 55
Select Set II	ESC 6	27 54
Print One Character from		
IBM Set III ($n = 0$ to 255)	ESC ^ n	27 94 n
Italic Printing On	ESC % G	27 37 71
Italic Printing Off	ESC % H	27 37 72
Line Feed, Execute		
w/ Carriage Return	LF	10
n/180" AGM only		
(n = 1 to 255)	ESC J n	27 74 n
n/216" PPR only		
(n = 0 to 255)	ESC J n	27 74 n
n/360" (n = 0 to 255)	ESC% 4 n	27 37 52 n
Reverse	ESC]	27 93
Auto Line Feed On	ESC 5 1	27 53 49
Auto Line Feed Off	ESC 5 0	27 53 48

IBM Command	ASCII	Decimal
Line Spacing		
Set Spacing to 1/8"	ESC 0	27 48
Set Spacing to 7/72"	ESC 1	27 49
Set to n/60": AGM only		
(n = 1 to 255)	ESC A n	27 65 n
Set to n/72": PPR only		
(n = 1 to 255)	ESC A n	27 65 n
Activate Spacing Set		
by ESC A n	ESC 2	27 50
Set to n/180": AGM only		
(n=1 to 255)	ESC 3 n	27 51 n
Set to n/216": PPR only		
(n= 1 to 255)	ESC 3 n	27 51 n
Set to n/360" (n= 1 to 255)	ESC % 8 n	27 37 56 n

IBM Proprinter X24e / XL24e and IBM X24e AGM / XL 24e AGM Commands (Continued)

IBM Command	ASCII	Decimal
Overscore On	ESC_1	27 95 49
Overscore Off	ESC_0	27 95 48
Paper Out Sensor Off	ESC 8	27 56
Paper Out Sensor On	ESC 9	27 57
Print Quality / Font		
Select LQ Roman	ESC k 0	27 107 48
Select LQ Swiss	ESC k 1	27 107 49
Select LQ Courier	ESC k 2	27 107 50
Select LQ Prestige	ESC k 3	27 107 51
Select LQ Orator	ESC k 7	27 107 55
Print Suppress Mode On	ML390T	
	ESC Q \$	27 81 36
	ML391T	
	ESC Q #	27 81 35
Print Suppress Mode Off	DC1	17
Proportional Spacing On	ESC P 1	27 80 49
Proportional Spacing Off	ESC P 0	27 80 48

IBM Command	ASCII	Decimal
Skip Over Perforation On	ESC N n	27 78 n
(n = 1 to 255)		
Skip Over Perforation Off	ESC 0	27 79
Software I-Prime	ESC } NUL	27 125 0
Stop Printing	ESC j	27 106
Subscript On	ESC S 1	27 83 49
Superscript On	ESC S 0	27 83 48
Subscript/Superscript Off	ESC T	27 84
Top of Form, Set at Current		
Position	ESC 4	27 52
Underline Printing On	ESC - 1	27 45 49
Underline Printing Off	ESC - 0	27 45 48
Uni-Directional Print On	ESC U 1	27 85 49
Uni-Directional Print Off	ESC U 0	27 85 48
Vertical Tab, Execute	VT	11

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