Microline 8810

User's Guide

OKI

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Document Information _____

Microline 8810 User's Guide

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Features

- Precise registration control for printing complicated forms
- Flexible handling of multi-part forms
    – Individual or continuous feed
    – Maximum = original + 7
    – Up to 0.02-inch (0.48 mm) thick
- Automatic alignment when feeding individual forms/sheets.
- Fast through-put
- Reliable, durable operation
- Automatic adjustment for paper thickness
- Paper Park
- Form Tear Off
- Choice of Print Modes: Normal or Quiet

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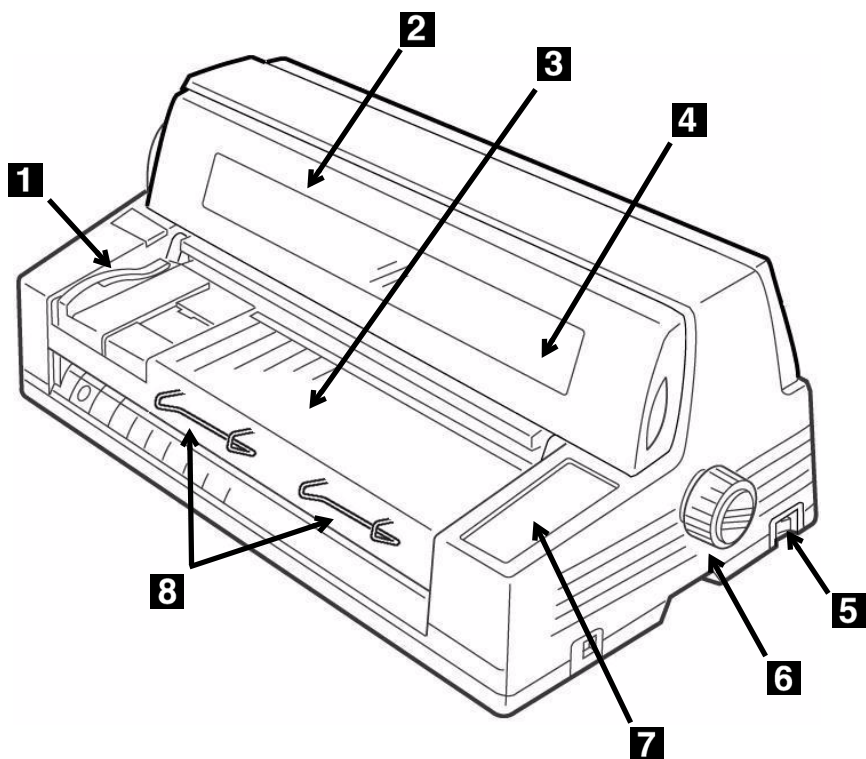
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2 Cover, Top Assembly

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4 Display Panel

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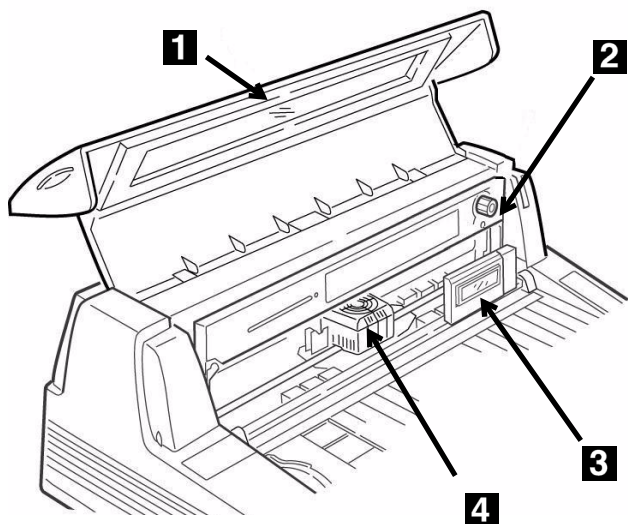
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2 Ribbon Cartridge

3 LCD Display Panel

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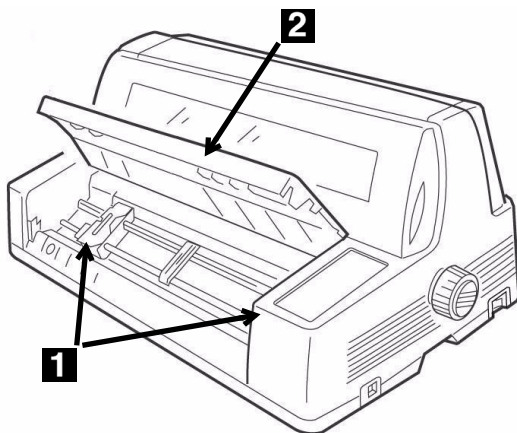
1 Tractors

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Rear View
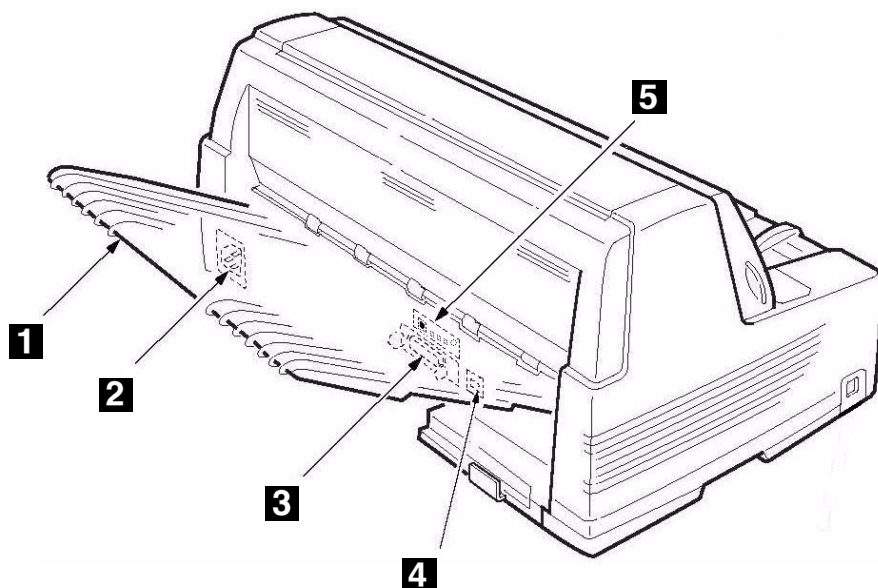
1 Stacker

2 Power Cord Connector

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4 USB Port

5 Ethernet 10/100 Base-T Port (standard on network model Microline 8810n, optional on Microline 8810)

   OR

   RS-232C Serial Port (optional, for model Microline 8810 only)
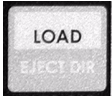
Control Panel
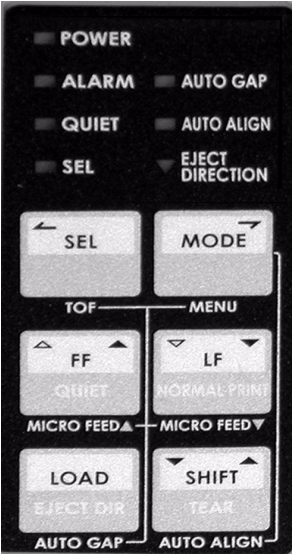
Individual Switches

Switch	Printer On Line	Printer Off Line (Deselected)
SEL	Press to place the printer off line.	Press to place the printer on line. *Menu Mode* • Scrolls backwards through available settings for an item.
MODE	Not applicable.	Used to switch back and forth between Manual Feed (single forms fed from the platform) and Front Feed (continuous forms). See page 25. If the optional CSF and/or Rear Push Tractor are installed, use MODE to cycle through the various print paths (e.g., Manual, Front, Rear, CSF Front, CSF Rear). *Menu Mode* • Scrolls forward through available settings for an item.

Individual Switches (Continued)

Switch	Printer On Line	Printer Off Line (Deselected)
FF QUIET	Engages the Quiet Print mode.	*Continuous Forms* • In the print position: form feeds to next TOF position. • Loaded on the tractors, but not in the print position: the paper advances to the print position. *Single Forms* • If a form is loaded into the printer, it is ejected. *Menu Mode* • Scrolls forward through available items within a group.
LF NORMAL PRINT	Engages the Normal Print mode.	Advances forms one line at a time. Press and hold for repetitive line feeds. *Menu Mode* • Scrolls backward through available items within a group.
LOAD EJECT DIR	Toggles the eject direction for single sheets between the front and back of the printer.	*Continuous Forms* • In the print position: parks the paper (moves it out of the print path, back to the tractors). • Loaded on the tractors, but not in the print position: the paper advances to the print position. *Single Forms* • If a form is loaded into the printer, it is ejected. • In the Auto Feed mode, with the optional CSF installed, if no paper is loaded on the platform, press LOAD to feed a sheet from the CSF into the print position. *Menu Mode* • Saves any changes made in the menu and exits the Menu Mode, placing the printer back on line.

Individual Switches (Continued)

Switch	Printer On Line	Printer Off Line (Deselected)
SHIFT TEAR	Moves continuous forms forward to the tear off position. See page 72. Press again to move the forms back. Note: Form Tear Off must be engaged. The factory default is Off.	Used with other switches to change their function (see table below).
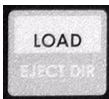
Combined Switches
With the Printer Powered Up and Off Line

Switches	Task Performed
MODE **+** SHIFT TEAR	**Select Align 1, Align 2, Align 3, or Align 4:** Press and hold the MODE switch, *then press the SHIFT switch* repeatedly to select Align 1, Align 2, Align 3, or Align 4 as the setting for Auto Align. See page 48. • Auto Align (POW) must be set to SelectAutoALign (the default). See page 49. • The setting made using these switches is stored in Memory Auto Align unless it has been changed to Invalid. See page 57. **Enter the Menu:** Press *both* the MODE and the SHIFT switches *simultaneously* to place the printer in the Menu mode.
SEL **+** SHIFT TEAR	Simultaneously press and hold the SHIFT and SEL switches to place the printer in the TOF setting mode. Then use SHIFT + FF and/or SHIFT + LF to set the new TOF position.

Combined Switches (Continued)
With the Printer Powered Up and Off Line

Switches	Task Performed
SHIFT TEAR **+** FF QUIET	Press and hold SHIFT, then press FF repeatedly to move loaded paper (single sheets or continuous forms) forward 1/144-inch (0.18 mm) at a time. If you press and hold SHIFT, then press and hold LF, the paper will advance in rapid-fire 1/144-inch (0.18 mm) increments.
SHIFT TEAR **+** LF NORMAL PRINT	Press and hold SHIFT, then press LF repeatedly to move loaded paper (single sheets or continuous forms) backward 1/144-inch (0.18 mm) at a time. Maximum allowed backward movement is 1/3-inch (8.5 mm). If you press and hold SHIFT, then press and hold LF, the paper will advance backward in rapid-fire 1/144-inch (0.18 mm) increments.
LOAD EJECT DIR **+** SHIFT TEAR	Press and hold both the LOAD and the SHIFT switches to change the printhead gap setting. The factory default is Auto Gap in which the required printhead gap is sensed automatically by the printer. Use these switches to change the setting to a manual head gap setting if you are not getting good print results with AutoGap. See "Gap Control" on page 54 for more information.

Control Panel Lights

Light	On	Off	Blinking[a]
POWER	Printer is turned on.	Printer is turned off.	N.A.
ALARM	• Paper is out. • A paper jam has occurred. See "Troubleshooting" on page 79.	Printer operation is normal.	• Awaiting removal of single sheet/form. • Media switch is taking place. • Skew detection alarm. • If both the ALARM and SEL lights are blinking, the cover is open. • If both the ALARM and AUTO ALIGN lights are blinking, there is an unrecoverable error. Try turning the printer off, then on again. If this doesn't clear the problem call your service dealer
AUTO GAP	Auto Gap mode is selected (the default).	A Manual Gap setting is engaged.	Manual Gap setting alarm.
QUIET	The printer is in the Quiet print mode.	The printer is in the Normal print mode.	N.A.
AUTO ALIGN	The printer is set to automatically align single sheets/ forms.	Auto Align is disabled	If both AUTO ALIGN and ALARM are blinking, it indicates an unrecoverable error. Try shutting the printer off and turning it on again. If this doesn't work, call your service dealer.

Control Panel Lights (Continued)

Light	On	Off	Blinking[a]
SEL	The printer is on line.	The printer is off line.	• Menu Mode: indicates the menu is being set up. • With ALARM light: cover open alarm.
EJECT DIRECTION	Paper is being ejected to the platform.	Paper is being ejected to the stacker.	N.A.

a.   N.A. = Not Applicable.

Quick Reference: Control Panel Functions

Note *Unless otherwise specified, these instructions assume that the printer is selected (on line).*

Enter the Menu
1. Press SEL.
2. Press both the MODE and the SHIFT switches simultaneously.

Print the Menu
1. With the printer in the Manual Mode, turn it off.
2. Press and hold SELECT and MODE while turning the printer on.
3. When prompted, load a sheet of paper (minimum letter or A4) on the platform.

Change Print Modes
With the printer on line:
1. Press FF to engage the Quiet print mode.
2. Press LF to engage the Normal print mode.

Change the Printhead Gap
1. Press SEL.
2. Press and hold the SHIFT switch, then press the LOAD switch repeatedly to scroll through the various settings for the printhead gap.
3. Press SEL

Change Paper Paths
1. Press SEL.
2. Press MODE repeatedly to change the paper path.

   The printer automatically reinitializes in the new path.

Move Continuous Forms to the Print Position
1. Press SEL.
2. Press FF.

Park Continuous Forms
1. Press SEL.
2. Press LOAD.

Move Continuous Forms to the Tear Off Position

Note *Form Tear Off must be activated. See page 72.*

1. Press SHIFT to move continuous forms up to the tear off position.

Change Align x Setting
1. Press SEL.
2. Press and hold the MODE switch, then press the SHIFT switch repeatedly to select Align 1, Align 2, Align 3, or Align 4

Print Modes

Your printer has two print modes:

- **Normal**: corresponds to the printer settings. The factory default is utility, high speed draft.
- **Quiet:** reduces noise by printing at one-half the speed.

Change Print Mode
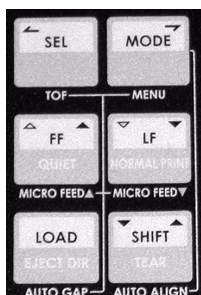
Change to Quiet

Note   *If you change the print mode while printing, the printer immediately switches to the new print mode.*

   1.   Make sure the printer is turned on and that the SEL light is on.
   2.   Press FF.
   3.   The QUIET light goes on.

Change to Normal

Note   *If you change the print mode while printing, the printer immediately switches to the new print mode.*

   1.   Make sure the printer is turned on and that the SEL light is on.
   2.   Press LF.
   3.   The QUIET light goes out.

Loading Print Media

Individual Sheets/Forms ("MANUAL")

The printer is set at the factory for

- single sheets/forms
- Auto Align mode
- Normal print mode
- automatic printhead gap

IMPORTANT!

If you are using individual multi-part forms which have multiple pages of differing lengths such as the one shown below, switch to the rear Eject Direction to eliminate possible jams.

- To temporarily switch, press the LOAD/EJECT DIR switch.

- To permanently change to the rear Eject Direction, go into the menu and change the setting for Eject Dir. in the Manual Feed (or CSF Front and/or CSF Rear if these options are installed) group to Rear:
  1. Press SEL to deselect the printer.
  2. Press MODE + SHIFT simultaneously.
  3. Press and hold SHIFT, then press FF repeatedly until you see Manual Feed on the display.
  4. Press FF repeatedly until you see Eject Dir. on the display.
  5. Press MODE to change the setting to Rear.
  6. Press LOAD to save the setting and exit the menu.

Specifications

Individual Sheets/Forms, for Use with Auto Align Mode

Note *Printing envelopes requires use of the sheet guide (**1**) instead of the Auto Align mode. See "Disabling Auto Align" on page 66.*
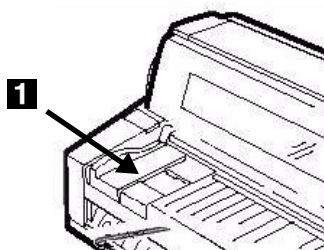
Minimum Print Margins
- 1/4-inch (6.4 mm) on all sides

Individual Sheets
Size
- Minimum Width x Length

   2.2" (55 mm) x 2.8" (70 mm)
- 3.9" (100 mm) x 2.8" (70mm) Auto Align Mode
- Maximum Width x Length

   16.5" (420 mm) x 16.5" (420 mm)

   14.3" (364 mm) x 16.5" (420 mm) Auto Align Mode

Weight Range
- 14 lb. to 56 lb. US Bond (52 to 210 g/m^2)

Individual Multipart Forms
Size
- Minimum Width x Length

   2.2" (55 mm) x 2.8" (70 mm)

   3.9" (100 mm) x 2.8" (70mm) Auto Align Mode
- Maximum Width x Length

   16.5" (420 mm) x 16.5" (420 mm)

   14.3" (364 mm) x 16.5" (420 mm) Auto Align Mode

Thickness
- Up to 8-part forms (original + 7)
- Maximum Thickness: 0.0189" (0.48 mm)

Load Individual Sheets/Forms

1. If you are using long paper, pull out the sheet supports (**1**).
2. Move the sheet guide (**2**) to the right as far as it will go. This ensures that the single sheet/form is within the "Paper range when Auto Align is ON" area on the platform.
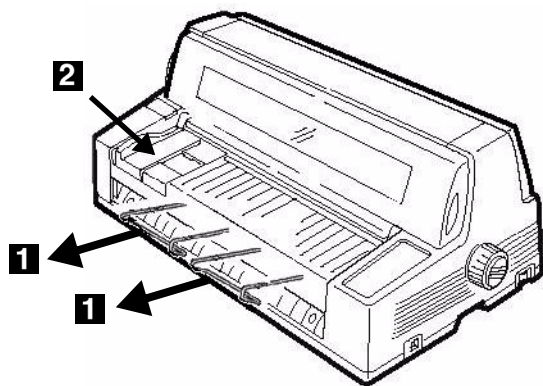
3. Place a letter size or larger sheet of paper on the platform anywhere within the "Paper range when Auto Align is ON" area.
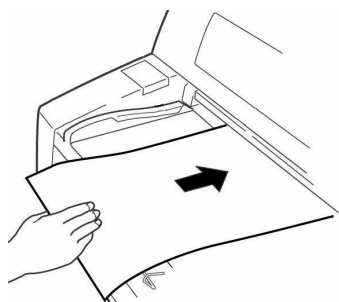
The sheet loads in to the print position, automatically aligning so that it is square with the print path.

Continuous Forms ("FRONT")

Specifications

Width

- Minimum: 4" (102 mm)
- Maximum: 16" (406 mm)

Single Thickness Forms

- Weight range: 14 to 56 lb. US Bond (52 to 210 g/m^2)

Multi-part Forms

- up to 8-part forms (original + 7)
- Maximum Thickness: 0.0189" (0.48 mm)

Load Continuous Forms

1. Push the sheet supports in and lift the sheet feed platform.
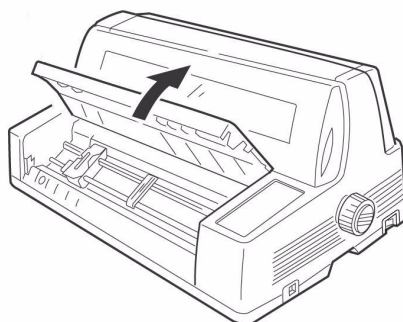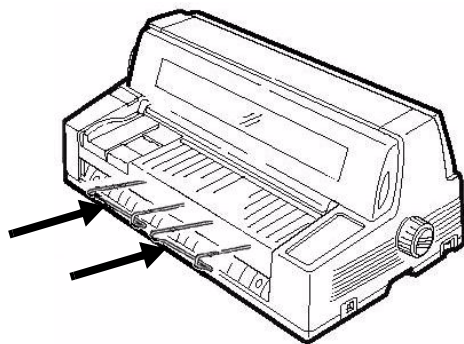
2. Lift the lock lever on the left tractor, then move the left tractor to set the desired left margin for printing.

- The ▼ mark on the gauge (**1**)—or the center of the diamond shaped hole (**2**)—represents the location of the center of the first character printed.

- For printing forms, move the left tractor to the right as far as it will go (the movement of the left tractor is limited to ensure that the paper covers the paper out sensor).
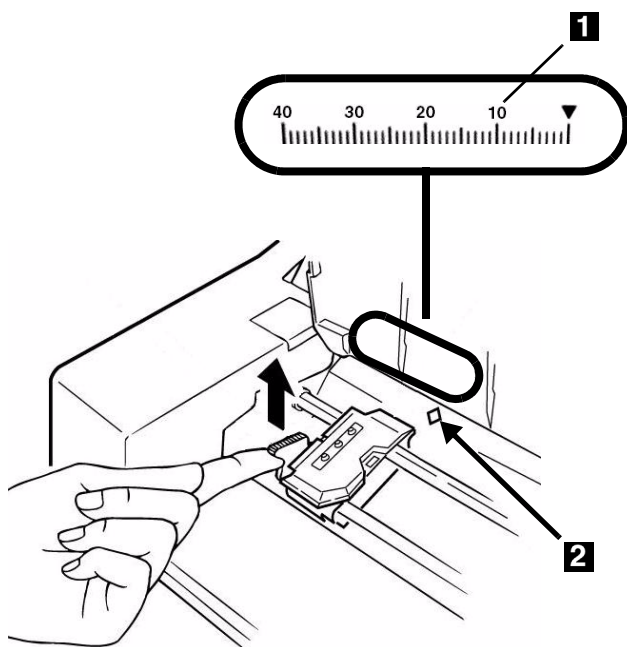
3. Push the lock lever down to lock the left tractor in place.

4. Lift the lock lever (**1**) on the right tractor (**2**) and move the tractor over to correspond to the width of the continuous forms you are using. Center the paper support (**3**) between the two tractors.
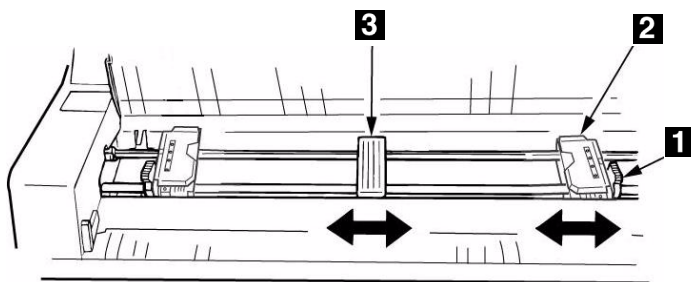
5. Open both tractor covers and place the first three holes in the continuous forms paper over the pins.
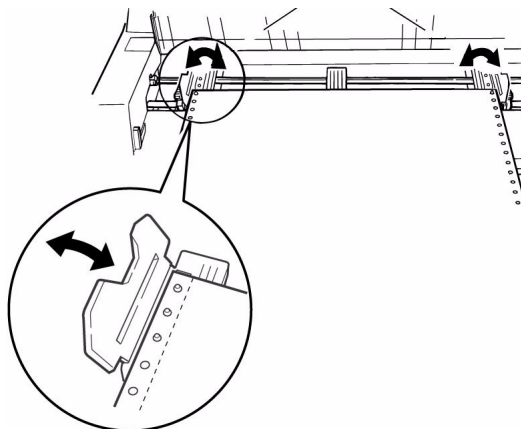
Important!

Make sure that an equal number of paper holes are engaged on each tractor. If not, the paper will jam.
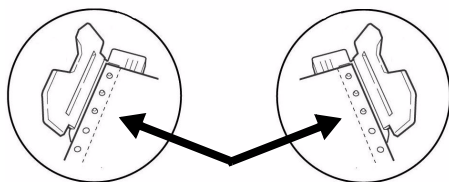
6. Close the tractor covers and fine tune the position of the right tractor until the holes in the paper are centered on the pins, then push back the right tractor lock lever.
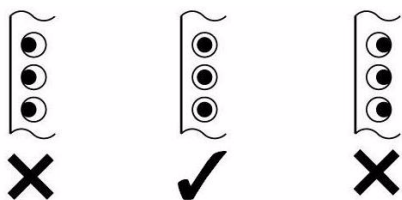
7. Lower the platform.
8. Position the continuous forms stack below the printer with no more than about 1 inch (3 cm) offset (**1**).
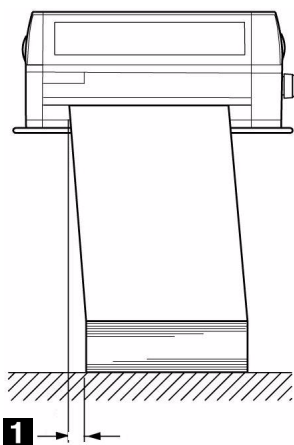
Switch between Single Sheets and Continuous Forms
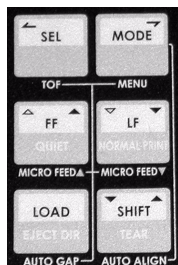
Note *If the optional Cut Sheet Feeder (CSF) and/or Rear Push Tractor are installed, additional paper paths (e.g., Front CSF, Rear CSF, etc.) appear on the display.*

Single Sheets to Continuous Forms

Manual Feed to Front Feed

1. With the printer turned on, press SEL to place the printer off line.
2. If there is a single sheet loaded into the printer, press LOAD to eject it.
3. Press MODE repeatedly until you see **FRONT** on the second line of the display.
   The printer switches paths and returns to the on-line state.
4. If there are continuous forms in the parked position, the printer automatically pulls them into the print position.
5. If continuous forms are not loaded, the display prompts you to **INSERT PAPER**. Load continuous forms on the tractors (see page 21). Press LOAD to advance them to the print position.

Continuous Forms to Single Sheets

Front Feed to Manual Feed

1. Press SEL to place the printer off line.
2. Press LOAD to park the continuous forms.

   The continuous forms retract back to the tractors.
3. Press MODE repeatedly until you see **MANUAL** on the second line of the display.
   The printer switches paths and returns to the on-line state.
4. Load a sheet or form on the platform.

The Printer Menu

Make changes in the menu settings using the front panel keys. The changes are automatically saved when you exit the Menu and are retained, even when you turn the printer off.

Note   *Always print the Menu before you reset or change the settings. This is the only way to have a record of the settings.*

Print the Menu

For more information, see "Print the Menu" on page 29.

1. Make sure the printer is in the manual mode.
2. Turn the printer off.
3. Press and hold SELECT and MODE while turning the printer on.
4. When "RELEASE SW" displays, release the switches.
5. When prompted, load a sheet of paper (minimum letter or A4) on the platform.
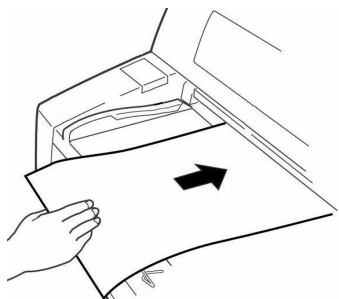
The menu prints.

Navigating the Menu

Groups, Items, and Settings

Each Group includes multiple Items, each of which has selectable Settings:

Group 1	Item 1	Setting 1 … Setting X
	…	Setting 1 … Setting X
	Item X	Setting 1 … Setting X

Access the Menu
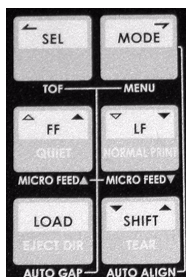
1. With the printer turned on and on line, press SEL.
   OFFLINE *displays.*
2. Simultaneously press the SHIFT and MODE switches.
   PRINTER CONTROL *displays.*

Scrolling Through Groups, Items and Settings

Groups

Press and hold SHIFT, then press FF to scroll forward.

Press and hold SHIFT, then press LF to scroll backwards.

Items

Press FF to scroll forward.

Press LF to scroll backwards.

Settings

Press MODE to scroll forward.

Press SEL to scroll backwards.

Exit the Menu

Press LOAD.

Example: Turn on Proportional Spacing and Form Tear-Off
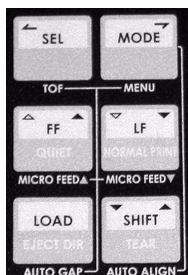
1. Turn on the printer.
2. Press SEL.
   The printer goes off-line.
3. Simultaneously press SHIFT and MODE.
4. Press and hold SHIFT, then press FF repeatedly until **FONT** displays.
5. Press FF repeatedly until **PROP. SPACING** displays.
6. Press MODE.
   The setting changes to **YES***.*
7. Press and hold SHIFT, then press FF repeatedly until **FRONT FEED** displays.
8. Press FF repeatedly until **FORM TEAR-OFF** displays.
9. Press MODE repeatedly until the time interval you wish to select appears.
10. Press LOAD: this saves your setting and exits the menu mode.

Reset to Factory Defaults

Note   *Always print the Menu before you reset or change the settings. Printing the Menu is the only way to have a record of the settings. See page 29*

1. Turn the printer off.
2. Press and hold SEL and SHIFT while turning the printer on.

   MENU INITIALIZE

   FNC. MENU

   displays.

Print the Menu

Note   *Always print the Menu before you reset or change the settings. Printing the Menu is the only way to have a record of the settings.*

Single Sheet (Manual Feed)

Before Starting

1. Have a sheet of letter size or larger paper ready to print the menu.
2. Slide the sheet guide (**1**) to the right as far as it will go.
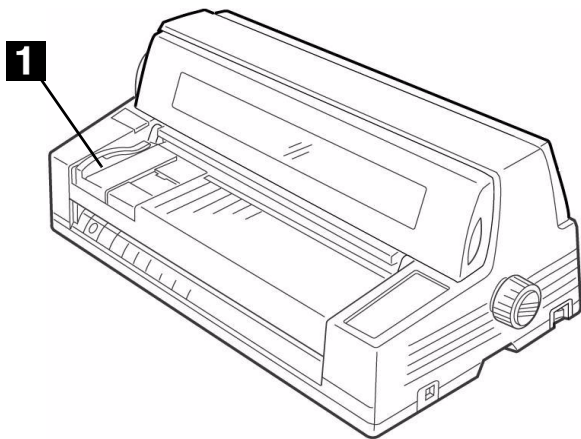
3. Make sure the Page Length set in the menu matches the paper you are using to print the menu. See page 36.
4. Make sure manual feed is selected.

   If manual feed is not selected:

   a. Press SEL to place the printer off-line.
   b. Press MODE repeatedly until MANUAL appears on the second line of the display.

   The printer automatically switches to the manual path and returns on line.

Print the Menu on Single Sheets

1. Turn the printer off.
2. Press and hold SELECT and MODE while turning the printer on.
3. When "RELEASE SW" displays, release the switches.
4. Load the paper on the platform.
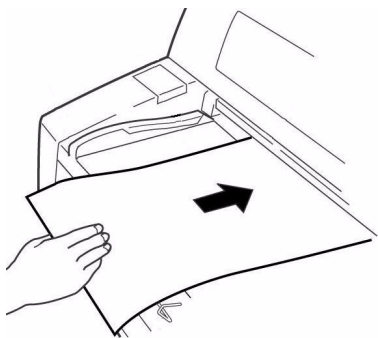
5. The menu prints.

Continuous Forms (Front Feed)

Before Starting

1. Make sure continuous forms are loaded.
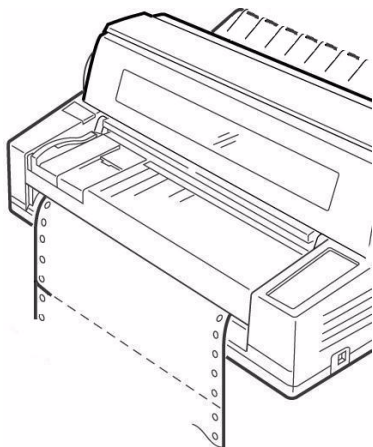
2. Make sure front feed is selected. If manual feed is selected, the second line of the display reads ALIGN1 (the default, or whatever alignment method you have selected).
    To switch to continuous forms:

    a. Press SEL to place the printer off-line.

    b. Press MODE repeatedly until FRONT appears on the second line of the display.

    The printer automatically switches to the front path and returns on line.

Print the Menu on Continuous Forms

1. Turn the printer off.
2. Press and hold SELECT and MODE while turning the printer on.
3. When "RELEASE SW" displays, release the switches.
    The Function Settings menu prints.
4. Press the SHIFT switch.
    The printed sheet advances to the stacker for tear off.
5. Tear off the printed form.
6. Press the SHIFT switch to move the continuous forms back down to the print position.

Menu Summary

List of menu groups:

- Printer Control: see page 32
- Font: see page 32
- Symbol Set: see page 33
- Setup: see page 34
- Manual Feed: see page 36
- CSF Front: see page 38
- CSF Rear: see page 39
- Front Feed: see page 40
- Rear Feed: see page 41
- Parallel I/F: see page 42
- Serial I/F: see page 42
- Adjustment: see page 43

Printer Control

Note   *The default setting is in **bold blue** type.*

Item	Settings
Emulation Mode	**IBM PPR**, Epson FX, ML

Font

Note   *The default setting is in **bold blue** type.*

Item	Settings
Print Mode	**Utility**, NLQ Courier, NLQ Gothic, DRAFT
DRAFT Mode	**HSD**, SSD
Pitch	**10**, 12, 15, 17.1, 20 cpi
Prop. Spacing	**No**, Yes
Style	**Normal**, Italic
Size	**Single**, Double

Symbol Set

Note   *The default setting is in **bold blue** type.*

Item	Settings
Character Set	**Set I**, Set II, Standard, Line Graphics, Block Graphics (ML emulation only)
Language Set	**American**, French, German, British, Danish 1, 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, BRASCII, Abicomp, Multilingual 858, ISO 8859-15

Setup

Note *The default setting is in* ***bold blue*** *type.*

Item	Settings
Multi Pass	***Bi-directional***, Uni-directional
Graphics	***Bi-directional***, Uni-directional
Graphics Data (ML Only)	8 Bits, ***7 Bits***
Rcv. Buffer	***128***, 0 K
Data Word (ML Only)	***8 Bits***, 7 Bits
Panel Function	***Full***, Limited
Path Change	***Not Tear Off***, Tear Off
CutSheet Smooth	***Valid***, Invalid
Skp Ovr Binding	Invalid, ***Valid 1***, Valid 2
High Skip	***Yes***, **No**
Eject Condition	***Bottom Detect***, FF Code
Sheet Feed Mode (Applies only if the optional CSF is installed.)	***Manual***, CSF
CSF Select (Applies only if the optional CSF is installed.)	CSF Front, ***CSF Rear***
Print Suppress	***No***, Yes
Auto LF	***No***, Yes
Auto CR	***No***, Yes
Print DEL Code	***No***, Yes
SI Pitch (10)	15 CPI, ***17.1 CPI***
SI Pitch (12)	12 CPI, ***20 CPI***
Reset Inhibit	***No***, Yes
ESC SI Pitch (IBM Only)	***17.1 CPI***, 20 CPI

Item	Settings
Time Out Print	*Valid*, Invalid
Auto Select	*No*, Yes
Impact Mode	*Normal*, Quiet
Print Dir. Command	Invalid, *Valid*
Host Interface	*Auto Interface*, Parallel, USB, Option I/F
I/F Time Out Appears only if Host Interface (above) is set to Interface.	*15 sec*, 30 sec, 45 sec, 1 min, 2 min, 3 min, 4 min, 5 min
Buzzer	*Enable*, Disable
Buzzer Volume	*Low*, Middle, High
Power Saving	*Enable*, Disable
Power Save Time	5 min, *10 min*, 15 min, 30 min, 60 min
Tear Mode (Applies only if the optional Rear Push Tractor is installed.)	*FF + Tear Up*, Tear Up

Manual Feed

Note   The default setting is in **bold blue** type.

Item	Settings
Line Spacing	**6 LPI**, 8 LPI
Auto Eject Pos.	3.18 mm (1/8"), **6.35 mm (1/4")**
Page Width	8". 10.6", 13.2", **13.6"**
	8" = 203,20 mm, 10,6" = 269,24 mm, 13,2 = 335,28, **13,6 = 345,44**
Page Length	76.2 mm (3"), 82.6 mm (3.25"), 88.9 mm (3.5"), 101.6 mm (4"), 127.0 mm (8"), 139.7 mm (5.5"), 152.4 mm (6"), 177.8 mm (7"), 203.2 mm (8"), 215.9 mm (8.5"), **279.4 mm (11")**, 296.3 mm (11.67"), 304.8 mm (12"), 355.6 mm (14"), 431.8 mm (17")
TOF	2.12 mm (1/12"), 3.18 mm (1/8"), **6.35 mm (1/4")**, 7.62 mm (3/10"), 8.47 mm (1/3"), 10.58 mm (5/12"), 21.59 mm (0.85"), 23.28 mm (11/12"), 25.4 mm (1"), 27.52 mm (13/12"), 1Chr. Set Pos.
	Note: 1Chr. Set Pos. automatically appears as the setting when the front panel has been used to set a 1Chr. Set Pos value for the Manual Feed path. See page 68.
Wait Time *Auto Alignment must be disabled to use Wait Time*.	**2.0 sec**, 1.5 sec, 1.0 sec, 0.5 sec
Load LF Speed	**Fast Speed**, Slow Speed
Eject Dir.	**Front**, Rear
Paper End	**On-line**, Off-line
Gap Control	**Auto**, Manual Gap x x = 1 - 8, A - E. See page 77
Gap Pos.	**50.8 mm (2")**, 101.6 mm (4")
Auto Align (POW)	Align 1, Align 2, Align 3, Align 4, **SelectAutoAlign**
Auto Align	**Align 1**, Align 2, Align 3, Align 4, Invalid
MemoryAutoAlign	**Valid**, Invalid

Item	Settings
Align1 Pos.Adj. (Align 1 must be selected)	0 mm, *5.1 mm*, 45.4 mm Adjusts in 1/90 inch (0.28 mm) increments from initial setting
Align2 Pos.Adj. (Align 2 must be selected)	0 mm, *5.1 mm*, 45.4 mm Adjusts in 1/90 inch (0.28 mm) increments from initial setting
Align3 Pos.Adj. (Align 3 must be selected)	0 mm, *5.1 mm*, 45.4 mm Adjusts in 1/90 inch (0.28 mm) increments from initial setting
Align4 Pos.Adj. (Align 4 must be selected)	0 mm, *5.1 mm*, 45.4 mm Adjusts in 1/90 inch (0.28 mm) increments from initial setting
AutoAlignDetect	Valid Level 1, *Valid Level 2*, Invalid
Skew Detect	Valid Level 1, *Valid Level 2*, Invalid
Check Print Area	*Valid*, Invalid
FF Function	*Eject*, Form Feed
Set Alarm	*Valid,* Invalid

CSF Front

Note *The default setting is in **bold blue** type.*

Item	Settings
Line Spacing	**6 LPI**, 8 LPI
Auto Eject Pos.	3.18 mm (1/8"), **6.35 mm (1/4")**
Page Width	8". 10.6", 13.2", **13.6"**
	8" = 203,20 mm, 10,6" = 269,24 mm, 13,2 = 335,28, **13,6 = 345,44**
Page Length	76.2 mm (3"), 82.6 mm (3.25"), 88.9 mm (3.5"), 101.6 mm (4"), 127.0 mm (8"), 139.7 mm (5.5"), 152.4 mm (6"), 177.8 mm (7"), 203.2 mm (8"), 215.9 mm (8.5"), **279.4 mm (11")**, 296.3 mm (11.67"), 304.8 mm (12"), 355.6 mm (14"), 431.8 mm (17")
TOF	2.12 mm (1/12"), 3.18 mm (1/8"), **6.35 mm (1/4")**, 7.62 mm (3/10"), 8.47 mm (1/3"), 10.58 mm (5/12"), 21.59 mm (0.85"), 23.28 mm (11/12"), 25.4 mm (1"), 27.52 mm (13/12"), 1Chr. Set Pos.
	Note: 1Chr. Set Pos. automatically appears as the setting when the front panel has been used to set a 1Chr. Set Pos value for the Manual Feed path. See page 68.
Eject Dir.	**Front**, Rear
Auto Gap Timing	Every Paper, **1st Paper**
Gap Control	**Auto**, Manual Gap x
	x = 1 - 8, A - E. See page 77.
Gap Pos.	**50.8 mm (2")**, 101.6 mm (4")
Skew Detect	Valid Level1, **Valid Level2**, Invalid
ManualFeedCSF	**Valid**, Invalid
ManualSheetCSF	**CSF**, Manual

CSF Rear

Note   *The default setting is in **bold blue** type.*

Item	Settings
Line Spacing	**6 LPI**, 8 LPI
Auto Eject Pos.	3.18 mm (1/8"), **6.35 mm (1/4")**
Page Width	8". 10.6", 13.2", **13.6"**
	8" = 203,20 mm, 10,6" = 269,24 mm, 13,2 = 335,28, **13,6 = 345,44**
Page Length	76.2 mm (3"), 82.6 mm (3.25"), 88.9 mm (3.5"), 101.6 mm (4"), 127.0 mm (8"), 139.7 mm (5.5"), 152.4 mm (6"), 177.8 mm (7"), 203.2 mm (8"), 215.9 mm (8.5"), **279.4 mm (11")**, 296.3 mm (11.67"), 304.8 mm (12"), 355.6 mm (14"), 431.8 mm (17")
TOF	2.12 mm (1/12"), 3.18 mm (1/8"), **6.35 mm (1/4")**, 7.62 mm (3/10"), 8.47 mm (1/3"), 10.58 mm (5/12"), 21.59 mm (0.85"), 23.28 mm (11/12"), 25.4 mm (1"), 27.52 mm (13/12"), 1Chr. Set Pos.
	Note: 1Chr. Set Pos. automatically appears as the setting when the front panel has been used to set a 1Chr. Set Pos value for the Manual Feed path. See page 68.
Eject Dir.	**Front**, Rear
Auto Gap Timing	Every Paper, **1st Paper**
Gap Control	**Auto**, Manual Gap x
	x = 1 - 8, A - E. See page 77.
Gap Pos.	**50.8 mm (2")**, 101.6 mm (4")
RemoveSheetWait	Alarm, **Wait Paper Feed**
ManualFeedCSF	**Valid**, Invalid
ManualSheetCSF	**CSF**, Manual

Front Feed

Note   *The default setting is in **bold blue** type.*

Item	Settings
Line Spacing	**6LPI**, 8LPI
Form Tear-Off	**Off**, On
Skip Over Perf.	**No**, Yes
Page Width	8". 10.6", 13.2", **13.6"** 8" = 203,20 mm, 10,6" = 269,24 mm, 13,2 = 335,28, **13,6 = 345,44**
Page Length	76.2 mm (3"), 82.6 mm (3.25"), 88.9 mm (3.5"), 101.6 mm (4"), 127.0 mm (8"), 139.7 mm (5.5"), 152.4 mm (6"), 177.8 mm (7"), 203.2 mm (8"), 215.9 mm (8.5"), **279.4 mm (11")**, 296.3 mm (11.67"), 304.8 mm (12"), 355.6 mm (14"), 431.8 mm (17")
TOF	2.12 mm (1/12"), 3.18 mm (1/8"), **6.35 mm (1/4")**, 8.47 mm (1/3"), 10.58 mm (5/12"), 19.05 mm (9/12"), 23.28 mm (11/12"), 25.4 mm (1"), 27.52 mm (13/12"), 1Chr. Set Pos. *Note:* 1Chr. Set Pos. automatically appears as the setting when the front panel has been used to set a 1Chr. Set Pos value for the Front Feed path. See page 68.
Initial Pos.	**Print**, Tear Off
PE Pos.	3.18 mm (1/8"), **6.35 mm (1/4")**
Paper End	**On-Line**, Off-Line
Gap Control	**Auto**, Manual Gap x x = 1 to 8, A to E. See page 77.
Gap Pos.	**50.8 mm (2")**, 101.6 mm (4")

Rear Feed

Note   *The default setting is in **bold blue** type.*

Item	Settings
Line Spacing	**6LPI**, 8LPI
Form Tear-off	**Off**, 500mS, 1 sec, 2 sec
Skip Over Perf.	**No**, Yes
Page Width	8". 10.6", 13.2", **13.6"** 8" = 203,20 mm, 10,6" = 269,24 mm, 13,2 = 335,28, **13,6 = 345,44**
Page Length	76.2 mm (3"), 82.6 mm (3.25"), 88.9 mm (3.5"), 101.6 mm (4"), 127.0 mm (8"), 139.7 mm (5.5"), 152.4 mm (6"), 177.8 mm (7"), 203.2 mm (8"), 215.9 mm (8.5"), **279.4 mm (11")**, 296.3 mm (11.67"), 304.8 mm (12"), 355.6 mm (14"), 431.8 mm (17")
TOF	2.12 mm (1/12"), 3.18 mm (1/8"), **6.35 mm (1/4")**, 7.62 mm (3/10"), 8.47 mm (1/3"), 10.58 mm (5/12"), 21.59 mm (0.85"), 23.28 mm (11/12"), 25.4 mm (1"), 27.52 mm (13/12"), 1Chr. Set Pos. Note: 1Chr. Set Pos. automatically appears as the setting when the front panel has been used to set a 1Chr. Set Pos value for the Manual Feed path. See page 68.
Initial Pos.	**Print**, Tear Off
PE Pos.	3.18 mm (1/8"), **6.35 mm (1/4")**
Paper End	**On-Line**, Off-Line
Gap Control	**Auto**, Manual Gap x x = 1 to 8, A to E. See page 77.
Gap Pos.	**50.8 mm (2")**, 101.6 mm (4")

Parallel I/F

Note   *The default setting is in **bold blue** type.*

Item	Settings
I-Prime	Invalid, ***Buffer Print***, Buffer Clear
Cont. I-Prime	***Valid***, Invalid
AUTO FEED XT	***Invalid***, Valid
Bi-Direction	Disable, ***Enable***

Serial I/F

Note   *The default setting is in **bold blue** type.*

Note   *Appears only when the optional RS-232C Serial Interface is installed*

Item	Settings
Parity	***None***, Odd, Even
Serial Data	***8Bits***, 7Bits
Protocol	***Ready/Busy***, X-ON/X-OFF
Diagnostic Test	***No***, Yes
Busy Line	***SSD-***, SSD+, DTR, RTS
Baud Rate	300 BPS, 600 BPS, 1200 BPS, 2400 BPS, 4800 BPS, ***9600 BPS***, 19200 BPS, 38400 BPS
DSR Signal	***Valid***, Invalid
DTR Signal	***Power UP***, Select
Busy Time	***200mS***, 1 sec

Adjustment

Note   *The default setting is in **bold blue** type.*

Group	Item	Settings
Adjustment	TOF Adj. (Cut)	-40 to **0** to +40 in increments of 1/14-inch
	TOF Adj.(CSFF) (Applies only if the optional CSF is installed.)	Same as above.
	TOF Adj.(CSFR) (Applies only if the optional CSF is installed.)	Same as above.
	Front Load Adj.	-40 to **0** to +40 in increments of 1/144-inch
	Rear Load Adj. (Applies only if the optional Rear Push Tractor is installed.)	Same as above.
	PE Adj. (Cut)	-15 to **0** to +15 in increments of 1/144-inch
	PE Adj. (CSFF) (Applies only if the optional CSF is installed.)	Same as above.

Group	Item	Settings
Adjustment (cont.)	PE Adj. (CSFR) (Applies only if the optional CSF is installed.)	Same as above.
	PE Adj. (Front)	-15 to *0* to +15 in increments of 1/144-inch
	PE Adj. (Rear) (Applies only if the optional Rear Push Tractor is installed.)	Same as above.
	1stDotAdjCut	Left x, *0*, Right y x = 10 through 1 y = 1 through 10 adjustable in increments of 1/180 inch (0.14 mm)
	1stDotAdjAlign	Same as above.
	1stDotAdjCSFF (Applies only if the optional CSF is installed.)	Same as above.
	1stDotAdjCSFR (Applies only if the optional CSF is installed.)	Same as above.
	1stDotAdjFront	Same as above
	1srDotAdjRear (Applies only if the optional Rear Push Tractor is installed.)	Same as above.

Group	Item	Settings
Adjustment (cont.)	Regist. Low	-5 through +5, adjustable in increments of 1/360 inch (0.14 mm)
	Regist. Normal	Same as above.
	Regist. High 1	Same as above.
	Regist. High 2	Same as above.
	LF Revise (Cut)	-10 to *0* to +10 See table below.
	LF Revise (CSFF) (Applies only if the optional CSF is installed.)	Same as above.
	LF Revise (CSFR) (Applies only if the optional CSF is installed.)	Same as above.

Explanation of Menu Items

The menu items are listed in alphabetical order.

For a summary of the menu groups, items and settings, see "Menu Summary" on page 32.

1stDotAdjAlign

Note *Auto Alignment must be **enabled**. See page 48.*

Adjusts the set horizontal location for printing the first character on a form when using manual feed from the platform. Selectable settings: Left 10, Left 9, … Left 2, Left 1, Right 1, Right 2 … Right 9, Right 10, in increments of 1/180 inch (0.14 mm).

The default is 0.

1stDotAdj: Single Sheets/Forms

Note *Auto Alignment must be **enabled**. See page 48.*

- **1stDotAdjCSFF**

Applies to sheets/forms fed through the optional CSF mounted in the front of the printer.

- **1stDotAdjCSFR**

Applies to sheets/forms fed through the optional CSF mounted in the rear of the printer.

- **1stDotAdjCut**

Applies to sheets/forms fed manually through the platform.

Adjusts the set horizontal location for printing the first character when using single sheets/forms. Selectable settings: Left 10, Left 9, … Left 2, Left 1, Right 1, Right 2 … Right 9, Right 10, in increments of 1/180 inch (0.14 mm).

The default is 0.

1stDotAdj: Continuous Forms

- **1stDotAdjFront**

  Applies to continuous forms fed through the front tractor.

- **1stDotAdjRear**

  Applies to continuous forms fed through the optional Rear Push Tractor.

  Adjusts the set horizontal location for printing the first character on a form when using manual feed from the platform. Selectable settings: Left 10, Left 9, … Left 2, Left 1, Right 1, Right 2 … Right 9, Right 10, in increments of 1/180 inch (0.14 mm).

  The default is 0.

Align1 Pos. Adj.
Align2 Pos. Adj.
Align3 Pos. Adj
Align4 Pos. Adj.

To use this setting, The corresponding Align 1/ Align 2/ Align 3 / Align 4 setting must be selected for Auto Align or Auto Align (POW).

Use these to set up to four custom values for the left margin on forms when you are using manual feed from the platform. This represents the distance from the left edge of the page to the left side of the first printed character. Adjusts within a range of 0 to 45.4 mm, in 1/90-inch [0.26 mm] increments.

The default setting is 5.1 mm.

Auto Align

Applies only to manual feed from the platform.

When Auto Align is engaged (the printer default), you can use the front panel switches to change to a different preset left margin value (Align 1, 2, 3, or 4). The values are set in the menu under Align1 Pos. Adj., etc.

This lets you quickly switch to another form which requires a different left margin. For more information on using the front panel to change Align settings, see page 12.

If MemoryAutoAlign (see page 57) is set to Valid [the default], whichever Align setting you last used will be saved in memory and engaged the next time you turn on the printer.

Note   *This setting does not apply when the printer initializes in response to an I-PRIME signal.*

Available settings: Align 1 [the default], Align 2, Align 3, Align 4, or Invalid (skew adjustment disabled).

Auto Align Detect

Detects and corrects paper skew when manual feed through the platform is being used with Auto Align *enabled* [the default]. Available settings: Valid Level 1, Valid Level 2 [the default], or Invalid.

Change to Valid Level 1 if you wish the detection to be more precise.

Change to Invalid if you are experiencing difficulty getting forms to load into the printer when using preprinted forms with anomalies at the top such as a large dark area on one side or a cutout. Such types of forms defeat the skew sensor.
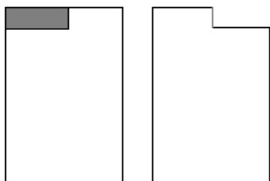
Auto Align (POW)

> ***Note*** *This setting interacts with the other "Align" items in the Manual Feed group. See page 36.*

Sets the alignment method (skew adjustment) engaged for manual feed from the platform *when the printer is turned on*.

> ***Note*** *This setting does not affect the printer when it initializes in response to an I-Prime signal.*

Available settings: Align 1, Align 2, Align 3, Align 4, or SelectAutoAlign [the default].

- *Select Auto Align [the default]*: Skew adjustment is set by Auto Align in the Manual Feed group. See page 36.
- *Align x (x = 1, 2, 3, or4)*: Skew adjustment is set by the corresponding Align*x* Pos.Adj in the Manual Feed group. See page 47.

Auto CR

IBM emulation only.

The default is No. 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 Eject Pos.

This sets when the paper ejects, based on the distance between the vertical center of the characters on the last line of the page and the bottom of the page. Choose 3.18 mm (1/8") or 6.35 mm (1/4") [the default].

Auto Feed XT

The default is Invalid. Change it to Valid if your system uses pin 14 of the parallel interface to control automatic line feed.

Auto Gap Timing

Applies only when the optional CSF is installed.

Normally the gap is detected only on the first sheet when the path is switched to the CSF. If you want the printer to detect the gap for every sheet that feeds in from the CSF, change the setting to Every Paper.

Auto LF

The default is No. If you want the printer to automatically add a line feed, change the setting to Yes.

Auto Select

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

Baud Rate

Applies only when the optional RS-232C Serial Interface is installed.

Select a transmission speed of 300 BPS, 600 BPS, 1200 BPS, 2400 BPS, 4800 BPS, 9600 BPS [the default], 19200 BPS, or 38400 BPS.

Bi-Direction

For the parallel interface, in the nibble mode. To disable the bi-directional interface, change the setting to Disable.

Busy Line

Applies only when the optional RS-232C Serial Interface is installed.

Selects which line your system monitors for a busy signal if the Ready/Busy protocol (the default) s engaged. Set SSD- [the default], SSD+, DTR, or RTS.

Busy Time

Applies only when the optional RS-232C Serial Interface is installed.

Sets the length of the busy signal when the Ready Busy protocol (the default) is engaged. Select 200 milliseconds [the default], or 1 second.

Buzzer

The default is Enable. Change to Disable to turn off the printer's audible alarm.

Buzzer Volume

Choose the volume of the buzzer: Low [the default], Middle, or High.

Character Set

Choose the Character Set: Set I [the default], Set II, Standard, Line Graphics, or Block Graphics (available only when the OKi ML emulation is selected).

Check Print Area

Applies to manual feed from the platform with Auto Alignment enabled. Determines whether or not data which is outside the normal print area specified for the page prints.

The default is Valid: data overflow does *not* print. This prevents such data from printing on the platen.

Caution! If you change this setting to Invalid, data could print directly on the platen and damage the printhead.

Code Page

Choose the Code Page character set you wish to use: USA [the default], Canada French, Multilingual, Portugal, Norway, BRASCII, Abicomp, Multilingual 858, or ISO 8859-15.

Cont. I-Prime

Sets what happens when an I-Prime signal is received. To prevent any movement of the printhead when an I-Prime signal is received, change the setting to Invalid.

CSF Select

Applies only when two optional CSFs are installed.

Determines which CSF (front or rear) is used/selected first.

CutSheet Smooth

Helps to correct for paper curl when feeding in a form manually through the platform. Available settings: Valid [the default] or Invalid.

Data Word

ML emulation only.

Sets the character code and graphics data for 8Bits [the default] or 7 Bits.

Diagnostic Test

Applies only when the optional RS-232C Serial Interface is installed.

To run the diagnostic test, enter the menu and select Yes.

DRAFT Mode

Choose HSD (High Speed Draft) [the default] or SSD (Super Speed Draft).

DSR Signal

Applies only when the optional RS-232C Serial Interface is installed.

Sets the way your system handles the DSR signal when the Ready/Busy protocol (the default) is engaged. Change the setting to Invalid if you want the printer to ignore the DSR signal.

DTR Signal

Applies only when the optional RS-232C Serial Interface is installed.

The default is Power Up. Change the setting to Select if the DTR signal is required when the printer is selected.

Eject Direction

Applies only if the optional CSF is installed.

Change to FF Code if you want the printer to eject a cut sheet when it receives the FF command.

Eject Dir.

Choose where the paper is ejected when you are using manual feed from the platform or the optional CSF(s): Front [the default] or Rear.

Emulation Mode

Choose the printer emulation: IBM PPR [the default], , Epson FX, or ML (Oki Microline).

ESC SI Pitch

IBM emulation only.

Sets the character pitch used when the ESC SI command is received. Select 17.1 cpi [the default] or 20 cpi.

FF Function

Applies only when the optional Cut Sheet Feeder is installed.

Sets what happens when the printer receives the FF command: Eject [the default] or Form Feed.

Form Tear-Off

The default is Off. To activate Form Tear-Off, change the setting to On.

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

For more information, see page 72.

Front Load Adj.

For fine tuning the Top of Form (TOF) location when using continuous forms (front feed). Settable from -40 to +40 in increments of 1/144 inch. The default is 0.

Negative values decrease the space down from the top of the form:

- TOF moves up
- paper moves down.

Positive numbers increase the space down from the top of the form:

- TOF moves down
- paper moves up.

Gap Control

Sets whether the printhead gap is set automatically [the default] or manually.

Manual Gap Settings

Setting	Used for
Manual Gap 1	• Single sheets 14 to 22 lb. US Bond (52 to 81 g/m^2) • Thickness range 0.06 to 0.10 mm
Manual Gap 2	• Single sheets 22 to 34 lb. US Bond (81 to 128 g/m^2) • 2-Part Multi-Part Forms (carbon-backed) • Thickness range0.10 to 0.15 mm
Manual Gap 3	• Single sheets 34 to 42 lb. US Bond (128 to 156 g/m^2) • 3-Part Multi-Part Forms (carbon-backed) • Thickness range 0.15 to 0.20 mm
Manual Gap 4	• Postcards • 4-Part Multi-Part Forms (carbon-backed) • Thickness range 0.20 to 0.25 mm
Manual Gap 5	• 5-Part Multi-Part Forms (carbon-backed) • Thickness range 0.25 to 0.30 mm
Manual Gap 6	• 6-Part Multi-Part Forms (carbon-backed) • Thickness range 0.30 to 0.35 mm
Manual Gap 7	• 7-Part Multi-Part Forms (carbon-backed) • Thickness range 0.35 to 0.40 mm
Manual Gap 8	• 8-Part Multi-Part Forms (carbon-backed) • Thickness range 0.40 to0.45 mm
Manual Gap A	• Heavy paper, 0.45 to 0.50 mm thick
Manual Gap B	• Heavy paper, 0.50 to 0.55 mm thick
Manual Gap C	• Heavy paper, 0.55 to 0.60 mm thick
Manual Gap D	• Heavy paper, 0.60 to 0.65 mm thick
Manual Gap E	• Heavy paper, 0.65 to 0.70 mm thick

Gap Pos.

When Auto Gap detection is enabled, this sets how far in from the left edge of the form the gap detection begins: 2 inches (51 mm) [the default] or 4 inches (102 mm).

Graphics

The default is Bi-directional. Changing to Uni-directional will improve the print registration, but slow the print speed.

Graphics Data

Sets graphics data to print 7 Bits [the default] or 8 Bits.

High Skip

The default is Yes. This enables the low-vibration mode, which reduces printer vibration during printing. To switch low-vibration mode off, change this setting to No.

Host Interface

Choose the interface mode: Auto Interface [the default], Parallel, USB, or Option I/F.

I-Prime

The default is Enable: print out the buffer contents when the I-Prime signal is received. Change to Disable if you wish the printer to ignore the I-Prime signal.

I/F Time Out

Appears only if Host Interface is set to Auto Interface [the default].

Choose the amount of time the printer waits (while receiving data) before going into idle mode: 15 sec [the default], 30 sec, 45 sec, 1 min, 2 min, 3 min, 4 min, or 5 min.

If your software spends a long time processing between portions of data it feeds to the printer, choose a longer time interval value to keep your printer from dumping the received data while it is waiting for more.

Impact Mode

Selects the print mode, Normal [the default] or Quiet, engaged on power up.

Initial Pos.

Choose where continuous form paper will be positioned when the printer is turned on.

Print [the default]: the paper is in a ready-for-printing position.

Tear: the paper is at the tear-off position.

Language Set

Replaces certain standard symbols with special characters used in foreign languages. Choose American [the default], French, German, British, Danish 1, Swedish, Italian, Spanish I, Japanese, Norwegian, Danish II, Spanish II, Latin American, French Canadian, Dutch, or Publisher.

Line Spacing

The default is 6 LPI (lines per inch). Change to 8 LPI to get more lines on a page.

LF Revise

- **LF Revise (Cut)**

Applies to sheets/forms fed manually using the platform.

- **LF Revise (CSFF)**

Applies to sheets/forms fed from the optional CSF mounted on the front of the printer.

- **LF Revise (CSFR)**

Applies to sheets/forms fed from the optional CSF mounted on the rear of the printer.

Adjust the line feed value for individual sheets/forms. Settable from -10 to +10. The default setting is 0.

Load LF Speed

Choose the paper feed speed for inserting sheets when you are using manual feed from the platform: Fast Speed [the default] or Slow Speed.

Manual Feed CSF

Applies only when the optional CSF is installed.

Allows you to manually feed in print media through the platform with the CSF selected, so long as no paper is currently loaded on the platform.

Manual Sheet CSF

Applies only when the optional CSF is installed.

Determines which TOFs and Eject Direction settings will be used for manual feed sheets printed while the CSF is selected. If you want the printer to use the Manual Feed menu settings, change the setting to Manual.

Memory Auto Align

Applies only to manual feed from the platform.

The default is Valid. This causes the Auto Align setting made using the front panel switches MODE and SHIFT (see page 12) to be stored in the printer's memory. Change to Invalid if you do not wish this value to be stored.

Multi Pass

Select the print direction (Bi-directional: the default, or Uni-directional) for a line containing double-height print.

Page Length

Choose the length of the media you are using: 76.2 mm (3"), 82.6 mm (3.25"), 88.9 mm (3.5"), 101.6 mm (4"), 127.0 mm (8"), 139.7 mm (5.5"), 152.4 mm (6"), 177.8 mm (7"), 203.2 mm (8"), 215.9 mm (8.5"), 279.4 mm (11") [the default], 296.3 mm (11.67"), 304.8 mm (12"), 355.6 mm (14"), 431.8 mm (17").

Note *If the printer receives a page length setting command, it will override this menu setting.*

Page Width

Choose the width of the media you are using: 8", 10.6", 13.2", or 13.6" [the default].

Panel Function

When the Panel Function setting is changed to Limited, the QUIET (SHIFT + FF) and NORMAL PRINT (SHIFT + LF) switches don't work. This prevents these settings from being changed when several people are using the printer.

Paper End

Choose what happens when paper end is detected when you are using manual feed from the platform: On-line [the default] or Off-line.

Parallel I/F

Only Nibble Mode supports bi-directional.

Choose the printing used by the parallel interface: Uni-directional or Bi-directional [the default].

Parity

Applies only when the optional RS-232C Serial Interface is installed.

Settings include None [the default], Odd and Even.

Path Change

Choose whether or not the Tear Off feature is engaged when you change to the continuous forms path. See page 72. The default is off (Not Tear Off). To set the printer to automatically engage the Form Tear feature when it switches to continuous forms printing, change the setting to Tear Off.

PE Adj. [Paper End Adjust]

For fine tuning the location of the last line of printing (Paper End) for a specific paper feed path. See below for a list of paper feed paths.

Settable from -15 to +15 in increments of 1/144-inch. The default is 0.

Negative values allow printing further down on the form.

- Paper End moves down
- paper moves up.

Positive values stop the printing further up on the form.

- Paper End moves up
- paper moves down

Paper Feed Paths

- PE Adj. (Cut)

  Applies to sheets fed manually through the platform.

- PE Adj. (CSFF)

  Applies to sheets fed through the optional CSF mounted on the front of the printer.

- PE Adj. (CSFR)

  Applies to sheets fed through the optional CSF mounted on the rear of the printer.

- PE Adj. (Front)

  Applies to continuous forms fed through the front tractor.

- PE Adj. (Rear)

  Applies to continuous forms fed through the optional Rear Push Tractor.

PE Pos. [Paper End Position]

This sets when the the printer will move to the next continuous form, based on the distance between the center of the characters on the last line of the form and the bottom of the form. Available settings: 3.18 mm (1/8") or 6.35 mm (1/4") [the default].

Pitch

Choose the character width, in characters per inch (cpi): 10 [the default], 12, 15, 17.1, or 20 cpi.

Power Save Time

Sets the time the printer waits before entering the Power Save Mode when Power Saving is set to Enable [the default]: 5 min, 10 min [the default], 15 min, 30 min, or 60 min.

Power Saving

Sets whether or not the printer enters the energy-saving Power Save Mode after the interval specified under Power Save Time. The default is Enable.

Print DEL Code

IBM emulation only.

The default is No. Change he setting to Yes if you want to print the DEL code (decimal 127) as a solid box.

Print Dir. Cmd.

The default is Valid: the printer will recognize a command for unidirectional printing. Change to Invalid if you do not wish the printer to recognize uni-directional printing commands.

Print Mode

Choose the print quality and speed: Utility [the default], NLQ Courier, NLQ Gothic, or DRAFT.

Print Suppress

The default is No. If your system uses the DC1 and DC3 codes for print suppress mode, change the setting to Yes.

Prop. Spacing

The default is No. Choose Yes to engage proportional spacing of characters.

Protocol

Applies only when the optional RS-232C Serial Interface is installed.

Sets the protocol used: Ready/Busy [the default] or X-ON/X-OFF.

Rcv. Buffer

Sets the amount of memory (0 or 128 Kbytes) devoted to holding received data. The default is 128 Kbytes. Changing this to 0 will tie up your computer while printing, but if you abort the print job, the printer will stop much sooner.

Rear Load Adj.

Applies only when the optional Rear Push Tractor is installed.

For fine tuning the Top of Form (TOF) location when using continuous forms with the rear push tractor. Settable from -40 to +40 in increments of 1/144 inch. The default is 0.

Negative values decrease the space down from the top of the form:

- TOF moves up.
- paper moves down.

Positive numbers increase the space down from the top of the form:

- TOF moves down.
- paper moves up.

Regist. Low
Regist. Normal
Regist. High 1
Regist. High 2

For print registration adjustment These are set at the factory.

Remove Sheet Wait

Applies only when the optional CSF is installed on the rear of the printer.

Change the setting to Alarm if you want the printer to sound an alarm when a printed sheet has exited the the rear CSF and is sitting on the platform.

Reset Inhibit

The default is No. Change this to Yes to prevent your software from resetting your printer's settings. The printer will ignore an INITIAL command.

Serial Data

Applies only when the optional RS-232C Serial Interface is installed.

Sets the serial data length: 8Bits [the default] or 7Bits.

Set Alarm

Controls the Paper Set Alarm. Available settings are Valid [the default] or Invalid.

Change to Invalid if the Paper Set Alarm sounds when you try to load preprinted forms with anomalies at the top, such as a large dark area or a cutout. These types of forms defeat the paper sensors.
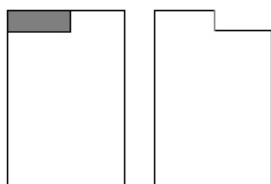
Sheet Feed Mode

Applies only when the optional CSF is installed.

Sets whether Manual [the default] or Auto cut sheet feed mode (CSF) is engaged when the printer is initialized.

SI Pitch (10)

IBM emulation only.

Sets the pitch to be engaged when the printer control panel is set for 10 cpi and the SI command is received. Choose 15 cpi or 17.1 cpi [the default].

SI Pitch (12)

IBM emulation only.

Sets the pitch to be engaged when the printer control panel is set for 12 cpi and the SI command is received. Choose 12 cpi or 20 cpi [the default].

Size

The default is Single. Choose Double for double width and height printing.

Skew Detect

Detects and corrects paper skew when manual feed through the platform—or the optional CSF mounted on the front—is being used with Auto Align *disabled*. Available settings: Valid Level 1, Valid Level 2 [the default], or Invalid.

Change to Valid Level 1 if you wish the detection to be more precise.

Change to Invalid if you are experiencing difficulty getting forms to load into the printer when using preprinted forms with anomalies at the top such as a large dark area on one side or a cutout. Such types of forms defeat the skew sensor.
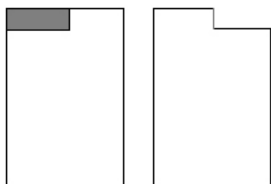
Skp Ovr Binding

Choose Invalid, Valid 1 [the default] or Valid 2.

Valid 1

- Continuous forms only
- *before* Form Feeding
- *before* Perforation Skip
- line feeding of 18 mm (.71") or more

Valid 2

- Continuous forms and manual feed
- *before* Form Feeding

Skip Over Perf.

Sets what happens when the printer comes within 1-inch (25 mm) of the bottom of the page. The default is No, for use when your software has its own page formatting controls. 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.

Style

The default is Normal. Choose Italic if you want the printed characters to be slanted.

Tear Mode

Applies only when the optional Rear Push Tractor is installed.

Change to Tear Up if you do not wish the printer to execute a form feed before moving the forms to the tear off position.

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.

TOF

Top of Form sets the position down from the top of the page at which printing starts. The default is 6.35 mm (1/4") from the top of the page to the vertical middle of the first print line.

Note   The amount of adjustment is limited to avoid paper jams.

Manual feed settings: 2.12 mm (1/12"), 3.18 mm (1/8"), 6.35 mm (1/4"), 7.62 mm (3/10"), 8.47 mm (1/3")*, 10.58 mm (5/12"), 21.59 mm (0.85"), 23.28 mm (11/12"), 25.4 mm (1"), 27.52 mm (13/12"), 1 Chr. Set Pos.

Continuous form settings: 2.12 mm (1/12"), 3.18 mm (1/8"), 6.35 mm (1/4"), 8.47 mm (1/3")*, 10.58 mm (5/12"), 19.05 mm (9/12"), 21.59 mm (0.85"), 23.28 mm (11/12"), 25.4 mm (1"), 27.52 mm (13/12"), 1 Chr. Set Pos.

- * When 1/3-inch is selected, the distance is from the top of the page to the top of the first print line, not the vertical middle.

TOF Adj. (Cut)

For fine tuning the Top of Form (TOF) location when using manual feed from the platform. Settable from -40 to +40 in increments of 1/144-inch. The default is 0.

Negative values decrease the space down from the top of the form:

- TOF moves up
- paper moves down.

Positive numbers increase the space down from the top of the form:

- TOF moves down
- paper moves up.

TOF Adj. (CSSF)

Applies only when the optional CSF is mounted on the front of the printer.

For fine tuning the Top of Form (TOF) location when the front-mounted CSF is selected.

Available settings and information are the same as described for TOF Adj. (Cut) above.

TOF Adj. (CSFR)

Applies only when the optional CSF is mounted on the rear of the printer.

For fine tuning the Top of Form (TOF) location when the rear-mounted CSF is selected.

Available settings and information are the same as described for TOF Adj. (Cut) above.

Wait Time

Note   *Auto Alignment must be disabled to use Wait Time. See page 48.*

Choose the amount of time the printer waits for paper to be inserted after print data is received when you are using manual feed from the platform: 2.0 sec [the default], 1.5 sec, 1.0 sec, or 0.5 sec.

Zero Character

The default is Unslashed. Change to Slashed if you wish to use a slash to distinguish the number zero from the capital letter 0.

Auto Align

The printer is set at the factory for Auto Align enabled. This feature automatically aligns single sheets or forms placed on the platform with the platen as they are drawn into the printer.

Auto Align cannot be used with envelopes. To print envelopes, you must disable Auto Align (see below), then use the sheet guide (1) to load and align the envelope.
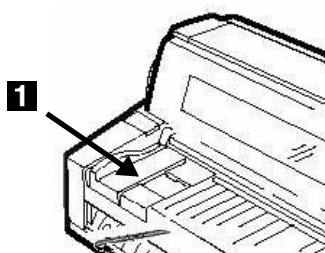
Disabling Auto Align
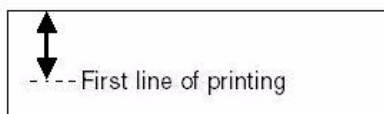
To disable Auto Align, you must go into the printer menu:
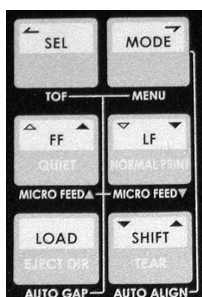
1. Press SEL.
   The printer goes off-line.
2. Simultaneously press SHIFT and MODE.
   The printer enters the Menu Mode. **PRINTER CONTROL** *displays.*
3. Simultaneously press SHIFT and FF repeatedly until **MANUAL FEED** displays.
4. Press FF repeatedly until **AUTO ALIGN** displays.
5. Press MODE repeatedly until the setting **INVALID** displays.
6. Press LOAD to save your new setting and exit the menu mode.

Set Top of Form (TOF)

General Information

The default top of form is set in the printer menu.

The factory default for TOF is 1/4-inch (6.4 mm), equivalent to the distance down from the top of the sheet to the horizontal midpoint of the first line of printed characters.

First line of printing

You can establish one custom TOF setting for each feed path (Manual and Front) and store it in the printer's memory as 1Chr Set Pos. This selection will then automatically appear as the setting for TOF for the corresponding group in the Menu.

You can also use the control panel switches to set a temporary TOF for one sheet or one continuous form.

Use the Printer Menu
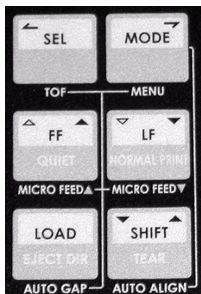
Note   *The printer default for TOF is 1/4-inch (6.4 mm).*

1.   Press SEL.

   The printer goes off-line.

2.   Simultaneously press SHIFT and MODE.

   The printer enters the Menu. **PRINTER CONTROL** *displays.*

3.   Press and hold SHIFT, then press FF repeatedly until the feed path for which you wish to change the TOF appears: **MANUAL FEED** or **FRONT FEED**.

**4.**   Press FF repeatedly until TOF displays.

5. Press MODE repeatedly until the setting you wish to engage displays: 2.12 mm (1/12"), 3.18 mm (1/8"), 6.35 mm (1/4"), 7.62 mm (3/10"), 8.47 mm (1/3"), 10.58 mm (5/12"), 21.59 mm (0.85"), 23.28 mm (11/12"), 25.4 mm (1"), or 27.52 mm (13/12").

6. Press LOAD: this saves your setting and exits the menu mode.

Use 1Chr Set Pos

You can set and use two different custom Top of Forms:

- Front Feed (continuous forms)
- Manual Feed (single forms).

Front Feed (Continuous Forms)
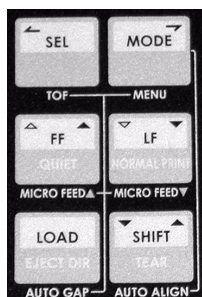
1. Make sure the printer is set to the Front Feed path.
2. Press SEL, then press LOAD to park the continuous forms.
3. Simultaneously press SHIFT and SEL.

   The continuous forms move to the printer's default TOF position (1/4-inch [6.4 mm]).

   The display reads 1CHR. SET POS.

4. Adjust the print start position as follows:

   a. If you are fine tuning the TOF you set for a preprinted form, you can move the form to the position you last set for Front Feed 1Chr. Set Pos. by pressing the FF switch.

   b. To move the *TOF* further *down* on the page (print paper advances further into the printer):

      – In 1/144-inch (0.18 mm) increments: press and hold the SHIFT switch, then press FF.
      – In 10/144-inch (1.75 mm) increments: press and hold the SHIFT switch, then press SEL.
      – One line at a time: press LF.

    c.   To move the *TOF* further *up* on the page (print paper retracts further out of the printer):

       – In 1/144-inch (0.18 mm) increments: press and hold the SHIFT switch, then press LF.

       – In 10/144-inch (1.75 mm) increments: press and hold the SHIFT switch, then press MODE.

5.   Store the TOF position in the printer's memory:

    a.   To store the position as the 1Chr. Set Pos setting, press the SEL switch. The setting will be retained, even if you turn the printer off, until you use this procedure to change the setting. This also automatically sets the TOF setting in the Front Feed group to 1Chr. Set Pos.

    Note   *If you reset the printer to the factory defaults, the 1Chr. Set Pos you have established will be deleted.*

    b.   To store the position in the printer's memory only until it is turned off or it receives an I-Prime signal, press the LOAD switch.

6.   Press SEL to return the printer to the on-line state.

Manual Feed (Single Sheets/Forms)
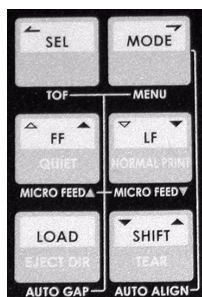
1.   Make sure the printer is set to the Manual Feed path.

2.   Press SEL, then press LOAD to remove the paper from the manual feed path.

3.   Simultaneously press SHIFT and SEL.
The SEL light starts blinking and the display reads
1CHR. SET MODE
INSERT PAPER.

4.   Load a sheet/form on the platform.
The sheet/form advances to the printer's default TOF (1/4-inch [6.4 mm]) and the display reads 1CHR. SET POS.

5.   Adjust the print start position as follows:

a. If you are fine tuning the TOF you set for a preprinted form, you can move the sheet/form to the position you last set for Manual Feed 1Chr. Set Pos. by pressing the FF switch.

b. To move the *TOF* further *down* on the page (print paper advances further into the printer):

  – In 1/144-inch (0.18 mm) increments: press and hold the SHIFT switch, then press FF.
  – In 10/144-inch (1.76 mm) increments: press and hold the SHIFT switch, then press SEL.
  – One line at a time: press LF.

c. To move the *TOF* further *up* on the page (print paper retracts further out of the printer):

  – In 1/144-inch (0.18 mm) increments: press and hold the SHIFT switch, then press LF.
  – In 10/144-inch (1.76 mm) increments: press and hold the SHIFT switch, then press MODE.

6. Store the TOF position in the printer's memory:

a. **To store the position as the 1Chr. Set Pos setting**, press the SEL switch. The setting will be retained, even if you turn the printer off, until you use this procedure to change the setting. This also automatically sets the TOF setting in the Manual Feed group to 1Chr. Set Pos.

Note   *If you reset the printer to the factory defaults, the 1Chr. Set Pos you have established will be deleted.*

b. **To store the position in the printer's memory only until it is turned off or receives an I-Prime signal**, press the LOAD switch.

7. Press SEL to return the printer to the on-line state.

Temporary TOF

Use the Control Panel

This TOF setting applies only to the sheet or continuous form loaded into the printer when the setting is made. The next sheet or form feeds to the selected default TOF.

1. With paper loaded in the print path, press SEL to put the printer offline.
2. Change the location of the first line of printing:
   a. To move the *TOF* further *down* on the page (print paper advances further into the printer):
      – In 1/144-inch (0.18 mm) increments: press and hold the SHIFT switch, then press FF.
      – One line at a time: press LF.
   b. To move the *TOF* further *up* on the page (print paper retracts further out of the printer):
      – In 1/144-inch (0.18 mm) increments: press and hold the SHIFT switch, then press LF.
3. Press SEL to return the printer to the on-line state.
4. Send the print job.

Form Tear Off

The Form Tear Off feature allows you to advance continuous forms to the stacker for tear off.

The printer default for Forms Tear Off is Off. To use this feature, you must enter the Function Settings Menu and turn it on.

Turn On Forms Tear Off
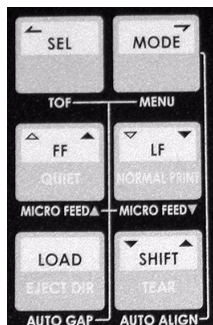
1. Press SEL.

   The printer goes off-line.

2. Simultaneously press SHIFT and MODE to enter the Function Settings Menu.

   PRINTER CONTROL *displays.*

3. Press and hold SHIFT, then press FF repeatedly until FRONT FEED displays.

4. Press FF repeatedly until FORM TEAR-OFF displays.

5. Press MODE repeatedly until the interval you want to select (2 seconds, 1 second, or 500 milliseconds) displays.

6. Press LOAD: this saves your setting and exits the menu mode.

Move Continuous Forms Up for Tear Off

Press the SHIFT/TEAR switch to move continuous forms to the tear off position.

Tests

Rolling ASCII Test

Note   *When the printer is running a test, it always uses a left margin of 5.1 mm (0.2-inch).*

This test provides a one-page continuous printout of the ASCII characters.

1.   Turn off the printer.
2.   Simultaneously press and hold the LF and FF switches while turning on the printer, until RELEASE SW displays.
3.   When prompted, load a sheet of paper on the platform.
4.   The Rolling ASCII test will run and the sheet will eject.

Font Sample Test

Note   *When the printer is running a test, it always uses a left margin of 5.1 mm (0.2-inch).*

This test provides a sample of each of the available fonts in the printer.

Note   *The Font Sample test takes two letter-size sheets.*

1.   Turn off the printer.
2.   Simultaneously press and hold the MODE and LF switches while turning on the printer, until RELEASE SW displays.
3.   When prompted, load a sheet of paper on the platform.
4.   The Font Sample test will run and the sheet will eject.
5.   Remove the first printed sheet from the platform and load another sheet.
6.   The test finishes printing and the sheet ejects.

Hex Dump Mode

Note　*When the printer is running a test, it always uses a left margin of 5.1 mm (0.2-inch).*

When the printer is in the Hex Dump Mode, all data received, including text and printer commands, will be printed in both hexadecimal and ASCII format.

Note　*In the ASCII format, all non-printable characters will be represented by a period.*

Engaging the Hex Dump Mode

1. Be sure paper is loaded.
2. Turn the printer off.
3. Simultaneously press and hold the MODE + LF + SHIFT switches while turning the printer on, until **RELEASE SW** displays.

   HEXDUMP *displays and "Hex Dump Mode" prints at the top of the paper.*

Running a Hex Dump Test

To run the test, send data to the printer while it is in the Hex Dump Mode.

Exiting Hex Dump Mode

Turn the printer off, then on again.

Setting the Printhead Gap

General Information

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

Your printer comes from the factory set to automatically detect the printhead gap (Auto Gap selected) for the media being fed in. Certain media, especially media with uneven thickness, may not work well with the Auto Gap feature and could produce unsatisfactory print results.

To correct for this, change from Auto Gap to a manually set gap. You may need to experiment a bit to determine the best manual setting for a particular media.

Note   *Because their thickness varies, envelopes do not work with Auto Gap.*

Printhead Gap Settings

Setting	Used for
Manual Gap 1	• Single sheets 14 to 22 lb. US Bond (52 to 81 g/m^2) • Thickness range 0.06 to 0.10 mm
Manual Gap 2	• Single sheets 22 to 34 lb. US Bond (81 to 128 g/m^2) • 2-Part Multi-Part Forms (carbon-backed) • Thickness range 0.10 to 0.15 mm
Manual Gap 3	• Single sheets 34 to 42 lb. US Bond (128 to 156 g/m^2) • 3-Part Multi-Part Forms (carbon-backed) • Thickness range 0.15 to 0.20 mm
Manual Gap 4	• Postcards • 4-Part Multi-Part Forms (carbon-backed) • Thickness range 0.20 to 0.25 mm
Manual Gap 5	• 5-Part Multi-Part Forms (carbon-backed) • Thickness range 0.25 to 0.30 mm
Manual Gap 6	• 6-Part Multi-Part Forms (carbon-backed) • Thickness range 0.30 to 0.35 mm
Manual Gap 7	• 7-Part Multi-Part Forms (carbon-backed) • Thickness range 0.35 to 0.40 mm
Manual Gap 8	• 8-Part Multi-Part Forms (carbon-backed) • Thickness range 0.40 to 0.45 mm
Manual Gap A	• Heavy paper, 0.45 to 0.50 mm thick
Manual Gap B	• Heavy paper, 0.50 to 0.55 mm thick
Manual Gap C	• Heavy paper, 0.55 to 0.60 mm thick
Manual Gap D	• Heavy paper, 0.60 to 0.65 mm thick
Manual Gap E	• Heavy paper, 0.65 to 0.70 mm thick

Change to a Manual Printhead Gap Setting

"On-the-Fly"

If you are switching to a different print media and wish to temporarily change the printhead gap setting for that media, you can use the control panel switches to change the printhead gap setting. The setting will be maintained until the printer is turned off or until it it receives an I-Prime signal.

You can also use this feature to try different settings for your media, then set the best one(s) as the printer default in the Menu (see below).

1. Press the SEL switch to deselect the printer.
2. Press and hold the SHIFT switch, then press the LOAD switch repeatedly to scroll through the various settings for the printhead gap.
3. When the desired setting appears on the display, press the SEL switch to place the printer back on line.

In the Menu

If you wish to change the printhead gap and continue to use the manual setting even if the printer is turned off, it must be done in the printer Menu.

You can establish two different printhead gap settings in the menu: one in the Manual Feed group and one in the Form Feed group.

Note   *You can also use the menu to set the printhead gap for the optional CSF and the optional Rear Push Tractor.*
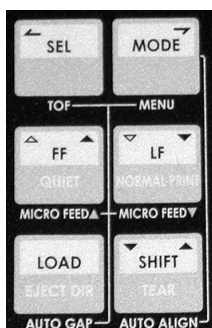
1. Press the SEL switch to deselect the printer.
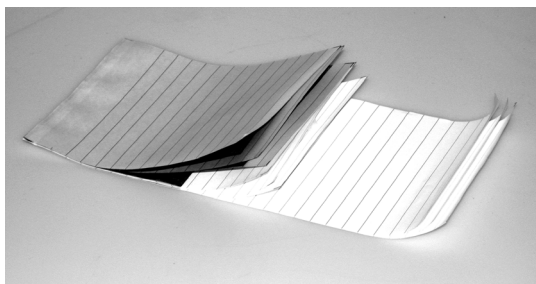2. Press SEL.

   The printer goes off-line.

3. Simultaneously press SHIFT and MODE.

PRINTER CONTROL *displays.*

4. Press and hold SHIFT, then press FF repeatedly until MANUAL FEED displays.

5. Press FF repeatedly until GAP CONTROL displays.

6. Press MODE repeatedly until the desired printhead gap setting appears on the display.

7. Press and hold SHIFT, then press FF repeatedly until FRONT FEED displays.

8. Press FF repeatedly until GAP CONTROL displays.

9. Press MODE repeatedly until the desired printhead gap setting appears on the display.

Note *To set the gap for the optional CSF and/or the optional Rear Push Tractor, repeat steps 7-9 for* CSF FRONT*,* CSF REAR*, and/or* REAR FEED*.*

10. Press LOAD: this saves your setting and exits the menu mode.

Troubleshooting

Paper Jams, Individual Sheets/Forms

<table>
<tr><td>

IMPORTANT!

If you are using individual multi-part forms which have multiple pages of differing lengths such as the one shown below, switch to the rear Eject Direction to eliminate possible jams.

- To temporarily switch, press the LOAD/EJECT DIR switch.
- To permanently change to the rear Eject Direction, go into the menu and change the setting for Eject Dir. in the Manual Feed (or CSF Front and/or CSF Rear if these options are installed) group to Rear:
  1. Press SEL to deselect the printer.
  2. Press MODE + SHIFT simultaneously.
  3. Press and hold SHIFT, then press FF repeatedly until you see Manual Feed on the display.
  4. Press FF repeatedly until you see Eject Dir. on the display.
  5. Press MODE to change the setting to Rear.
  6. Press LOAD to save the setting and exit the menu.

</td></tr>
</table>

If a paper jam is indicated on the display panel, use the following method to clear it.

Caution!   ***Do not open the access cover with the power on, as injury may result.***

Caution!   ***The printhead may be very hot after printing. Allow the printhead to cool before touching it.***

1. Turn OFF the power switch.
2. Open the cover and move the printhead [*Caution! Printhead may be HOT!*] to an area off the sheet of paper.
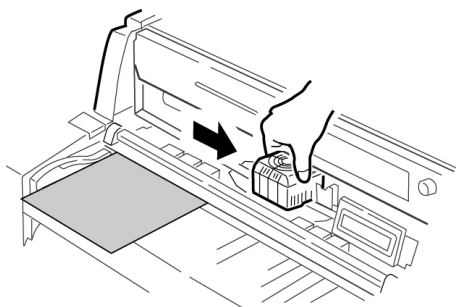
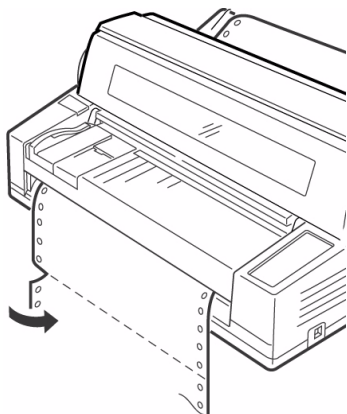3. Turn the platen knob forward or backward to bring out the jammed sheet.
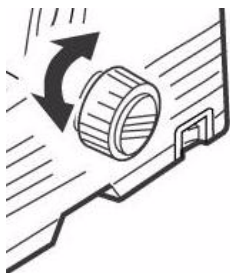
Paper Jams, Continuous Forms

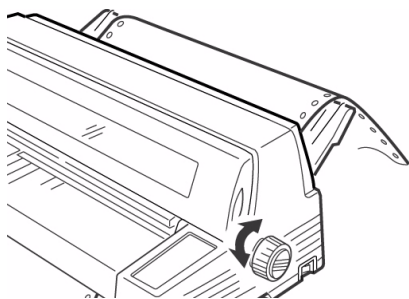If a paper jam is indicated on the display panel, use the following method to clear it.

**Caution!** ***Do not open the access cover with the power on, as injury may result.***

Caution! ***The printhead may be very hot after printing. Allow the printhead to cool before touching it.***

1. Turn OFF the power switch.
2. Tear off the continuous form from the paper stack.

3. Turn the platen knob to bring out the continuous forms.

Paper Jams, Repetitive

If a paper jam is indicated on the display panel, use the following method to clear it.

Caution! ***Do not open the access cover with the power on, as injury may result.***

Caution! ***The printhead may be very hot after printing. Allow the printhead to cool before touching it.***

If paper keeps jamming you probably have bits of paper stuck in the paper path.

1. If you have continuous forms loaded, park the paper by pressing SEL to deselect the printer, then pressing LOAD.
2. Turn OFF the printer.
3. Open the cover and remove any visible pieces of paper with a pair of tweezers.
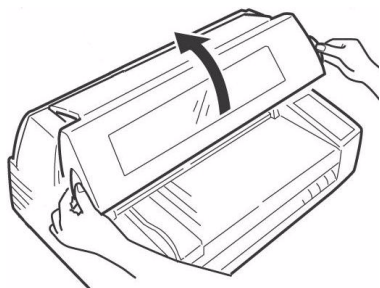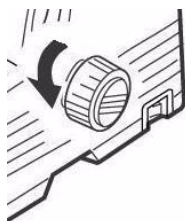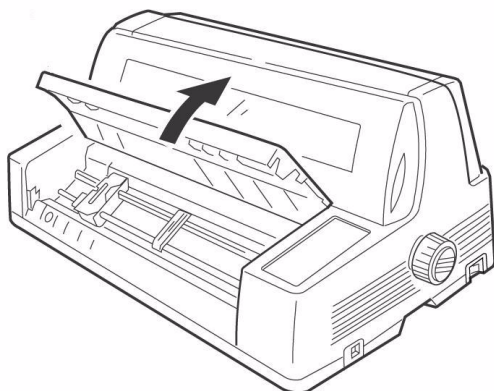
4. Fold a single sheet into three thicknesses.
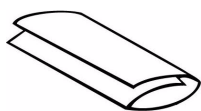
5. Place the folded sheet on the platform and feed it through by turning the platen knob.
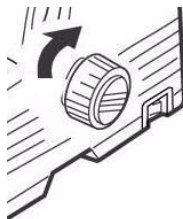
6. Remove any bits of paper that come out.

7. Use the platen knob to remove the continuous forms paper.
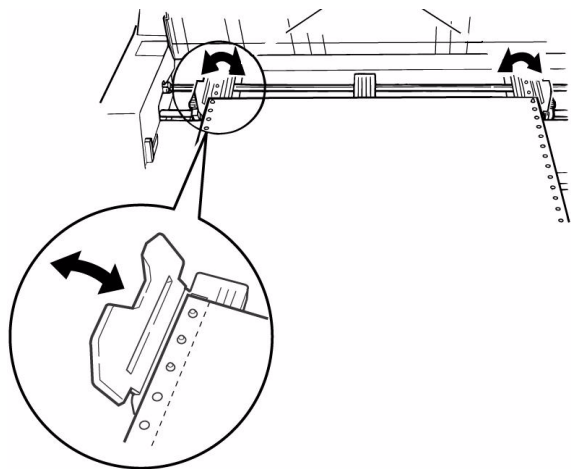

8. Lift the sheet feed platform.

9. Fold some single-sheet thick continuous forms paper over three times to make a page four sheets thick, then load it on the tractors.

10. Use the platen knob to draw the quadruple-thick form around the platen and out of the printer.
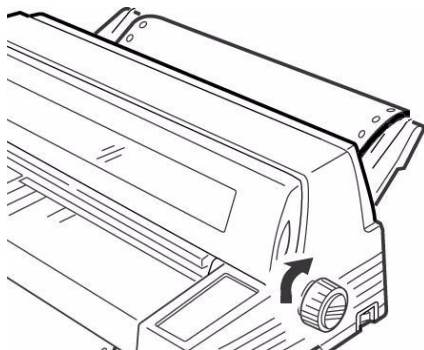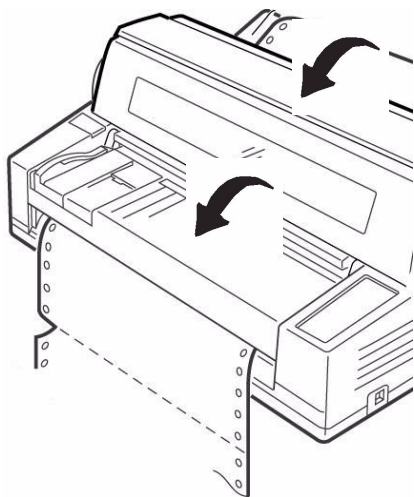

11. Remove any bits of paper that come out.

12. Reload your continuous forms paper.

13. Close the sheet feed platform and the cover.

14. Turn on the printer.

Error Messages

Manual paper End
Insert Paper

Load paper on the platform and press SEL.

Paper end alignx
insert paper

Load paper on the platform and press SEL.

Front Paper End
Insert Paper

Load continuous forms paper on the front tractors.

Rear Paper End
Insert Paper

Only appears when the optional Rear Push Tractor is installed. Load continuous forms paper on the rear tractor.

CSFF Paper End
Set Paper to CSF

Applies only when the optional CSF is installed. Load paper in the CSF.

CSFR Paper End
Set Paper to CSF

Applies only when the optional CSF is installed. Load paper in the CSF.

Paper Jam
Remove paper

Remove the jammed paper and press SEL. See page 79.

Data Present
Insert Paper

The printer has received data, but there is no print media loaded in the selected path. Load print media.

Data Present
Press SEL SW

The printer has received data and paper is loaded, but the printer is off line. Press the SEL switch to place the printer on line.

Path Changing
Remove Cut Sheet

The printer is attempting to change paper paths from Manual Feed to Front Feed, but print media is loaded on the platform. Press FF to remove the media from the platform.

Path Changing
Remove Paper

The printer is attempting to change paper paths from continuous forms to individual sheets/forms, but print media from the front tractor or the optional Rear Push Tractor is loaded. Press LOAD to park the continuous forms.

Press LOAD SW

The printer is waiting for paper to load from the optional CSF. Press LOAD.

Cover Open
Close Cover

Close the top cover.

Paper Feed Alarm
Re-Set Paper

Print media on the platform has miss-fed into the printer. Press SEL, then press LOAD to eject the media, then try loading it again.

Paper Set Alarm
Re-Set Paper

The paper is not installed correctly. Remove and reinstall it.

Left Margin Err
Check Margin

The left margin setting needs to be adjusted for the print media. Check to be sure that the Align x Pos. Adjust value you have selected as appropriate. See page 47.

Head Thermal
Single Pass

The printhead has a thermal sensor which has detected that the printhead is too hot. The printer has switched to uni-directional printing until the printhead cools down.

High Duty Print
Single Pass

The print density is high and the printer has switched to uni-directional printing.
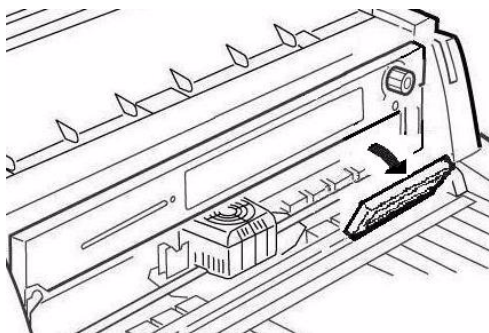
Gap NG
Reload

The printhead gap has been set to a manual setting that does not suit the media. Change the setting or restore it to the default Auto Gap before printing.
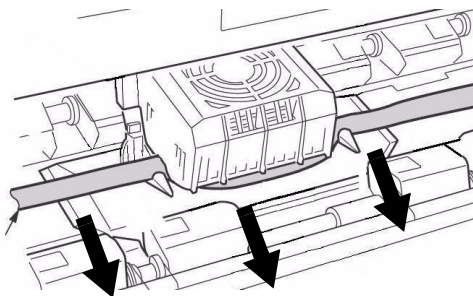
Maintenance

Replace the Ribbon

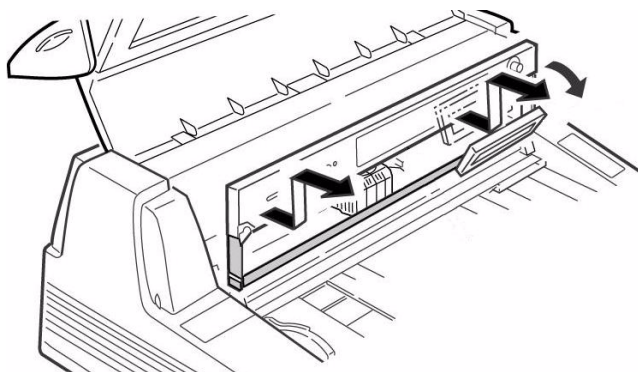*Note*   *Use only genuine OKI replacement ribbons.*

1. Turn off the printer.
2. Open the cover.
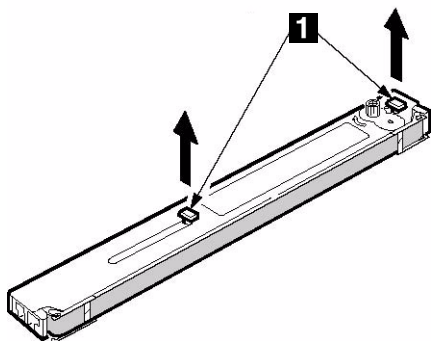3. Tilt the display panel forward.

4. Pull the ribbon out a bit at the left end of the cartridge to give some slack, then unthread it from the printhead.
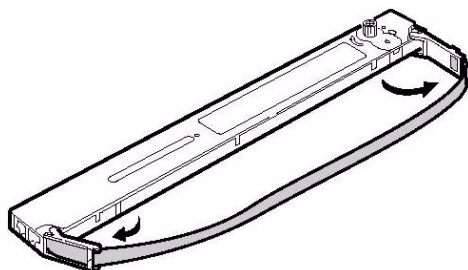
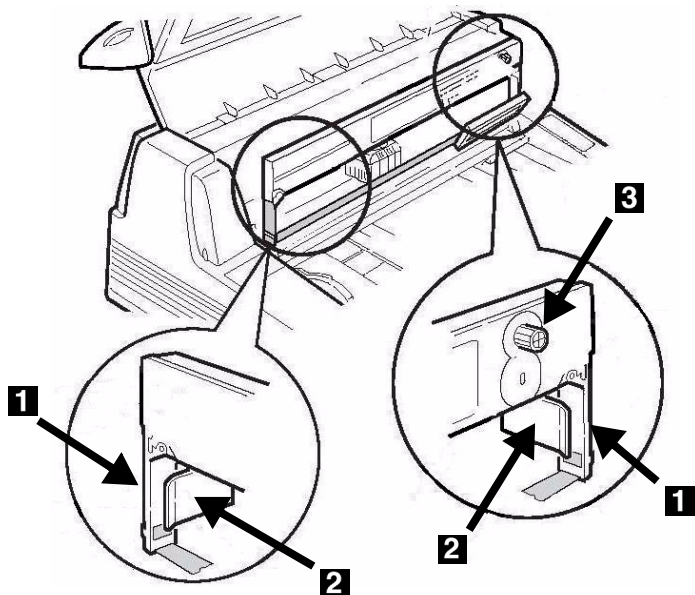**5.** Remove the used ribbon cartridge and discard it in accordance with local regulations.

6. Unpack the ribbon cartridge and remove the lock pieces (**1**).

7. Swing out the ribbon arms on either end of the cartridge until they *snap* into place.

8. Feed the ribbon arms (**1**) in beside the guides (**2**), position the take-up knob (**3**) over the pin, then press the cartridge in firmly at either end.

9. Pull the ribbon out a bit at the left end of the cartridge to give some slack, then slide the ribbon underneath the printhead. Be careful that the ribbon is not twisted, folded or pulled off the ribbon arms during this process.
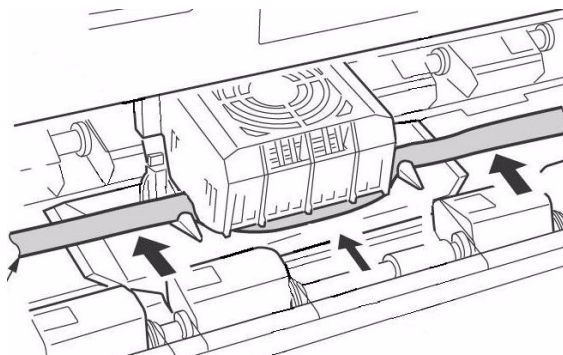
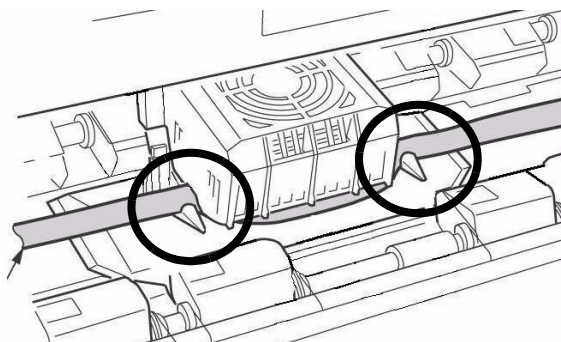**10.** Make sure the ribbon is threaded through the indentation in each ribbon guide arm.

Caution!
Always turn the ribbon knob *clockwise* (to the right): turning it counterclockwise (to the left) can cause the ribbon to jam.

11. Turn the ribbon knob *clockwise* (in the direction of the molded arrow) to take up any excess slack in the ribbon.
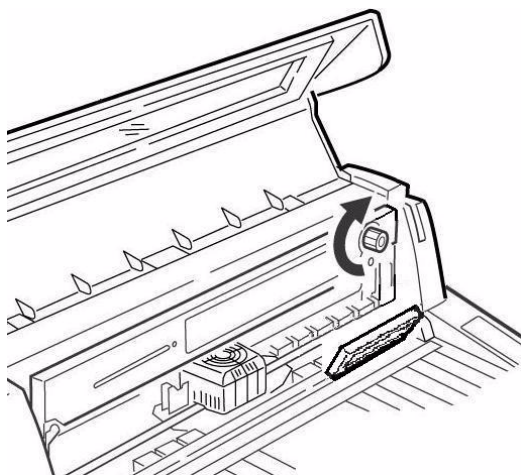
12. Push the display panel back to its original position.
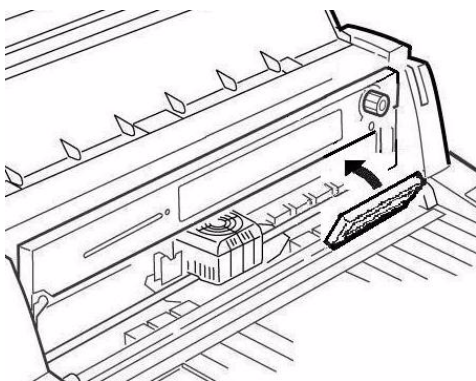
13. Close the cover.
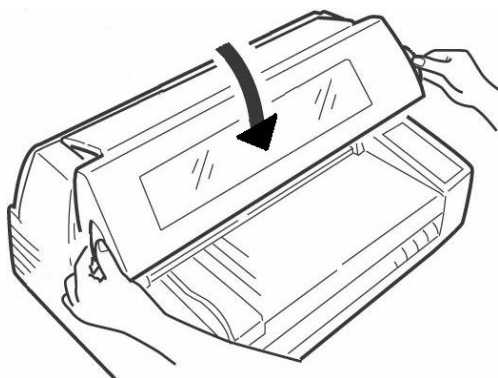
Caution!
If the cover does not close easily, *do not force it*. The right end of the ribbon cartridge is not properly seated in the printer. Open the cover and reseat it. Then reclose the cover.

14. Turn the printer back on.

Clean the Housing

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

Note *If you are consistently using recycled paper, you need to clean the housing more often because recycled paper generates more paper dust.*

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

1. Turn the printer off and remove any paper that is loaded.
2. Open the platform and use a clean, dry cloth to clean away any bits of paper and paper dust.
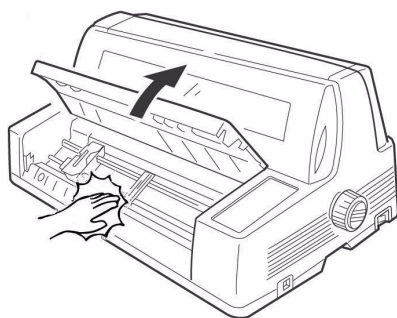
3. Close the platform.
4. Open the cover.
5. Tilt the display panel forward and remove the ribbon cartridge.
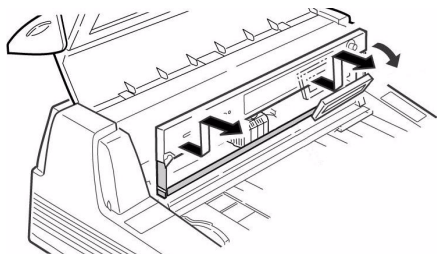
6. Use a clean, dry cloth to clean any bits of paper or paper dust from around the platen.
7. Replace the ribbon cartridge.   See page 88. Tilt the display panel back into place.
8. Close the cover.

Specifications

Specifications subject to change without notice.

Print Method
- Impact dot matrix

Printhead
- Dual 9 pin, 0.3 mm diameter
- Thermal protection

Emulations
- IBM Proprinter
- Epson FX
- ML

Interfaces (Standard)
- Centronics Parallel, IEEE-1284 compliant
- USB 1.1
- Microline 8810n only: Ethernet 10/100 Base-T

Receive Buffer Size
- Selectable 0 or 128 Kbytes

Print Speed
Print speed varies according to the paper thickness/number of copies, font size, and print quality.

Print Mode	Speed
HSD	720 cps
NLQ	150 cps
Utility	600 cps
SSD	810 cps, *12 cpi only*

Characters per Line (CPL)

Setting	Pitch
10 cpi	136 cpl
12 cpi	163 cpl
15 cpi	204 cpl

Graphics Resolution

- 240 dpi horizontal x 144 dpi vertical

Resident Fonts

- Utility
- NLQ Courier
- NLQ Gothic

Reliability

Parameter	Reliability
Mean Time Between Failures (MTBF)	10.000 hours at 25% duty cycle and 35% page density
Mean Time to Repair (MTTR)	30 minutes
Printhead life	400 million characters
Ribbon Life (on average, utility)	10 million characters

Print Media Specifications

Single Sheets

Note   *Recycled paper can be printed, but please note the following:*

- *Recycled paper tends to leave behind more paper dust, requiring more frequent cleaning of the printer.*
- *Recycled paper is easily affected by humidity and should not be used in humid environments.*

Width

Minimum

- 2.2 inches (55 mm)
- 3.94 inches (100 mm) Auto Align Mode

Maximum

- 16.5 inches (420 mm)
- 14.3 inches (364 mm) Auto Align Mode

Length

Minimum

- 2.8 inches (70 mm)

Maximum

- 16.5 inches (420 mm)

Weight

- 14 to 56 lb. US Bond (52 to 210 g/m^2)

Print Media Specifications (cont.)

Individual Multi-Part Forms

Note   *Recycled paper can be printed, but please note the following:*

- *Recycled paper tends to leave behind more paper dust, requiring more frequent cleaning of the printer.*
- *Recycled paper is easily affected by humidity and should not be used in humid environments.*

Width

Minimum

- 2.17 inches (55 mm)
- 3.94 inches (100 mm) Auto Align Mode

Maximum

- 16.54 inches (420 mm)
- 14.33 inches (364 mm) Auto Align Mode

Length

Minimum

- 2.8 inches (70 mm)

Maximum

- 16.54 inches (420 mm)

Thickness

Normal Mode

- Up to 6 parts (original + 5)
- Up to 0.014-inch (0.36 mm) thick

High Impact Mode

- Up to 8 parts (original + 7)
- Up to 0.019-inch (0.48 mm) thick

Print Media Specifications (cont.)

Continuous Single-Part Forms

Note   *Recycled paper can be printed, but please note the following:*

- *Recycled paper tends to leave behind more paper dust, requiring more frequent cleaning of the printer.*
- *Recycled paper is easily affected by humidity and should not be used in humid environments.*

Width
- Minimum: 4 inches (101.6 mm)
- Maximum: 16 inches (406.4 mm)

Weight
- 14 to 34 lb. US Bond (52 to 128 g/m^2)

Continuous Multi-Part Forms

Width
- Minimum: 4 inches (102 mm)
- Maximum: 16 inches (406 mm)

Thickness
- Up to 8 parts (original + 7)
- Up to 0.019-inch (0.48 mm) thick

Envelopes

Note   *Recycled paper can be printed, but please note the following:*

- *Recycled paper tends to leave behind more paper dust, requiring more frequent cleaning of the printer.*
- *Recycled paper is easily affected by humidity and should not be used in humid environments.*

Note   *Printing envelopes requires use of the sheet guide (**1**) instead of the Auto Align mode. See "Disabling Auto Align" on page 66.*
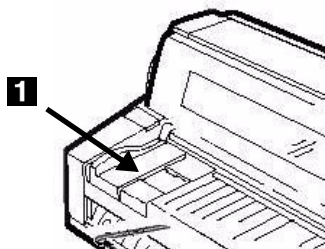
C6: 6-3/8 x 4-1/2 inches (162 x 114 mm)

DL: 4 -5/16 x 8-11/16 inches (220 x 110 mm)

COM-10: 9-1/2 x 4 -1/8 inches (241 x 104.8 mm)

Printer Dimensions

Width: 24.8 inches (630 mm)

Depth: 24 inches (609 mm)

Height: 10.4 inches (263 mm)

Printer Weight

Printer main body only, 44.1 lb. (20 kg)

Environmental Requirements

Parameter	Range
Temperature	
Operating	41 to 104°F
	5 to 40°C
Storage	-4 to 140°F
	-20 to +60°C
Humidity	
Operating	30 to 85% RH
Storage	5 to 95% RH

Electrical Requirements

Voltage

- 120 volts ac (±10%), 50/60 Hz (±2%)

Power Consumption

- Operating: 120W or less
- Standby: 25W or less
- Power Save Mode: 15W

Utilities

Overview

The following utilities are available for your printer (network model only).

Direct Network Printing Utility (OKI LPR)

Dot Impact Printer Utilities (OKI DIPUS)

- Status Monitor
- Menu Setup Utility
- Top of Form Setup Utility
- Switch Setup Utility

Network Setup Utility

PrintSuperVision

Accessing

You may access the utilities two ways.

- via the CD shipped with the printer
- via a download from the internet, accessed through the Menu Installer on the CD

Here is a list of the utilities provided on the CD shipped with your printer.

Direct Network Printing Utility (OKI LPR)

Dot Impact Printer Utilities (OKI DIPUS)

- Status Monitor
- Menu Setup Utility
- Top of Form Setup Utility
- Switch Setup Utility

Network Setup Utility

Here is a list of the utilities provided via download.

PrintSuperVision

Descriptions of Utilities

Direct Network Printing Utility (LPR)

The Direct Network Printing Utility (LPR) allows you to print directly to a printer on the network without a print server. It creates a Printer Port, and installs a pop-up status box so you can monitor printer status.

The Direct Network Printing Utility (LPR) operates in Windows Me/98, Windows NT 4.0, Windows 2000, and Windows XP operating systems.

See "Direct Network Printing Utility (LPR)" on page 102.

OKI DIPUS (Dot Impact Printer Utilities)

This is a set of utilities that allow you to control the printer from your computer. These utilities support 32-bit or 64-bit Windows operating systems, including Vista, using parallel, USB, or network connections. See the help for details on using these utilities.

The utilities are:

Status Monitor

Menu Setup Utility

Top of Form Setup Utility

Switch Setup Utility

See "OKI DIPUS (Dot Impact Printer Utilities)" on page 104.

Network Setup Utility

This utility provides an easy way to configure your printer on a network.

See the online Network User's Guide for details on how to use this utility.

See "Network Setup Utility" on page 105.

PrintSuperVision

PrintSuperVision is a web-based application for managing printing devices connected to a network. PrintSuperVision provides access to networked printer data for monitoring, reporting and managing networked printers. It provides a full range of management functions for OKI printers, and for other brands of printers as well.

Installing the Utilities

Windows

Utilities on the CD

Load the utilities from the Menu Installer located on the CD supplied with your printer.

Download Utilities

Download the utilities from the internet, accessed through the Menu Installer on the CD.

Direct Network Printing Utility (LPR)

General Information

The Direct Network Printing Utility (LPR) allows you to print directly to a printer on the network without a print server. It creates a Printer Port, and installs a pop-up status box so you can monitor printer status.

The Direct Network Printing Utility (LPR) operates in Windows Me/ 98, Windows NT 4.0, Windows 2000, and Windows XP operating systems.

Load this program from the Menu Installer located the CD.

How to Install

The Direct Network Printing Utility (LPR) supports TCP/IP. Your network administrator will first need to set up an IP address and TCP/IP properties for your printer.

Your network administrator may have already installed this software. If you need to install it manually, load it from the Menu Installer on the CD:

1. Place the CD supplied with your printer in your CD-ROM drive. Wait for the Menu Installer to open.

If the CD does not AutoPlay, click Start → Run → Browse. Browse to your CD-ROM. Double-click Autorun.exe. Click OK.

2. Click Next to accept the terms in the license agreement.

3. Click Optional Utilities → Install Direct Network Printing Utility. Follow the on-screen instructions.

Direct Network Printing Utility (LPR) Status Box
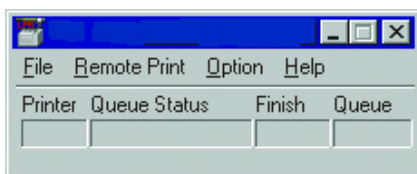
The Direct Network Printing Utility (LPR) Status Box displays the following information:

- Printers

    Names of added printers (You can add up to 30 printers)

- Status

    Direct Network Printing Utility (LPR) status (empty, connecting, sending, paused, checking status, not connected)

- Finish

    Number of completed jobs.

- Queue

    Number of jobs waiting to be printed.

Additional Information

For help, click on **HELP** in the program.

OKI DIPUS (Dot Impact Printer Utilities)

General Information

This is a set of utilities that allow you to control the printer from your computer. These utilities support 32-bit or 64-bit Windows operating systems, including Vista, using parallel, USB, or network connections.

The utilities are:

> Status Monitor
>
> Menu Setup Utility
>
> Top of Form Setup Utility
>
> Switch Setup Utility

How to Install

Load this program from the Menu Installer located on the CD.

Additional Information

See the Help for details on using these utilities.

Status Monitor

The Status Monitor is a small background program that keeps track of the state of your printer. It tells you when the printer is functioning normally, when there is a problem, such as a paper jam or communication error, and when consumables are running low.

Normally, the Status Monitor appears on the task bar as an icon, which changes color to show the printer's status. You can set it to pop up in a window when an alert or error condition occurs.

Menu Setup Utility

This utility lets you change your printer's menu settings from your computer. You can also save frequently-used settings to a file on your computer for quick resetting.

Top of Form Setup Utility

This utility lets you set the top of form from your computer for each available paper path. You can also save frequently-used settings to a file on your computer for quick resetting.

Switch Setup Utility

This utility lets you disable buttons on the printer from your computer. It is mainly for use by administrators to keep multiple users from accidentally changing settings on the printer.

Network Setup Utility

General Information

This utility provides an easy way to configure your printer on a network.

How to Install

Load this program from the Menu Installer located on the CD.

Additional Information

See the online Network User's Guide for details on how to use this utility. The Network User's Guide is found on the CD shipped with your printer.