

Installing and Using the **LQPO2 Printer**



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First Printing, January 1982

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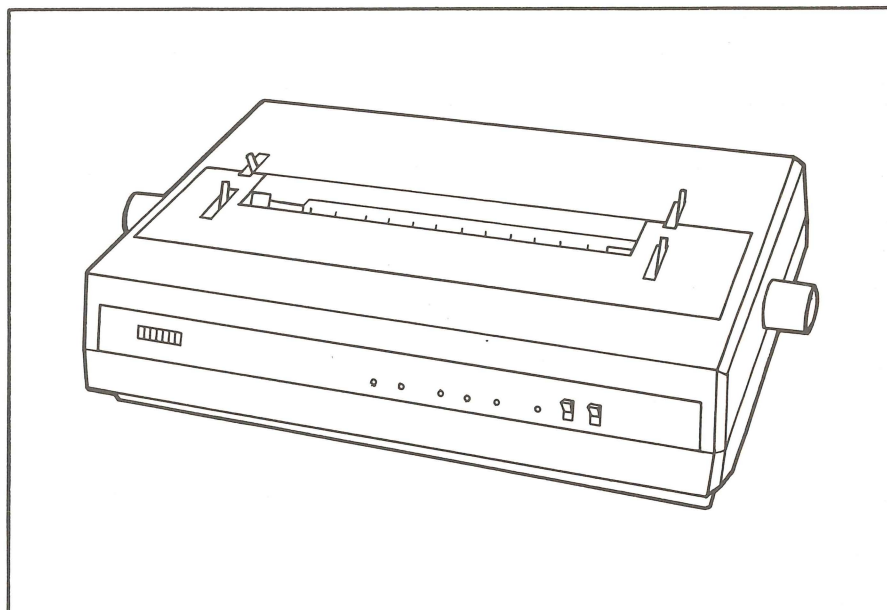
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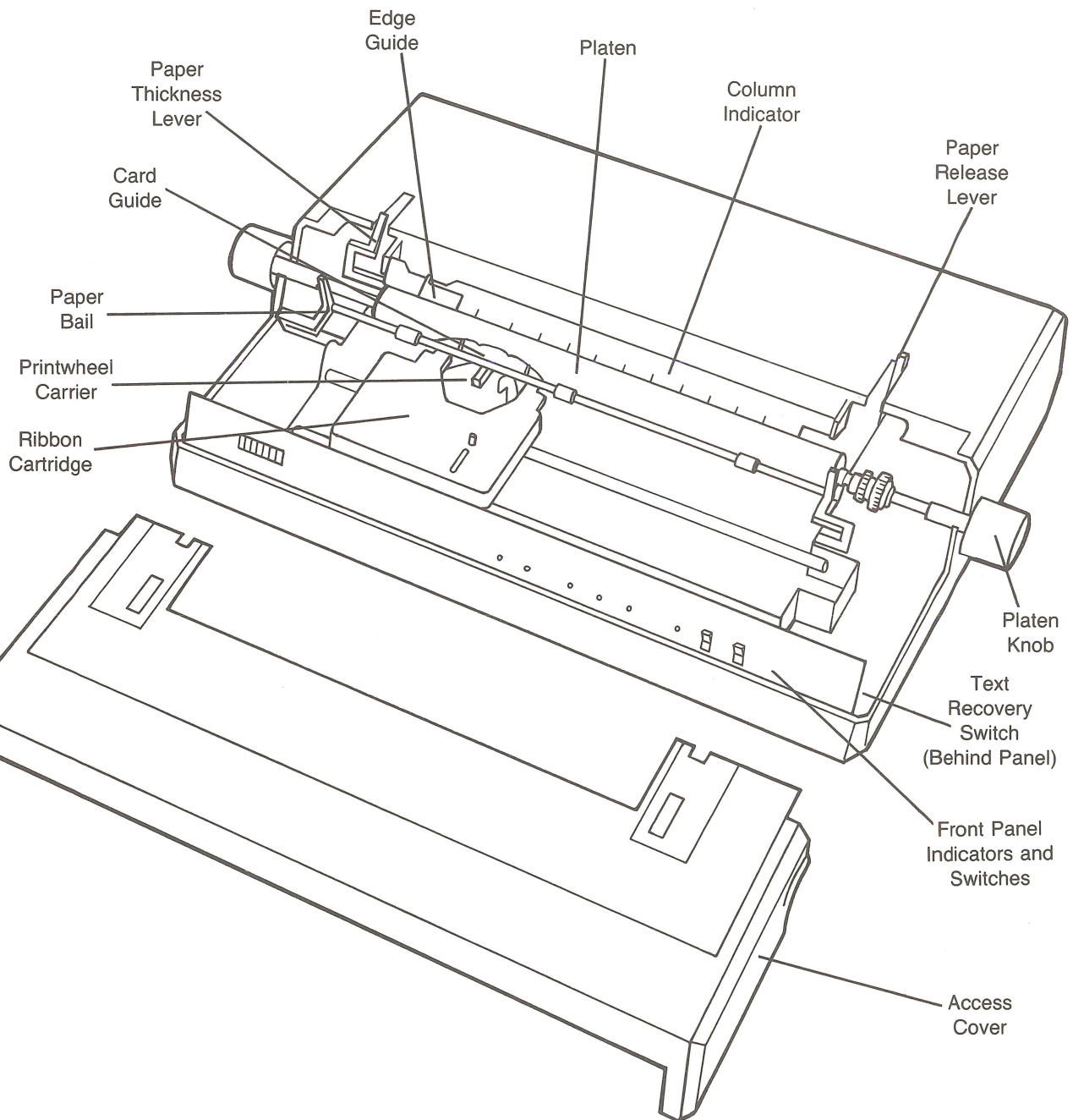
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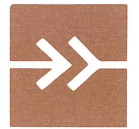


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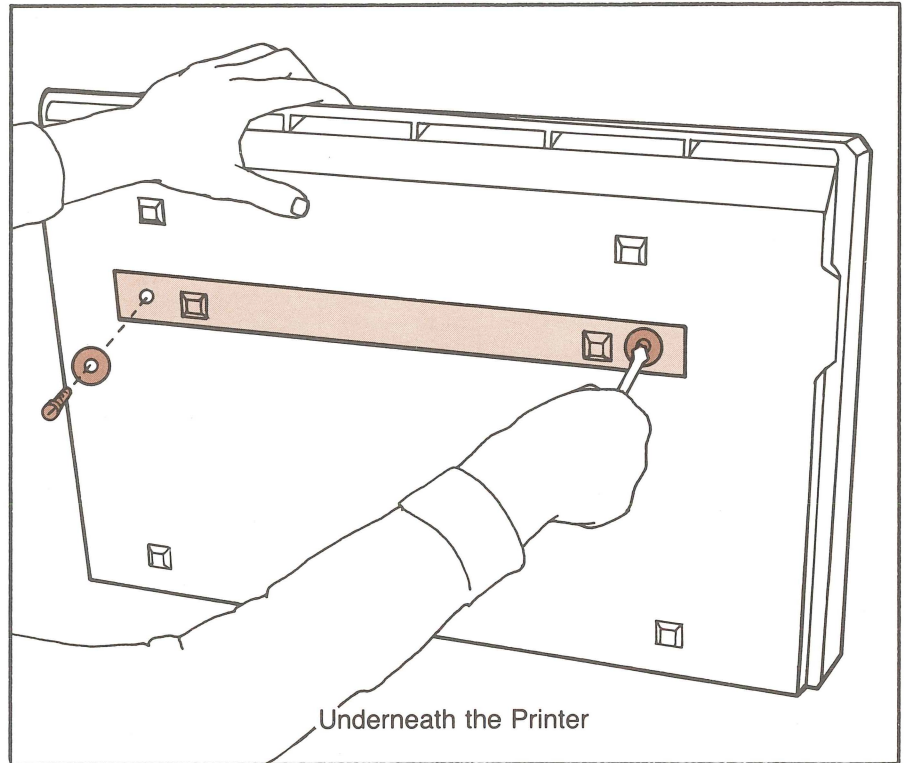


Installing Printer

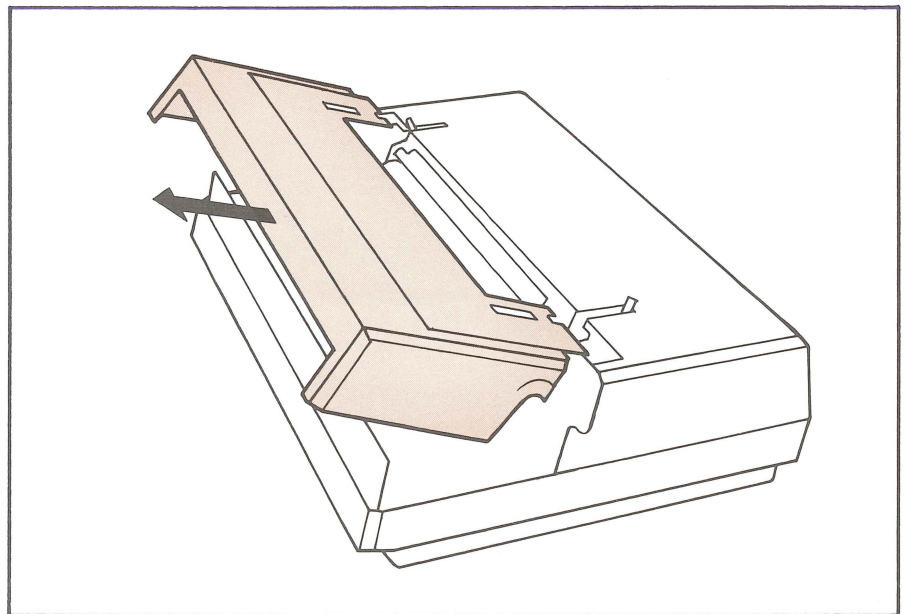


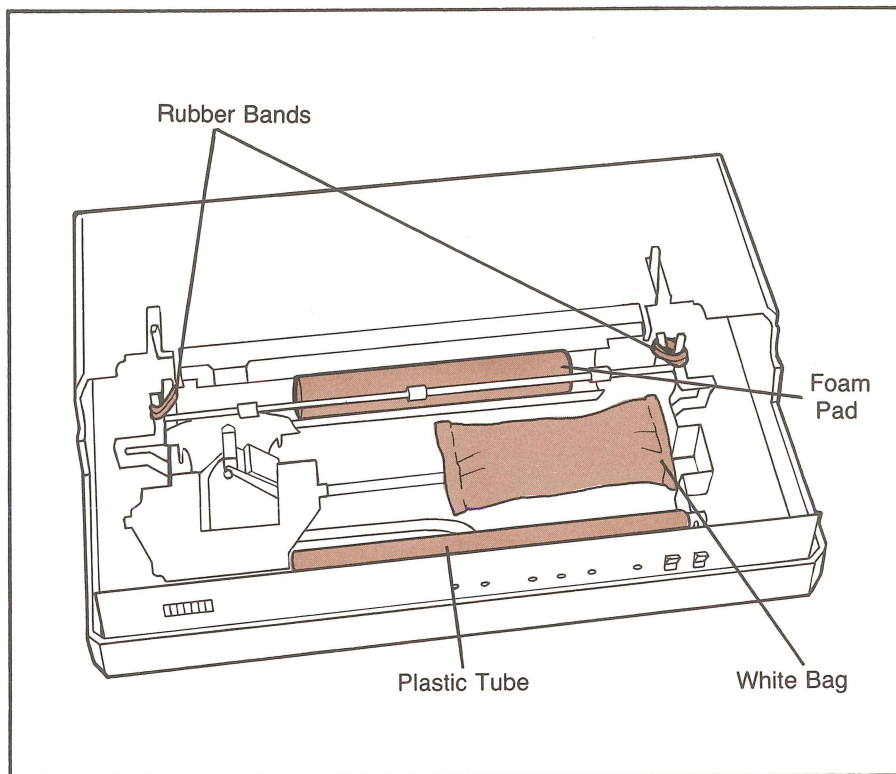
Opening Printer

- 1** Use screwdriver to remove two screws and two washers from metal shipping strap on bottom of printer.
- 2** Remove shipping strap.

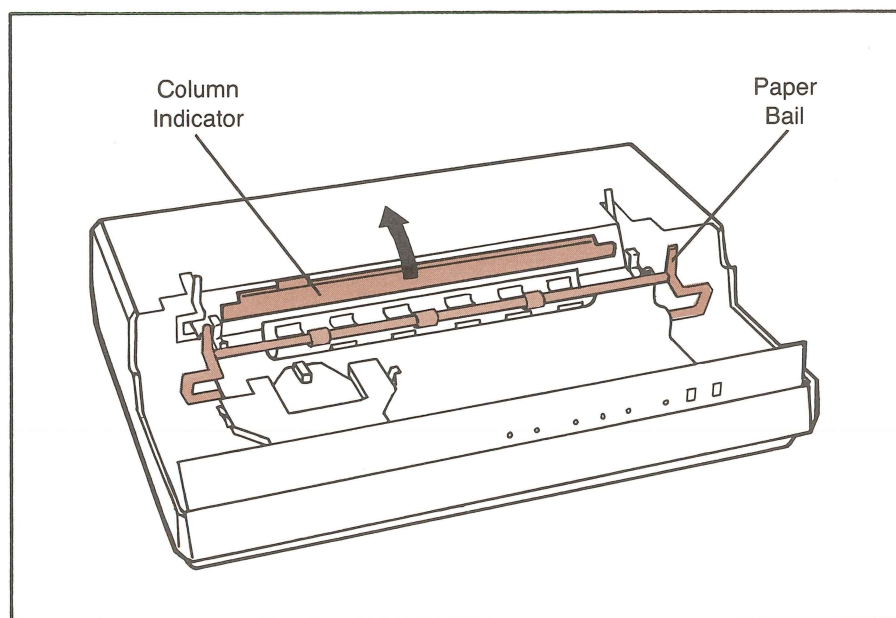


- 3** Remove access cover.



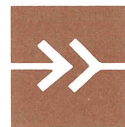


- 4** Remove from printer:
- Two rubber bands holding paper bail
 - Foam pad under paper bail
 - Plastic tube holding carriage to one side
 - White bag (drying agent)

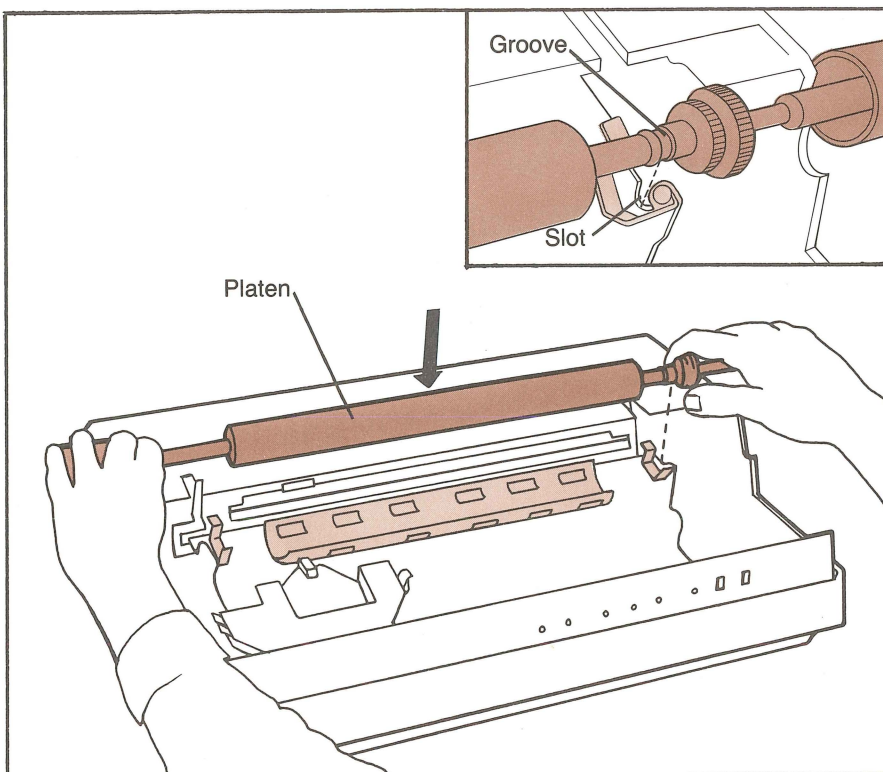


Installing Platen

- 1** Raise column indicator.
- 2** Pull paper bail forward (toward front of printer).



- 3** Align platen mounting groove with slot in side frame.



- 4** Press platen release levers all the way down, and push platen into position.

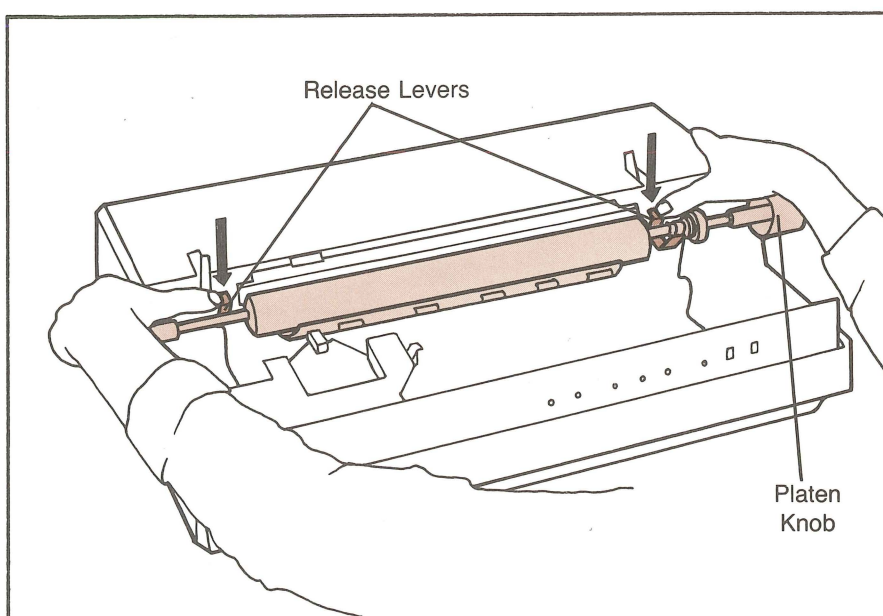
- 5** Check installation:

Make sure release levers returned to the up position.

Gently pull up on platen to make sure it is secure.

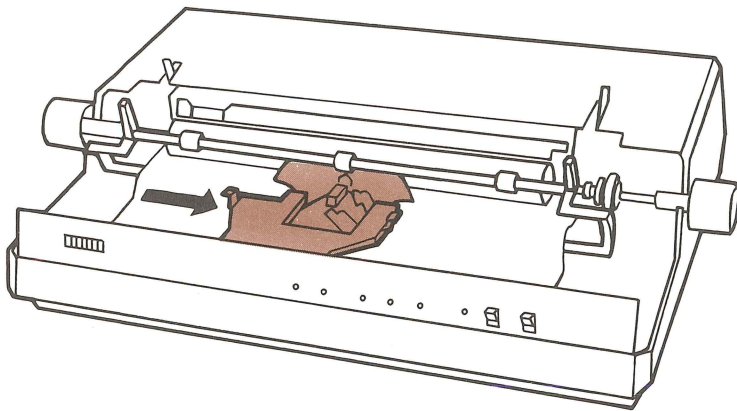
Turn platen knob back and forth to check for smooth rotation.

- 6** Lower column indicator.



Installing Printwheel

- 1 Slide carriage to center of platen.

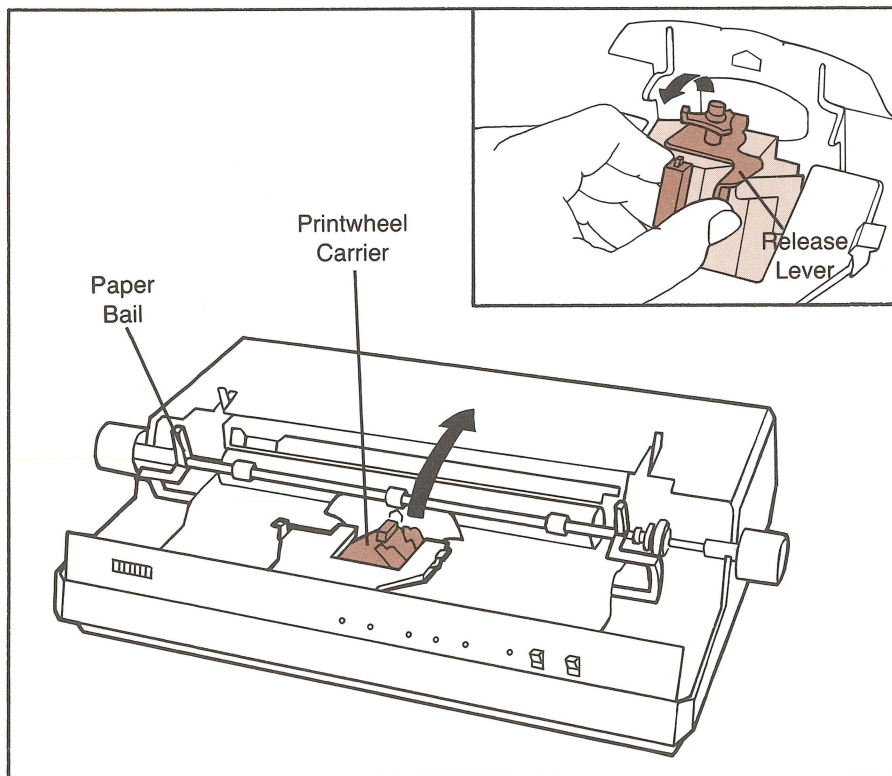


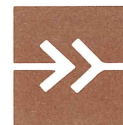
- 2 Push paper bail against platen (toward rear of printer).

- 3 Tilt printwheel carrier away from platen:

Squeeze release lever and print hammer together.

Gently pull printwheel carrier forward as far as it will go.



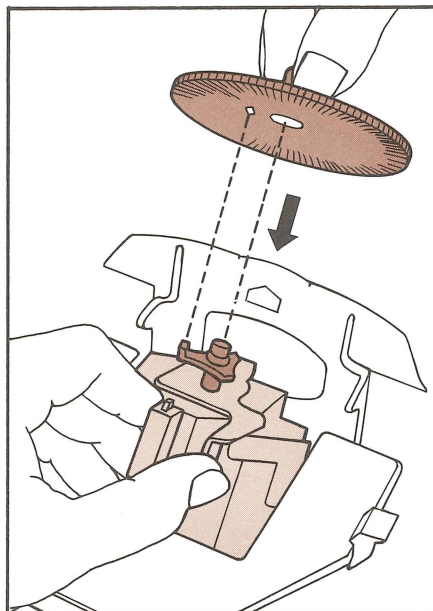


4 Install printwheel:

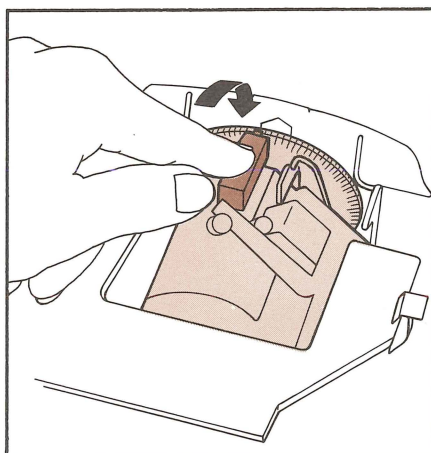
Align center hole with shaft, and align square hole with tab.

Press printwheel hub down firmly, making sure it is all the way down.

Do not bend the character arms. Always handle the printwheel by its hub.



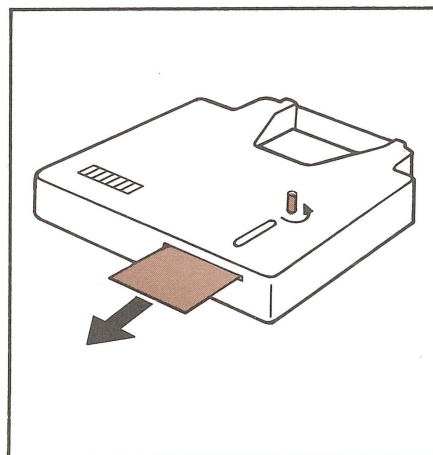
5 Return printwheel carrier to its former position and snap it into place.

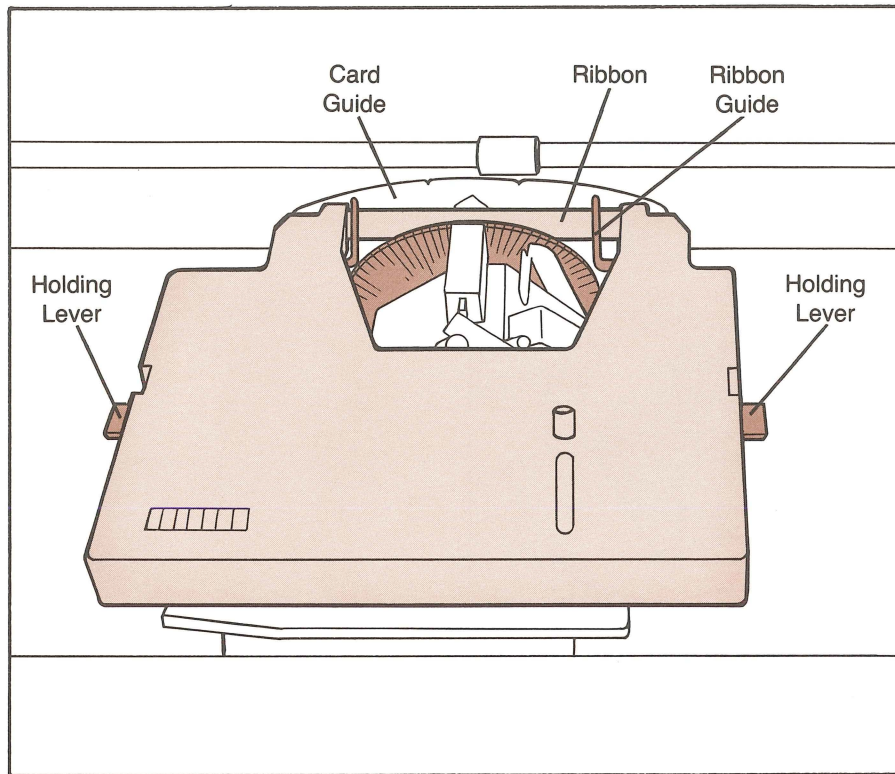


Installing Ribbon Cartridge

1 Remove white shipping card.

2 Take up slack in ribbon by turning rewind knob in direction indicated on cartridge.



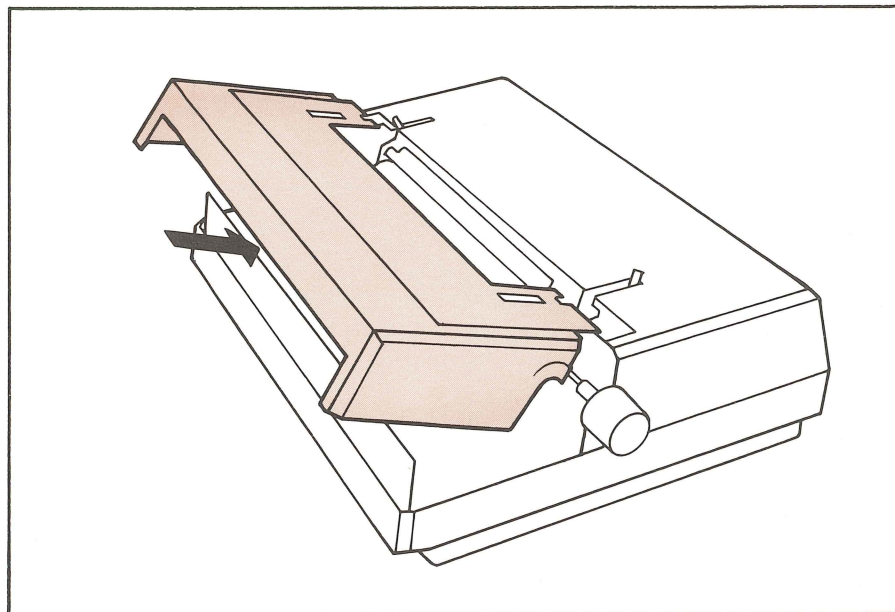


3 Install cartridge:

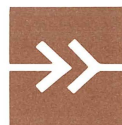
Place ribbon between printwheel and card guide, in front of two ribbon guides.

Position cartridge between two red holding levers, and gently push it down into place.

Exposed ribbon should be flat against the ribbon guides and not twisted.



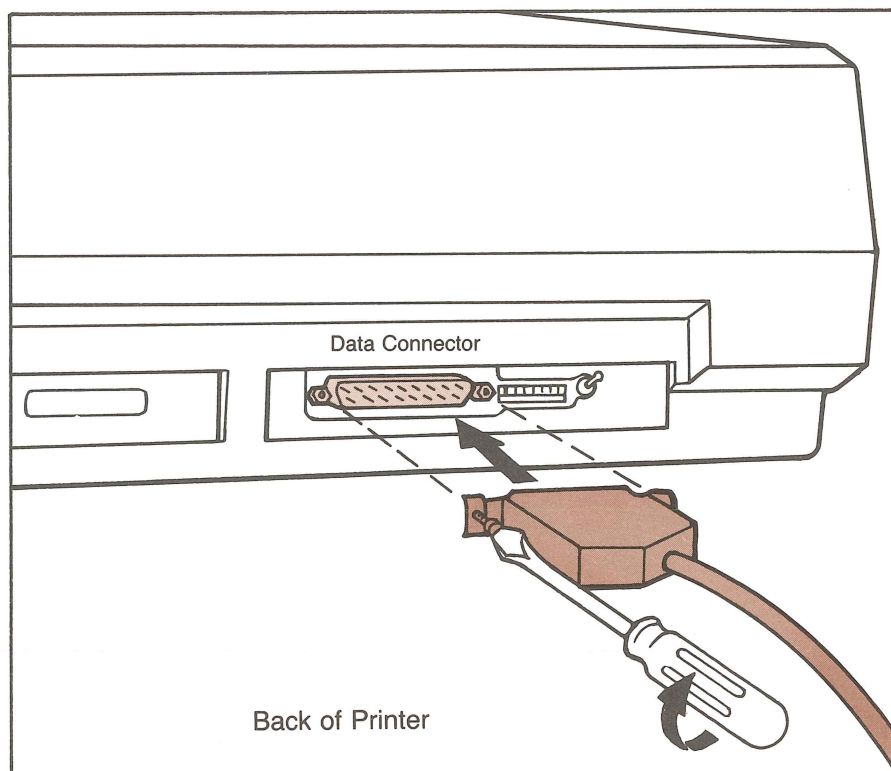
4 Reinstall access cover.



Installing System Cable

If available, use your word processor or computer system cable instead of the cable provided with the printer.

- 1** Plug either end of cable into **DATA CONNECTOR** on back of printer, and use screwdriver to tighten two retaining screws by turning them clockwise.
- 2** Install other end of cable as described in your system installation manual.



Checking Voltage Select Switch

The voltage select switch was preset for a 120-volt North American installation.

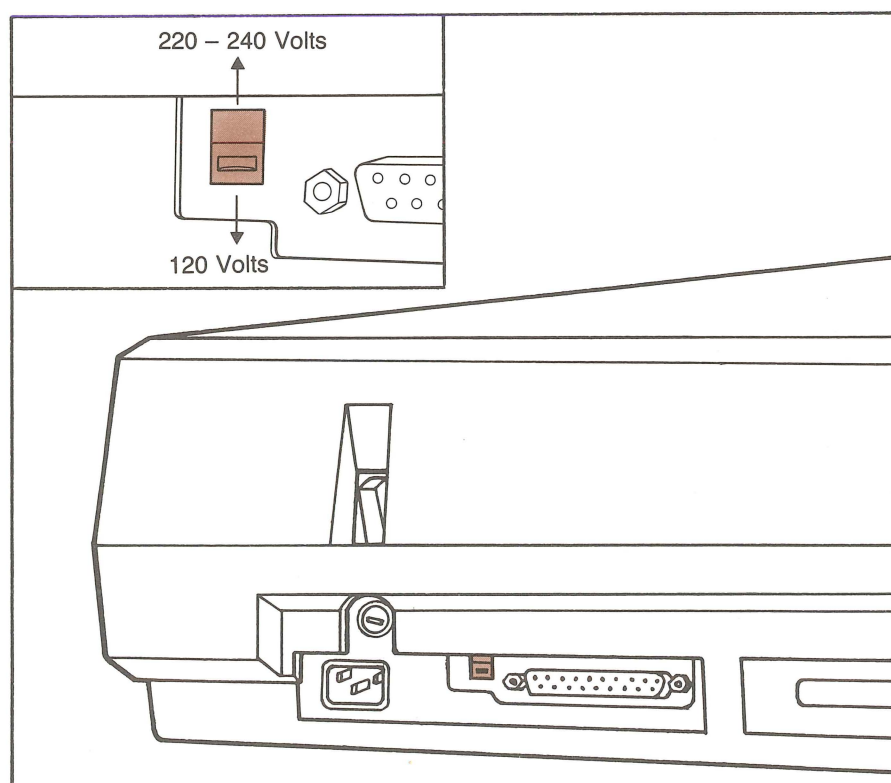
120-Volt North American Installation

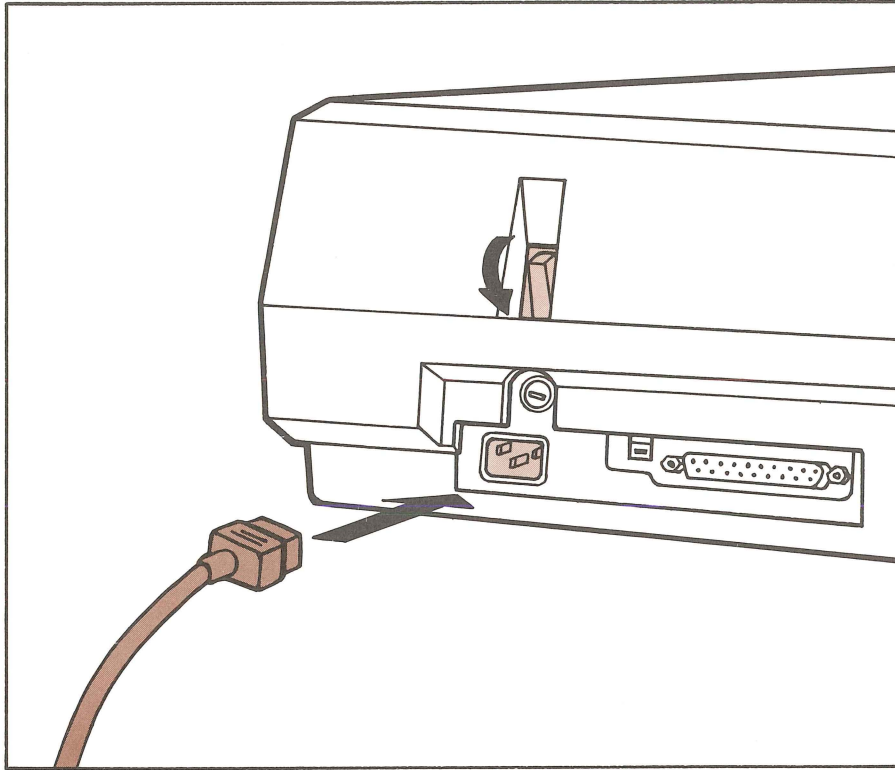
Make sure **VOLTAGE SELECT** switch is all the way down.

Do not operate the printer on 220 to 240 volts. Too much voltage will blow the fuse or damage the electronic circuits.

220- to 240-Volt European Installation

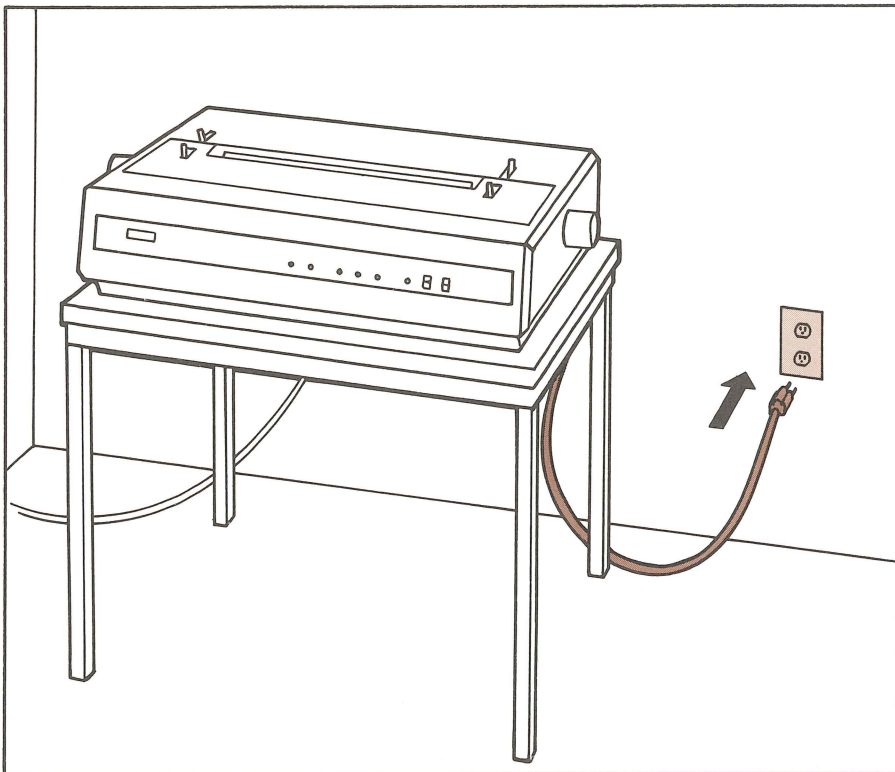
Slide **VOLTAGE SELECT** switch all the way up.



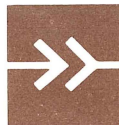


Installing Power Cable

- 1** Make sure power switch is OFF.
- 2** Remove yellow warning label and plug printer end of cable into power connector.



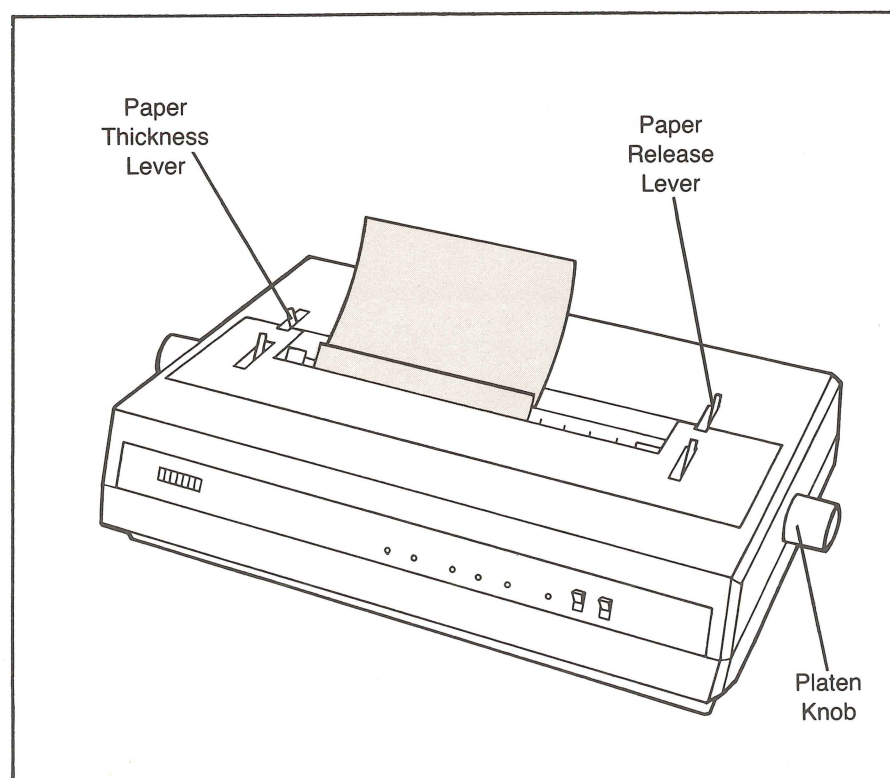
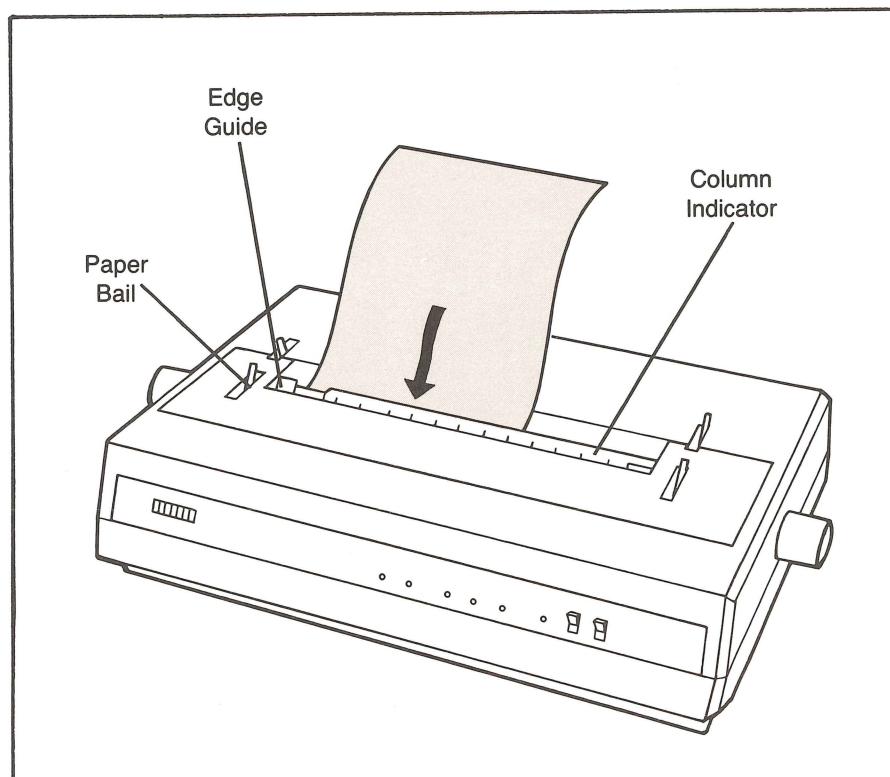
- 3** Plug outlet end of cable into electrical outlet.



Inserting Paper Manually

If you are not using a forms tractor or sheet feeder:

- 1** Set movable edge guide at desired location on column indicator.
- 2** Pull paper bail away from platen.
- 3** Insert top of paper behind platen:
Place side to be printed toward back of printer.
Align left edge with paper edge guide.
Never insert stapled paper; it damages the platen.
- 4** Turn platen knob to advance top of paper beyond paper bail.
- 5** Push paper bail against platen.
- 6** Pull paper release lever all the way forward (toward front of printer).
- 7** Check horizontal and vertical alignment of paper and adjust if necessary.
- 8** Push paper release lever all the way backward (toward rear of printer).
- 9** Set paper thickness lever for thickness of paper (forward for one sheet, progressively backward for two or more).



Installation Checkoff

You should have installed the:

- ☐ Printwheel
- ☐ Ribbon Cartridge
- ☐ System Cable
- ☐ Power Cable
- ☐ Paper (if not using forms tractor
or sheet feeder)

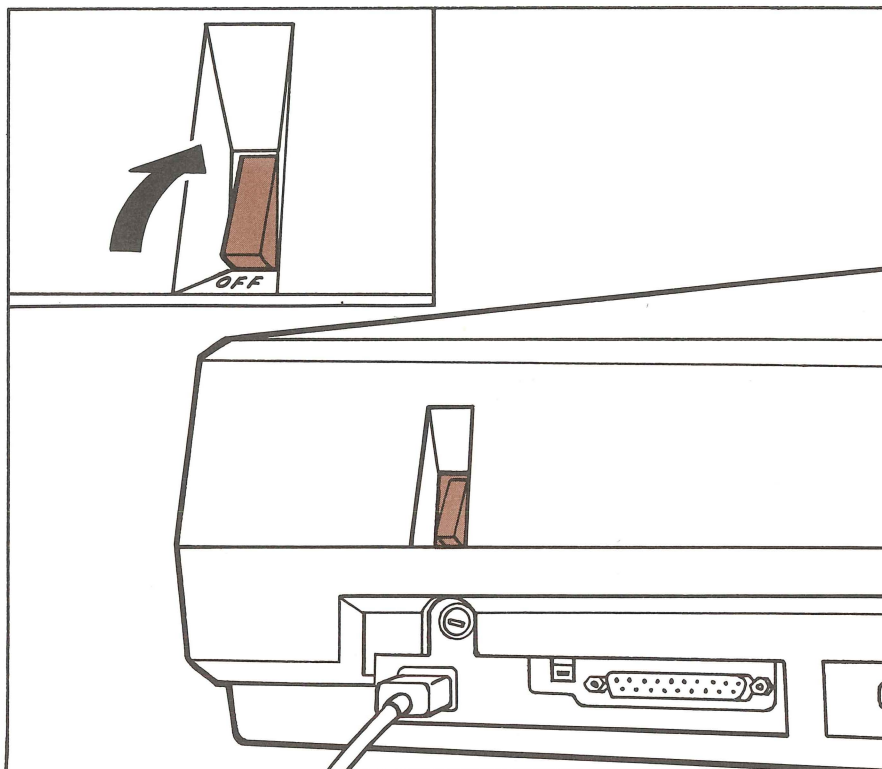
Operating Printer



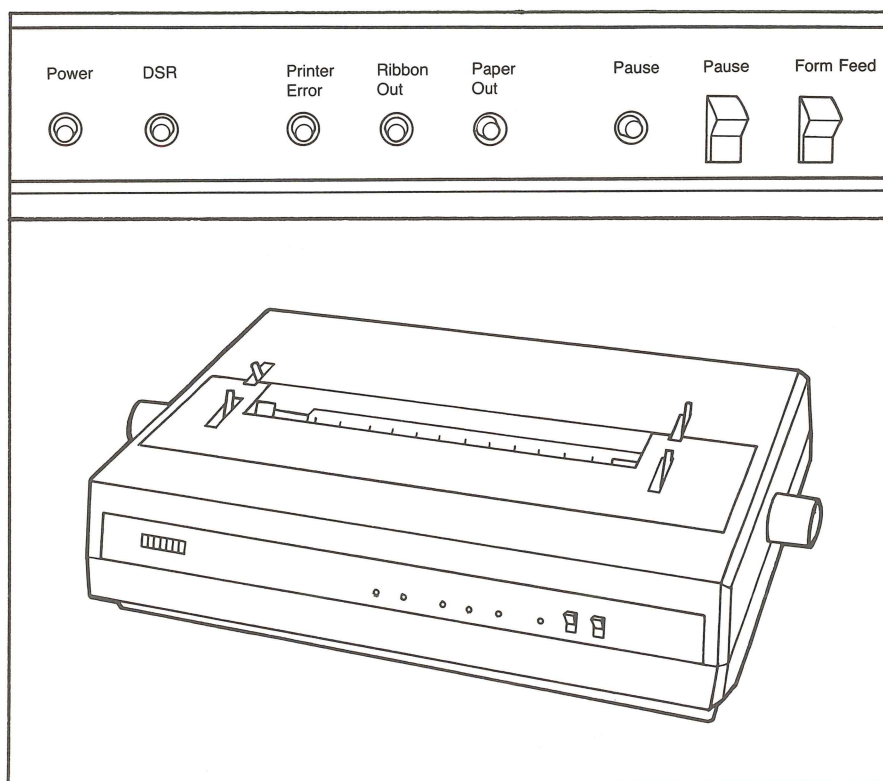
Turning Printer On

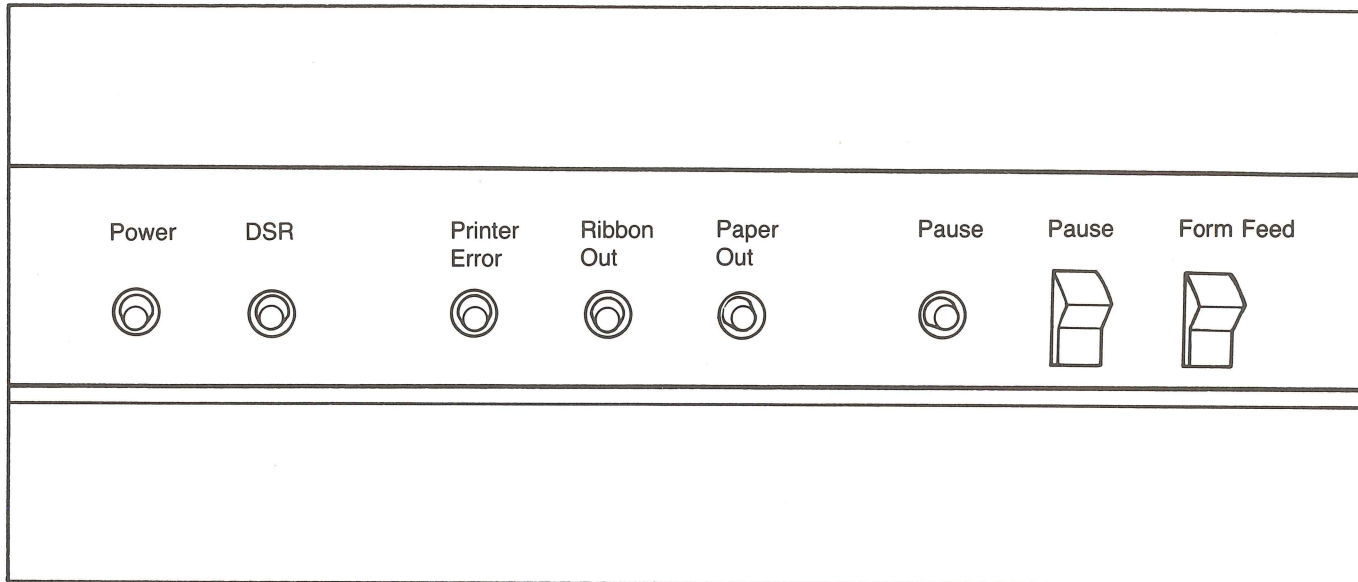
- 1 Press top of power switch.
Front-panel lights should blink twice, and carriage should move to far left.

Keep your fingers and personal accessories outside the printer.



- 2 Make sure that:
Green POWER light is on.
All other lights are off.





Front-panel Indicators and Switches

Make sure you know the operation of the following indicators and switches.

Power Indicator

The green POWER light stays on as long as electrical power is applied to the printer and the power switch is on.

DSR (Data Set Ready) Indicator

The green DSR light stays on when the printer is in modem control and the DSR line is activated. This light stays off when the printer is not in modem control.

A modem is a separate system unit that sends and receives computer data through telephone wires. If you are not using a modem, ignore the operation of this indicator.

Printer Error Indicator

The red PRINTER ERROR light starts blinking, the buzzer sounds, and printing stops when a mechanical or electronic problem is detected by the printer.

Ribbon Out Indicator

The red RIBBON OUT light starts blinking, the buzzer sounds, and printing stops when the end of film ribbon is detected.

The printer gives no such indication for cloth ribbons and for the failure (jamming, breaking) of cloth and film ribbons.

Paper Out Indicator

The red PAPER OUT light starts blinking, the buzzer sounds, and printing stops when the printer is out of paper or the paper is jammed.

Pause Indicator

The yellow PAUSE light starts blinking and printing stops when the pause switch is on.

Pause Switch

When the top of the PAUSE switch is pressed, printing stops and the pause light starts blinking. When the bottom of this switch is pressed, printing resumes with no loss of characters and the pause light stops blinking.

When the printer is on, press the top of this switch before opening the access cover, and press the bottom of this switch after closing the cover.

Form Feed Switch

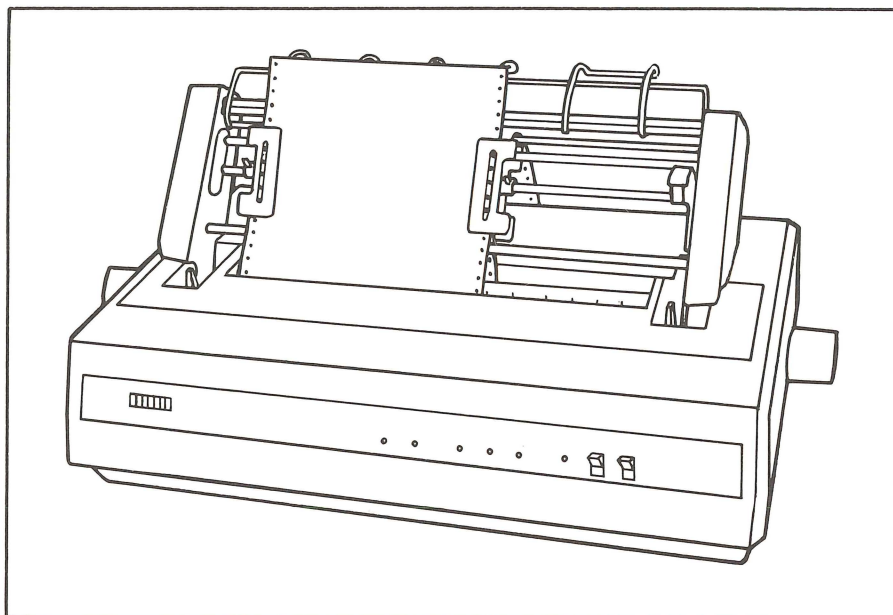
When not printing, and the top of the FORM FEED switch is pressed, the paper moves forward a predetermined number of lines.



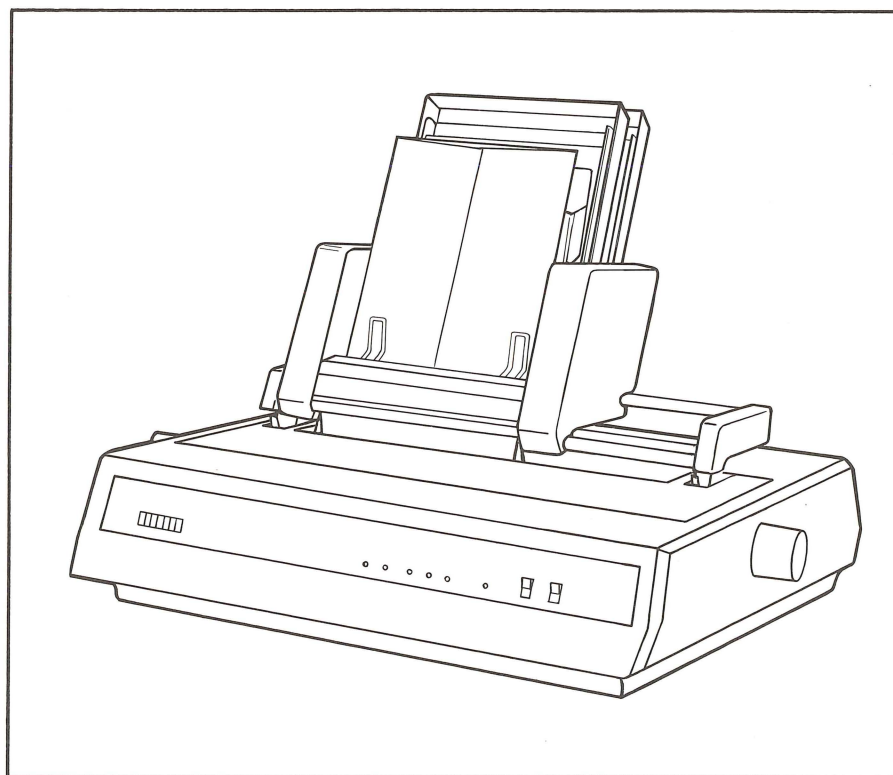
Installing Tractor or Feeder Option

If needed with your word processor or computer system:

Install forms tractor and insert paper as described in the manual shipped with the LQPX2-AA forms tractor.



Install sheet feeder and insert paper as described in the manual shipped with the LQPX2-AC sheet feeder.

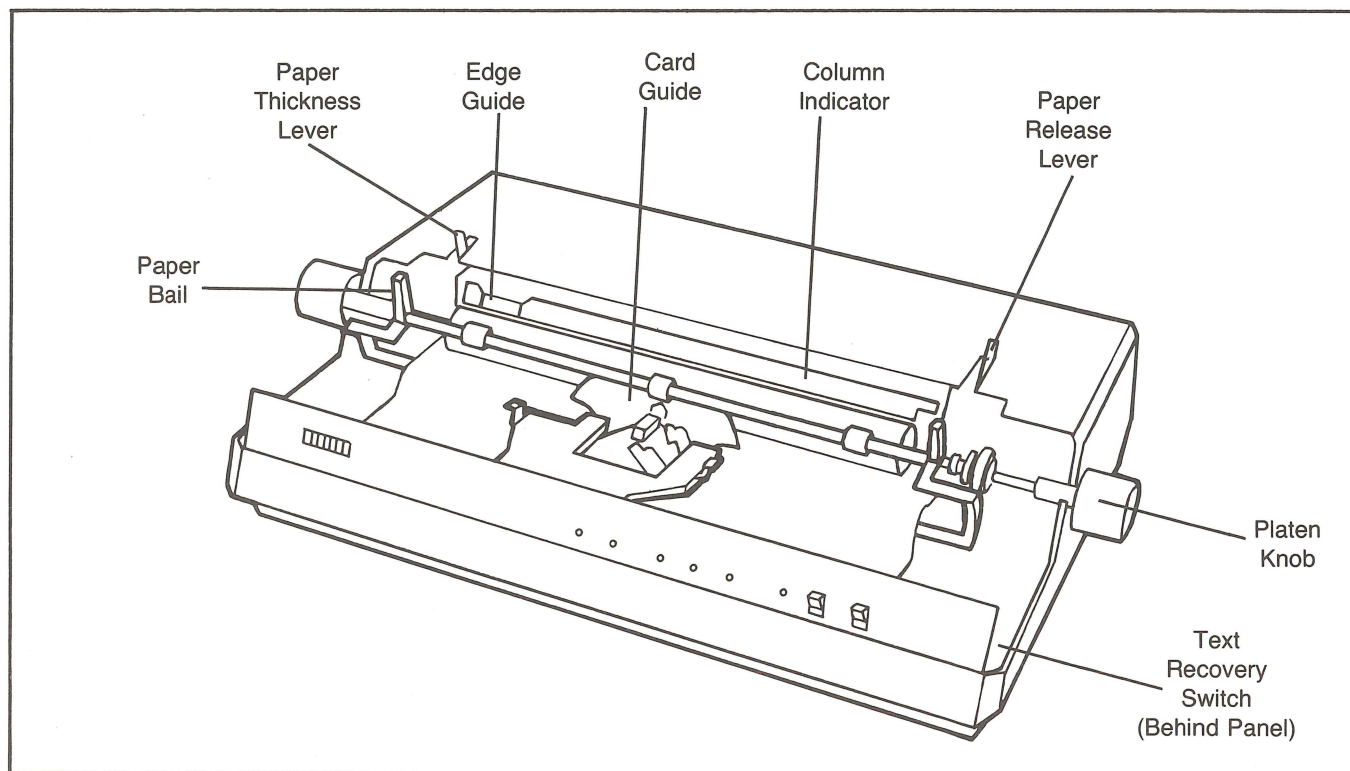
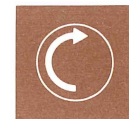


What Next?

Now you know enough about your printer, and it is ready for use with your system.

Refer to your system manual for additional instructions.

Printer Controls



Paper Bail

The paper bail holds the paper against the platen. Two handles permit movement of the entire bail from either side of the printer.

Paper Thickness Lever

The paper thickness lever adjusts spacing between the printwheel and platen:

For average thicknesses, place this lever in the forward position.

For thicker sheets, envelopes and multipart forms, move this lever progressively toward the back of the printer.

Edge Guide

The movable edge guide allows paper to be inserted in a predetermined position.

Card Guide

The card guide establishes a printer reference line for the top edge of the paper and assists in locating the vertical printing position.

Column Indicator

The column indicator assists in positioning paper on the platen and locating the horizontal printing position.

Paper Release Lever

The paper release lever controls pressure applied to the paper by the cradle rollers underneath the platen.

Backward movement of this lever holds the paper tightly against the platen; forward movement releases the paper.

Platen Knobs

Turning the right platen knob clockwise (or turning the left knob counterclockwise) advances the paper through the printer.

Text Recovery Switch

When pushed down, the text recovery switch tells the computer that a printer problem has caused a loss of characters. Your system may not be designed to respond to this switch.



Maintaining Printer

Cleaning Printer

Since dust, paper fibers, and ink particles will collect on the printer, you should clean it as described in the following paragraphs.

When cleaning, do not drop or spray any cleaner directly into the printer.

Frame and Access Cover

Use a soft cloth soaked in isopropyl (rubbing) alcohol to remove fingerprints and other smudges from the frame and access cover.

Do not use alcohol on the platen or any other rubber parts.

Printwheel

Between cleanings, use a soft brush to remove any loose paper fibers.

Frequency

Once a month depending on use. If cloth ribbon is used, clean the printwheel every time you install a new ribbon cartridge.

Cleaner

Use isopropyl alcohol or a noncaustic liquid household cleaner that does not damage plastic materials.

Do not use petroleum base solvents, chlorinated hydrocarbons, or solutions that leave a powdery residue.

Procedure

- 1 Place printwheel in shallow container, and pour cleaner over printwheel until it is barely covered.
- 2 Let printwheel soak for a minute or two.
- 3 Use typeface cleaning brush or soft toothbrush to remove ink or dirt that did not dissolve.
- 4 Remove printwheel from cleaner and carefully pat it dry with a soft cloth.

Never leave a good printwheel in direct sunlight or expose it to extreme temperatures.

Platen, Cradle and Card Guide

Do not clean the platen while it is in the printer.

Frequency

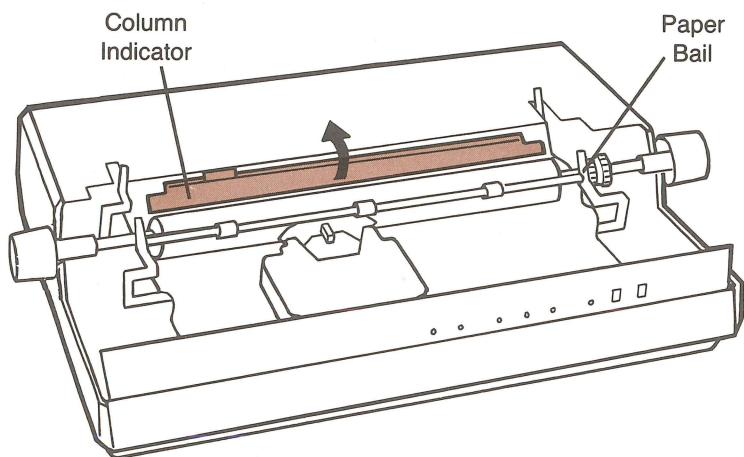
Every two or three months depending on use.

Cleaners

Use two different cleaners:

Platen and Cradle Rollers — A good commercial platen cleaner that does not damage rubber

Card Guide and Cradle — A noncaustic liquid household cleaner that does not damage plastic materials

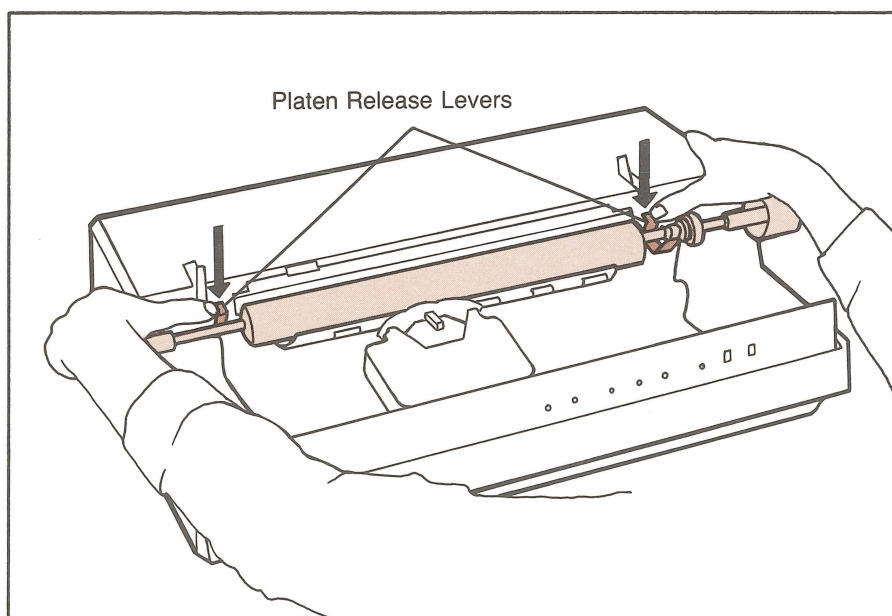


Platen, Cradle and Card Guide (Cont.)

Procedure

Make sure printer power is OFF.

- 1** Remove access cover, pull paper bail away from platen, and raise column indicator.



- 2** Press platen release levers all the way down, and lift platen up and away from printer.

Do not stand the platen upright on one of its knobs. And do not scratch the platen surface.

- 3** Moisten soft cloth with platen cleaner, and use this cloth to clean rubber surfaces of platen and cradle rollers.

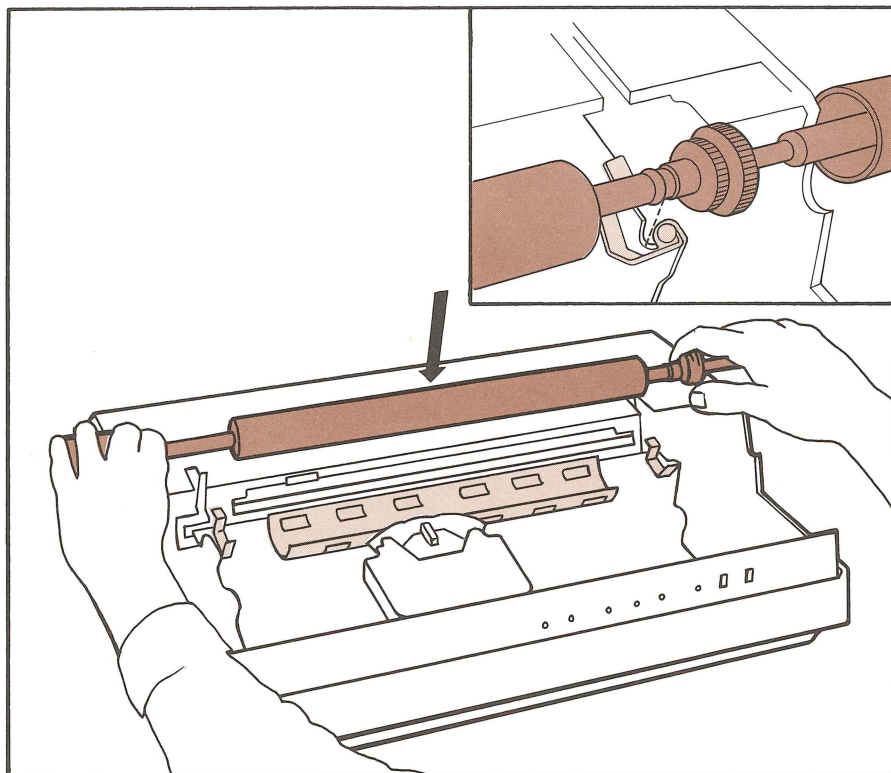
- 4** Discard cloth and set platen aside to dry.

- 5** Moisten another soft cloth or cotton swab with noncaustic household cleaner (not platen cleaner), and use this cloth or swab to clean card guide and cradle.

- 6** Air dry all cleaned surfaces.



7 Reinstall platen and access cover.



Dos and Don'ts

Office Area

To help you maintain the proper operating temperatures, keep your printer away from sources of extreme temperature such as direct sunlight, room heaters, and air conditioners.

And keep paper clips, coffee, matches, cold drinks, and other small objects and liquids away from the printer. If they fall inside they will cause damage.

Paper

Select the right paper for the job. Single-sheet bond paper usually gives the best print quality.

Always make sure that paper is positioned squarely and set tightly around the platen and that paper thickness lever is in the correct position.

And never pull paper against the card guide; press the form feed switch or turn a platen knob instead.

Printwheels and Ribbon Cartridges

Keep samples of your early print-outs, using cloth and film ribbons, so you will know when to replace the printwheel and ribbon cartridge.

To get more out of your printwheels and ribbon cartridges, use cloth ribbon for preliminary drafts and film ribbon for final copies.

Use only DIGITAL approved printwheels and ribbon cartridges in the printer. Other printwheels and cartridges may not give the same performance.

Discard spent cartridges containing film ribbon. Use cloth ribbons as long as they provide enough ink.

Store printwheels and ribbon cartridges in their containers, in the same environment used for the printer (refer to specifications at the back of this document).

And never scratch or crease ribbons.



Troubleshooting Printer

Operator Corrections

1 Try to correct the trouble as listed below.

2 If you cannot correct the trouble:

Turn off the printer.

Contact your dealer or the nearest DIGITAL service technician.

Trouble	Probable Cause	Corrective Action
Printer stops or won't turn on (power light off)	Power off	Press power switch on Check power cable connections
Printing stops or won't start (power light on)	Access cover open	Close access cover
Printing stops or won't start (printer error light on)	Electronic or mechanical malfunction	Perform self-test procedure described later in this section
Power-up failure (power light on, buzzer sounds continuously)	Temporary electronic malfunction	Switch printer off and then on
Some characters improperly spaced or positioned	Damaged printwheel	Replace printwheel
	Printwheel not fully seated	Reinstall printwheel making sure it is all the way down
Characters too close together or too far apart	Wrong printwheel or system pitch setting	Change printwheel or system pitch setting
Characters not consistently dark	Old or dried out ribbon	Replace ribbon cartridge
	Incorrectly set paper thickness lever	Reset paper thickness lever
	Defective printwheel	Replace printwheel
	Ink or carbon not adhering to coated paper	Use uncoated paper

(continued on next page)

Trouble	Probable Cause	Corrective Action
Characters not sharp or dark enough	Incorrectly set paper thickness lever	Reset paper thickness lever
	Worn or dirty printwheel	Replace or clean printwheel
	Defective ribbon	Replace ribbon cartridge
Parts of characters missing	Incorrectly set paper thickness lever	Reset paper thickness lever
	Scratched film ribbon	Advance ribbon to unscratched area or replace cartridge
	Damaged printwheel character	Replace printwheel
	Ink or carbon not adhering to coated paper	Use uncoated paper
Top or bottom of characters missing	Ribbon folded over behind guides	Unfold and advance ribbon, reinstall cartridge
	Interference between card guide and ribbon guides	Remove foreign object, reinstall ribbon cartridge
Ribbon jams or breaks	Improperly installed ribbon	Reinstall ribbon cartridge, check printout for loss of characters
	Rewind knob turned in wrong direction during installation	Reinstall ribbon cartridge turning knob in proper direction, check printout for loss of characters
Perforated paper	Incorrectly set paper thickness lever	Reset paper thickness lever
	Too many carbons	Reduce number of carbons

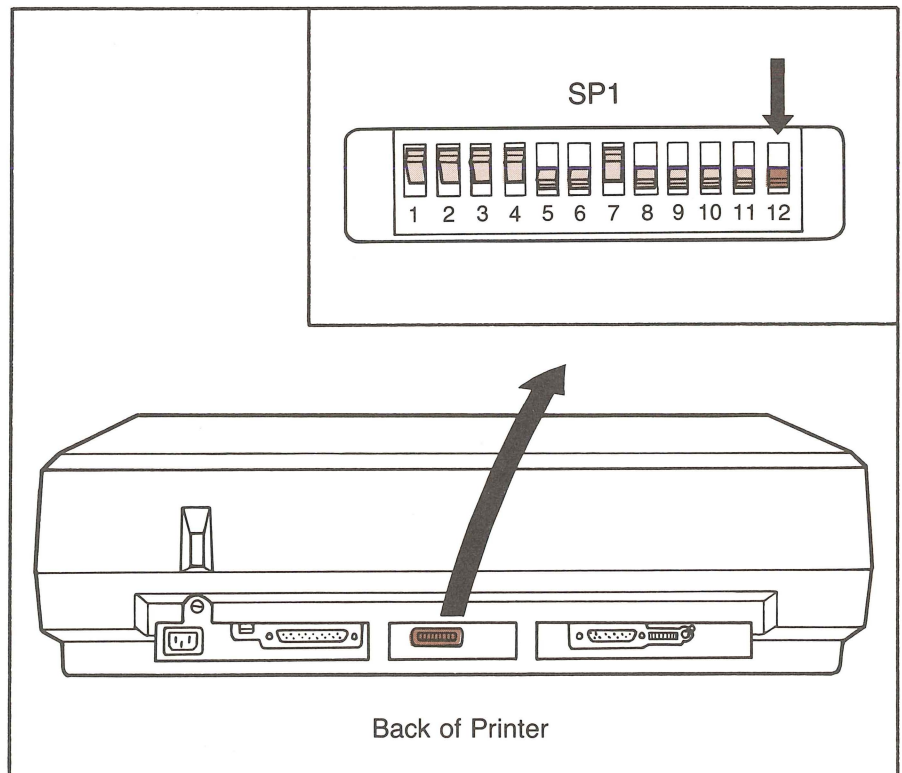
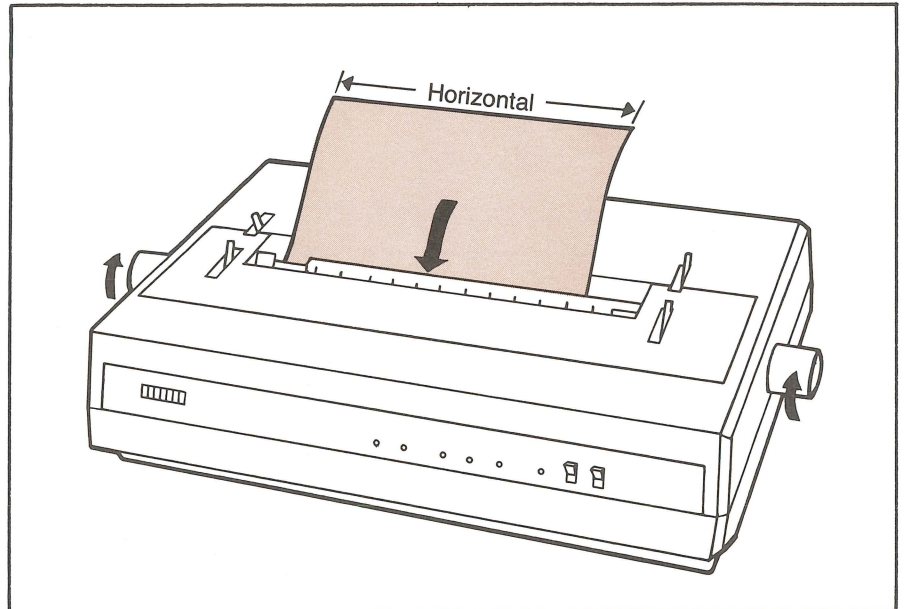


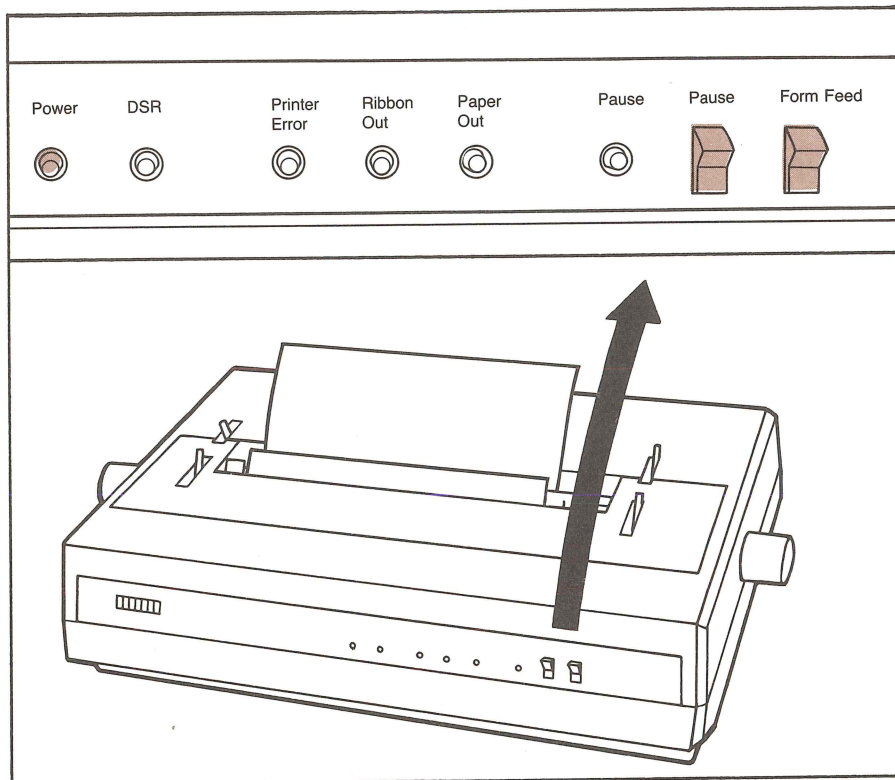
Self-test Procedure

Do not open the access cover while performing this procedure or testing will stop.

Startup

- 1** Insert sheet of paper in horizontal position, as far to the left as it will go.
- 2** Move self-test configuration switch (SP1-12) down.
- 3** Press top of power switch.
Front-panel lights should blink twice, and carriage should move to far left. If this doesn't happen, stop testing and turn to shutdown procedure on next page.





Testing

- 1** Press FORM FEED switch once.
Red printer-error, ribbon-out and paper-out lights should blink twice.
- 2** Wait a few seconds, and press FORM FEED switch again.
Buzzer should sound, printing should start, and forms tractor or sheet feeder should operate (if installed).
- 3** After enough printout has been obtained (at least two printed lines), press top of PAUSE switch.
Printout should include at least one carriage return, one line feed, and all characters on printwheel (96, printed from left to right).

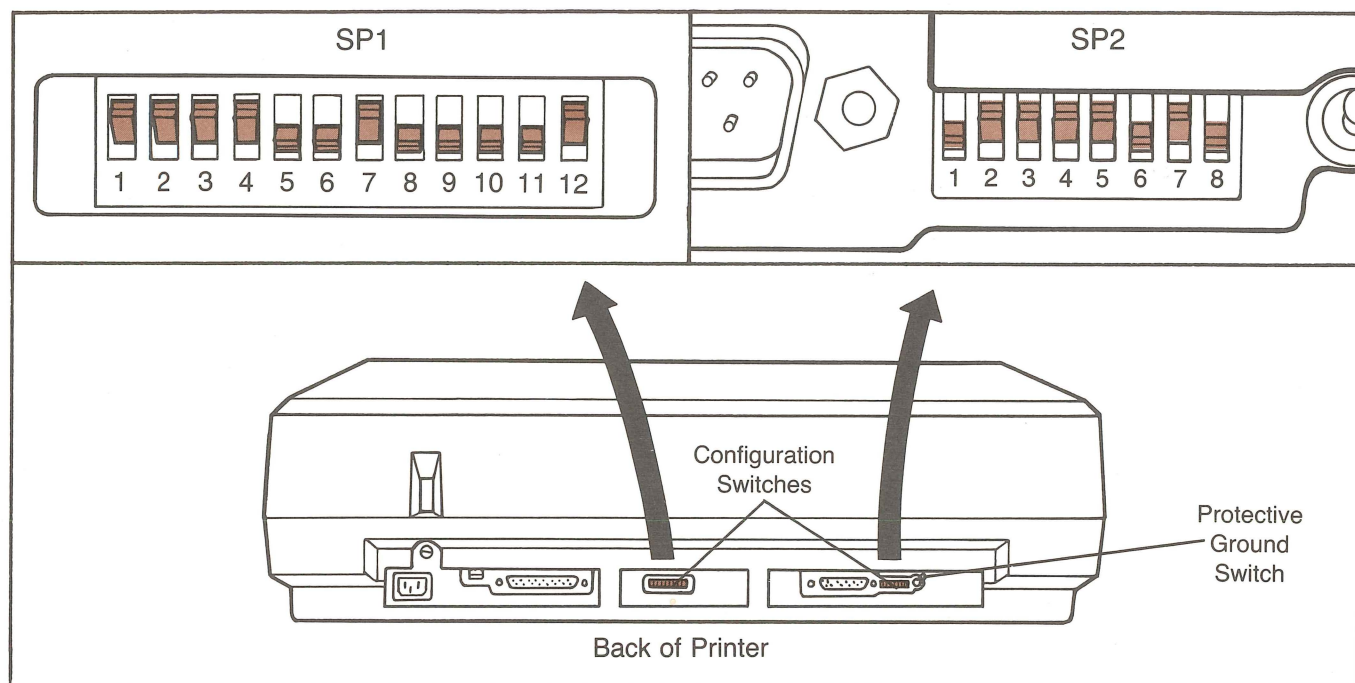
Shutdown

- 1** Press power switch to OFF.
- 2** Move self-test configuration switch (SP1-12) up.

Followup

- 1** If printer passes self-test, it is functioning properly.
Refer to your system manual for additional instructions.
- 2** If printer does not pass self-test, it is not functioning properly.
Contact your dealer or the nearest DIGITAL service technician.

System Configuration



All 21 configuration switches were preset for worldwide system operation without a modem. If your configuration is different, read the following paragraphs to find out if these switch settings meet your system needs.

Configuration Switches

The table at the end of this section:

Summarizes the switch settings for nonmodem operation

Lists other system configurations and the appropriate switch settings

Provides spaces for the insertion of different switch settings

For each switch described in the following paragraphs, the:

Off or 0 position is down.

On or 1 position is up.

Left (SP1) Group

The left group contains twelve preset switches (SP1-1 thru SP1-12). Do not change the switch settings unless you have other system needs.

Baud Rate Select Switches SP1-1, SP1-2, SP1-3, SP1-4

These switches select the speed (bits per second) at which the printer sends and receives data from the computer:

Baud Rate	SP1 Switch			
	1	2	3	4
75/600	Down	Down	Down	Down
75/1200	Up	Down	Down	Down
110	Down	Up	Down	Down
134.5	Up	Up	Down	Down
150	Down	Down	Up	Down
200	Up	Down	Up	Down
300	Down	Up	Up	Down
600	Up	Up	Up	Down
1200	Down	Down	Down	Up
1800	Up	Down	Down	Up
2000	Down	Up	Down	Up
2400	Up	Up	Down	Up
3600	Down	Down	Up	Up
4800	Up	Down	Up	Up
7200	Down	Up	Up	Up
9600	Up	Up	Up	Up

Switches SP1-1, SP1-2, SP1-3 and SP1-4 were preset for a baud rate of 9600 (all switches up).

Stop Bits Switch SP1-5

This switch selects one or two stop bits (part of data format) to let the printer talk with the computer. The up position selects two stop bits; the down position selects one stop bit.

Switch SP1-5 was preset down for one stop bit.

Full/Restricted Modem Control Switch SP1-6

The setting of this switch indicates the presence or absence of a modem. The up position provides full modem control; the down position provides restricted modem control.

Switch SP1-6 was preset down for restricted control.

Parity Enable Switches SP1-7, SP1-8

These switches select the parity mode (another part of data format) that lets the printer talk with the computer:

Parity Mode	SP1 Switch	
	7	8
Mark	Down	Down
Odd	Down	Up
Space	Up	Down
Even	Up	Up

Switches SP1-7 and SP1-8 were preset for space parity (7 up, 8 down).

RLSD Disconnect Timing Switch SP1-9

For data channel RLSD (received line signal detector) aborts, this switch selects the standard 2 second (2 s) timer or the nonstandard 60 millisecond (60 ms) timer. The up position selects the 60 ms timer; the down position selects the 2 s timer.

Switch SP1-9 was preset down for the 2 s timer.

Paper Out Enable Switch SP1-10

The down position enables operation of the paper-out sensor. The up position disables this function.

Switch SP1-10 was preset down to enable the sensor.

Status Inhibit Switch SP1-11

For system testing, the up position inhibits a status transmission for polled requests until all printer buffers are empty. The down position enables immediate status transmission.

Switch SP1-11 was preset down to enable transmission.

Self Test Switch SP1-12

The down position lets the form-feed switch start electronic and mechanical tests of printer operation. The up position disables the self-test feature.

Switch SP1-12 was preset up to disable the self-test.

Right (SP2) Group

The right group contains eight preset switches (SP2-1 thru SP2-8). Do not change the switch settings unless you have other system needs.

Refer to the electrical schematic showing the switches, circuit lines, and applicable input-output (I/O) connector pins.

Transmitted Data Switch SP2-1

When this switch is down, the printer sends data to the computer through the "transmitted data" line (I/O connector pin 2). The up position disables this function.

Switch SP2-1 was preset down to enable this function.



Transmitted Backward Channel Data Switch SP2-2

When this switch is down, the printer sends data to the computer through the "transmitted backward channel data" line (I/O connector pin 14). The up position disables this function.

Switch SP2-2 was preset up to disable this function.

Transmitted Backward Channel Signal Switch SP2-3

When this switch is down, the printer uses the "transmitted backward channel signal" line (I/O connector pin 19) to prepare a modem for receiving printer data. The up position disables this function.

Switch SP2-3 was preset up to disable this function.

Request to Send Switch SP2-4

When this switch is down, the printer uses the "request to send" line (I/O connector pin 4) to prepare a modem for receiving printer data. The up position disables this function.

Switch SP2-4 was preset up to disable this function.

Request to Send Off Level Switch SP2-5

When this switch is down, it electrically forces the "request to send" line (I/O connector pin 4) to an effective off level. The up position disables this function.

Switch SP2-5 was preset up to disable this function.

Ready for Sending Switch SP2-6

When this switch is down, the printer uses the "ready for sending" line (I/O connector pin 5) to let a modem say it is ready to receive printer data. The up position disables this function.

Switch SP2-6 was preset down to enable this function.

Backward Channel Ready Switch SP2-7

When this switch is down, the printer uses the "backward channel ready" line (I/O connector pin 13) to let a modem say it is ready to receive printer data. The up position disables this function.

Switch SP2-7 was preset up to disable this function.

Data Signaling Rate Selector Switch SP2-8

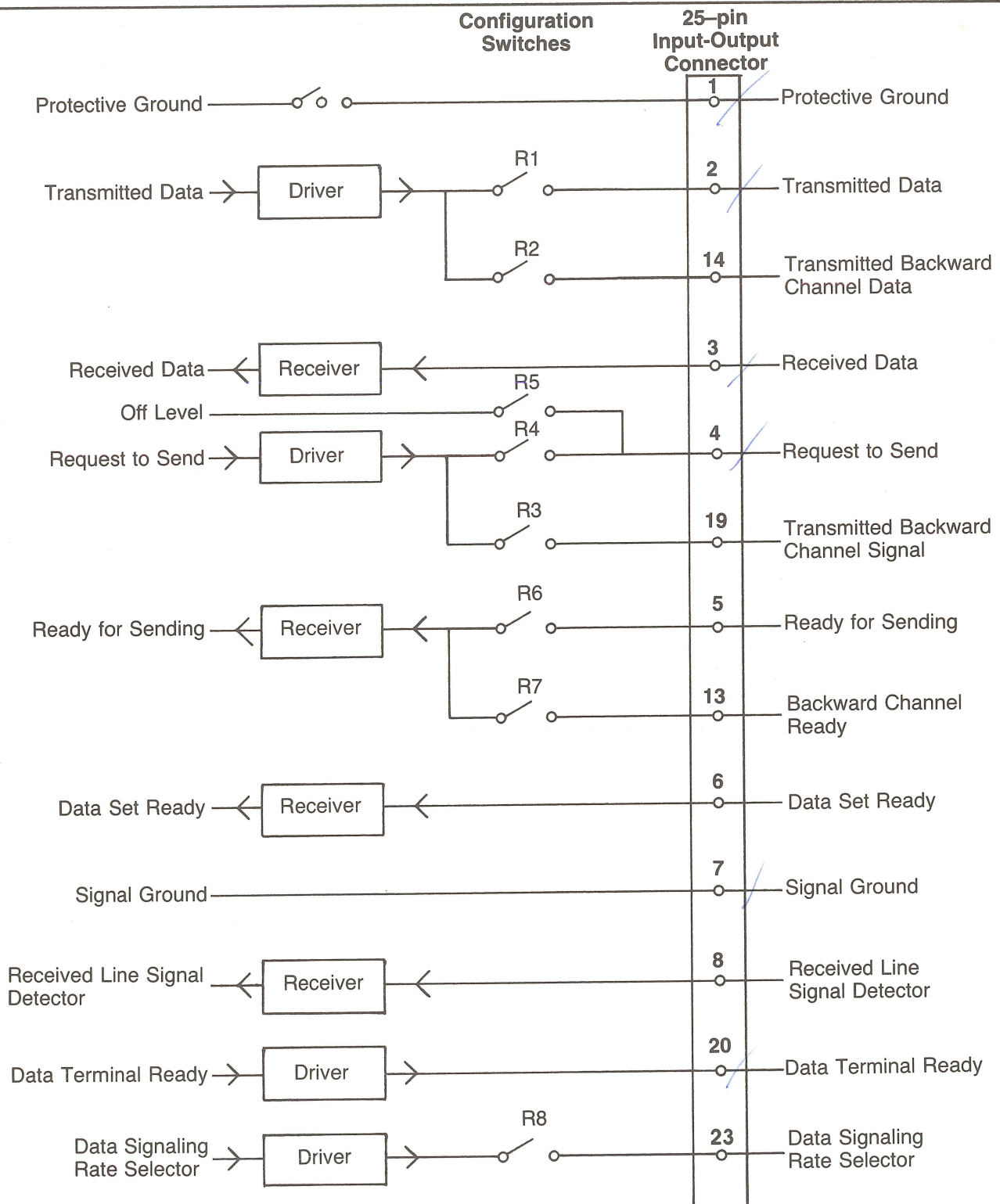
When this switch is down, it connects the "data signaling rate selector" line (I/O connector pin 23) to a modem. The up position disables this function.

Switch SP2-8 was preset down to enable this function.

Protective Ground Switch

When a modem is installed in your system, the down position of this switch connects the printer frame to the "protective ground" line (I/O connector pin 1).

Normally this switch is in the down position (the shipment preset) with or without a modem. But in Germany and the United Kingdom local safety regulations may require the up position (printer frame not connected to electrical ground).





Switch Settings

You or your system manager can use one of the following configurations (letters in parentheses refer to footnotes at bottom of table).

System Configuration	Switch Settings Left (SP1) Group												Right (SP2) Group								Protective Ground
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	
Worldwide, no modem (shipment presets)	Up	Up	Up	Up	Down	Down	Up	Down	Down	Down	Down	Up	Down	Up	Up	Up	Up	Down	Up	Down	Up
United States, DF01 thru DF03 modems	(a)	(a)	(a)	(a)	(b)	Up	(b)	(b)	Down	Down	Down	Up	Down	Up	Up	Up	Up	Down	Up	Down	Up
United Kingdom modem, 300 baud	Down	Up	Up	Down	Down	Up	(b)	(b)	Up	Down	Down	Up	Down	Up	Up	Down	Up	Down	Up	Down	(c)
United Kingdom, modem, 1200 baud	Down	Down	Down	Up	Down	Up	(b)	(b)	Up	Down	Down	Up	Down	Up	Up	Down	Up	Down	Up	Down	(c)
United Kingdom, modem, 75/600 baud	Down	Down	Down	Down	Down	Up	(b)	(b)	Up	Down	Down	Up	Up	Down	Up	Up	Up	Up	Down	Down	(c)
United Kingdom, modem, 75/1200 baud	Up	Down	Down	Down	Down	Up	(b)	(b)	Up	Down	Down	Up	Up	Down	Up	Up	Up	Up	Down	Down	(c)
Germany, modem, 300 baud	Down	Up	Up	Down	(a)	Up	(b)	(b)	Down	Down	Down	Up	Down	Up	Up	Up	Up	Down	Up	Down	(c)
Germany, modem, 1200 baud	Down	Down	Down	Up	Down	Up	(b)	(b)	Down	Down	Down	Up	Down	Up	Up	Up	Up	Down	Up	Down	(c)
Germany, modem, 75/600 baud	Down	Down	Down	Down	Down	Up	(b)	(b)	Down	Down	Down	Up	Up	Down	Down	Up	Down	Up	Down	Down	(c)
Germany, modem, 75/1200 baud	Up	Down	Down	Down	Down	Up	(b)	(b)	Down	Down	Down	Up	Up	Down	Down	Up	Down	Up	Down	Down	(c)

- (a) Modem requirement. Refer to modem user guide.
- (b) System requirement. Refer to word processor or computer system user guide.
- (c) Safety requirement. Refer to local safety regulations.

Making Your Presence Known

Complete and mail the self-addressed reader comment form inserted after the index.

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Reader's Comments

Installing and Using the
LQP02 Printer
AA-L662A-TK

Your comments and suggestions are welcome. They will help us in our continuous effort to improve the quality and usefulness of our publications.

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Cut Along The Dotted Line

Technical Specifications

Electrical Input	120 Vac at 60 Hz for North American installation 220–240 Vac at 50 Hz for European installation
Temperature	10° to 38° C (50° to 100° F) for operation –10° to 70° C (14° to 158° F) for storage
Relative Humidity	10% to 90% for operation 2% to 98% for storage
Paper Thickness	No more than 0.025 in. (0.6 mm) for originals and carbons

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