

USER'S MANUAL

LC-7211

DOT MATRIX PRINTER

Federal Communications Commission Radio Frequency Interference Statement

The 120V version equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

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

Unauthorized modifications of this product by the user will void his authority to operate the equipment unless expressly approved by the party responsible for compliance.

For compliance with the Federal Noise Interference Standard, this equipment requires a shielded cable.

The 220V version equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For compliance with the Federal Noise Interference Standard, this equipment requires a shielded cable.

The above statement applies only to printers marketed in the U.S.A.

Statement of The Canadian Department of Communications Radio Interference Regulations

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectiques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

The above statement applies only to printers marketed in Canada.

CE Manufacturer's Declaration of Conformity

EC Council Directive 89/336/EEC of 3 May 1989

This product, has been designed and manufactured in accordance with the International Standards EN 50081-1/01.92 and EN 50082-1/01.92, following the provisions of the Electro Magnetic Compatibility Directive of the European Communities as of May 1989.

EC Council Directive 73/23/EEC and 93/68/EEC of 22 July 1993

This product, has been designed and manufactured in accordance with the International Standards EN 60950, following the provisions of the Low Voltage Directive of the European Communities as of July 1993.

The above statement applies only to printers marketed in EU.

Ambient Noise Statement

Machine Noise Information Ordinance 3. GSGV, January 18, 1991: The sound pressure level at the operator position is equal or less than 70 dB(A) according to ISO 7779.

The above statement applies only to printers marketed in EU.

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About this manual

This manual describes how to set up, use, and care for the Star LC-7211 printer. The following is a list of what you can expect to find in each chapter.

Chapter 1	ter 1 Choosing a place for your printer, unpacking and setup ribbon cassette installation, loading paper, connecting t your computer	
Chapter 2	How to use the control panel	
Chapter 3	How to use the printer's Electronic DIP Switch (EDS) Mode to set up the printer to match the needs of your system and software	
Chapter 4	Installing, starting up, and using the User Setup Utility	
Chapter 5	How to set up for printing with Microsoft Windows 3.1, how to prepare for printing, how to print a document	
Chapter 6	How to set up for printing with Microsoft Windows 95, how to prepare for printing, how to print a document	
Chapter 7	How to set up for printing with IBM OS/2 Warp, how to prepare for printing, how to print a document	
Chapter 8	How to set up for printing with MS-DOS	
Chapter 9	Selecting the best type of paper, adjusting for paper thickness, manual sheet feeding, clearing paper jams	
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Appendix A	Troubleshooting	
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Chapter 1: Printer Setup

This chapter contains important information on setting up your printer. Be sure
to read this chapter carefully before using the printer for the first time. In this
chapter you will learn about:
☐ Choosing a place for the printer
☐ Unpacking and setting up the printer
☐ Installing the ribbon cassette
☐ Loading paper
☐ Connecting to your computer

Choosing a place for the printer

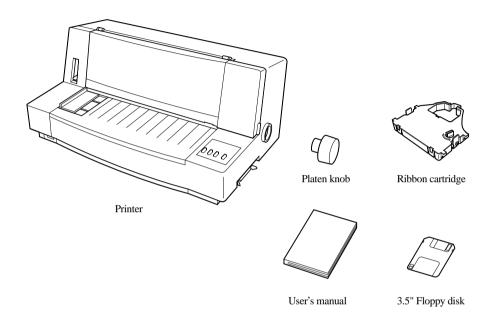
Before actually unpacking the printer, you should take a few minutes to think about where you plan to use it. Remember the following points when doing this.

- ✓ Choose a firm, level surface where the printer will not be exposed to vibration.
- ✓ The power outlet you plan to connect to for power should be nearby and unobstructed.
- ✓ Make sure that the printer is close enough to your computer for you to connect the two with your printer cable.
- ✓ Allow six inches (15 centimeters) of free space on either side of the printer. If you are going to use fanfold paper, make sure that there is adequate space for paper behind the printer.
- ✓ Make sure that the printer is not exposed to direct sunlight.
- ✓ Make sure that the printer is well away from heaters.
- ✓ Make sure that the surrounding area is clean, dry, and free of dust.
- ✓ Make sure that the printer is connected to a reliable power outlet. It should not be on the same electric circuit as copiers, refrigerators, or other appliances that cause power spikes.
- ✓ Use a power outlet that matches the power rating noted on the label affixed to the bottom of your printer.
- ✓ Make sure that the room where you are using the printer is not too humid.

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Unpacking the printer

Check to make sure that the carton contains each of the items shown in the following illustration.



If anything is missing, contact the store where you bought the printer and ask them to supply the missing part. Note that it is a good idea to keep the original box and all the packing materials just in case you need to pack the printer up again and send it somewhere at a later date.

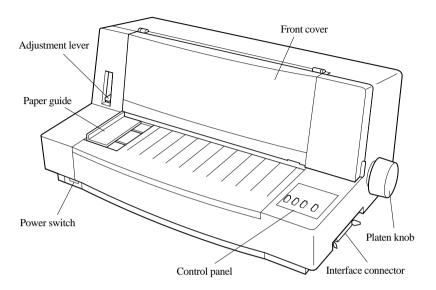
A serial-to-parallel interface converter (SPC-8K) is also available as an option. Consult your dealer for details.

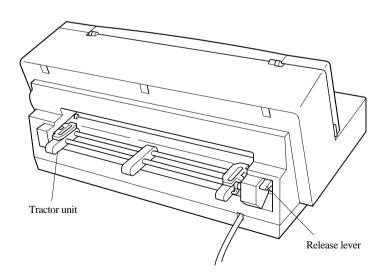
Important!

There are several versions of this printer designed for different voltages. It is not possible to change the voltage of a printer. If the voltage shown on the label on the bottom of your printer does not match the voltage for your area, contact your dealer immediately.

General guide

The following illustrations show the major components of your printer.

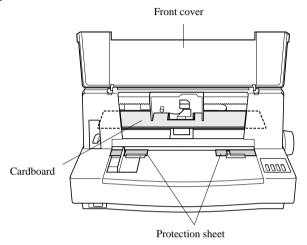




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Removing the protective materials

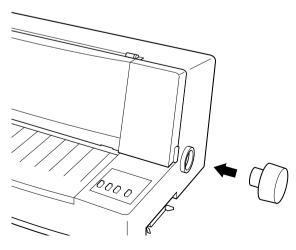
Protective sheets and a piece of cardboard are inserted into the printer to protect components during shipping. Before using the printer, be sure to remove all packing material from inside the front cover as shown in the illustration.



Installing the platen knob

The platen knob is packed into a recess in the packaging material.

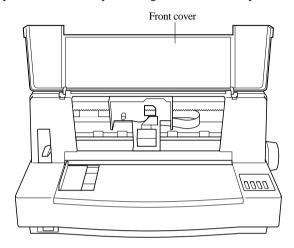
☐ Install the knob on the shaft located inside the large hole on the right side of the printer. Make sure that the flat side of the shaft is aligned with the corresponding flat surface inside the knob's spindle. Press the knob carefully but firmly into place as far as it will go.



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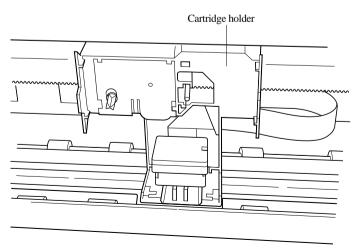
Opening the front cover

☐ Hook your fingers under the two small tabs on either side of the front cover and pull forward and up to swing the front cover open.



Installing the ribbon cassette

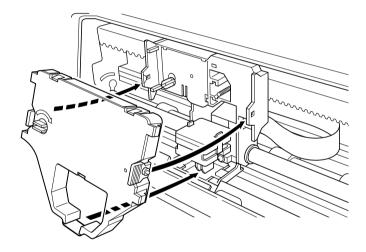
- ☐ Make sure that the printer is unplugged from its power outlet.
- Open the front cover of the printer.
- ☐ By hand, move the cartridge holder to the center position of the paper guide where there is a cutout to allow easy installation and removal of the ribbon cassette.



Important!

Never try to move the print head while the printer is plugged into a power outlet. Doing so can damage the printer. If you have just used the printer, let the print head cool for a few minutes before you touch it.

- ☐ Remove the ribbon cassette from its package.
- ☐ Rotate the knob on the ribbon cassette clockwise to take up any slack in the ribbon.
- ☐ Carefully place the cassette onto the cartridge holder making sure that the spindle of the holder fits into the socket on the bottom of the cassette.



- ☐ Press down gently but firmly on the cassette until it snaps securely into place.
- ☐ Rotate the knob on the cassette again to take up any slack.
- ☐ Close the front cover of the printer.

Important!

Printing that is poor quality or too light is almost always due to a ribbon that is simply worn out or "used up." If you experience problems with print quality, check the condition of the ribbon. If the black part looks gray and well-worn, replace the ribbon with a new one.

Removing the ribbon cassette

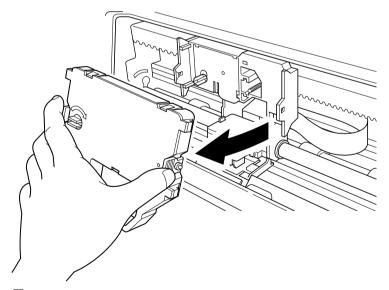
Use the following procedure to remove the ribbon cassette from the printer when you want to replace it with a new one.

- ☐ Make sure that the printer is unplugged from its power outlet.
- Open the front cover of the printer.
- ☐ By hand, move the cartridge holder to the center position of the paper guide where there is a cutout to allow easy installation and removal of the ribbon cassette.

Important!

Never try to move the print head while the printer is plugged into a power outlet. Doing so can damage the printer. If you have just used the printer, let the print head cool for a few minutes before you touch it.

☐ Using your thumb and forefinger to squeeze the two tabs on the ribbon cassette towards the center, carefully remove the cassette from the holder.



☐ Use the procedure under "Installing the ribbon cassette" on page 5 to install a new cassette.

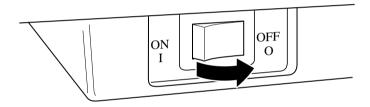
Connecting to a power outlet and turning power on and off

☐ Plug the power cord of the printer into a standard power outlet whose voltage matches the power rating noted on the label affixed to the bottom of your printer.

Caution!

If the voltage marked on the bottom of your printer does not match the voltage from the outlet you are using, do not plug in the power cord. Contact your dealer for assistance.

Set the switch on the front of the printer to ON to turn power on, and to OFF to turn power off.



Important!

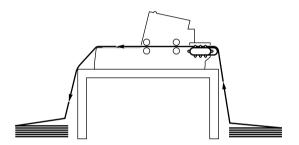
We recommend that you unplug the printer from the power outlet whenever you do not plan to use it for long periods. Because of the this, you should locate the printer so that the power outlet it is plugged into is nearby and easy to access.

At this point you may want to perform a test of the printer to make sure it is working properly. See page 65 for details on how to perform tests.

Loading fanfold paper

This section tells you how to load fanfold paper. Note that you can also use cutsheet paper and multi-part form paper. For details on using other types of paper, see "Paper Handling" on page 56 of this manual.

- ☐ Position the stack of paper behind the printer.
- ☐ The following figure shows the correct path for fanfold paper.



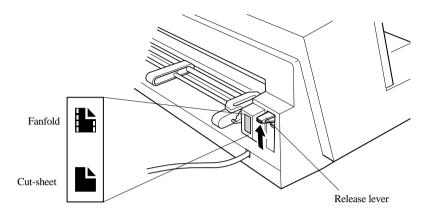
Important!

To protect against paper jams, make sure that the fanfold paper is stacked in a position that is lower than the printer.

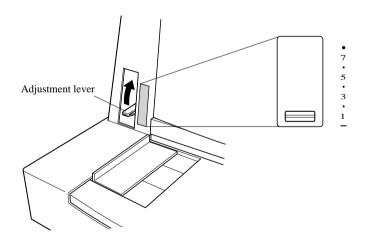
☐ Unplug the printer from its AC power supply.

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☐ Set the release lever on the back of the printer to the fanfold position.

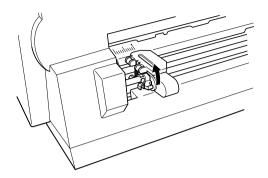


☐ Set the adjustment lever to the value that matches the thickness of the paper you are using. The setting for normal paper is 1. Set the lever to a larger value for thicker paper, or to a smaller value for thinner paper. See the table on page 58 for details.

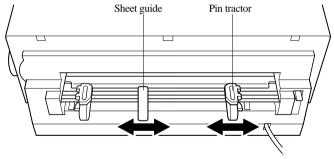


Unlock the tractor on the left (when viewing the printer from behind) by pulling its gray lever up, and adjust the position of the left tractor.

Note that there is a guide inside the printer in front of the left tractor. The wark of the guide indicates where the left margin of the printing will be.



- Once the left tractor is aligned the way you want it, push the gray lever back down to lock it in place.
- Now move the tractor on the right to the approximate position of the right side of the paper you are using. Pull its gray lever up to unlock it, and push the lever back down to lock it into place. Also move the center paper support so that it is approximately halfway between the two tractors.



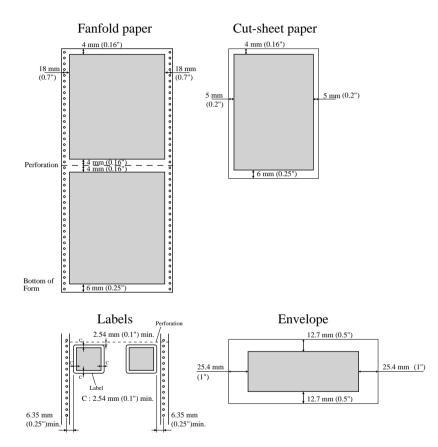
- Open the covers of both tractors and align the paper so that the pins on the tractors are inserted into the holes of the paper.
- ☐ Close the tractor covers. At this point you can make final adjustments to the paper position by releasing the gray levers and moving the tractors. The paper should lie flat with no buckling or bulging (tractors too close) or no stretching or elongation of the holes (tractors too far apart). After making these adjustments, be sure that you re-lock the tractors by pushing the gray levers back into their original positions.
- ☐ Plug the printer back into its AC power source. The printer will beep a number of times to indicate that paper is not loaded.

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☐ Press the control panel's **LF** button and the paper will feed to the starting position.

Printing on fanfold paper

When printing on fanfold paper, take care not to print too close to the perforations that separate each sheet. The following shows the recommended print area for fanfold paper, cut-sheet paper, labels and envelope.



Parking fanfold paper

OI	is not necessary to remove fanfold paper currently loaded in the printer in der to print on cut-sheet paper fed by hand. Instead, simply use the following rocedure to <i>park</i> the fanfold paper.
	Tear off the paper at a perforation so there is no more than half a page sticking out of the front cover of the printer.
	If necessary, you can press the control panel's ON LINE button to put the printer off-line. Then use the LF button to feed the paper until a perforation is just past the front cover.
	Press the control panel's ON LINE button to put the printer on-line.
	Press the control panel's LF button. The printer automatically reverse feeds the fanfold paper until it is no longer in contact with the platen.
	Set the release lever on the back of the printer to the cut-sheet position.
	The paper is now parked, and you can load cut-sheet paper into the printer using the procedures under "Manual sheet feeding" on page 59.
Unparki	ng fanfold paper
	fter you are finished printing on cut-sheet paper, use the following procedure unpark fanfold paper and make it available for printing.
	If any cut-sheet paper is still in the printer, put the printer on-line and then press the control panel's LF button to eject it.
	Check to make sure the printer is off-line.
	Set the release lever on the back of the printer to the fanfold position.
	Press the control panel's LF button. The printer automatically feeds the fanfold paper back into position, ready for printing.
Using th	e tear-off function
	he following procedure makes it easy to tear off fanfold paper without sturbing the current position of the paper.
	Check to make sure that the printer is on-line.
	Press the control panel's MODE button.
	The printer feeds the perforation of the fanfold paper to the tear-off edge of the printer cover.
	Tear off the paper.
	When you resume printing, the printer reverse feeds the paper to its former position.

Connecting to your computer

The computer sends data to the printer through a cable. This printer does not come with a cable, so you must purchase one separately. You will probably want to use a standard parallel cable for connection, but note that you can also use an optional serial-to-parallel interface converter (SPC-8K).



Important!

The following instructions apply to the Centronics parallel cable that is used with an IBM-compatible personal computer. Note that they do not apply to all types of computers and cables. If you are unsure about what type of cable you should use to connect with your computer, consult your dealer.

For an IBM-compatible personal computer:

- ✓ Use a standard 36-pin Centronics parallel cable.
- ✓ The parallel cable should be no longer than six feet (two meters). Longer cables can result in poor transfer of information.

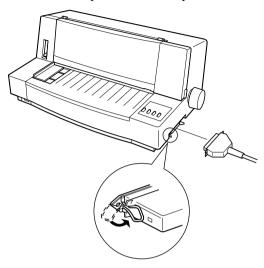
Important!

Make sure that the printer is unplugged from the AC outlet and that the computer is switched off before connecting them.

Plug one end of the parallel cable into the parallel port of your computer.
The parallel port should be labeled "Printer," "Parallel," "PRN," "LPT1," or
something similar.

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☐ Plug the other end of the parallel cable into the socket on the side of the printer and secure it in place with the clips.

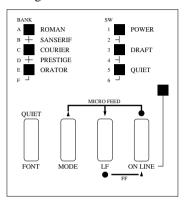


Note:

Consult your dealer for details on how to set up your computer when using the optional SPC-8K serial-to-parallel interface converter.

Chapter 2: Control Panel Operations

The control panel gives you push-button control over the printer's power and paper feed operations. It also includes indicator lights, which tell you the current status of the printer at a glance.



This chapter describes general functions that can be performed using the control panel buttons while the printer is turned on and either on-line or off-line. The buttons perform different functions in the EDS and Dot Adjustment Modes. Functions of control panel buttons in these modes are described in the relevant sections covering them.

Important!

The procedures described in this chapter will not work if paper is not loaded into the printer. Be sure to use the procedures on page 9 of this manual to load paper before trying any of the following operations.

Switching between on-line and off-line

- Press **ON LINE** to switch the printer between being on-line and off-line.
- ☐ When the printer is on-line, the **ON LINE** indicator is lit and the printer can receive data from the computer. You should make sure that the printer is online whenever you are trying to print.
- ☐ When the printer is in off-line, the **ON LINE** indicator goes out, which means that the printer cannot receive any data.

Important!

Make sure that the on-line/off-line setting of the printer is correct before performing any other control panel operations.

Paper loa	ding
	Prepare either cut-sheet or fanfold paper for feeding.
	For details on how to prepare for paper feeding, see page 9 for fanfold paper and page 59 for cut-sheet paper.
	The POWER indicator flashes to indicate there is no paper in the printer.
	When using fanfold paper, press LF to feed the paper into the printer. When using cut-sheet paper, insert the paper into the front of the printer using the left paper guide. The paper is automatically fed into the printer.
Line feed	
	Make sure the printer is off-line (ON LINE indicator is not lit).
	Press LF once to feed paper one line. Holding down LF continually feeds paper, one line at a time, until you release the button.
Paper ejed	ct (cut-sheet paper)
	Make sure the printer is on-line (ON LINE indicator is lit).
	Press LF to eject the paper.
	After the paper is ejected, the printer will beep and the POWER indicator will flash to indicate there is no paper in the printer.
Form feed	d (fanfold paper)
	Make sure the printer is off-line (ON LINE indicator is not lit).
	While holding down \boldsymbol{LF} , press \boldsymbol{ON} \boldsymbol{LINE} to feed the paper to the top of the next page.
Parking f	anfold paper
	Make sure the printer is on-line (ON LINE indicator is lit).
	Press LF to eject the paper.
	After the paper is ejected, the printer will beep and the POWER indicator will flash to indicate there is no paper in the printer.
	Later, you can press LF again to feed the paper back into the printer.

Micro feed

	makes it possible to align the print head exactly where you want it.	
	☐ Make sure the printer is off-line (ON LINE indicator is not lit).	
	☐ While holding down ON LINE , press LF to feed the paper forward or MODE to feed the paper backward.	
Setting	the top of form position	
	The current position of paper loaded in the printer is automatically set as the top of the page whenever you turn power on. You can also use the following procedure at any time to specify a different position as the top of the page.)
	☐ Prepare either cut-sheet or fanfold paper for feeding.	
	☐ Press LF to feed the paper into the printer.	
	☐ Make sure the printer is off-line (ON LINE indicator is not lit).	
	Use the micro feed operations (see above) to move the paper so that the print head is located where you want the new top of form position to be.	
	☐ While holding down FONT , press LF .	
	The printer will beep once to indicate that a new top of form position has been set.	
Setting	the print mode	
	☐ Make sure the printer is off-line (ON LINE indicator is not lit).	
	☐ Press the control panel's MODE button to switch between NLQ (DRAFT indicator is not lit) and draft (DRAFT indicator is lit) printing.	
	NLQ printing provides high quality, but is somewhat slower. Draft printing is quicker, but the quality is not as good as NLQ.	5
Tear-oj	f function (fanfold paper)	
	This procedure feeds fanfold paper to a position where it can be torn off easily	7.
	☐ Make sure the printer is on-line (ON LINE indicator is lit).	
	Press the control panel's MODE button.	
	☐ Tear off the paper.	
	☐ When you resume printing, the printer reverse feeds the paper to its forme position.	r
	This operation causes the paper to be fed automatically so the tear assist edge on the printer cover is aligned with the paper's next perforation.	f

Use the following operation to feed the paper in very small increments. This

Selecting a font

Make sure the printer is off-line (ON LINE indicator is not lit).
Press FONT to change the font selection. An indicator lights to the left of
the name of the font that is currently selected.

Lit Indicator	Font Name
ROMAN	Roman
ROMAN + COURIER	Sanserif
COURIER	Courier
COURIER + ORATOR	Prestige
ORATOR	Orator

Selecting the Quiet Print Mode

The Quiet Print Mode lets you print with less noise than that produced with normal printing. Use the following procedure to enter and exit the Quiet Print Mode.

Important!

Though the Quiet Print Mode prints more quietly, it also causes printing to take considerably longer than normal printing.

☐ Make sure the printer is on-line	(ON LINE indicator is lit).
------------------------------------	-----------------------------

Press **FONT**, to toggle between the Quiet Print Mode and normal printing. The **QUIET** indicator is lit when the Quiet Print Mode is selected, and is not lit when normal printing is selected.

Changing the auto load position

Normally the printer automatically feeds paper to a standard position (1/6-inch from the top of the paper). This is called the auto load position. You can use the following procedure to specify a different auto load position.

	Make sure t	the printer is	off-line	(ON L	INE	indicator	is not	lit).
--	-------------	----------------	----------	-------	-----	-----------	--------	-------

	While holding down	ON LINE	, press FONT	and then rele	ease the two
--	--------------------	---------	---------------------	---------------	--------------

The printer will automatically eject the cut-sheet that is in the printer, or reverse feed fanfold paper until it is no longer in contact with the platen. Also, all the font and pitch indicators on the control panel will light.

		Press FONT to feed the paper to the starting position.
		Feed the paper so the print head is located where you want the new auto load position to be.
		Press \textbf{LF} to feed the paper forward and \textbf{MODE} to feed the paper backward. This is the micro feed operation.
		After you have the paper at the position you want, hold down ON LINE and press LF to make the current print head position the new auto load position. The printer will beep twice to indicate that the new auto load position is set.
		To clear the new auto load position and return to the one that you set previously (using the above procedure), press ON LINE . To clear the currently set auto load position and return to the standard position (1/6-inch from the top of the paper), hold down ON LINE and press FONT .
Note:		
	you	e auto load position you set remains in effect until you turn the printer off. If w want to save the auto load position in memory, press MODE instead of LF iile holding down ON LINE in the above step.
Savin	No the	ormally, any settings you make on the control panel are cleared when you turn e printer off. Use the following procedure to save the current control panel
		tings so that they are used whenever you turn the printer on.
	_	Make the control panel settings you want.
	_	Use ON LINE to put the printer off-line (ON LINE indicator is not lit).
		Hold down FONT and then MODE . Keep both buttons held down until the printer beeps twice.
		Pressing FONT normally changes the font setting, so when you press it in the above step, the next font will be indicated. Pressing MODE , however, returns the font setting to what it was before you pressed FONT . This procedure saves the following settings.
		Current font and print mode
		Quiet Mode status
		These items can be set separately for the Standard mode and the IBM mode.
		To clear saved control panel settings repeat the above procedure, but keep FONT and MODE depressed after the printer beeps twice. Soon the printer

will beep again three times to indicate that the saved control panel settings have been cleared.

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Clearing the printer's buffer

When the printer receives data from a computer, it temporarily stores it in a memory called a buffer. If you stop a printing job partway through, there is the chance that some data will remain in the buffer. The following procedure clears the printer's buffer by deleting any data that might be there. Lexecute the necessary command in the program you are using to stop the print job.

Important!

Be sure to stop the print job before taking the printer off line. Otherwise, the print job will resume from where you interrupted it when you put the printer back on-line.

Use ON LINE to take the printer off line (ON LINE indicator is not lit).
Hold down FONT and then ON LINE . Keep both buttons held down until
the printer beeps once, which indicates that the buffer is cleared.

Initializing the printer

The following procedure initializes the printer to its power-on settings. If you have control panel settings stored in memory, this procedure sets up the printer using them.

	Use ON	LINE to	take the	printer	off line (ON LINE	indicator	is not lit).
--	---------------	---------	----------	---------	------------	---------	-----------	--------------

Hold down FONT and then ON LINE . Keep both buttons held down until
the printer beeps once (indicating the printer buffer is cleared) and then
beeps again three times, which indicates that the printer is reset.

Chapter 3: Using the EDS Mode

The letters "EDS" stand for "Electronic DIP Switches." Just like the small DIP switches that are used by many computers, printers, and other devices, the EDS lets you configure the printer so that it matches your system and software needs. This chapter describes how to enter the printer's EDS Mode and provides details about available settings and how to change them.

All switch settings, except for F-2, are ON when the printer is shipped from the factory.

About EDS Mode settings

EDS Mode settings are grouped among six "banks" (representing banks of switches) that are identified by the letters A through F. Each bank contains a number of "switches" numbered 1 through 6 that you can turn on and off to configure the printer.

Entering the EDS Mode

	22001,10					
☐ Ma	ake sure tha	t paper is lo	aded in the	printer.		
☐ Tu	rn off the p	rinter.				
		g down the c		l's MODE ,	LF, and ON	LINE
	is causes thin the EDS		message to	be printed, v	vhich indica	tes the printer
CURRENT	EDS SETTIM	IGS				
Bank	A 123456	B 123456	C 123456	D 123456	E 123456	F 123456
Switch ON	*****	*****	*****	*****	*****	* ****
OFF						*

Selecting a bank

☐ While in the EDS Mode, use the control panel's **FONT** button to select a bank. Indicators on the left side of the control panel light to show which bank is currently selected.

Lit Indicator	Selected Bank
ROMAN	A
ROMAN + COURIER	В
COURIER	С
COURIER + ORATOR	D
ORATOR	E
ROMAN + COURIER + ORATOR	F

Selecting a switch

☐ While in the EDS Mode, use the control panel's **MODE** button to select a bank switch. Indicators on the right side of the control panel light to show which switch is currently selected.

Lit Indicator	Selected Switch
POWER	1
POWER + DRAFT	2
DRAFT	3
DRAFT + QUIET	4
QUIET	5
POWER + DRAFT + QUIET	6

Changing a switch setting

After selecting a bank and switch, press the control panel's **LF** button to turn the switch on and off. The current setting of the switch is indicated by the **ON LINE** indicator: the indicator is lit when the switch is on, and is not lit when the switch is off.

Printing the current switch settings

In the EDS Mode, hold down the control panel's ON LINE button and
press the LF button to print out the current switch settings. Asterisks on the
printout show whether a switch is turned on or off.

Exiting the EDS Mode

☐ Press the control panel's **ON LINE** button to exit the EDS Mode.

EDS Mode Settings

The following details all of the settings you can program in the EDS Mode.

BANK A

Switch 1: Emulation

Selects Standard emulation (ON) or IBM emulation (OFF). Standard emulation causes the printer to act like the Epson ESC/P (9-pin), while IBM emulation makes it act like the IBM Proprinter III.

Switch 2: Character Table

The function of this switch depends on whether you are using IBM or Standard emulation.

Emulation	Switch 2 Setting	Description
Standard	ON	Graphics: IBM Character Set #2
Statidard	OFF	Italics: Italic character table used
IBM	ON	IBM Character Set #2
IDIVI	OFF	IBM Character Set #1

Switch 3: RAM Usage

Specifies whether RAM should be used as an input buffer (ON) or as a download buffer (OFF). Selecting input buffer (ON) tells the printer to use available RAM to store data it receives from the computer, which speeds up the printing. Selecting download buffer (OFF) tells the printer to use available RAM to store character patterns.

Switch 4: Not used

Switch 5: Paper Out Detector

Specifies whether the printer's paper out detector is enabled (ON) or disabled (OFF). When the paper out detector is enabled (ON), the printer automatically stops printing whenever it senses there is no more paper. When it is disabled (OFF), the printer continues printing as long as there is data. Selecting disabled (OFF) makes it possible to print right up to the bottom of a page, but it also creates the danger of printing when there is no paper loaded in the printer, which can damage the print head and platen.

Switch 6: Not used

RANK R

Switch 1: Graphics Direction

Selects uni-directional (OFF) or bi-directional (ON) printing for graphics. Bidirectional printing (ON) is faster, while uni-directional (OFF) printing generally provides better print quality in the graphics mode.

Switch 2: Auto Tear-off

Specifies whether the printer's auto tear-off feature (page 19) is enabled (OFF) or disabled (ON). Note that this setting controls the application software's tear-off function only. It does not affect the manual tear-off function that is performed using the control panel buttons as described on page 19. The manual tear-off function is always enabled.

Switch 3: Line Spacing

Selects 1/6-inch (ON) or 1/8-inch (OFF) spacing between lines.

Switch 4: Auto LF with CR

Specifies whether auto LF with CR is enabled (OFF) or disabled (ON). When auto LF with CR is enabled (OFF), the printer automatically performs a line feed whenever it receives a carriage return from the computer. When it is disabled (ON), the computer must send both a line feed code and a carriage return code at the end of each line. Most applications do this automatically. Note the following checkpoints when trying to figure out which setting to use here:

- ✓ If you find that your output is double-spaced when it should not be, turn this switch ON (Disabled).
- ✓ If you find that lines are printing over each other, turn this switch OFF (Enabled).

Switch 5: Zero Style

Specifies whether a normal zero (ON) or a slashed zero (OFF) will be used. Selecting Normal (ON) prints zeros without lines running through them, while Slashed (OFF) prints zeros with a diagonal slash running through them.

Switch 6: Reserved

BANK C

Switches 1, 2: Print Mode

Turn these switches on or off to select the print mode you want to use.

Print Mode	SW1	SW2
Draft	ON	ON
NLQ	ON	OFF

Switches 3, 4, 5: Print Pitch

Turn these switches on or off to form the pattern that matches the print pitch setting you want to make.

Print Pitch	SW3	SW4	SW5
10cpi	ON	ON	ON
12cpi	OFF	ON	ON
17срі	ON	OFF	ON
20срі	OFF	OFF	ON
Proportional	ON	ON	OFF

Switch 6: Quiet

When the Quiet Mode is enabled (OFF), the printer prints with less noise than normal printing. Though the Quiet Mode prints more quietly, it also takes considerably longer than normal printing.

BANK D

Switches 1, 2, 3, 4: Page Length

Turn these switches on or off to form the pattern that matches the Page Length setting you want to make.

Page Length	SW1	SW2	SW3	SW4
11"/Letter	ON	ON	ON	ON
8"	OFF	ON	ON	ON
11.7"/A4	ON	OFF	ON	ON
12"	OFF	OFF	ON	ON
8.5"/Letter	ON	ON	OFF	ON
14"/Legal	OFF	ON	OFF	ON
10.5"/Executive	ON	OFF	OFF	ON
7.25"/Executive	OFF	OFF	OFF	ON
3.5"	ON	ON	ON	OFF
5.5"	OFF	ON	ON	OFF

BANK E

Switches 1, 2, 3, 4, 5: Code Page/International Character Set

If your EDS settings specify IBM emulation (Bank A, Switch 1 OFF) with either character table (Bank A, Switch 2), or Standard emulation (Bank A, Switch 1 ON) with the graphics character table (Bank A, Switch 2 ON), use the Bank E switches to select the default character code page you want to use.

	Code Page	SW1	SW2	SW3	SW4	SW5
#437	IBM-PC	ON	ON	ON	ON	ON
#850	Multi-lingual	OFF	ON	ON	ON	ON
#860	Portuguese	ON	OFF	ON	ON	ON
#861	Icelandic	OFF	OFF	ON	ON	ON
#863	Canadian French	ON	ON	OFF	ON	ON
#865	Nordic	OFF	ON	OFF	ON	ON
#866	Russian	ON	OFF	OFF	ON	ON
#3840	IBM-Russian	OFF	OFF	OFF	ON	ON
#3841	Gost-Russian	ON	ON	ON	OFF	ON
#3843	Polish	OFF	ON	ON	OFF	ON
#3844	CS2	ON	OFF	ON	OFF	ON
#3845	Hungarian	OFF	OFF	ON	OFF	ON
#3846	Turkish	ON	ON	OFF	OFF	ON
#3847	Brazil-ABNT	OFF	ON	OFF	OFF	ON
#3848	Brazil-ABICOMP	ON	OFF	OFF	OFF	ON
#852	Latin-2	OFF	OFF	OFF	OFF	ON
#1001	Arabic	ON	ON	ON	ON	OFF
#737	Greek	OFF	ON	ON	ON	OFF
#851	Greek	ON	OFF	ON	ON	OFF
#869	Greek	OFF	OFF	ON	ON	OFF
#928	Greek	ON	ON	OFF	ON	OFF
#2001	Lithuanian-KBL	OFF	ON	OFF	ON	OFF
#772	Lithuanian	ON	OFF	OFF	ON	OFF
#774	Lithuanian	OFF	OFF	OFF	ON	OFF
#3001	Estonian-1	ON	ON	ON	OFF	OFF
#3002	Estonian-2	OFF	ON	ON	OFF	OFF
#3011	Latvian-1	ON	OFF	ON	OFF	OFF
#3012	Latvian-2	OFF	OFF	ON	OFF	OFF
#3021	Bulgarian	ON	ON	OFF	OFF	OFF
#3031	Hebrew	OFF	ON	OFF	OFF	OFF
#3041	Maltese	ON	OFF	OFF	OFF	OFF

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A code page is the set of symbols and characters that your printer can print. Your printer converts ASCII hexadecimal data according to a code page to print symbols and characters. By supporting different code pages, the printer can print in a variety of different languages. The following table shows detailed information about code pages.

Code Page	Name	Country	Remarks
#437	IBM PC	United Kingdom, France, Germany, Italy, Austria, Switzerland, United States, Spain	
#850	Multi-Lingual	United Kingdom, France, Germany, Italy, Austria, Switzerland, United States, Spain	Preferred by Microsoft
#860	Portuguese	Portugal	
#861	Icelandic	Iceland	
#863	Canadian French	Canada	
#865	Nordic	Denmark, Finland, Norway, Sweden	Preferred by Microsoft
#866	Russian	Russia	Preferred by Microsoft
#3840	IBM-Russian	Russia, Bulgaria	
#3841	Gost-Russian	Russia	Gost: government standard
#3843	Polish	Poland	Also called "Mazowia"
#3844	CS2	Czech Republic	Also called "Kamenicky"
#3845	Hungarian	Hungary	
#3846	Turkish	Turkey	
#3847	Brazil-ABNT		
#3848	Brazil-ABICOMP		
#852	Latin-2	Croatia, Czech Republic, Hungary, Poland, Romania, Serbia, Slovak Republic, Slovenia	Preferred by Microsoft
#1001	Arabic	Egypt, Saudi Arabia	Mainly in Arabic speaking countries
#737	Greek	Greece	Almost 80%
#851	Greek	Greece	
#869	Greek	Greece	

Code Page	Name	Country	Remarks
#928	Greek	Greece	For UNIX
#2001	Lithuanian-KBL	Lithuania	Commonly used for DOS
#772	Lithuanian	Lithuania	New standard
#774	Lithuanian	Lithuania	
#3001	Estonian-1	Estonia	
#3002	Estonian-2	Estonia	Most often used
#3011	Latvian-1	Latvia	
#3012	Latvian-2	Latvia	Government standard
#3021	Bulgarian	Bulgaria	
#3031	Hebrew	Israel	
#3041	Maltese	Malta	

If your EDS settings specify Standard emulation (Bank A, Switch 1 ON) with the italic character table (Bank A, Switch 2 OFF), use the Bank E switches to select the international character set you want to use. This setting determines the assignment of 14 character codes in the Standard Italic character set.

International Character Set	SW1	SW2	SW3	SW4	SW5
U.S.A.	ON	ON	ON	ON	ON
France	OFF	ON	ON	ON	ON
Germany	ON	OFF	ON	ON	ON
England	OFF	OFF	ON	ON	ON
Denmark-1	ON	ON	OFF	ON	ON
Sweden	OFF	ON	OFF	ON	ON
Italy	ON	OFF	OFF	ON	ON
Spain-1	OFF	OFF	OFF	ON	ON
Japan	ON	ON	ON	OFF	ON
Norway	OFF	ON	ON	OFF	ON
Denmark-2	ON	OFF	ON	OFF	ON
Spain-2	OFF	OFF	ON	OFF	ON
Latin America	ON	ON	OFF	OFF	ON
Korea	OFF	ON	OFF	OFF	ON
Ireland	ON	OFF	OFF	OFF	ON
Legal	OFF	OFF	OFF	OFF	ON

BANK F

Switches 1, 2, 3, 4, 5: NLQ Font Selection

Turn these switches on or off to form the pattern that identifies the font you want to use for NLQ printing.

Font	SW1	SW2	SW3	SW4	SW5
Roman	ON	ON	ON	ON	ON
Sanserif	OFF	ON	ON	ON	ON
Courier	ON	OFF	ON	ON	ON
Prestige	OFF	OFF	ON	ON	ON
Orator	OFF	OFF	OFF	ON	ON

Note:

Bank C Switches 1 and 2 must be in the correct position before this setting has any effect.

Chapter 4: User Setup Utility

The User Setup Utility is included on the floppy disk that comes with the printer. It allows you to change the EDS settings of the printer from your computer.

To run the User Setup Utility, you need an IBM-compatible computer running PC-DOS or MS-DOS. The computer must be equipped with a 3.5" floppy drive and a hard disk drive.

In this chapter you will learn about:
☐ Installing the User Setup Utility
☐ Starting the User Setup Utility
☐ Editing setup data
☐ Loading and saving setup data
☐ Exiting the User Setup Utility and sending the settings to the printer

Important!

See the "readme.txt" file for important information that became available after this documentation was printed.

All the procedures in this chapter assume that you are using a mouse and that you are familiar with common mouse operations like click and double-click. If you need information on mouse operations, see your computer manual. If you want to operate the User Setup Utility using the keyboard instead of the mouse, follow the instructions that appear on your computer's screen.

Installing the User Setup Utility

Insert the disk that contains the User Setup Utility into one of your computer's disk drives. This explanation assumes you are using the A: drive, but you could use any drive. Just remember to change the "A:" drive name specifications in the following steps to the name of the drive you are using.
Execute the following commands to start installation of the User Setup Utility. The following commands assume you are starting from drive C:, and the floppy that contains the User Setup Utility is inserted in drive A:.
C:\>A:
A:\>CD UTILITY.
A:\UTILITY>SETUP↓

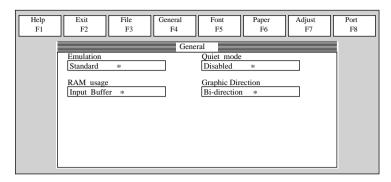
Setting for Install	
· ·	
Language:	
English	
Printer Type:	
LC-7211	
Install Directory:	
c:\star	
c. (star	
F1=Install F2=Cance	1
17-mstan 12-cance	1

Pull down the list of available languages under Language: and double-click the one you want to use.
Click the Install Directory: box to change it into an input box.
Input the drive name and directory where you want the User Setup Utility installed. Make sure to include the full path to the directory.
You can use your computer's left and right arrow keys, Delete key, and backspace key to move around the input box and make changes to the text inside it.
Click Install to install the User Setup Utility and start it up.

Starting the User Setup Utility

u	After you install the User Setup Utility, you can start it any time by moving
	to the directory you specified in the previous section and inputting the
	following:

STARSET →



When you start the User Setup Utility, it reads and displays the last settings that were sent to the printer by the utility.

Note:

The utility does not read the settings from the printer. It reads the settings from a file that was created the last time the utility was run, which are stored on your computer's hard disk. If the EDS settings (or any other settings) have been changed using the printer's control panel, those control panel settings will not be shown by the utility, and they will be replaced by the current User Setup Utility settings if you specify that current settings should be sent to the printer (page 39) when you exit the utility.

☐ Now you can use the User Setup Utility to make the setup changes you want.

You can press F1 at any time to access the on-screen help for the setup utility.

Changing the General, Font, Paper and Adjust Settings

The following are basic operations to change settings in the General, Font, Paper and Adjust windows.

To select a window

☐ Click on the name of the window you want to select (General, Font, Paper, Adjust, Port) by clicking on its name at the top of your computer's screen. When you do, the corresponding window appears on the screen. You can also select a window by pressing a function key from **F4** to **F8**.

To select a setting box

u	Click on the box you want to select or move to it by using your keyboard's
	Tab or arrow keys. The currently selected setting box is highlighted on the
	screen.

To change a setting

- After you select a setting box, click on the box or press **Enter** to pull down a list of available settings.
- Select the setting you want to use in the list by double-clicking on it, or by moving to it with the arrow keys and pressing **Enter**.

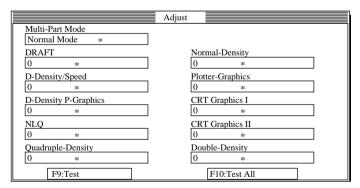
Note:

An asterisk to the right of a setting indicates that it is the default.

The settings in the General, Font, and Paper windows are identical to those in the EDS Mode. See "EDS Mode Settings" on page 25 for details.

Adjusting the dot alignment

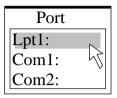
☐ Click on Adjust or press the **F7** function key.



☐ Use the above window to test and adjust the vertical alignment of the printer in each printing mode. See "Adjusting the dot alignment" on page 66 for full details on dot alignment.

Changing the printer port

☐ Click on Port or press the **F8** function key.



Select the port you want to use by double-clicking on it, or by moving to it with the arrow keys and pressing **Enter**.

Saving setup data in a configuration file

- To save setup data in a configuration file so you can recall it later, click on File or press the **F3** function key.
- □ Select Save from the menu that drops down by double-clicking on it, or by moving the highlighting to it with the arrow keys and pressing **Enter**.



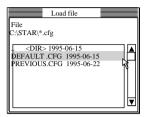
☐ Input the name that you want to assign to the configuration file and press **Enter**. The configuration is automatically stored in the directory you specified under "Installing the User Setup Utility" on page 34, and assigned the extension ".cfg".

Important!

Remember that changing User Setup Utility settings on the computer screen does not directly change them in the printer. To change the printer settings to those shown on the screen, use the Exit command (page 39).

Importing setup data from a configuration file

- ☐ Click on File or press the **F3** function key.
- Select Load from the menu that drops down by double-clicking on it, or by moving the highlighting to it with the arrow keys and pressing **Enter**.



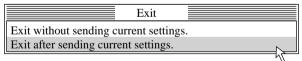
☐ Select the file that contains the configuration you want to use by double-clicking on its name, or by moving the highlighting to its name with the arrow keys and pressing **Enter**.

Returning to default settings

☐ To make all settings revert to their defaults, perform the procedure under "Importing setup data from a configuration file" in the previous section and select the file named "DEFAULT.CFG".

Exiting the User Setup Utility

To exit the User Setup Utility, pull down the File menu and select Exit.



□ Select the option you want by double-clicking on it, or by moving the highlighting to it with the arrow keys and pressing **Enter**.

"Exit after sending current settings" sends all User Setup Utility settings to the printer, which replaces any settings that may have been made using the printer's control panel. "Exit without sending current settings." exits the User Setup Utility without sending anything to the printer.

Using the Help menu

☐ To get information on how to use the User Setup Utility, click Help or press function key **F1**.

Chapter 5: Using the Printer with Windows 3.1

This chapter contains specific information you need to know when using the printer with Microsoft Windows 3.1 or later. It also tells you how to install the printer driver on your computer so that it can control the printer correctly. In this chapter, you will learn:

How to set up for printing with Microsoft Windows 3.1

How to prepare for printing

How to print a document

How to install TrueType fonts

How to select fonts from within an application

Setting up for printing with Microsoft Windows 3.1

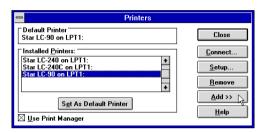
This printer is designed to work best with computers running Microsoft Windows 3.1. If you are running an earlier version of Windows, we recommend that you upgrade to 3.1.

Before you can use the printer with Windows, you must first use the procedure outlined below to install the printer driver that is supplied on the 3.5" floppy disk that comes with the printer. This procedure assumes that you are using a mouse and that you are familiar with common mouse operations like *click* and *double-click*. If you need information on mouse operations or if you want to install the printer driver without using a mouse, refer to your *Microsoft Windows User's Guide*.

- ☐ Insert the disk that contains the printer driver into one of your computer's disk drives. This explanation assumes you are using a drive named "A:", but you could use any drive. Just remember to change the "A:" in the following steps to the name of the drive you are using.
- ☐ In the Main group, double-click on the Control Panel icon.
- ☐ Double-click on the Printers icon in the Control Panel window.



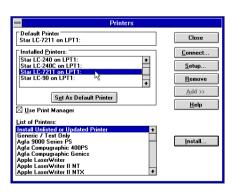
- □ Click **Add** and the dialog box will expand to show a List of Printers.
 □ In the List of Printers: box, select Install Unlisted or Updated Printer.
 □ Click **Install**.
- This causes the Install Driver dialog box to appear, which instructs you to insert the disk that contains the printer driver file.





- ☐ Click **Browse**.
- ☐ In the Directories: list, select WIN 31.
- ☐ Click on the language you want to use and then click **OK**. We will use English in all of our examples here.





☐ In the List of Printers: box of the Add Unlisted or Updated Printer dialog box, select the Star printer driver and then click **OK**.

This causes the Printers dialog box to appear. The STAR printer is now listed in the Installed Printers: list.

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	☐ Double-click on the name of the printer model you just installed to select it as the default printer.
	☐ Click Close to close the Printers dialog box.
Note	
	Windows applications automatically print on the currently selected default printer. If you want to print on a different printer, you must first select it.
Get	ting ready to print
	Before printing, there are a number of things you must first do to set up the printer. You must select the printer driver, and the paper source, size, and orientation. Use the following procedure to make these selections.
Note	·:
	You do not need to perform printer driver and paper selections mentioned above each time you print, but only if there are any changes to the last selections you made.
	☐ In the Windows Program Manager, open the Main group by clicking on its icon.
	☐ Double-click on the Control Panel icon.
	☐ Double-click on the Printers icon in the Control Panel window.
	☐ Double-click on the name of the printer model you selected above to choose it as the default printer.
	☐ Click on Setup to display the window for setting up your printer.



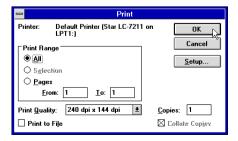
- From this window you select buttons that let you control a wide variety of printer setup parameters. This manual does not include any information about how to do this because everything you need to know is included in an on-line manual that tells you how to use all the buttons and menus that appear. To view the on-line manual, click on the **Help** button.
- After the printer is set up the way you want it, click on **OK**.
- ☐ Click on the **Close** button in the Printers window to save your setup and return to the Program Manager.

Note:

Depending on the application software you are using, settings similar to those in the above procedure can be made using the **Print Setup** command of the File menu instead of the Control Panel.

Printing a document

The following Print window appears when you select the **Print** command of the File menu of your Windows application.

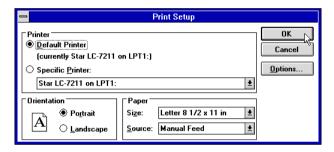


Note:

The actual appearance of the Print window may differ somewhat depending on the application you are using.

Use this window to specify the range of the pages to be printed, the quality of the printing (in dots per inch), and the number of copies you want to print. Note also that there are boxes that you can select to specify printing to a file or collating (printing from back to front).

You can change the printer setup by clicking on the **Setup** button. When you do, the following window for setting up your printer appears on the display.



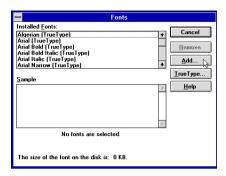
Make changes by clicking on the appropriate radio button or highlighting your selection on the appropriate pull-down menu.

Installing TrueType fonts

The TrueType fonts that are supplied on one of the 3.5" floppy disks that come with the printer can be used only when you are running Windows 3.1 or later. Use the following procedure to install the fonts.

□ Launch Windows.
 □ Close any applications that may be open.
 □ Open the Windows Control Panel.
 □ Double-click the Fonts icon and the Fonts dialog box appears.
 □ Click Add and the Add Fonts dialog box appears.





- ☐ Insert the disk that contains the fonts into one of your computer's disk drives. This explanation assumes you are using a drive named "A:", but you could use any drive. Just remember to change the "A:" in the following steps to the name of the drive you are using.
- ☐ Select the drive letter that represents where the floppy disk is installed. When you do, the names of all the fonts on the disk appear in the List of Fonts window. Select the fonts you want to install by clicking on their names. If you want to install all of the fonts, click **Select All**.
- ☐ Click **OK**. The Fonts dialog box appears and installation is performed. The names of the newly installed fonts are automatically added to the Installed Fonts list.
- ☐ If you were in an application program when you installed the new fonts, you will need to select Printer Setup from the application's File menu and reselect the printer. After that, the application can display on-screen text and print text on the printer using the newly installed fonts.

Selecting fonts in Windows applications

Refer to the manual of the application you are using for details on how to select fonts within that application.

In addition to the Windows fonts, you can also use the TrueType fonts that come with this printer.

Chapter 6: Using the printer with Windows 95

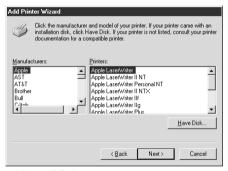
	This chapter describes how to use the printer with Microsoft Windows 95. The following topics are covered:					
	☐ Setting up the printer in Windows 95					
	☐ Preparing for printing					
	☐ Printing a document					
	☐ Installing the TrueType fonts					
Note:						
	The file "readme.txt" on the floppy disk contains any late-breaking information that has been made available since this manual was printed.					
Settin	g up the printer in Windows 95					
	To use the printer with Windows 95, you need to install a file known as the printer driver onto your computer. This file is supplied on the floppy disk that comes with the printer.					
	The following description assumes that you are using a mouse ("click" and "double-click" refer to the action of using the mouse to point at an item with the on-screen pointer, and then clicking either once, or twice in quick succession).					
	To install the printer driver under Windows 95, use the following steps:					
	☐ Turn on the printer and start up your computer.					
	☐ Click on the Start button in the bottom lefthand corner of the screen.					
	☐ Select Settings .					
	☐ Release the mouse button on Printers .					
	☐ Double-click on the Add Printer icon in the Printers window.					
	Add Printer Wizard This wizard will help you to install your printer quickly and easily. To begin installing your printer, click Next.					



☐ Click on the **Next** button.



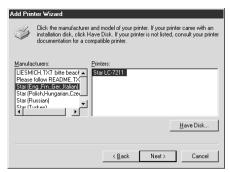
☐ When the above window is displayed, make sure the **Local printer** radio button is checked. Then click on the **Next** button twice, and click on the **Back** button.



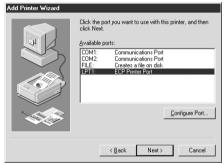
- Click on the Have Disk button.
- ☐ Insert the disk with the printer driver file on it into the floppy disk drive. Make sure that the drive's name ("A:" or "B:") is displayed in the field named *Copy manufacturer's files from*:. To select a drive name, click on the arrow by the side of the field and select the drive from the list that appears.
- ☐ Click on the **Browse** button. A list of folders on the floppy disk is displayed.



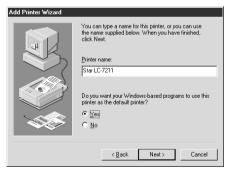
- Select "WIN95" (either by double-clicking on it or by clicking on it and clicking on the **OK** button).
- ☐ Click on the **OK** button twice.



Select the language or language group you want to use by clicking on it.
 Select the printer model name ("Star LC-7211") by clicking on it and then click on the **Next** button.



☐ Select the printer port to which the printer is connected by clicking on it (usually "LPT1"). Click on the **Next** button.



☐ Change the printer name if you want. If you have previously installed another printer, you must select whether you want the new printer to be the default printer. Click on the appropriate radio button.

Note:

Windows applications always print to the currently selected default printer, unless the user chooses a different printer from within the application.

	Click on the Next button.
	Select whether to print out a test page by clicking on the appropriate radio button.
	Click on the Finish button.
	If a message appears requesting you to insert the Windows 95 CD-ROM, insert it into the CD-ROM drive and click on the OK button.
	If a message appears saying that the printer driver file <i>LC7211.DRV</i> cannot be found on the Windows 95 CD-ROM, click on the Browse button, select the floppy disk drive's name ("A:" or "B:"), click on "WIN95" in the list of directories and click on the OK button (or double-click on "WIN95").
	Click on the OK button.
Th	is concludes the printer set-up.

Preparing to print

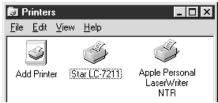
Often you can simply select the **Print** command in the application you are using, click the **OK** button, and your document will be printed out. However, sometimes you may need to change certain settings beforehand, such as the default printer, which port a printer uses, which printer driver it uses, the paper size, the paper source etc.

Settings are made by checking radio buttons, entering numbers into fields or by clicking on the arrow by the side of a field and selecting an option from the list that appears. All these settings, and how to make them, are fully explained in the *Microsoft Windows 95 User's Guide*.

Some settings, e.g. paper size and paper source, can be made within an application when you select the **Print** command (see the next section: *Printing a document*). However, settings made within an application only affect printing from that application.

To change the default printer and to make general settings that will apply to any application, proceed as follows:

- ☐ Click on the **Start** button in the bottom lefthand corner of the screen.
- ☐ Select **Settings**.
- ☐ Release the mouse button on **Printers**.



50 Using the printer with Windows 95

Double-click on the icon bearing the name of the printer (<i>Star LC-7211</i>) in the Printers window. A window appears listing any documents that are currently being printed on the printer.
Click on the Printer menu.
To set the printer as the default printer, click on the Set As Default command so that a tick mark appears in the check box. This denotes that the selected printer is the default printer.

☐ Click on the **Printer** menu and click on the **Properties** command.



☐ Click on any of the five index-card type buttons and change the parameter settings as you require. For a detailed explanation of any of the settings, click on the "?" button on the top right of the window and then click on the relevant parameter field. Click once more to clear the help message from the screen.

Note:

Paper, Graphics and **Device option** settings can also be made when you select the Print command in an application. However, settings made within an application only apply to printing from that application.

\Box Click on the <i>Close</i> (X) button on the to	p right of the Properties window.
---	--

☐ Click on the *Close* (X) button on the top right of the printer's window

This concludes the printing preparation. The printer which you selected is now the default printer, and the page size, paper source setting and any other settings which you made for the printer, apply to printing from all applications. To override these settings for a specific application, refer to the next section, *Printing a document*.

Printing a document

Note:

Windows 95 applications always print to the currently selected default printer. If you want to change the default printer, refer to the previous section, *Preparing to print*.

To print from any Windows 95 application, proceed as follows:.

□ Click on the application's File menu.

□ Click on the Print command.

The actual appearance of the Print window may differ somewhat depending on the application you are using.

□ If you do not want to use the default printer, select a different printer by clicking on the arrow by the side of the *Name* field and selecting one from the list that appears.

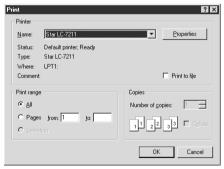
☐ Click on the **Properties** button.

☐ If you want to change any of the printing settings, for example paper size, orientation or paper source, click on the appropriate index card-type button (Paper, Graphics or Device options) and change the parameter settings as you require.

For a detailed explanation of any of the settings, click on the ? button on the top right of the window and then click on the relevant parameter field. Click once more to clear the help message from the screen.

Changes you make here apply only to printing from the current application

☐ Click on the *Close* (X) button on the top right of the window.



Select how many copies of the document will be printed by entering the
appropriate number into the Number of copies field. If you want to print all
the pages in your document, make sure that the All radio button is checked.
If you do not want to print all the pages in your document, enter the first
and last pages to print into the from and to fields.

If you want the output to be collated (each copy automatically sorted into
page order) or if you want to print to file (instead of a print-out, a graphic
file of the print-out is saved on disk), check the appropriate radio button.

☐ Click on the **OK** button.

Your document will now be printed out.

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Installing TrueType fonts

prin	Insert the disk in your computer's floppy disk drive. Click on the Start button in the bottom lefthand corner of the screen. Select Settings . Release the mouse button on Control Panel . Double-click on the Fonts folder. The currently-installed font files are displayed. Click on the Files menu.
	Click on the Install New Font command. Display the drive's name ("A:" or "B:") in the <i>Drives</i> field. To select a drive name, click on the arrow by the side of the field and select the drive from the list that appears. The names of the fonts stored on the disk are displayed in the <i>List of fonts</i> window.
	Select the fonts you wish to install by clicking on them. If you want to install all of them, click on the Select All button. Click on the OK button.
	e new fonts can now be seen in the Fonts folder window. This concludes the at installation.

Chapter 7: Using the Printer with OS/2 Warp

	OS/2 Warp. It also shows you how to install the printer driver on your computer so you can control the printer. By reading this chapter, you will learn:
	☐ How to set up for printing with IBM OS/2 Warp
	☐ How to prepare for printing
	☐ How to print a document
Import	tant!
	See the "readme. txt" file for important information that became available after this documentation was printed.
Settin	ag up for printing with OS/2 Warp Before you can use the printer with OS/2 Warp, you must first perform the
	Before you can use the printer with OS/2 Warp, you must first perform the following procedure to install the printer driver supplied on the 3.5" floppy disk
	that comes with the printer.
	Start up the OS/2 system.
	☐ Insert the floppy disk that comes with the printer into one of your computer's disk drives.
	☐ Open the floppy in icon view.
	☐ Double click on the OS2\ENG folder.
	☐ Double click on the STARDM.DR_ file.
	☐ Drag the printer driver whose name matches the name of your printer to the desktop.

Getting ready to print

There are several steps to set up the printer before using it. You must select the printer driver, and specify the source, size, and orientation of the paper. Use the following procedure to make these selections.

Note:	
	u do not need to select the printer driver and paper specifications each time u print, but only if you want to change any of your previous settings.
	Point to the printer object.
	Click mouse button 2.
	Select Settings.
	Select the Printer driver tab.
	Point to the printer driver you want to use.
	Click mouse button 2.
	Select Settings to display the Properties window for setting up your printer.
	With the Properties window, you can click on various buttons to control a wide variety of printer setup parameters. Everything you need to know about these settings is included in an on-line manual that tells you how to use all the buttons and menus that appear on your computer's screen. To view the on-line manual, select Help.
	After you get the printer set up the way you want it, select Save.

Printing a document

Select the **Print** command in the File menu of the application you are using.

Chapter 8: Using the Printer with MS-DOS

softwa Ho	This chapter contains information about how to use the printer with application software running under MS-DOS. In this chapter, you will learn about: How to set up for printing with MS-DOS				
		rom within an application			
Setting up fo	or printing with	MS-DOS			
To print from an application running under MS-DOS, you must first select th printer from within the application. Typically, the program will feature an INSTALL or SETUP command for selection of printers. Refer to the manual for the application you are using for details on how to select a printer for it. Start up the application and use the correct procedure for that application t select a printer. The following is a list of printers that can be used. If your application lists more than one of these, select the printer that is nearest to the top of this list. For these printers, you should use the EDS Mode or Use Setup Utility to select standard emulation (page 25).					
		Star LC-7211			
		Star LC-90 / NX-1010			
		Star LC-100 / NX-1040			

If none of the printers listed above are available in the application, choose one of the printers listed below. Once again, you should choose the printer that is nearest to the top in the following list. For these printers, you should use the EDS Mode or User Setup Utility to select IBM emulation (page 25).

Star LC-10 / NX-1000

Epson EX-800

Epson FX-850

Epson LX-850 / LX-810

IBM Proprinter III				
IBM Proprinter II				
IBM Proprinter				

☐ To print, follow the instructions given in the manual of the application you are using. Typically, you would select the application's PRINT command, make any necessary changes in the window that appears (such as the number of copies to be printed), and then press the **Enter** key to start printing.

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Chapter 9: Paper Handling

Your printer is designed to print on a variety of paper types. This chapter tells you everything you need to know about paper, and how to set the printer up for manual paper feed. In this chapter, you will learn about:

☐ Selecting the best type of paper

☐ Adjusting for paper thickness

☐ Manual sheet feeding

☐ Clearing paper jams

Selecting paper types

Use the following information when selecting paper.

Cut-Sheet Paper

Width: 5.5" to 12" / 140 to 305mm

Length: 5.5" to 11"/140 to 280mm (min.)

Weight (1-ply): $14 \text{ to } 42 \text{ lbs } / 52 \text{ to } 156 \text{g/m}^2 / 45 \text{ to } 135 \text{ kg}$

Multi-part: $11 \text{ to } 14 \text{ lbs} / 40 \text{ to } 52 \text{g/m}^2 / 34 \text{ to } 45 \text{ kg}$; pressure sensitive

paper

Total Thickness: 0.020" / 0.5mm

Copies: Original + 6

Fanfold Paper

Width: 4.5" to 12" / 114 to 305mm

Length: 6"/152mm (min.)

Weight (1-ply): $14 \text{ to } 22 \text{ lbs} / 52 \text{ to } 82g/m^2 / 45 \text{ to } 70 \text{ kg}$

Multi-part: $11 \text{ to } 14 \text{ lbs } / 40 \text{ to } 52 \text{g/m}^2 / 34 \text{ to } 45 \text{ kg}$; pressure sensitive

paper

Total Thickness: 0.020" / 0.5mm

Copies: Original + 6

Labels

Backing sheet: 4.5" to 12" / 114 to 305 mm

Thickness:

Backing sheet 0.0028" to 0.0035" / 0.07 to 0.09 mm

Total thickness 0.0075" / 0.19 mm

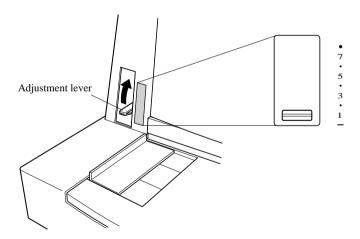
* Use labels only under normal temperature and humidity conditions.

Envelope

#10: $9.4'' \times 4.1'' / 240 \times 104 \text{ mm}$

Adjusting for paper thickness

Paper comes in different weights, normally expressed as gsm (grams per square meter) or lbs (pounds). Some types of forms have multiple pages that make them quite thick. Use the following procedure to change the gap between the print head and the platen and adjust for paper thickness.



☐ Move the adjustment lever to one of its nine settings. Position 1 is most suitable for single-sheet paper.

58 Paper Handling

The following table provides a general guide for setting the adjustment lever. Experiment with different settings until you find the one that gives you the print quality you want.

Paper Type		Weight Per Sheet	Thickness	Recommended Position
Single-sheet		14 lbs (52 gsm)	0.06 mm	1
		17 lbs (64 gsm)	0.08 mm	1
		21 lbs (81 gsm)	0.10 mm	1
			0.13 mm	1
		42 lbs (156 gsm)	0.19 mm	2
	2-ply	11 lbs (40 gsm)	0.13 mm	2
	3-ply	11 lbs (40 gsm)	0.20 mm	3
Multi port	4-ply	11 lbs (40 gsm)	0.26 mm	4
Multi-part	5-ply	11 lbs (40 gsm)	0.33 mm	5
	6-ply	11 lbs (40 gsm)	0.39 mm	6
	7-ply	11 lbs (40 gsm)	0.45 mm	7
Labels		_	_	2
Envelope (#10)		_	_	6

Continuous use of the wrong adjustment lever setting can drastically reduce print head life!

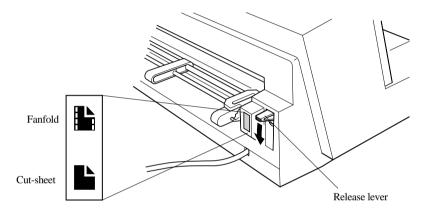
Automatic fanfold feeding

☐ See "Loading fanfold paper" on page 9 for details on using fanfold paper.

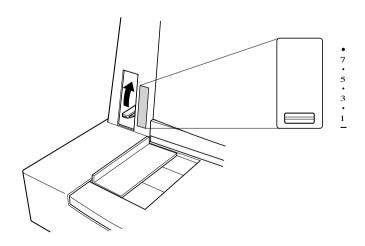
Manual sheet feeding

You can use the following procedure to manually feed cut-sheet paper into the printer.

- ☐ Make sure that there is no fanfold paper in the printer. If there is, use the procedure under "Parking fanfold paper" on page 14 to park the fanfold paper and prepare for manual sheet feeding.
- ☐ Set the release lever on the back of the printer to the cut-sheet position.



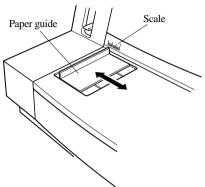
Set the adjustment lever to the value that matches the thickness of the paper you are using. The setting for normal paper is 1. Set the lever to a larger value for thicker paper, or to a smaller value for thinner paper.



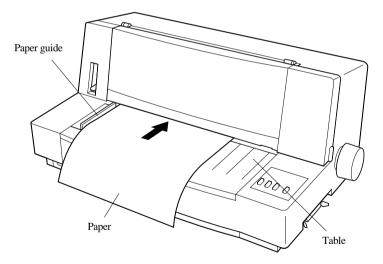
60 Paper Handling

☐ Adjust the paper guide to the position you want.

Note that the ▼ mark of the guide indicates where the left margin of the printing will be.



Making sure that the left edge of the paper is against the paper guide, insert straight a sheet of paper into the front of the printer as far as it will go. The paper will automatically be fed into the printer.



- ☐ Start the printing operation from your software application.
- After printing is complete, press **LF** while the printer is on line to eject the paper from the printer.

Note:

If you are inserting letterhead paper, insert the sheet so that it is face up with the letterhead portion up.

Clearing paper jams

Use the following procedure to clear paper jams from the printer.
☐ Turn the power off.
☐ Unplug the printer from its AC power outlet.
☐ Open the front cover of the printer.
☐ Carefully try to pull the jammed paper from the printer.
If necessary, move the release lever on the back of the printer to the fanfold position or rotate the platen knob to remove the paper.
Close the front cover of the printer.

Chapter 10: Optional Accessory

This chapter explains how to connect and set up the following optional accessory that is available for this printer:

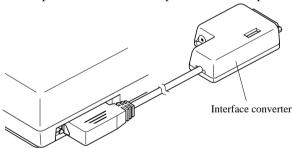
☐ Serial-to-Parallel Converter (SPC-8K)

Important!

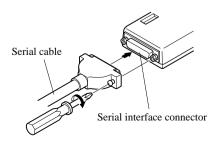
Always make sure that printer power is turned off whenever installing or removing optional accessories.

Connecting the Interface Converter

- ☐ Unplug the printer from its AC power outlet.
- ☐ Set the DIP switches on the SPC-8K to the settings you want to use before you connect it to your printer.
 - See the following section for details on how to set the DIP switches
- Plug the interface converter's Centronics connector into the socket on the side of the printer and secure it in place with the clips.



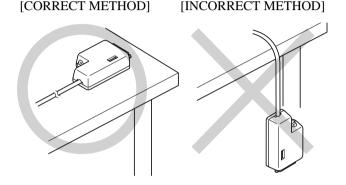
☐ Plug one end of a serial cable into the serial interface connector's 25-pin D-TYPE connector.



☐ Plug the other end of the serial cable into your computer's serial ports. Serial ports are usually marked COM1, COM 2, etc. If your computer has only one serial port, it will be marked COM1.

Important!

☐ Make sure that the serial-to-parallel converter is resting on a stable, level surface where it will not be subject to vibration or damage.



Setting the converter's DIP switches

You should set the converter's DIP switches so they match the settings you make on your computer. The table to the right shows the parameter that each DIP switch on the serial-to-parallel converter controls.

The tables below show all of the settings you can make with the serial-to-parallel's DIP switches to control certain parameters. The tables also include the matching settings you have to make in your MS-DOS AUTOEXEC.BAT file or with the Ports option of the Windows Control Panel. The highlighted cells in the tables indicate default settings for the serial-to-parallel converter.

Switch	Function		
1	Data length		
2	Parity		
3	Protocol		
4	Protocol		
5	Parity		
6	Baud rate		
7	Baud rate		
8	Baud rate		

Data Length

Switch 1	h 1 Data Length DOS/Windows Setting	
ON	8 bits	8
OFF	7 bits	7

Parity

Switch 2	Switch 5	Parity	DOS/Windows Setting
ON	ON or OFF	None	N
OFF	ON	Odd	0
OFF	OFF	Even	E

Protocol

Switch 3	Switch 4	Protocol
ON	ON	DTR
ON	OFF	XON/XOFF
OFF	ON	ETX/ACK

Baud Rate

Switch 6	Switch 7	Switch 8	Baud Rate	DOS/Windows Setting
OFF	OFF	OFF	150 bps	150
OFF	OFF	ON	300 bps	300
OFF	ON	OFF	600 bps	600
OFF	ON	ON	1200 bps	1200
ON	OFF	OFF	2400 bps	2400
ON	OFF	ON	4800 bps	4800
ON	ON	OFF	9600 bps	9600
ON	ON	ON	19200 bps	19200

Appendix A: Troubleshooting

The appendix will provide help if you experience problems with your printer. It tells you how to test the printer, how to check system software settings, and how to adjust the vertical alignment. In addition, there is information on actions to take for specific problems, and on the meanings of printer beep tones.

Warning!

The printer uses high voltage. Do not attempt any other repair or maintenance except as expressly recommended in this appendix. Unauthorized repair and maintenance not only exposes you to the danger of electrical shock, it also may damage your printer and void your warranty.

Short test

	Use the following procedure to test the printer to make sure that everything is working correctly.
	☐ Make sure that paper is loaded in the printer.
	☐ Turn off the printer.
	☐ While holding down the control panel's ON LINE button, turn the printer back on.
	This test prints the version number of the software contained in the printer's ROM followed by the current EDS settings.
	☐ To stop demo printing, turn the printer off.
Long t	est
	Use the following procedure to test the printer to make sure that everything is working correctly.
	☐ Make sure that paper is loaded in the printer.
	☐ Turn off the printer.
	While holding down the control panel's LF button, turn the printer back on. This test prints the title and seven lines of text, and then continues to print the entire character set for each font and pitch available.
	To stop demo printing, turn the printer off.

Λ	I	1	0	
/ \	"	"	v.	ď

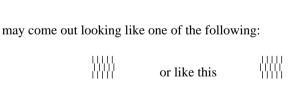
Test printing prints across the entire width of the carriage. Make sure that the printer is loaded with the widest paper available in order to avoid damage to the print head and platen.

Hexadecimal dump

con exe	s procedure prints in hexadecimal format all codes (character codes and trol codes) that are sent to the printer by the computer. The printer does not cute any control codes (such as 0A - linefeed), it just prints them out. The adecimal dump is useful when you are writing programs for printer control
	Make sure that paper is loaded in the printer.
	Turn off the printer.
	While holding down the control panel's FONT and MODE buttons, turn the printer back on to enter the Hex Dump Mode.
	To exit the Hex Dump Mode, turn the printer off.

Adjusting the dot alignment

You may never have to use the procedure described in this section, but after you have been using your printer for some time you may find that the dots of some graphics do not align correctly. For example, what should look like:



This is caused when mechanical parts of the printer get out of alignment. This happens only rarely and you may never experience it at all throughout the life of the printer. If you do have problems, use the following procedure to correct it.

Make sure that paper is loaded in the	printer
Turn off the printer.	

While holding down the control panel's LF and ON LINE buttons, turn the printer back on to enter the Dot Adjustment Mode. The printer will print something like the following.
*** DOT ADJUSTMENT SETTING *** DRAFT 0:
Note that the printer will feed the paper forward and back each time during this operation so you can view the printout.
If the three lines do not align properly, use FONT to move the middle line to the left or MODE to move it to the right.
The above step performs alignment for DRAFT mode only. You must make separate adjustments for the D-DENSITY/SPEED, D-DENSITY P-GRAPHICS, NLQ, QUADRUPLE-DENSITY, NORMAL-DENSITY, PLOTTER-GRAPHICS, CRT GRAPHICS-I, CRT GRAPHICS-II, and DOUBLE-DENSITY modes as well.
Press LF to change to another printing mode.
Repeat the above steps for each printing mode, if necessary.
After making changes to the adjustments, press ON LINE to exit the Dot Adjustment Mode and register your adjustments.

Troubleshooting guide

Use the following table to help track down the causes of problems and to determine the best solution to deal with them.

Problem	Possible Cause	Recommended Action	
The ON LINE indicator does not light.	The printer is not receiving power.	Check whether the power cord is correctly plugged into the power outlet.	
		Check whether the power outlet is working by unplugging the printer and plugging in another device.	
Printer sounds like it is printing, but it is not. Printing is weak.	The ribbon is jammed, twisted, or not set correctly between the print head and the print head shield.	Make sure that the ribbon cassette is installed correctly.	
	The printer is not set up correctly for the thickness of paper you are using.	Set up the printer for the paper thickness you are using. See "Adjusting for paper thickness" on page 57.	
	The ribbon is worn out or "used up."	Replace the ribbon with a new one.	
Printer test works, but printer will not print out data from the attached computer.	The wrong emulation is selected.	Check the emulation selection and change it if necessary. See page 25.	
	Your application program's or system software's printer selection is wrong.	Check the printer selection of your application software.	
	The computer's system software is not set up properly for the printer or for the port you are using.	Check the system software settings. Check the settings for LPT1, COM 1, or COM 2 if you are using the SPC-8K Serial Interface.	

Problem	Possible Cause	Recommended Action
Printer test works, but printer will not print out data from the attached computer.	The interface cable is connected incorrectly or damaged.	Check to make sure that the printer interface cable is connected correctly. If it is, try a different cable.
Printer does not feed paper properly.	Jamming paper.	Remove all paper from the printer and then reload it.
	The printer is not set up correctly for the thickness of paper being used.	Set up the printer for the paper thickness you are using. See "Adjusting for paper thickness" on page 57.
Line spacing is incorrect.	Jamming paper.	Set up the printer for the paper thickness you are using. See "Adjusting for paper thickness" on page 57.
	The line spacing or leading selected in your application program is wrong.	Choose a different line spacing or leading setting from your application.
	Auto line feed with carriage return is enabled.	Use the EDS Mode or the User Setup Utility to disable auto line feed with carriage return (page 26).
Lines print over each other.	Auto line feed with carriage return is disabled.	Use the EDS Mode or the User Setup Utility to enable auto line feed with carriage return (page 26).
	Jamming paper.	Set up the printer for the paper thickness you are using. See "Adjusting for paper thickness" on page 57.

Problem	Possible Cause	Recommended Action	
Incorrect number of lines are printed on the page.	Auto line feed with carriage return is enabled.	Use the EDS Mode or the User Setup Utility to disable auto line feed with carriage return (page 26).	
	The line spacing or leading selected by your application program is wrong.	Choose a different line spacing or leading setting from your application.	
	Dot adjustment is not correct.	See "Adjusting the dot alignment" on page 66.	
Text and graphics are malformed.	The ribbon is worn out or "used up."	Replace the ribbon with a new one.	
Print quality is poor.	The printer is not set up correctly for the thickness of paper being used.	Set up the printer for the paper thickness you are using. See "Adjusting for paper thickness" on page 57.	
	The print head is damaged.	Return the printer to your dealer for repair.	
Forms are smudged. Printing is too dark.	The printer is not set up correctly for the thickness of paper being used.	Set up the printer for the paper thickness you are using. See "Adjusting for paper thickness" on page 57.	
	The ribbon is jammed, twisted, or not set correctly between the print head and the print head shield.	Make sure that the ribbon cassette is installed correctly. See "Installing the ribbon cassette" on page 5.	
	Print head shield is damaged or missing.	Return it to your dealer for repair.	

Problem	Possible Cause	Recommended Action
Printer case is hot.	The printer's air vents are blocked or obstructed.	Switch off the printer and let it cool. Check the air vents on the bottom of the printer to see if they are blocked. Remove the obstruction if possible. If the problem persists, return the printer to your dealer for repair.
Printer makes excessive	The front cover is removed.	Replace the front cover.
noise.	The printer is vibrating.	Move any objects that are touching the printer.
		Make sure that the printer is on a level steady surface.
Printer prints past the edge of the paper.	Incorrect margin settings are selected by your application program.	Choose different margin settings from your application program.
	The paper guide is not positioned correctly.	Remove the paper and adjust the position of the paper guide. Reload the paper and try printing again.
	The ribbon is jammed, causing the print head to jam.	Make sure that the ribbon cassette is installed correctly. See "Installing the ribbon cassette" on page 5.
	Paper is jamming, causing the print head to jam.	Remove all paper from the printer and reload it. Try printing again.
		Set up the printer for the paper thickness you are using. See "Adjusting for paper thickness" on page 57.

Problem	Possible Cause	Recommended Action
Left margin moves to the right during printing.	The paper is not loaded correctly, causing the print head to jam.	Remove all paper from the printer and reload it. Try printing again.
	The ribbon cassette is not installed correctly, causing the print head to jam.	Make sure that the ribbon cassette is installed correctly. See "Installing the ribbon cassette" on page 5.
	The printer is not set up correctly for the thickness of paper being used.	Set up the printer for the paper thickness you are using. See "Adjusting for paper thickness" on page 57.
	Inappropriate settings are selected by your application program.	Choose different settings in your application.
	Static electricity caused by interference from nearby electrical devices or by low-level humidity is affecting printer operation.	Make sure that the printer is not too close to any devices with electric motors or that raise the humidity level.
Some characters are printed incorrectly.	The wrong emulation is selected.	Check the emulation selection and change it if necessary. See page 25.
	The wrong character table, code page, or international character set is selected.	Use the EDS Mode or the User Setup Utility to select the correct character table, code page, or international character set (page 28).
	Static electricity caused by interference from nearby electrical devices or by low-level humidity is affecting printer operation.	Make sure that the printer is not too close to any devices with electric motors or that raise the humidity level.

Problem	Possible Cause	Recommended Action	
Some characters are printed incorrectly.	Inappropriate settings are selected by your application program.	Choose different settings in your application.	
	Wires are missing from the print head.	Return the printer to your dealer for repair.	
Printer behaves erratically. Printing suddenly stops.	The interface cable is connected incorrectly or damaged.	Check to make sure that the printer interface cable is connected correctly. If it is, try a different cable.	
	Static electricity caused by interference from nearby electrical devices or by low-level humidity is affecting printer operation.	Make sure that the printer is not too close to any devices with electric motors or that raise the humidity level.	

Checking system software settings in Windows

Whenever you have problems printing from a Windows application, you should check the following four things:

- ✓ Is the printer you are using set as the default printer?
- ✓ Is the drive setup correctly?
- ✓ Is the printer you are using correctly selected in your application?
- ✓ Is the correct port selected?

You should also refer to your *Microsoft Windows User's Guide* for other information that might be helpful. If you still experience problems, consult your software dealer.

То	check	the	default	printer	selection
----	-------	-----	---------	---------	-----------

_	
	Double-click the Printers icon.
	Check to see that the name of your Star printer is the default printer. If it is not, double-click on the name of your printer in the list of installed printers.
	Click on Close to return to the Control Panel window.
Γo check 1	the Driver Setup
_	Double-click the Control Panel icon in the Main window.
'	Double-chick the Control Panel icon in the Main Window.
	Double-click the Printers icon.
	Double-click on the name of your Star printer in the list of installed printers.
	Click on Setup .
	Check resolution, paper source, etc.
	Click OK.
	Click on Close to return to the Control Panel window.

Double-click the **Control Panel** icon in the Main window

IO CHECK I	ne application printer selection
	Select Print from the application's File menu, and a window appears listing available printers.
	Check to see that the name of your Star printer is selected. If it is not, select it and try printing from your application again.
To check t	he port
	Double-click the Control Panel icon in the Main window.
	Double-click the Printers icon.
	Double-click on the name of your Star printer in the list of installed printers.
	Click on Connect .
	Make sure that your printer cable is connected to the port highlighted in the list of ports.
	If you are using a parallel cable, you will probably be using LPT1. If you are using the optional serial-to-parallel interface converter, you should be using COM1 or COM2. Click on the correct port name.
	Click OK .
	Click on Close to return to the Control Panel window.

Checking system software settings in MS-DOS

If you are using a parallel cable and cannot print a text file using the MS-DOS PRINT command, you may have a problem with your AUTOEXEC.BAT file. Open the file and look for the following line:

MODE LPT1:=COM1 or MODE LPT1:=COM2

These lines indicate you are using a serial cable connection, and so you should delete them, save the AUTOEXEC.BAT file, reboot and try printing again.

Of course, if you are having problems printing with the optional serial-toparallel converter, you should conversely check to make sure that one of the above lines is included in your AUTOEXEC.BAT file. The file must also contain information on parameter settings. For details, see the user's manual that comes with the optional Serial-to-Parallel Interface Converter.

If the above is not the problem or if you make the above changes and still experience problems printing using the MS-DOS PRINT command, refer to your MS-DOS Users' Guide or consult your software dealer.

If you are successful in printing using the MS-DOS PRINT command but cannot print from an application, check to see what printer driver is selected in the application. See "Setting up for printing with MS-DOS" on page 55. If this does not help, consult your software dealer.
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Appendix B: Specifications

Printing System	Serial Impact Dot-Matrix					
Printing Speed	Pitch	Draft (cps/dpi)	NLQ (cps/dpi)			
	Pica (10 cpi)	225/120H	56/240H			
	Elite (12 cpi)	270/120H	67/240H			
	Condensed pica (17 cpi)	191/240H	95/240H			
	Condensed elite (20 cpi)	225/240H 112/240H				
	H: half-dot					
Print Direction	Draft:	Bi-directional logic seeking				
	NLQ:	Uni-directional/bi-directional lo	ogic seeking (selectable)			
	Bit-Image:	Uni-directional/bi-directional lo	ogic seeking (selectable)			
Print Head	Number of pins:	9				
	Life:	200 million dots/pin (adjustme 100 million dots/pin (adjustme	'			
Line Spacing	1/6", 1/8"					
	7/72", n/72", n/216": softv	vare				
Character Matrix	Pitch	Draft	NLQ			
	Pica (10 cpi)	9×11H	18 × 23H			
	Elite (12 cpi)	9 × 9H	18 × 19H			
	Condensed pica (17 cpi)	9×11H	18 × 12H			
	Condensed elite (20 cpi)	9 × 9H	18×10H			
	H: half-dot					
Environment	Operating temperature:	41°F to 95°F (5°C to 35°C)				
	Storage temperature:	–22°F to 149°F (–30°C to 65°	°C)			
	Operating humidity:	30% to 80% (noncondensing)				
	Storage humidity:	20% to 90% (noncondensing)				
Paper	Cut-sheet					
	Paper width:	5.5" to 12" / 140 to 305 mm				
	Paper length:	5.5" to 11"/ 140 to 280 mm				
	Paper weight (1-ply):	14 to 42 lbs / 52 to 156 g/m ² /	•			
	Multi-part:	11 to 14 lbs / 40 to 52 g/m ² / 3 sensitive paper	34 to 45 kg; pressure			
		Total thickness: 0.020"/0.5mm	1			
	Copies:	Original + 6				
	Fanfold					
	Paper width:	4.5" to 12" / 114 to 305mm				
	Paper weight (1-ply):	14 to 22 lbs / 52 to 82 g/m ² / 4	-			
	Multi-part:	11 to 14 lbs / 40 to 52 g/m ² / 3 sensitive paper	34 to 45 kg; pressure			
		Total thickness: 0.02" / 0.5mm	1			
	Copies:	Original + 6				

Labels

Backing sheet: 4.5" to 12" / 114 to 305 mm

Thickness:

Backing sheet 0.0028" to 0.0035" / 0.07 to 0.09 mm

Total thickness 0.0075" / 0.19 mm max.

Envelope

#10 9.4" × 4.1" / 240 × 104 mm

Emulation Standard Mode: EPSON ESC/P (9-pin)

IBM Mode: Proprinter III

Interface Standard: Centronics parallel

Option: RS-232C serial

Ribbon Type On-carriage, dedicated

Fabric monochrome ribbon (Black only)

Z9HD: Standard type

LZ9: Long life type (option)

Ribbon Life Z9HD: 2 million characters (ASCII draft)

LZ9: 4 million characters (ASCII draft)

Dimensions and Weight Width: 20.67" / 525 mm

Depth: 14.57" / 370 mm Height: 9.06" / 230 mm

Weight: 16.1 lbs. / 7.3 kg

Power Supply 120V AC +10%/-17%, 230V AC +14%/-13%; 50/60Hz (depending on country of

purchase)

Power Consumption 10W during stand-by

31W during ASCII draft printing

Options SPC-8K Serial-To-Parallel Converter

Appendix C: Interface Pin Outs

Parallel Interface

Pin	Name	Function
1	STROBE	Goes low for ≥0.5μs when active.
2	DATA0	These signals represent information for the 1st through 8th bit of parallel data,
3	DATA1	respectively. Each signal is HIGH when data is logical 1, and LOW when logical
4	DATA2	0.
5	DATA3	
6	DATA4	
7	DATA5	
8	DATA6	
9	DATA7	
10	ACK	10μs low to acknowledge receipt of data.
11	BUSY	Printer sets line low when ready to receive data.
12	PAPER	High when paper runs out.
13	SELECT	High when printer is on-line.
14	AFXT	Printer ignores this signal.
15		Not used.
16	SIGNAL GND	Signal ground
17	CHASSIS	Chassis ground (isolated from signal ground)
18	+5V	+5V DC output from printer
19 - 30	GND	Twisted pair ground return
31	RESET	Printer is reset when this signal goes low.
32	ERROR	Low when printing cannot continue due to error.
33	EXT GND	External ground
34 - 35		Not used
36	SELECTIN	Printer ignores this signal.

Optional Serial Interface

Pin	Name	Function							
1	GND	Printer chassis ground							
2	TXD	Data from printer							
3	RXD	Data to printer							
4	RTS	Always space							
5	CTS	CTS Space when computer is ready to send data. Printer ignores this signal.							
6		Not used.							
7	GND	Signal ground							
8 - 10		Not used.							
11	RCH	Printer sets line to space when ready to receive data. Same signal as Pin 20.							
12 - 19		Not used.							
20	DTR	Printer sets line to space when ready to receive data.							
21 - 25		Not used.							

Appendix D: Character Sets

Standard Italic Character Set

	0 1	2	3	4	5	6	7	8	9	A	В	С	D	E	F
0	(MOL)		0	(ĝ	P	,	р	à	S		0	Ø	P	•	р
1	(DC) !	1	Α	Q	a	q	è	B	!	1	A	Q	ā	q
2	(DC)) "	2	В	R	b	r	ù	Æ	31	2	B	R	b	r
3	(DC	#	3	С	S	C	ន	Ò	æ	#	3	C	S	C	s
4	(DC	\$	4	D	T	d	t	Ì	Ø	\$	4	D	T	d	t
5		%	5	E	U	е	u	•	Ø	8	5	E	U	e	u
6		&	6	F	V	Ĩ	V	£		&	6	F	V	Í	v
7	(REL)	ť	7	G	W	g	W	i	À	,	7	G	W	g	W
8	(BS) (CA)	(8	Н	Χ	h	х	i	Ö	(8	Н	Χ	h	x
9	(HT) (EM)	9	I	Y	i	У	Ń	Ü)	9	I	Y	i	y
A	(LF)	*	:	J	Z	j	z	ñ	ä	ж	:	J	Z	j	z
В	⟨VT⟩ ⟨ES(;> +	;	K	[k	{	Ø	ö	+	;	K	[k	{
С	(FF)	,	<	${ m L}$	\	1	1	$P_{\!\!t}$	ü	,	<	L	\	1	1
D	(CR)	-	=	М]	m	}	Å	É		=	М	1	m	}
E	(50)		>	N	^	n	~	å	é		>	N	^	\boldsymbol{n}	~
F	(SI)	/	?	0		0	(DEL)	Ç	¥	/	?	0	_	0	

International Character Set

The character codes shown in the table are hexadecimal.

C	22	24	40	E0	E 7	ED	EC	ED.	GT?	60	רודי	70	חבי	200
Conuntry	23	24	40	28	AC	5B	30	עכ	JE.	00	/5	/\	70	/L
U.S.A.	#	\$	@	Χ	Z	[\]	^	~	{	1	}	~
FRANCE	#	\$	à	Х	Z	۰	Ç	S	^	`	é	ù	è	••
GERMANY	#	\$	S	Х	Z	Ä	Ö	Ü	^	`	ä	ö	ü	ß
ENGLAND	£	\$	@	Х	Z	[\]	^	`	{	;	}	~
DENMARK 1	#	\$	Ģ	Х	Z	Æ	Ø	Å	^	~	æ	ø	å	~
SWEDEN	#	Ħ	É	Χ	Z	Ä	Ö	A	Ü	é	ä	ö	å	ü
ITALY	#	\$	@	Χ	Z	٥	\	é	^	ù	à	Ò	è	ì
SPAIN 1	R	\$	@	Χ	Z	i	Ñ	Ė	^	-	••	ñ	}	~
JAPAN	#	\$	@	Χ	Z	[¥]	^	~	{	1	}	~
NORWAY	#	Ø	É	Χ	Z	Æ	Ø	Å	Ü	é	æ	Ø	å	ü
DENMARK 2	#	\$	É	Χ	Z	Æ	Ø	A	Ü	é	æ	ø	å	ü
SPAIN 2	#	\$	á	Χ	Z	i	Ñ	Ś	é		ĺ	ñ	Ó	ú
LATIN AMERICA	#	\$	á	Х	Z	i	Ñ	ż	é	ü	í	ñ	Ó	ú
KOREA	#	\$	@	Х	Z	[₩]	^	`	{	ť	}	~
IRELAND	#	\$	@	Ú	r	[\]	^	`	A	É	Ó	.~
LEGAL	#	\$	S	χ	Z	٥	1	11	1	-	0	8	+	TM

IBM Character Set #2 Code Page #437 (IBM-PC)

	0	1	2	3	4	5	6	7	8	9	A	В	С	D	E	F
0	(NUL)			0	@	Р	,	р	Ç	É	á	III	L	Ш	α	=
1	〈 [)C1>	1	1	A	Q	ā	q	ü	æ	í	*	1	Ŧ	β	±
2	(I)C2>	11	2	В	R	b	r	é	Æ	Ó	***************************************	т		Γ	≥
3	♥ (1)C3>	#	3	С	S	C	ຮ	â	ô	ú	Ϊ	ŀ	I	π	≤
4	♦ ⟨[)C4>	\$	4	D	Τ	d	t	ä	ö	ñ	4	-	Ł	Σ	ſ
5	4	S	8	5	E	U	е	u	à	Ò	Ñ	4	+	F	σ	j
б	±		&	6	F	V	f	V	å	û	₫	Í	ŧ	π	μ	÷
7	(BEL)		1	7	G	W	g	W	Ç	ù	Q	77	Ĥ	#	au	≈
8	<bs> <0</bs>	'AN'	(8	Н	Χ	h	x	ê	ÿ	ځ	ä	Ī	Ŧ	Φ	٥
9		M >)	9	Ι	Y	i	У	ë	Ö	_	1	Ī	j	Θ	•
A	(LF)		*	:	J	Z	j	Z	è	Ü	_	ij	罪	Γ	Ω	-
В	< VT > < F	SC>	+	;	K	[k	{	ï	¢	35	ä	īī	Ė	δ	4
C	(FF)			<	L	\	1	;	î	£	⅓	ij	Ï	_	∞	n
D	(CR)		_	=	M]	m	}	ì	¥	i	П	=	Ī	Ø	2
E	(50)			>	N	^	n	~	Ä	R	≪	4	ii.	ī	€	•
F	(SI)		/	?	0		0	(DEL)	A	£	>	7	Ī	•	Λ	

Character Set #1

Other characters are the same as those for Character Set #2.

	0	1
0	(NUL)	
1		
2		(DC1)
3		(DC2)
4		(DC3)
5		(DC4)
6		
7	(BEL)	
8	⟨BS⟩	(CAN)
9	(HT)	(EM)
A	(LF)	
В	⟨VT⟩	(ESC)
C	(FF)	
D	(CR)	
Ε	⟨\$0⟩	
F	(SI)	

	8	9
0	(NUL)	
1		
2		(DC1)
3		(DC2)
4		(DC3)
5		(DC4)
б		
7	(BEL)	
8	⟨BS⟩	(CAN)
9	(HT)	(EN)
Α	(LF)	
В	⟨VT⟩	(ESC)
С	(FF)	
D	(CR)	
E	⟨\$0⟩	
F	(SI)	

IBM Special Character Set

The following characters can be printed using the <ESC> ^ command.



Code Page #860 Portuguese

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	Ε	F
0	Ç	É	á	111	Ļ	щ	α	=
	ü	À	í	*	j.	Ŧ	β	<u>+</u>
2	é	È	ó	×	т	İ	Γ	2
3	â	È	ú	Ĩ	Ŧ	ΪĹ	$\Gamma = \pi$	≤
4	Ç ü é a ã	õ	ó ú ñ	i	_	F	Σ	ſ
5	à	Ò	Ñ	4	+ + + + + + + + + + + + + + + + + + + +	F	σ	= ± ≥ ≤ ∫ ÷ ≈ .
6	Á	Ú	₫	Ü	Ė	Ī	μ	÷
7	à Á Ç ê Ê	ù	<u>a</u> o : ㅇ ㄱ ½		Ĥ	###	σ μ τ	*
8	ê	Ì	¿	Ä	ΪĪ	Ŧ	Φ	
9	Ê	Õ	Ò	#	F	j	θ	•
Α	è	Ü	_	Ï	<u>IT</u>	г	Ω δ	-
В	è Í Ô	¢	1/2	ï	ΤĒ	Ţ	δ	- と。
С	Ô	¢ £	4			_	∞	n
D	ì	Ù	⅓ i	Ħ	≕	Ī	Ø	2
123456789ABCDEF	Ã	R	«	7	背	Ī	€	
F	Â	Ó	≫	1	ï		Λ	

Code Page #850 Multi-lingual

Other characters are the same as those for Code Page #437.

		_						
	8	9	A	В	С	D	Ε	F
0	Ç	É	á	##	Ĺ	ð	Ó	-
1	ü	æ	1	*	1	Ð	β	±
2	é	Æ	Ó	ä	т	Ê	Ô	
3	â	ô	ú	Ĩ	F	Ë	Ò	= ¾
4	ä	ö	ñ	i	÷	È	õ	¶
5	à	Ò	Ñ	Á	† ã	1	Õ	S
6	å	û	₫	Â	å	Í	μ	÷
7	Ç	ù	0	À	Ã	Î	þ	٥
8	Ç ê	ÿ	ż	©	ΙŢ	Ï	Þ	a
9	ë	Ö	Ø	41	F	7	Ú	
Α	è	Ü	-1		Ĩ	г	Û	-
В	ï	Ø	14	ï	īī		Ù	1
C	î	£	14]	1		Ý	3
D	ì	Ø	i	¢		-	Y	2
0123456789ABCDEF	Ä	Χ	∢	¥	ij	Ì	-	
F	A	£	≫	1	¤		1	

Code Page #861 Icelandic

	8	9	A	В	С	D	Ε	F
0	Ç	É	á	***	L	π	α	Ш
1	Ç ü é	æ	1	*	Τ	Ŧ	β	# + ^ \ \ + * * •
2	é	Æ	Ó	ä	т		Γ	<u>></u>
3	â	ô	ú	Ĩ	下十一十十十二	I	П	≤_
4	ä	ö	Á	ł	÷	F	Σ	ſ
5	à	þ	Í		+	F	Σ	j
6	å	û	Ó	Ì	ŧ		μ	÷
7		Y	Ú	11	Ĥ	##	au	≈
8	ç ê	Y Ý	ż	ä	Ü	Ŧ	Φ	
9	ë	Ö	-	1	Iī	į	θ	· - 4 c
Α	è	Ü	⊢ ¬ ⅓	ii	<u> </u>	г	Ω	-
В	Ð	Ø	1/2	7	îî	Ī	δ	1
С	ð	£	14			_	∞	n
D	Þ	Ø	ī	Ш		Ī	Ø	2
123456789ABCDEF	Ä	R	\ll	7	#	1	€	
F	A	£	≫	7	ä		Π	

Code Page #863 Canadian French

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	Е	F
0	Ç	É	ļ	III	L	ш	α	=
	ü	È	1	*	Τ	Ŧ		±
2	é	Ê	Ó	ä	т	π	Γ	<u>></u>
3	â	ô	ú 	Ĩ	Ŧ	I	β Γ π	± △ ✓
4	Â	Ë	••	į	÷	F	Σ	ſ
5	à	Ϊ	٠	į	+	F	σ	j
6	à ¶ Çê	û	3	Ì	+ 4-41	π	μ	<u> </u>
7	ç	ù		ī	Ĥ	###	au	*
8	ê	π	Î	ä	<u>įį</u>	Ŧ	Φ	
9	ë	Ô	3 一 Î 一 ½ ¼		ſř	j	θ	- ~ ~
Α	è î î	Ü	-	ii	Ī	г	Ω δ	-
В	ï	¢	1/2	ä	īī		δ	1
C	î	¢ £	4	ᆁ		_	00	n
D		Ú	34			Ī	Ø	2
123456789ABCDEF	À	Û	34 ≪ ≫	Ŧ	艼	Ī	€	•
F	S	£	>	7	ï	á	n	

Code Page #866 Russian

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
0	A	P	a	Ш	L	щ	p	Ë
1	Б	C	б	*	T	Ŧ	С	ë
2	В	T	В	×	Т		\mathbf{T}	Э
3	Г	У	Γ	Ĩ	Ŧ	I	У	ϵ
1 2 3 4 5	Д	Φ	Д	4	÷	F	ф	Ϊ
5	E	X	е	1	+	F	X	ï
6 7	Ж	Ц	Ж	1	F		Ц	y
	3	Ч	3		+	T###_	ч	Ў
8	И	Ш	N	TI 7	ΪŢ	Ŧ	Ш	۰
9	И	Щ	Й	il.	ΙĒ	ز	Щ	•
Α	К	Ъ	к	Ü	1	1	ъ	-
В	JI	Ы	Л		ΤĒ	Ì	ы	1
С	M	Ъ	M]	TT -	-	Þ	N ₀
D	H	Э	H	11	=	Ī	Э	Ø
E	0	Ю	0	킈	背	Ī	Ю	
F	П	Я	П	1	ï		Я	

Code Page #865 Nordic

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	Ε	F
0	Ç	É	á	Ш	L	ш	α	≡
1	ü	æ	í	*	Ŧ	Ŧ	β	±
2	é	Æ	Ó	¥	т	π	Γ	2
3	â	ô	ú	ĩ	T F	I	777	≤
4	â	ö	ñ	ł		F	Σ	ſ
5	à	ò	Ñ	- 1 = =	+-4-42	F	σ	>! <
6	å	û	<u>a</u>	İ	Ė		μ	÷
7	ç		a O : C 「 7 ½		Ĥ	###	au	≈
8	ê	ù ÿ	خ	ä	ĬĬ.	Ë	Φ	۰
9	ë	Ö	_	F 11-11-11	lī	j	Θ	•
Α	è	Ü	7	Ï	ĪŢ	г	Ω	-
В	è	Ø	1/2	ï	īī		δ	4
C	î	£	4	1][} }	_	ω	n
D	ì	Ø	i	П		Ī	Ø	2
0 1 2 3 4 5 6 7 8 9 A B C D E F	Ä	R	≪	7	<u>#</u>	Ī	€	•
F	Å	£	Ø	1	<u>:</u>		Ω	

Code Page #3840 IBM-Russian

	8	9	A	В	С	D	Е	F
0	Α	P	a	Ш	L	ш	р	Ξ
	Б	С	б	*	1	Ŧ	С	±
2	В	T	В	*	т		T	2
3	Γ	У	Γ	Ĩ	Ŧ	I	У	≥ <
4	Д	Φ	Д	1	÷	Ł	ф	ſ
5	E	X	е	1	+	F	X	j
б	Æ	Ц	Ж	Ĥ	F		Ц	÷
7	3	Ч	3	'n	į	T##+	ч	≈
8	И	Ш	И	Ë	Ϊŗ	Ŧ	Ш	۰
9	И	Щ	Й	T T	<u> </u>	j	Щ	•
Α	К	Ъ	к	Ï	<u> 11.</u>	Г	ъ	-
В	Л	Ы	Л		īī	İ	Ы	1
С	M	Ь	M	<u>ii</u>	Ĭſ	_	ь	n
1 2 3 4 5 6 7 8 9 A B C D E F	Η	Э	H	П	=	ſ	Э	2
Ε	0	Ю	0	4	背	Ī	Ю	
F	Π	Я	П	7	ï		Я	

Code Page #3841 Gost-Russian

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	Е	F
0	F	F		0	ю	П	Ю	Π
1	Э	Ξ	!	1	a	Я	Α	Я
2	ë	Ë	11	2	б	p	В	Ρ
3	ĺ	Ι	#	3	Ц	С	Ц	С
4	ï	Ϊ	Ø	4	Д	Т	Д	\mathbf{T}
5	j	J	%	5	е	У	\mathbf{E}	У
6	Ж	K	8.	6	ф	Ж	Φ	Æ
7	9	0	t	7	Γ	В	Γ	В
8	ÿ	ÿ	(8	X	ъ	X	Ъ
9	Y	Y)	9	И	ы	N	Ы
A	Ŋ,	X,	*	:	Й	3	И	З
В	H	H,	+	;	к	Ш	К	Ш
C	W	Ч	,	<	Л	Э	Л	Э
D	प्	Ч	-	=	M	Щ	M	Щ
E	€	Э	,	\rightarrow	H	ч	Η	Ч
F	£	Ъ	/	?	0	ь	0	0

Code Page #3844 CS2

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	Е	F
0	Č	É	á		L	ш	α	=
	ü	ž	í	*	1	Ŧ	β	±
2	ü é ď ä	Ž Ĉ ô		×	т	Ī	Γ	± ≥ ≤ ∫ ÷ ≈ •
3	ď₹	ô	ú	Ĩ	ŀ	ii	П	<u><</u>
4	ä	ö	ó ú ň	ł	-	F	Γ π Σ	ſ
5	Ď	Ó	N		T+-+===	F	σ	j
6	Ď Ť č ě	ů	Ů	Ì	ŧ	+++	μ	÷
7	č	U	Ô	ï	Ĥ	₩	au	≈
8	ĕ		ô ř ŕ	ä	<u>i.</u>	Ŧ	Φ	
9	Ĕ	Ý	ř	i	lī	į	θ	- - - - - - - - - - - -
Α	Ľ	Ü	ŕ	ii	<u>[[</u>	г	Ω	-
В	É L I	S	Ŕ	ï	Ŧ	1	δ	1
С	ľ	Ľ	4		Ïŧ	_	ω	n
D	I	Y	S	П		Ī	Ø	
123456789ABCDEF	A A	Ř	≪	4	韭	1	€	
F	Á	ť	>	7	Ţ	Ė	N	

Code Page #3843 Polish

Other characters are the same as those for Code Page #437.

	8	9	A	В	C	D	Е	F
n	С	Ę	7.	:::	L	ш	α	=
1	ü		Z	**			β	+
2	é	ł	ó	*	_	į.	Г	_
3	â	ô	Ó	*	L	II II	π	_ <
4	ä	ö	ń	4	_	Ł	Σ	r
5	à	e 1 6 6 6 û û \$ 6 0	N	. 나 바 에 얼마 하나 하는데 그런 나 나 나 나 나 나 나 나 나 나 나 나 나 나 나 나 나 나	1 T-1- + #	F	σ	= ± ≥ ≤ - - ÷ ≈ •
6	ą	û	ź	4	F	F	μ	÷
7	ç	ù	Ż	11	Ĥ	#	au	≈
8	ê	Ħ	S	7	ĬĹ.	#	Φ	
9	ë	ö	_	4	F	j	Θ	• - \forall 0
A	è	Û		ij	Ī	г	Ω	-
В	ï	zł	1/2	ï			δ	1
C	î	Ł	1/4	ij	ji.	_	∞	n
D	Ć	¥	i	П	=	Ī	β Γ π Σ σ μ τ Φ Θ Ω δ ∞ \emptyset \in	2
0 1 2 3 4 5 6 7 8 9 A B C D E F	Çüéa:aàaçe:eè:îîcA	ත් f	艺艺 Ó Ó Ó N ঠ 之 S └ 「 ½ ¼ i ≪	4	# # # # # # # # # # # # # # # # # # # #	ī	€	
F	Ą	£	>	7	ï	ď	Λ	

Code Page #3845 Hungarian

	8	9	A	В	С	D	E	F
0	Ç	É	á		Ł	щ	α	=
1	ü	æ	í	¥	Τ	Ŧ	β	±
2	é	Æ	Ó	*	т		Γ	
3	â	ő	ú	Ĩ	Ŧ	I	π	≤.
4	ä	ö	ñ	ł	<u> </u>	Ŀ	Σ	\ \ \
4 5 6 7	à	Ó	Ñ	i	+	F	σ	j
6	å	ű	₫	İ	F		μ	÷
	Ç	U	Ö	Ï	F	[##]	au	*
8	ê	Ű	خ	ä	ij	Ŧ	Φ	в
9	ë	Ö	_	7	Ιī	j	Θ	
A	è	Ü	-	ii	<u>[[</u>	г	Ω	-
B C	ï	¢	1/2		īī	Ė	δ	1
	î	£	4]	ĪĒ	_	∞	Ω
D	Í	¥	ī	Ш	=	Ī	Ø	2
E	Ā	R	≪	긤	背	Ī	€	•
F	Á	£	≫	1	ï	i	\cap	

Code Page #3846 Turkish

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
0	Ç	É	á	iii	L	П	α	=
	ü é	æ	í	*	Τ	Ŧ	β	±
2	é	Æ	Ó	ä	т	Ϋ́	β Γ π	2
3	â ä	ô		Ĩ	Ŧ	I	П	<u>⊀</u>
4	ä	ö	ú ñ	Ť	÷	F	Σ	ſ
5	à	Ó	Ñ	ŧ	+	F	σ	± ≥ ≤ () ÷
6	å	û	Ğ		+ + 1		μ	÷
7	a 0 @ :0	ù	ā	ï	Ĥ	-#-#-J	au	×
8	ê	İ	T.	ä	ΪĻ	¥	Φ	٥
9	ë	Ö	г Т	À	Īī	į	θ	•
Α	è	Ü	_	Ï	<u>][</u>	г	Ω	-
В		¢	1/2	ï	īī		δ	- - 0
С	î	£	1/4]	li li	=	∞	n
D	1	£ ¥ Ş	i	П		Ī	Ø	
123456789ABCDEF	Ä	Ş	i ≪	4	韭	Ī	E	
F	Á	Ş	≫	7	ï		\cap	

Code Page #3848 Brazil-ABICOMP

The other characters are the same as in code page #437.

	_		7/	ъ	C	n	T	E7
	8	9	Α	В	С	D	E	F
0				Ò	i	Ó		
1			À	Ó	à	Ó		
2			Á	Ô	à á	Ò Ó Ô		
3			A	Õ	â	õ		
4			A A A A	ö	ã	õ		
5			A	Æ	ä	æ		
6			A Ç È É	Ù		ù		
7			È	Ú	ç è é	ú		
8			É	Û	é	û		
9			Ê	Û		ü		
A			Ë	Y	ê	û ü Ý β		
В			Ì		ì	β		
C			Í	£	í	<u>a</u>		
0123456789ABCDEF			Î	-		<u>a</u> ♀ ♀ と ±		
Ε			Î	Š	î ï	٤		
F			Ñ	۰	ñ	±		

Code Page #3847 Brazil-ABNT

Other characters are the same as those for Code Page #437.

	8	9	Α	В	С	D	E	F
0				۰	À	Ð	à	đ
1			i	±	Á	Ñ	á	ñ
2			¢	2	À	Ó	â	Ò
3			£	3	Ã	Ó	ã	Ó
4			α	1	Ä	Ô	ä	ô
5			¥	μ	Ā	õ	å	õ
6			1	T	Æ	Ö	æ	ö
7			S		Ç			
8			•	,	È	Ø	ç è	Ø
9			0	1	É	Ù	é	ù
Α			₫	<u>o</u>	Ê	Ú	ê	ú
В			<u>a</u> ≪	*	Ë	Û	ë	û
С			7	1/4	Ì	Ü	ì	ü
0 1 2 3 4 5 6 7 8 9 A B C D E F			-	1-2	Í	A	1	Ý
E			⊗	34	Î	Þ	î	þ
F			-	Ł	Ï	β	ï	

Code Page #852 Latin-2

	8	9	A	В	С	D	E	F
0	Ç	É	á		L	đ	Ó	-
	ü	Ľ	1	*	1	Ð	β	,,
123456789	é	I	Ó	ä	т	Ď	ô	
3	â	ô	ú	Ï	Ŧ	Ë	N	~
4	ä	ö	A	ł	<u>-</u>	ď	ń	~
5	ů	Ľ	ą	Á	† A	Ŋ	ň	S
6	Ć	1	Z	Â		Í	Š	÷
7	¢	Š	Ž	Ĕ	ă	Î	ട്	J
8	ł	Ś	Ę	Ş	ΓĒ	ĕ	Ŕ	۰
	ë	ö	ę	#	F	1	U	
Α	Ö	Ü		#	<u>[[</u>	г	ŕ	_
В	Ő	Ť	Ź		īī	Ė	Ű	ű
C	î	ť	Č]	Tr Ir	=	Ý	Ř
D	Ż	Ł	Ş	Z	=	Ţ	Υ	r×
A B C D E F	Ä	Χ	«	Ż	背	Ů	ţ	
F	Ĉ	č	>	1	Ŋ		1	

Code Page #1001 Arabic

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
0	4	ر	ŧ	4	L	J	~.	=
1	1	ر ز	•	Ů		J	:	±
2	f	w	Ł	ن د د د و	840404048		S C D D D T T T T T T T T T T T T T T T T	# + < <
3	ۇ	w	ż	۵	C		3	<u>≺</u>
4	1		ف		_	٠	د	ſ
5	ٿ	سد ش شر شد		•	Ċ	1	3	j
6	-1	شر	ق	ي	خ		2	÷
7	ب	شہ	j		č	٣	Ţ	≈
8	ب		4	ن - •		٤	Φ	۰
9	3	ص مر ص	غ		ŧ		θ	•
A	ت	4	J		ė	٥ ٦ ٧	Ω	-
В	=	ض	¥	ŧ	¥	٧	δ	1
С	ڪ	غر	K	۶	K	۸ ۹	ω	∩ 2
D	ث	ض غر غد	ا لا	τ	K	٩	Ø	2
0 1 2 3 4 5 6 7 8 9 A B C D E F	1 9 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ط ظ	٢	Ĺ	*	•	€	
F	7	ظ	۴	Ġ	4	2	Λ	

Code Page #737 Greek

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
0	A	P	L	Ш	L	ш	ω	Ω
1	В	Σ	ж	*	1	Ŧ	άτ	±
2	Г	T	λ	Ĭ	т		έ	2
2 3	Δ	Y	μ	Ĩ	Ŧ	I	ή	≤
4	E	Φ	ν	i	÷	F	ï	Ï
4 5 6 7	Z	X	Ę	4	t	F	ι	Ÿ
6	H	Ψ	0	İ	ŧ		Ó	÷
7	0	Ω	П	ï	į	###	ύ	25
8	I	α	Q		ij	Ŧ	ΰ	•
9	К	β	σ	1	Œ	j	ώ	•
A	Λ	γ	ς	ii	îi	I	A	-
В	M	δ	$\boldsymbol{\tau}$	ï	W	Ì	В	1
C	N	ϵ	υ	1	ji =	_	H	^
D	Ξ	ξ	Φ	Ш	=	Ī	1	2
Е	0	η	χ	4	计	ī	Ö	
F	П	θ	Ψ	1	Ï	ij	Y	

Code Page #851 Greek

	8	9	A	В	С	D	E	F
0	Ç	1	ï	III	L	Т	ξ	_
1	ü		J	ï	1	Y	η	±
1 2 3	é	Ö	Ó	Ĭ	т	Φ	Θ	υ
	â	ô	ύ	Ĭ	F	X	L	Φ
4	ä	ö	A	į K	-	Ψ	×	χ
5	à	Y	В	Ķ	† 11	Ω	λ	S
6	A	û	Γ	Λ	П	α	μ	Ψ
7	Ç	ù	Δ	M	P	β	ν	ى •
8	ê	IJ	E	N	F	γ	Ę	
9	ë	ö	Z	1	I	7	0	••
A	è	Ü	H	Ü	ij	Ţ	П	ω
В	ï	ά	34		ŦŦ		Q	ΰ
C	î	£	0		Ħ		σ	ΰ
D	B	έ	Ι	Ξ	=	δ	ς	ώ
E	Ä	ή	<	0	ij Σ	Э	$\boldsymbol{\tau}$	•
F	H	L	>	٦	Σ		•	

Code Page #869 Greek

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
0		1	ï	Ш	L	Т	ξ	_
1		Ϊ	τ	攤	1	Y	η	±
2		0	Ó	¥	т	Φ	9	υ
3			ύ	Ĭ	ŀ	X	Ļ	φ
4			A	i K	-	Ψ	X	χ
5		Y	В	ĸ	T + - + n	Ω	λ	\$
6	A	¥	Γ	٨	Й	α	μ	Ψ
7		0	Δ	M	P	β	ν	4
8	-	Ω	E	N	IF	γ	ŧ	•
9	1	2	Z	il	Ϊ́τ	ı	0	••
Α	1	9	H	# 	ĪĹ	г	П	ω
В	•	ά	14	ä	īī		δ	ΰ
С	•	£	0]	∏ } -		σ	ΰ
D	E	έ	Ι	Ξ	=	δ	ς	ώ
123456789ABCDEF		ή	<	0	# S	€	$\boldsymbol{\tau}$	
F	H	Ĺ	>	7	Σ		,	

Code Page #2001 Lithuanian-KBL

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
0	A	P	a	iii	L	Т	р	E
1	Б	С	б	*	T	Ŧ	С	ę
2	В	Т	В	¥	Т		Т	È
3	Γ	У	Г	Ĩ	Ŧ	I	У	ė
4	Д	Φ	Д	ł	÷	F	ф	Į
4 5 6 7	E	X	е	╡	+	f	Х	i
6	X	Ц	X	İ	Ė		Ц	Š
7	3	Ч	3	n		H	ч	š
8	N	Ш	И		Ü	Ŧ	Ш	Ų
9	И	Щ	Й	1	ſŦ	j	Щ	ų
A	К	ъ	ĸ	Ï	[[Г	ъ	0
В	Л	Ы	Л		17	Ė	Ы	a
С	M	Ь	M]	Ī	Ā	ь	2 Ž
D	Н	Э	н	M	=	ą	Э	ž
Ε	0	Ю	0	4	#	Č	Ю	•
F	Π	Я	Π	1	Ï	č	Я	

Code Page #928 Greek

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
0				•	τ	П	ΰ	π
1			•	±	A	P	α	б
2			•	2	В		β	ς
3			£	3	Γ	Σ	γ	σ
4				•	Δ	T	δ	$\boldsymbol{\tau}$
5				**	E	Y	E	964999
6			1	Ά	Z	Φ	ξ	φ
7			\$	-	H	X	η	χ
8			•-	E	Θ	Ψ	Θ	Ψ
9			¢	Ħ	I	Ω	L	
A				1	К	Ï	ж	Ë
В			<	>	٨	¥	λ	ΰ
C			~	O	M	ά	Щ	Ó
1 2 3 4 5 6 7 8 9 A B C D E F				14	N	É	ν	ならならいの
E				Y	Ξ	ή	ξ	ώ
F			-	Ω	0	٤	0	

Code Page #772 Lithuanian

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	8	9	Α	В	С	D	E	F
0	Α	P	a	iii	L	ą,	p	Ë
1	В	С	б	*	T	č	С	ë
2	В	T	В	ä	Т	ę	Т	2
3	Γ	У	Г	Ĩ	ŀ	ė	У	<u>≺</u>
4	Д	Φ	Д	4	_	į	ф	"
5	E	X	е	Å	+	š	Х	"
6	X	Ц	X	Č	ţ	ų	Ц	÷
7	3	Ч	3	E	Ū	a	ч	*
8	N	Ш	И	Ė	L	ž	Ш	۰
9	И	Щ	Й	1	ſŦ	J	Щ	•
A	К	Ъ	к	I	I	r	ъ	-
В	Л	Ы	Л		17	Ė	Ы	1
C	M	ь	M]	I	-	ь	٥
D	H	Э	H	Į	=	ſ	Э	2
E	0	Ю	0	S	#	ī	Ю	•
F	Π	Я	П	1	뱕		Я	

Code Page #774 Lithuanian

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	Ε	F
0	Ç	É	á	111	L	ą	α	=
	ü	æ	1	ä	T	č	β	±
2	é	Æ	Ó	Ĭ	т	ę	Γ	2
3	â	ô	ú	Ĩ	F	ė	π	٤.
4	ä	ö	ñ	ł	÷	į	Σ	± ≥ ≤
5	à	δ	Ñ	À	+	š	σ	"
6	å	a	<u>a</u>	A C	† Ų	ų	μ	÷
7	Ç	ù	Q	Ę	Ü	α	au	÷ ≈
8		ÿ	Ş	Ė	Ŀ	ž	Φ	۰
9	ê	ÿ Ö	_	{	lī	ı	Θ	
A	è	Ü	7	#	<u>][</u>	г	Ω	-
В	ï	¢	1/2		īī	Ī	δ	υ 1 -
С	î	£	4]		_	œ	
123456789ABCDEF	ì	¥	i	Į	=	ſ	Ø	2
Е	Ä	R	«	Š	#	ī	ε	•
F	A	£	>	1	ż		\cap	

Code Page #3002 Estonian2

Other characters are the same as those for Code Page #437.

_		<u> </u>						
	8	9	Α	В	С	D	E	F
0				•	À	Š	à	Š
1			i	±	Á	Ñ	á	ñ
2			¢	2	A	Ò	â	δ
3			£	3	Ã	Ó	ã	Ó
4			¤	1	Ä	Ô	ä	ბ
5			¥	μ	A	Õ	ā	ð
6			1	¶	Æ	ö	æ	ö
7			§	-	Ç	X	Ç	ö • ø ù
8			••	,	È	Ø	è	Ø
9			0	1	É	Ù	é	ù
A			₫	Q	Ê	Ú	ê	ú
В			<u>a</u> <	>	Ë	Û	ë	û
0 1 2 3 4 5 6 7 8 9 A B C D E F			7	4	Ì	Ü	ì	û ü Ý Ž Ÿ
D				1/2	Í	Y	í	ý
E			18		Î	Z	î	ž
F			-	¾ ¿	Ϊ	β	ï	ÿ

Code Page #3001 Estonian1

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
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Code Page #3011 Latvian1

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Code Page #3012 Latvian2

Other characters are the same as those for Code Page #437.

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4	Д	Φ	Д	4	÷	F	ф	ĸ
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D	H	Э	Н	Ō	=	ũ	Э	š
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Code Page #3031 Hebrew

Other characters are the same as those for Code Page #437.

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8	9	A	В	С	D	E	F
N	۵	á	1111	L	П	α	Ξ
	D	1	¥	Τ	Ŧ	β	±
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ר	n	_	ij	<u> </u>	г	Ω	-
ר	¢	1,5	จ	īī	Ė	δ	1
כן	£	4		j	_	ω	0
	¥	i	Ш	=	ſ	Ø	2
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Code Page #3021 Bulgarian

Other characters are the same as those for Code Page #437.

	8	9	A	В	С	D	E	F
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1	Б	С	б	С	T	¥	β	±
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	Γ	У	Г	У	ŀ	Ï	π	± > <
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9	И	Щ	Й	Щ	Œ	1	θ	•
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В	Л	Ы	Л	Ы	Π	İ	δ	7
B C	M	ь	M	ь	ij	=	œ	٥
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Code Page #3041 Maltese

	0	1	2	3	4	5	6	7
0	(NUL)			0	@	P	Ċ	р
1		⟨DC1⟩	!	1	Α	Q	a	q
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	¥	(DC3)	#	3	С	S	С	s
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5	4	S	*	5	E	U	е	u
6	÷		&	6	F	٧	f	V
7	(BEL)		•	7	G	W	g	W
8	(BS)	(CAN)	(8	Н	X	h	х
9	(III)	(EM))	9	Ι	Y	í	У
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Appendix E: Printer Control Codes

This appendix lists the printer's control commands. It gives the name of each control command, along with the applicable emulation mode (Standard, IBM, or Both), and the applicable ASCII code.

Font and Character Set Control Commands

Description	Mode	ASCII Code
Select italic	STD	ESC 4
Cancel italic	STD	ESC 5
Select Character Set #2	Both	ESC 6
Select Character Set #1	Both	ESC 7
Select Draft resident font	IBM	ESC IOOH
Select 12 CPI Draft resident font	IBM	ESC I01H
Select NLQ resident font	IBM	ESC IO2H
Select Draft resident font	IBM	ESC IO3H
Select Draft download font	IBM	ESC I04H
Select 12 CPI Draft download font	IBM	ESC I05H
Select Draft double-strike download font	IBM	ESC IO6H
Select NLQ download font	IBM	ESC I07H
Select NLQ italic resident font	IBM	ESC IOBH
Select NLQ italic download font	IBM	ESC IOFH
Select international character set	STD	ESC Rn
Set Code Page	Both	ESC [T
Print characters from all character chart	IBM	ESC \n1 n2
Print one character from all character chart	IBM	ESC ^n
Select NLQ font	STD	ESC kn
Assign character table	STD	ESC (t
Select character table	STD	ESC tn
Select /cancel NLQ print mode	STD	ESC xn

Print Pitch Control Commands

Description	Mode	ASCII Code
Select condensed print	Both	SI
Same as SI	STD	ESC SI
Select one line expanded print	Both	SO
Same as SO	STD	ESC SO
Cancel condensed print	STD	DC2
Set print pitch to pica	IBM	DC2
Cancel one-line expanded print	Both	DC4
Set print pitch to elite	IBM	ESC :
Set print pitch to elite	STD	ESC M
Set print pitch to pica	STD	ESC P
Cancel proportional print	IBM	ESC POOH
Select proportional print	IBM	ESC P01H
Cancel expanded print	Both	ESC WO
Select expanded print	Both	ESC W1
Cancel proportional print	STD	ESC p0
Select proportional print	STD	ESC pl

Top/Bottom Margin and Vertical Tab Commands

Description	Mode	ASCII Code
Advance paper to next vertical tab position	Both	VT
Select VFU channels	STD	ESC /n
Set vertical tab positions	Both	ESC BnNULL
Set bottom margin	Both	ESC Nn
Cancel bottom margin	Both	ESC O
Set all tabs to power on defaults	IBM	ESC R
Set VFU in a channel	STD	ESC bnmNULL

Special Print Mode Commands

Description	Mode	ASCII Code
Set master print mode	STD	ESC!
Cancel underlining	Both	ESC-0
Select underlining	Both	ESC-1
Select emphasized print	Both	ESC E
Cancel emphasized print	Both	ESC F
Select double-strike print	Both	ESC G
Cancel double-strike print	Both	ESC H
Select superscripts	Both	ESC SO
Select subscripts	Both	ESC S1
Cancel super/subscripts	Both	ESC T
Cancel upperlining	IBM	ESC _0
Select upperlining	IBM	ESC _1

Bit Image Graphic Commands

Description	Mode	ASCII Code
Select bit image mode	STD	ESC *m <i>n1 n2</i>
Redefine bit image mode	STD	ESC ? n1 n2
8-pin single-density bit image	Both	ESC K n1 n2
8-pin double-density bit image	Both	ESC L n1 n2
8-pin double-density bit image, double-speed	Both	ESC Y n1 n2
8-pin quadruple density bit image	Both	ESC Z n1 n2
9-pin bit image mode	STD	ESC ^ n0 n1 n2

Form Feed and Related Commands

Description	Mode	ASCII Code
Advance paper to top of next page (form feed)	Both	FF
Return to top line of current page	STD	ESC FF
Set top of form to current position	IBM	ESC 4
Set page length to n inches	Both	ESC C 00H n
Set page length to n lines	Both	ESC Cn

Line Spacing Commands

Description	Mode	ASCII Code
Advance paper one line (line feed)	Both	LF
Reverse paper one line	STD	ESC LF
Set line spacing to 1/8"	Both	ESC 0
Set line spacing to 7/72"	IBM	ESC 1
Set line spacing to 1/6"	STD	ESC 2
Execute ESC A	IBM	ESC 2
Set line spacing to n/216"	Both	ESC 3n
Set line spacing to n/72"	STD	ESC An
Define line spacing to n/72"	IBM	ESC An
One time feed of n/216"	Both	ESC J <i>n</i>
Reverse line feed	IBM	ESC]
One time reverse feed of n/216"	STD	ESC jn

Download Character Commands

Description	Mode	ASCII Code
Cancel download character set	STD	ESC %0
Select download character set	STD	ESC %1
Define download characters in RAM	STD	ESC &00H
Copy standard ROM font into RAM	STD	ESC :00H n 00H
Define download characters in RAM	IBM	ESC =

Horizontal Print Position Control Commands

Description	Mode	ASCII Code
Move print head to next horizontal tab position	Both	HT
Return print head to left margin (carriage return)	Both	CR
Move print head to absolute horizontal position	STD	ESC \$n1 n2
Add n dot spaces between characters	STD	ESC SPn
Cancel automatic line feed	IBM	ESC 5 00H
Select automatic line feed	IBM	ESC 5 01H
Set horizontal tab positions	Both	ESC DnNULL
Set right margin	STD	ESC Qn
Set left and right margins	IBM	ESC X n1 n2

Horizontal Print Position Control Commands (Continued)

Description	Mode	ASCII Code
Move print head to specified horizontal position	STD	ESC \ n1 n2
Justification	STD	ESC an
Set left margin	STD	ESC 1n

Other Commands

Description	Mode	ASCII Code
Sound printer bell	Both	BEL
Move printer head back one space (backspace)	Both	BS
Set printer on line	Both	DC1
Set printer off line	STD	DC3
Cancel line in print buffer	Both	CAN
Delete last character sent	STD	DEL
ASF control	STD	ESC EMn
Cancel MSB control	STD	ESC #
One-line uni-directional printing	STD	ESC <
Set MSB to logical 0	STD	ESC =
Set MSB to logical 1	STD	ESC >
Disable paper out detect	STD	ESC 8
Enable paper out detect	STD	ESC 9
Initialize printer	STD	ESC @
Deselect printer	IBM	ESC Q03H
Cancel uni-directional printing	Both	ESC U0
Select uni-directional printing	Both	ESC U1
Select double or quadruple size	STD	ESC hn
Stop printing	IBM	ESC j
Control character height, width, line spacing	IBM	ESC [@
Set initial condition	IBM	ESC [K
Cancel double-high mode	STD	ESC w0
Select double-high mode	STD	ESC w1

Appendix F: Glossary

adjustment lever Controls the darkness of the printing by adjusting for the thickness

of the paper you are printing on.

Centronics cable Parallel cable normally used to connect the printer to the computer.

control code A numeric code that instructs the printer to perform an operation.

For example, the computer sends the printer a form feed control

code (12) to tell it to eject the current page.

Electronic DIP Switch settings Printer settings that take effect when you switch on the printer.

You can change these settings using the control panel.

emulation Ability of one printer to act like (emulate) another type of printer.

hexadecimal amub

Printout of all character codes and control codes as they are received by the printer, along with their hexadecimal values.

multi-part forms Forms that consist of more than one sheet. This printer can print on

forms that have up to seven sheets.

NLQ fon Near letter-quality font.

off-line Printer mode in which the printer will not accept data or continue

printing.

on-line Printer mode in which the printer is ready to print.

paper parking Moving fanfold paper into a position that allows printing of cut-

sheets without removing the fanfold paper from the printer.

print head The component of the printer that transfers the image to the paper.

Quiet mode Mode that reduces printing noise. Also reduces printing speed.

release lever Releases the paper. This lever must be in the cut-sheet position for

cut-sheet paper and in the fanfold position for fanfold paper.

serial-to-parallel

Option that makes it possible to connect the printer to a computer interface converter via a serial interface instead of the standard Centronics parallel

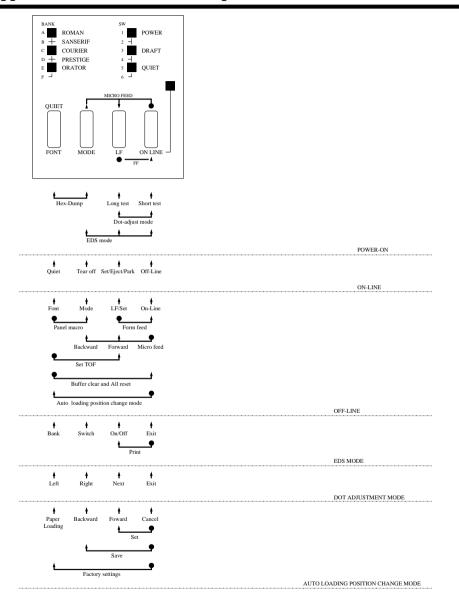
interface.

tear-off function Function that moves fanfold paper to a position where it can be

torn off.

tractors Mechanisms that control the movement of fanfold paper.

Appendix G: Control Panel Operation Guide



Note:

A dot means press and hold and an arrow means to just press. A dot and arrow tied together means hold one while pressing the other.

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Customer service information

If you experience any technical difficulties with your Star printer, please refer to Appendix A How to deal with printing problems. This chapter describes easy methods to diagnose and resolve some of the problems that you may encounter.

For further technical support, you should first contact your Authorized Star Dealer. If you require additional support, Star Micronics offers a wide variety of technical support services. Please use one of the telephone numbers listed below, depending on the country in which your Star printer was purchased.

Star Micronics Technical Hotline:

1-908-572-3300
44-1277-232036
852-2795-2335
61-2-748-4300
64-9-570-1470

Star Micronics FaxBack (Document Retrieval) System:

Requires access to a facsimile machine or board with receive capability North America: 1-908-572-4004

Star Micronics Bulletin Board Service:

Requires a computer modem

 North America:
 1-908-572-5010

 United Kingdom:
 44-1494-461395

 France:
 33-1-305807

 Germany:
 49-69-780929

 Netherlands:
 31-73-424485

 Australia and New Zealand:
 61-2-748-2960

Customer response

Star Micronics Co., Ltd. invites your suggestions and comments on your printer and this manual. Please address your correspondence to Attn: Product Manager

Worldwide Headquarters

STAR MICRONICS CO., LTD. 536 Nanatsushinya, Shimizu,

Shizuoka, 424, Japan

North and South America Markets STAR MICRONICS AMERICA, INC.

70- D Ethel Road West Piscataway, NJ 08854-5950

European Market

STAR MICRONICS DEUTSCHLAND

GMBH

Westerbachstraße 59 D-60489 Frankfurt F.R. of Germany

U.K. Market

STAR MICRONICS U.K. LTD.

Star House

Peregrine Business Park Gomm Road, High Wycombe Bucks. HP13 7DL, U.K. Australian Market

STAR MICRONICS PTY. LTD. Unit A/107-115 Asquith Street, Silverwater, NSW 2141

Australia

New Zealand Market

STAR MICRONICS (N.Z.) LTD. 64 Lunn Ave. Mount Wellington P.O. Box 6255, Wellesley St.,

Auckland, New Zealand.

Asian Market

STAR MICRONICS ASIA LTD. 18/F Tower 2, Enterprise Square

9 Sheung Yuet Road, Kowloon Bay, HONG KONG

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