EPSON®

LQ-200
ActionPrinter™ 3000

Service Manual

Revision Level

Revision	Date
1st printing	March 1991

Printed on recycled paper.

FCC Compliance Statement
For American Users

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the 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 reception, which can be determined by turning the equipment 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 the receiver.

- Connect the equipment to 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.

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LQ-2OO/AP3000

Chapter 1   General Description

Chapter 2   Principles of Operation

Chapter 3 Disassembly and Assembly

Chapter 4 Adjustment

Chapter 5 Troubleshooting

Chapter 6 Maintenance

Appendix

Subsequent product modifications will be brought to your attention via Service Bulletins. Please revise the text as bulletins are received.

This document is subject to change without notice.

Note:
> This manual uses minus signs (-) in front of signals to indicate that they are active LOW signals.

Chapter 1

General Description

Figures

Tables

General Description 1

Features

The Epson® LQ-200/ActionPrinter™ 3000 (AP3000) is a small, light-weight, low-cost printer similar to the LQ-500. The printer's main features are:

- Epson ESC/P® code printing, implemented as a standard feature

- These printing speeds: 192 cps (draft, 12 cpi)
  160 cps (draft, 10 cpi)
  64 cps (letter quality, 12 cpi)
  53 cps (letter quality, 10 cpi)

- Clear, easy-to-read printing with standard Epson fonts

- Seven built-in letter quality (LQ) fonts (Roman, Sans Serif, Courier, Prestige, Script, OCR-B, and Orator)

- Direct built-in font selection using control panel buttons

- Automatic loading for single sheet paper

- Two paper slots (rear and bottom)

- Easy handling of single sheet paper with the optional cut sheet feeder (CSF)

- Standard Epson 8-bit parallel interface.

Table l-l lists the optional units available for the printer and Figure l-l shows the printer.

Table 1-1. Optional Units

Model	Description
7341	Cut sheet feeder *(CSF)*
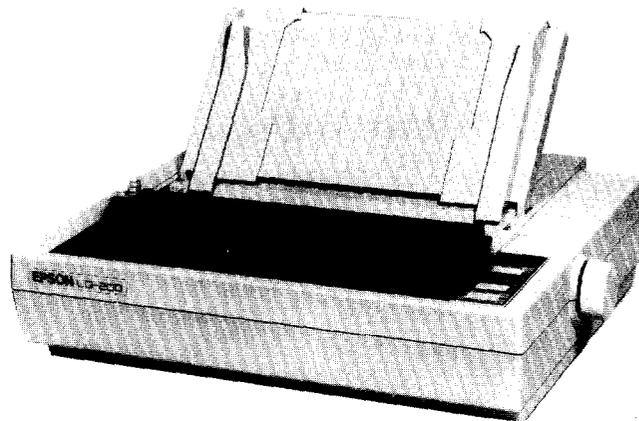
Figure 1-1. LQ-200/AP300

Specifications

This section provides the specifications for the LQ-200/AP3000.

Hardware Specifications

Printing Method   Serial, impact, dot matrix

Pin Configuration   24 wires; 12 x 2 staggered, diameter 0.008 inches (0.2 mm)
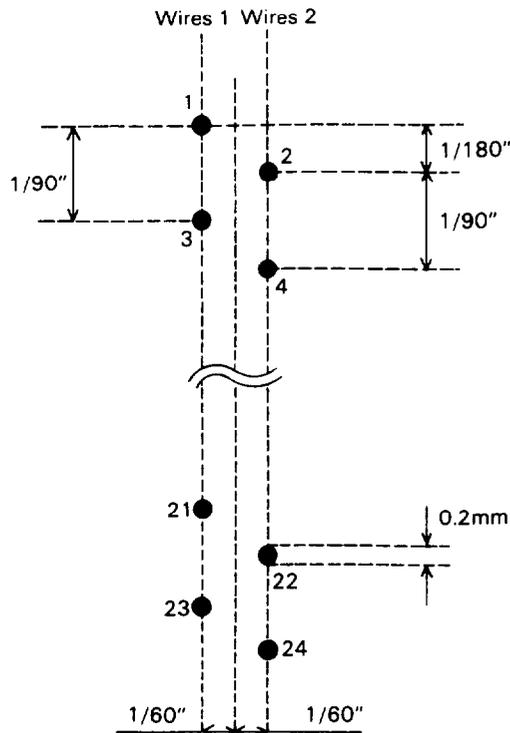
Figure 1-2. Pin Configuration

Feeding Methods   Friction feed, tractor feed

Line Spacing   1/6 inch or programmable in units of 1/180 inch

Paper Insertion   From rear or bottom

Paper Feed Speed   100 ms/line at 1/6-inch line feed
2.2 inches per second, continuous feed

Paper Specifications See Tables 1-2, 1-3, and 1-4.

Table 1-2. Specifications for Single Sheet Paper

Width	7.15 to 10.1 inches (182 to 257 mm)
Length	7.15 to 14.3 inches (182 to 364 mm)
Thickness	0.0025 to 0.004 inches (0.065 to 0.1 mm)
Weight	14 to 22 lb (52 to 82 g/m^2)
Quality	Standard paper
Copies	Not available

Table 1-3. Specifications for Continuous Paper

Width	4.0 to 10.0 inches (101 to 254 mm)
Copies	Three sheets maximum (one original and two copies)
Quality	Standard paper
Total Thickness	0.0025 to 0.01 inches (0.065 to 0.25 mm)
Weight	One sheet: 14 to 22 lb (52 to 82 g/m^2) Two sheets: 11 to 15 lb (40 to 58 g/m^2) × 2 Three sheets: 11 to 15 lb (40 to 58 g/m^2) × 3

Table 1-4. Specifications for Labels

Label Size	2.5 to 0.93 inches minimum (63.5 to 254 mm)
Width of Continuous Backing Paper	4.00 to 10.0 inches (101 to 254 mm)
Thickness	Backing paper: 　　　0.0028 to 0.0035 inches (0.07 to 0.09 mm) Total thickness: 　　　0.0063 to 0.0075 inches (0.16 to 0.19 mm)
Weight	18 lb (68 g/m^2) maximum
Quality	Standard paper

Printable Area
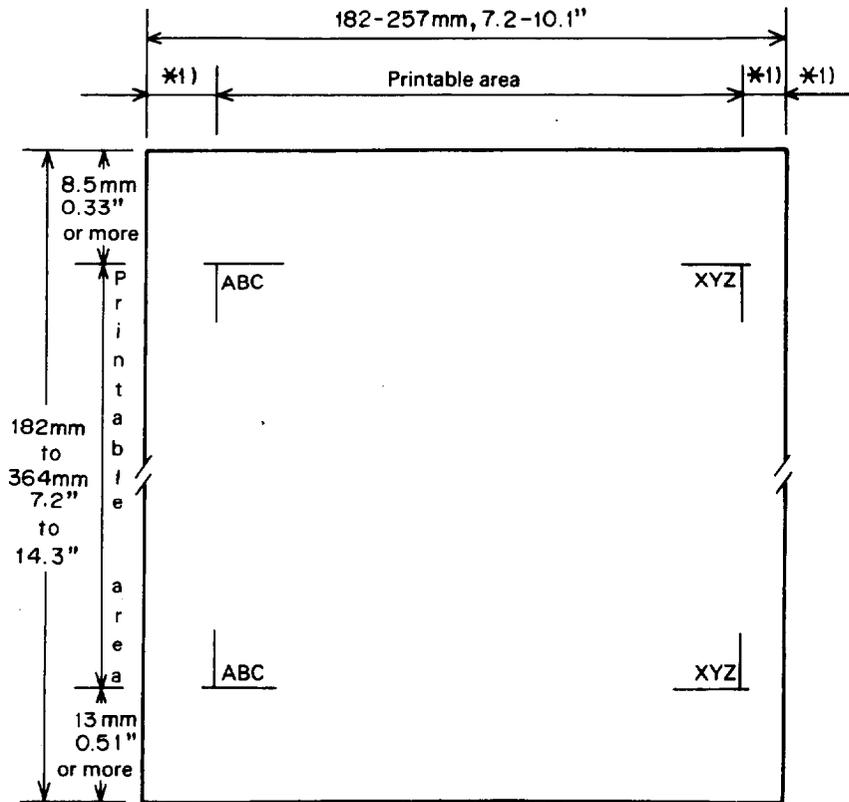
Figure 1-3. Printable Area for Single Sheet Paper

Notes:

1) 0.12 inches (3 mm) or more using 7.2 to 9.0 inch (182 to 229 mm) wide paper. 1.08 inches (27 mm) or more using 10.1 inch (257 mm) wide paper.

- The lowest print position (0.54 inches or 13.5 mm) is only for reference.

- Printing is possible approximately 1.48 inches (37 mm) from the bottom edge of the paper when you press the AUTO LOAD button to load a single sheet.

- Paper feeding accuracy is not assured within 0.88 inches (22 mm) from the top edge of the paper and 1.20 inches (30 mm) from the bottom edge of the paper.
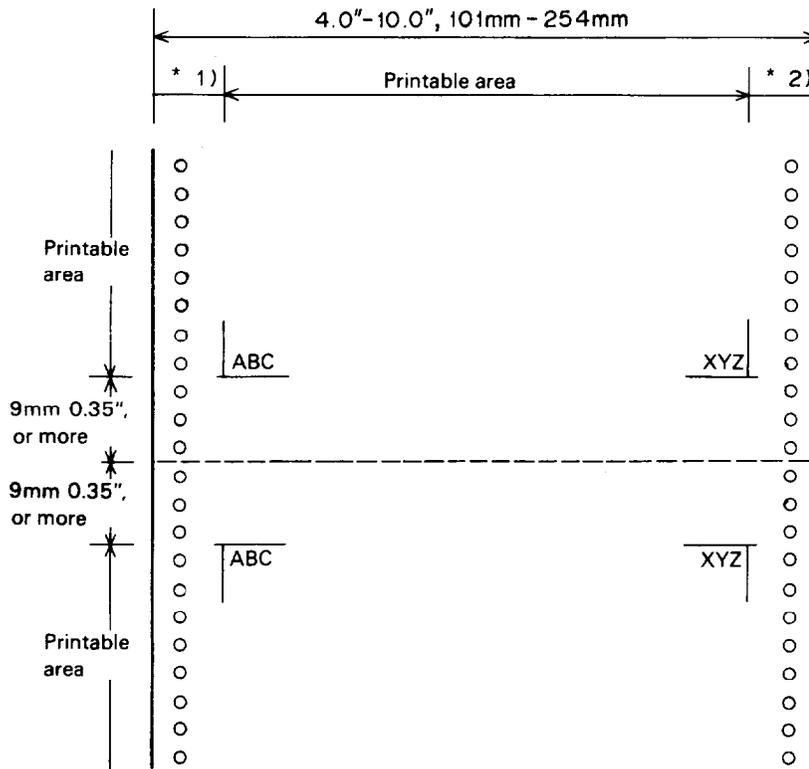
Figure 1-4. Printable Area for Continuous Paper

Notes:

*1)   0.52 inches (13 mm) or more using 4.0 to 9.5 inch (101 to 242 mm) wide paper.
1.04 inches (26 mm) or more using 10.0 inch (254 mm) wide paper.

*2)   0.52 inches (13 mm) or more using 4.0 to 9.5 inch (101 to 242 mm) wide paper.
1.04 inches (26 mm) or more using 10.0 inch (254 mm) wide paper.

Ink Ribbon

Type Black ribbon cartridge #7753
Film ribbon cartridge #7768

Color Black

Life 2 million characters at 48 dots/character
(black ribbon)
0.2 million characters using LQ characters
(film ribbon)

Dimensions 11.72 inches (width) x 1.36 inches (height)
of Ribbon x 2.88 inches (depth)
Cartridge (293 mm x 34 mm x 72 mm)

Reliability

Mean Cycles
Between
Failure
(MCBF) 3 million lines (excluding printhead)

Mean Time
Between
Failure
(MTBF) 40000 power-on hours POH) at 25% duty

Printhead Life 200 million strokes (black ribbon)
100 million strokes (film ribbon)

Safety Approvals

Safety
standards UL478

Radio
Frequency
Interference
(RFI) FCC class B

Electrical Specifications

Power Conditions	120 VAC ± 10%
Frequency Range	49.5 to 50.5 Hz (50 Hz model) 59.5 to 60.5 Hz (60 Hz model)
Current Rating	1.8 A
Power Consumption	Approximately 38 W (during self test in draft mode at 10 cpi)
Insulation Resistance	10 megohms minimum between AC line and chassis
Dielectric Strength	1250 VAC (rms), 1 minute between AC line and chassis

Environmental Conditions

Temperature	41° to 95°F (5O to 35°C), operating –22° to 140°F (-30° to 60°C), in shipping container
Humidity	10 to 80 % RH, operating 5 to 85 % RH, storage
Resistance to Shock	1 G, within 1 ms, operating 2 G, within 1 ms, storage
Resistance to Vibration	0.25 G, 55 Hz maximum, operating 0.50 G, 55 Hz maximum, storage

Physical Specifications

Weight	Approximately 14.1 lb (6.4 kg)
Dimensions	15.6 inches (width) x 12.8 inches (depth) x 5.6 inches (height) (390 mm x 320 'mm x 139 mm) excluding knob and paper guide

Firmware Specifications (ESC/P)

Control Codes	ESC/P level ESC/P 84 (Epson Standard Code for Printers)

Printing Direction Bidirectional (text)
Bidirectional (bit image) when DIP switch 2-5 is on
Unidirectional (bit image) when DIP switch 2-5 is off

Input Data Buffer 8KB when DIP switch 2-4 is on
1KB when DIP switch 2-4 is off
(When DIP switch 2-4 is on, you cannot define user-defined characters.)

Character Code 8 bits

Character Sets 96-character ASCII character set
14 international character sets
Legal character set
PC (character tables for the Personal Computer) 437, 850, 860,863,865

Built-In Fonts See Table 1-5.

Table 1-5. Built-h Fonts

Epson Built-In Font	Family Number	10 cpi	12 cpi	15 cpi	Proportional
Draft	—	o	o	o	*1
Roman	0	o	o	*2	o
Sans Serif	1	o	o	o	o
Courier	2	o	o	o	o
Prestige	3	o	o	*2	o
Script	4	o	o	*2	o
OCR-B	5	o	o	*2	o
Orator	7	o	o	*2	o

Notes:

- o = resident, 'l = proportional LQ font specified using ESC k, *2 = 15 cpi Courier

- OCR-B and Orator are basically IO cpi fonts. However, you can select the typestyle and pitch for these fonts.

- You cannot select 15 cpi and condensed printing at the same time.

Printing Modes   You can select and mix any of the following printing modes, except you cannot select 15 cpi and condensed printing at the same time.

- Draft or letter quality printing
- Character pitch (10 cpi, 12 cpi, 15 cpi, or proportional printing)
- Condensed
- Double-width
- Double-height
- Emphasized
- Double-strike
- Italic
- Underlined
- Double-underlined
- Overscore
- Strike-through
- Outline
- Shadow

Printing Speed   See Table 1-6.

Printing Columns   See Table 1-6.

Character Matrix   See Table 1-7.

Character Size   See Table 1-7.

Table 1-6. Printing Modes

Pitch	Con-densed	Empha-sized	Double-Width		Printable Columns	Character Pitch (cpi)	Printing Speed (cps)	
							Draft	LQ
10 cpi	0	0	0		80	10	160	53.3
	0	0	1		40	5	80	26.65
	0	1	0		80	10	80	53.3
	0	1	1		40	5	40	26.65
	1	x	0		137	17.1	137	91.3
	1	x	1		58	8.5	68.5	45.65
12 cpi	0	0	0		96	12	192	64
	0	0	1		48	6	96	32
	0	1	0		96	12	96	64
	0	1	1		48	6	48	32
	1	x	0		160	20	160	106.7
	1	x	1		80	10	80	53.35
15 cpi	0	0	0		120	15	240	80
	0	0	1		120	15	120	40
	0	1	0		60	7.5	120	80
	0	1	1		60	7.5	60	40
	1	x	x			Cannot be condensed.		
Propor-tional	0	x	0	max	68	8.6	—	46
				min	160	20	—	106.7
	0	x	1	max	34	4.3	—	23
				min	80	10	—	53.35
	1	x	0	max	137	17.1	—	91.3
				min	320	40	—	213.3
	1	x	1	max	68	8.6	—	45.65
				min	160	20	—	106.65
Propor-tional super/subscript	0	x	0	max	102	12.8	—	68.7
				min	240	30	—	160
	0	x	1	max	51	6.4	—	34.35
				min	120	15	—	80
	1	x	0	max	204	25.7	—	137.3
				min	480	60	—	320
	1	x	1	max	102	12.8	—	68.65
				min	240	30	—	160

Notes:

- Max is the value appropriate for the maximum width character.

- Min is the value appropriate for the minimum width character.

· — means that the printer automatically selects LQ mode when you select proportional pitch.

Table 1-7. Character Matrix and Character Size

Printing Mode	Face Matrix	HDD	Character Size H × V (mm)	Unit ESC sp·
Draft, 10 cpi	9 × 22	120	1.9 × 3.1	120
Draft, 12 cpi	9 × 22	120	1.9 × 3.1	120
Draft, 15 cpi	7 × 16	120	1.0 × 2.3	120
Draft, 10 cpi, condensed	—	240	—	120
Draft, 12 cpi, condensed	—	240	—	120
LQ, 10 cpi	31 × 22	360	2.2 × 3.1	180
LQ, 12 cpi	27 × 22	360	1.9 × 3.1	180
LQ, 15 cpi	22 × 16	360	1.0 × 2.3	180
LQ, 10 cpi, condensed	—	360	—	180
LQ, 12 cpi, condensed	—	360	—	180
LQ, proportional	max 37 × 22 min 18 × 22	360 360	2.6 × 3.1 1.0 × 3.1	180 180
LQ, proportional, condensed	— —	360 360	— —	180 180
LQ, proportional, super/subscript	max 28 × 16 min 12 × 16	360 360	1.8 × 2.3 0.7 × 2.3	180 180
LQ, proportional, super/subscript, condensed	— —	360 360	— —	180 180

Notes:

• HDD is the horizontal dot density in dots per inch.

• The face matrix and character size indicate the size of the maximum character. This value depends on the paper, the ribbon, and other variables.

• Unit ESC SP indicates the minimum length to be added to the right of the character specified using ESC SP. You can also send Unit Esc SP followed by the character string CHR$ (&h20).

· — indicates that printer firmware reshapes the character matrix. Character width is half of the noncondensed character width.

(Normal character)

1		Ascender area		
2				
3				
4	L			R
5	E			I
6	F			G
7	T			H
8				T
9	S			
10	P			S
11	A			P
12	C			A
13	E			C
14				E
15	(a0)			
16				(a2)

Descender area

Face width (a1)
9 dots
Character width (CW)
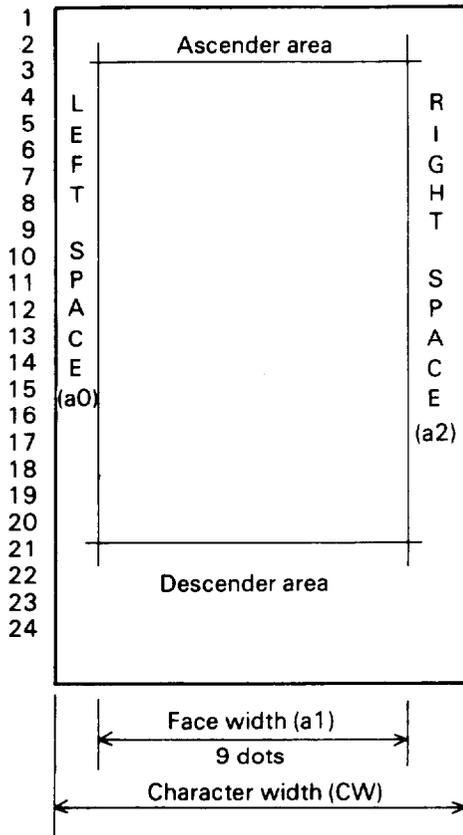
12 dots, 10 cpi, 120 dpi
15 dots, 12 cpi, 180 dpi
16 dots, 15 cpi, 240 dpi
14 dots, condensed, 10 cpi, 240 dpi
12 dots, condensed, 12 cpi, 240 dpi

(Normal character)

Ascender area

L
E
F
T

S
P
A
C
E
(a0)

R
I
G
H
T

S
P
A
C
E
(a2)

Descender area

Face width (a1)
29 dots
(Normal Q, excluding 15 pitch)
* 15 dots
(15 pitch and condensed LQ)
Character width (CW)
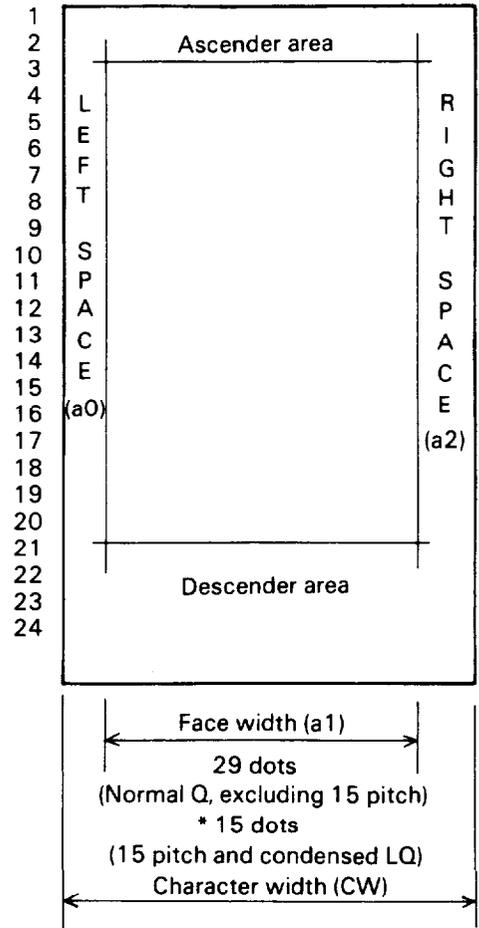
36 dots, 10 cpi, 360 dpi
30 dots, 12 cpi, 360 dpi
24 dots, 15 cpi, 360 dpi
21 dots, condensed, 10 cpi, 360 dpi
18 dots, condensed, 12 cpi, 360 dpi

* The printer firmware makes 15 dots from 29 dots.

(Subscript character)

L
E
F
T

S
P
A
C
E

R
I
G
H
T

S
P
A
C
E

(Subscript character)

L
E
F
T

S
P
A
C
E

R
I
G
H
T

S
P
A
C
E
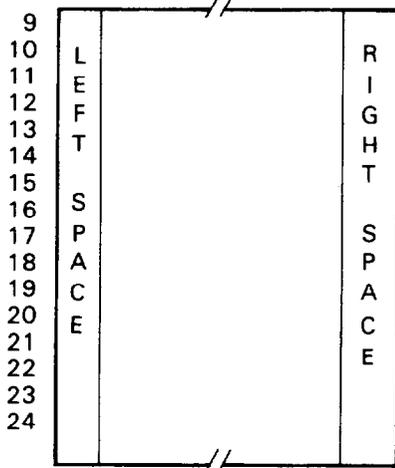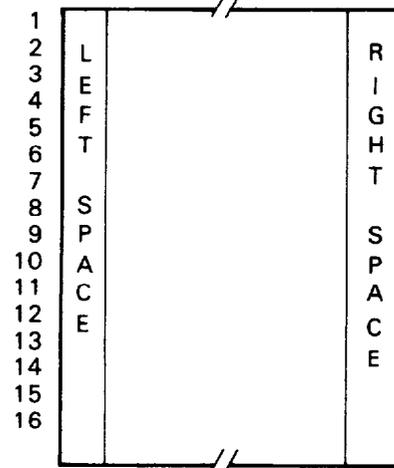
Figure 1-5. Character Matrix

Parallel Interface

This section provides the specifications for the standard parallel interface.

Data Format   8-bit parallel

Synchronization   -STROBE signal

Handshaking   BUSY and -ACKNLG signal

Signal Level   TTL compatible

Adaptable
Connector   57-30360 (Amphenol) or equivalent

Data Transmission
Timing   See Figure 1-6.
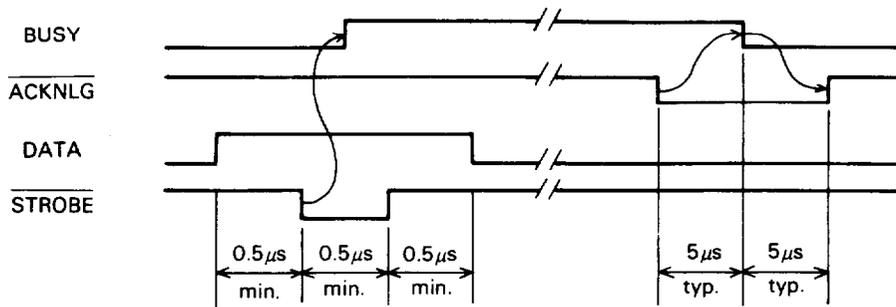
Figure 1-6. Data Transmission Timing

Table 1-8 shows the connector pin assignments and signal functions of the 8-bit parallel interface.

Table 1-8. Connector Pin Assignments and Signal Functions

Pin No.	Signal Name	Return Pin No.	DIR	Description
1	–STROBE	19	In	Strobe pulse to read the input data. Pulse width must be more than 0.5 μs. Input data is latched after the falling edge of this signal.
2 3 4 5 6 7 8 9	DATA 1 DATA 2 DATA 3 DATA 4 DATA 5 DATA 6 DATA 7 DATA 8	20 21 22 23 24 25 26 27	In In In In In In In In	Parallel input data to the printer. HIGH level means 1. LOW level means 0.
10	–ACKNLG	28	Out	This pulse indicates data has been received and the printer is ready to accept more data. Pulse width is approximately 11 μs.
11	BUSY	29	Out	HIGH indicates the printer cannot accept more data.
12	PE	30	Out	HIGH indicates paper-out. This signal is effective only when the –ERROR signal is LOW.
13	SLCT	—	Out	Output is always HIGH. (Pulled up to +5 V through 3.3K-ohm register.)
14	–AUTOFEED XT	—	In	If this signal is LOW when the printer is initialized, the printer automatically performs a line feed when it receives a CR code (auto LF).
15	—	—	—	Not used.
16	GND	—	—	Ground for twisted pair.
17	Chassis GND	—	—	Ground for chassis.
18	—	—	—	Not used.
19 to 30	GND	—	—	Ground for twisted pair.

Table 1-9. Connector Pin Assignments and Signal Functions (cont.)

Pin No.	Signal Name	Return Pin No.	DIR	Description
31	–INIT	16	In	Pulse (width: 50 μs minimum, active LOW) input for printer initialization.
32	–ERROR		Out	LOW indicates that an error has occurred.
33	GND	—	—	Ground for twisted pair.
34	—	—	—	Not used.
35	—	—	Out	Always HIGH. (Pulled up to +5 V through a 3.3K-ohm register.)
36	–SLCT-IN	—	In	If this signal is LOW when the printer is initialized, DC1/DC3 control is disabled.

Notes:

• DIR refers to the direction of signal flow as viewed from the printer.

• Return Pin No. denotes a twisted pair return line.

• The cable must be shielded to prevent noise.

• All interface conditions are based on TTL levels. The rise and fall times of all signals must be less than 0.2 ,us.

• You can set the -AUTO FEED-XT signal to LOW using DIP switch 2-4.

• You can set the -SLCT-IN signal to LOW using jumper 6.

• By setting the DATA 1 through 8 pins to the -STROBE signal, you can perform printing tests, including interface circuit tests, without using external equipment.

• Minus signs are used in front of signal names indicate active LOW signals.

Table 1-9 shows the handshaking (DC1/DC3) protocol.

Table 1-9. Handshaking (DC1/DC3) Protocol

On Line/ Off Line	˜SLCT-IN	DC1/DC3	˜ERROR	BUSY	˜ACKNLG	Data Entry
Off line	HIGH/ LOW	DC1/DC3	LOW	HIGH	No pulse	Disabled
On line	HIGH	DC1	HIGH	LOW/HIGH (during data entry)	Pulse output after entry	Enabled (normal process)
		DC3	HIGH	LOW/HIGH (during data entry)	Pulse output after entry	Enabled (Waits for DC1. See note 2.)
On line	LOW	DC1	HIGH	LOW/HIGH (during data entry)	Pulse output after entry	Enabled (normal process)
		DC3	HIGH	LOW/HIGH (during data entry)	Pulse output after entry	Enabled (normal process)

Notes:

1. Table 1-9 assumes that no *ERROR status exists other than that due to off line mode.

2. When the printer receives a DC3 code, it ignores input data. When the printer receives a DC1 code, data transmission continues.

3. The DC1 and DC3 codes are enabled only when the SLCT-IN signal (pin number 36) is HIGH and the printer is initialized.

4. If the SLCT-IN signal is LOW when the printer is initialized, DC1/DC3 handshaking is invalidated and the printer ignores the DC1/DC3 control codes.

5. If the SLCT-IN signal is HIGH when the printer is initialized, the printer starts from the selected (DC1) state.

6. Minus signs are used in this table to indicate active LOW signals.

DIP Switches and Jumpers

This section describes the functions of the DIP switches and jumpers.

DIP Switches

The LQ-200/AP3000 has two sets of DIP switches underneath the cartridge slot cover. Tables 1-10 through 1-15 describe the functions of these DIP switches. The printer reads the DIP switch settings only at power on or after receiving the -INIT signal.

Table 1-10. Dip Switch Set 1

Number	Description	On	Off
1 2 3	Italics: international set selection Graphics: character table selection	See Table 1-12	
4 5 6	Font selection	See Table 1-13	
7	Table Selection	Graphics	Italics
8	Cut sheet feeder (CSF) mode	On	Off

Table 1-11. Dip Switch Set 2

Number	Description	On	Off
1 2	Page length selection	See Table 1-14	
3 4 5 6	Auto line feed Input data buffer[1] Print direction for graphics[2] One-inch skip-over-perforation	On 8K Bidirectional On	Off 1KB Unidirectional Off
7 8	Character pitch selection	See Table 1-15	

Notes:

• 1. When DIP switch 2-4 is on, you cannot create user defined characters.

• 2. When DIP switch 2-5 is on, you can select bidirectional graphics printing using ESC UO.

Table 1-12. International Character Set and Character Table Selection

1-1	1-2	1-3	Country	Character Table
On	On	On	United States	PC 437 (United States)
On	On	Off	France	PC 850 (multilingual)
On	Off	On	Germany	PC 860 (Portugal)
On	Off	Off	United Kingdom	PC 863 (Canada-French)
Off	On	On	Denmark 1	PC 865 (Norway)
Off	On	Off	Sweden	PC 437 (United States)
Off	Off	On	Italy	PC 437 (United States)
Off	Off	Off	Spain 1	PC 437 (United States)
Default			United States	PC 437

Table 1-13. Font Selection

1-4	1-5	1-6	Font
Off	Off	Off	Courier
On	Off	Off	Roman
Off	On	Off	Sans Serif
On	On	Off	Prestige
Off	Off	On	Script
On	Off	On	OCR-B
Off	On	On	Orator
On	On	On	Draft

Table 1-14. Page Length Selection

2-1	2-2	Page Length	CSF Page Length
Off	Off	11 inches	61 lines (A4)
On	Off	12 inches	65 lines (letter)
Off	On	8.5 inches	61 lines (A4)
On	On	70/6 inches	65 lines (letter)
Default		11 inches	CSF page length 61 lines

Table 1-15. Character Pitch Selection

2-7	2-8	Character Pitch
Off	Off	10 cpi
On	Off	12 cpi
Off	On	17 cpi
On	On	20 cpi

Jumpers

Jumper 6, located underneath the cartridge slot cover, is user selectable. If you connect jumper 6, the -SLCT-IN signal is LOW and the printer ignores the DC1/DC3 control codes.

Operating Instructions

This section explains how to use SelecType, the self test, the demonstration, the hexadecimal dump, and other functions.

SelecType

The SelecType function allows you to easily choose any of the seven built-in LQ fonts when the printer is on line and not printing. To select a font, you press the FORM FEED button until the two SelecType indicator lights match the desired font.

Self Test

To run the self test in draft mode, turn on the printer while pressing the LINE FEED button. To run the self test in letter quality (LQ) mode, turn on the printer while pressing the FORM FEED button.

To stop or start the self test, press the ON LINE button. To end the self test, press the ON LINE button and then turn off the printer.

The first line of the self test shows the firmware revision number. Next the self test prints the current DIP switch settings.

```
XXXXX

Country        SW1-1 1-2 1-3      Page length     SW2-1 2-2
  USA            on   on   on         11"            off off
  France         on   on   off        12"            on  off
  Germany        on   off  on         8.5"           off on
  U.K.           on   off  off        70/6"          on  on
  Denmark        off  on   on      Auto LF         SW2-3
  Sweden         off  on   off        Invalid        off
  Italy          off  off  on         Valid          on
  Spain          off  off  off     Receive buffer  SW2-4
Font           SW1-4 1-5 1-6         1kbytes        off
  Courier        off  off  off       8kbytes        on
  Roman          on   off  off    Graphics print   SW2-5
  Sans Serif     off  on   of                        off
       stige     on   or                             on
                                                   SW2-6
```

Figure 1-7. Self Test

Demonstration

To start the demonstration, turn on the printer while holding down the LINE
FEED and ON LINE buttons.

THE EPSON® LQ-200

The Epson LQ-200 is the affordable, versatile, narrow carriage 24-
pin dot matrix printer for home and small business combining
excellent high resolution printing, convenient paper handling, and
a new standard for economical printing.

LOOK AT WHAT THE LQ-200 CAN   DO FOR YOU!

■ Outstanding 24-pin print quality ■ Sharp180 x 360 DPI graphics.

�■ 192 **CPS** draft print SP'   +ional cut sheet feeder

      ¯⁰ LO print   ¹imited.⁻

Figure 1-8. Demonstration