

- Internal modes:**
- HP LaserJet series II emulation
 - ESC/P 24-pin printer emulation (LQ-2500)
 - ESC/P 9-pin printer emulation (FX-86e/286e)

IC card slot: 1 slot for identity cards

Cartridge slot: 1 slot for font cartridges

Resident fonts:

HP LaserJet series IIP mode

Courier 10 cpi	Upright/Italic	P/L
Courier 12 cpi	Upright/Italic	P/L
Courier 10 cpi Bold	upright	P/L
Courier 12 cpi Bold	upright	P/L
Line printer 16.66 cpi	Upright	P/L

P: Portrait, L: Landscape

The Italic, Bold, and Landscape effects are created internally.

FX and LQ modes

Courier 10 cpi	Upright/Italic*	M/B	P/L
Courier 12 cpi	Upright/Italic*	M/B	P/L
Line printer			
16.66 cpi	Upright	M/B*	P/L
Prestige 12 cpi	Upright	M/B*	P/L*
Prestige 20 cpi	Upright	M/B*	P/L*

M: Medium, B: Bold, I: Portrait, L: Landscape

* The Italic, Bold, and Landscape effects are created internally.

External fonts: Optional fonts provided with font cartridges. Download fonts

Paper and paper delivery

Paper specifications

- Types:**
- Plain paper
 - Special papers:
 - Labels
 - Envelopes
 - Transparencies
 - Colored paper
 - Cardstock

Epson does not recommend or guarantee the use of any particular brand of paper. Because paper characteristics are subject to change by individual manufacturers, it is your responsibility to ensure the quality of paper used with the printer.

Paper weight: Plain paper: 60-90 g/m², 16-24 lb
Card stock: 90-157 g/m², 24-42 lb

Printer Specifications

Printing

- Printing method:** Laser beam scanning and dry electrophotographic process
- Resolution: 300 x 300 dpi
- Printing speed:** Up to 6 pages per minute for letter-size (depending on the font and quantity of data)
- First print:** Less than 20 seconds with letter (except when the STANDBY mode is on)
- Warm-up time:** 45 seconds or less at normal temperature

Paper size: Paper sizes using SelecType

Paper:

Type	Size
A4	210 x 297 mm
A5	148 x 210 mm
B5	182 x 257 mm
F4	210 x 330 mm
Letter	8.5 x 11 inches
Legal	8.5 x 14 inches
Half-Letter	5.5 x 8.5 inches
Executive	7.25 x 10.5 inches
Government Legal	8.5 x 13 inches
Government Letter	8.0 x 10.5 inches

Envelope:

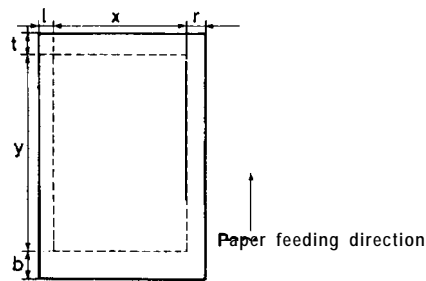
Monarch	3 ⁷ / ₈ x 7 ¹ / ₂ inches
Commercial-10	4 ¹ / ₈ x 9 ¹ / ₂ inches
DL	110 x 220 mm
C5	162 x 229 mm

Paper size range using software commands

Width 98-216 mm (3.86-8.5 inches)

Length 148-356 mm (5.83-14 inches)

Printable area:



Special sizes:

Basically, the paper area within a 1/4 inch (6.4 mm) border is the printable area for any paper size. Details for paper sizes using SelecType are shown below.

Paper feed alignment and direction:

Center alignment for all sizes

Paper feed:

Automatic or manual feed

Input paper supply (75 g/m² or 20 lb paper):

- 100 sheets
- 150 sheets (optional multi-media feeder)
- 15 envelopes (optional multi-media feeder)

Paper eject:

Face-down only

Paper eject capacity (75 g/m² or 20 lb paper):

50 sheets

Consumable products

Toner cartridge (5050002):

Storage temperature: 0 to 30°C (32 to 80°F)
For less than 20 days -20 to 43°C (-4 to 110°F)

Storage humidity: 20% to 80% RH
For less than 20 days 5% to 95%

Shelf life: 18 months after production

Typical life is up to 5000 pages under the following conditions: Letter-size paper, continuous printing, and 5% print ratio. Atmospheric pressure: No less than 740 millibar (about the same as 2500 m or 8200 ft altitude).

The number of pages you can print with a toner cartridge varies depending on the type of printing. If you print dense text exceeding the 5% print ratio, your cartridge may print fewer pages.

Photoconductor unit (S051005):

Storage temperature: 0 to 30°C (32 to 80°F)
For less than 20 days -20 to 43°C (-4 to 110°F)

Storage humidity: 20% to 80% RH
For less than 20 days 5% to 95%

Shelf life: 18 months after production

Life:

Photoconductor unit life is up to 30,000 pages. Atmospheric pressure: No less than 740 millibar (about the same as atmospheric pressure at 2500 m or 8200 ft altitude).

Ozone filter (packaged with toner cartridge):

Replace at the same time as the toner cartridge.

Mechanical

Dimensions and weight:

- Height: 177 mm (7.0 inches)
356 mm (14.0 inches)*
- Width: 479 mm (18.9 inches)
479 mm (18.9 inches)*
- Depth: 362 mm (14.3 inches)
700 mm (27.6 inches)*
- Weight: Approx. 13 kg (29 lb.)*

* Including paper cassette, photoconductor unit, output tray, and toner cartridge.

MPBF (Mean Prints Between Failures):

24,000 sheets (2,400 per month x 10 months)

MTBF (Mean Time Between Failures):

5,760 hours

Durability:

5 years or 180,000 sheets (3,000 per month x 60 months); whichever comes first.

Electrical

Rated voltage: 120 VAC

Rated current: 7A

Rated frequency range:
50 Hz to 60 Hz

Power consumption: Less than 600 W

Dielectric **strength (between AC line and chassis):**
Can withstand 1250 VAC rms for 1 minute.

Controller hardware

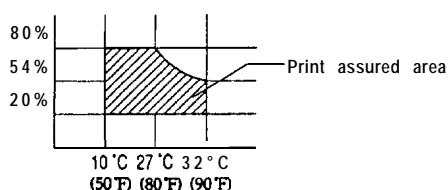
CPU: 68000, 16.66 MHz (CPU clock 14.1312 MHz)

RAM: Standard 0.5 MB (expandable up to 5.5MB)

Environmental

Temperature: 0 to 30°C (32 to 80°F)

Humidity: 20% to 80% RH



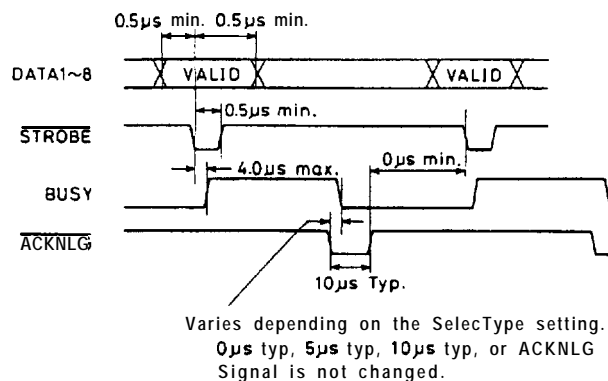
Atmospheric pressure: No less than 740 millibar (about the same as atmospheric pressure at a 2500 m or 8200 ft altitude)

Operating Angle: Should be kept level.

Interface Specifications

Interface timing

The figure below shows the timing for the parallel interface.



Note that it is possible to change the timing between $\overline{\text{ACKNLG}}$ and BUSY.

Signal level: TTL compatible

Serial interface (RS-232C)

Data format

Word length: 7 or 8 bits
Parity: none, odd or even
Stop bits: 1 or 2
Printer ready protocol: enabled (DTR and XON/XOFF protocol set to ON.)

The data format can be set using options and menu items in SelecType.

Baud rate

300, 600, 1200, 2400, 4800, 9600, 19200 bits per second.

Signal level

RS-232C: Conforms to ELA

Connector

D-sub 25pin connector

Handshaking

The printer's serial interface can use DTR (Data Terminal Ready) signal levels and XON/XOFF communication protocols either separately or in combination.

XON/XOFF protocol

When the vacant area for data in the input buffer drops to 128 bytes, the printer outputs an XOFF code, indicating that the printer cannot receive more data. Once the vacant area for data in the buffer recovers to 256 bytes, the printer outputs an XON code, indicating that the printer is again ready to receive data.

XON/XOFF protocol can be enabled using SelecType. The factory setting is "ENABLE."

DTR/DSR protocol

When the printer can receive the data, the printer sets the DTR signal level to high (SPACE). When the printer cannot receive data, the printer sets the DTR signal level to low (MARK). If the DTR menu in SelecType is set to off, the DTR signal is always treated as high (SPACE.) The printer sends the TXD (transmitted data) only when the DSR signal level is set to high (SPACE) except the DSR menu in SelecType is set to off. If the DSR menu in SelecType is set to off, the DSR signal is always treated as high (SPACE)

DTR/DSR protocol can be enabled using SelecType. The factory settings are DTR "ON" and DSR "OFF."

Error handling

A * character is printed if a parity error, framing error, or over-run error is detected.

Options

Multi-media feeder

Electrical

AC power supply: DC 24 V supplied by the printer

Insulation resistance: 10 Mohm minimum

Dielectric strength (between AC line and chassis):

Can withstand 1250 VAC rms for one minute.

Paper and paper delivery

Size: Paper Width: 98-216 mm (3.86-8.50 inches)
 Paper Length: 148-356 mm (5.83-14.0 inches)

Weight: Plain paper:
 60-157 g/m² (16-42 lb) Manual feed
 60-90 g/m² (16-24 lb) Auto feed
 Envelope:
 60-90 g/m² (16-24 lb)

Paper feed: Automatic **feed delivery system**
 Tray capacity up to 150 sheets (75 g/m² or 20 lb-paper)
 Tray capacity up to 15 envelopes (60-90 g/m² or 16-24 lb paper)
 Manual **Feed**
 60-157 g/m² (16-42 lb) plain paper or
 60-90 g/m² (16-24 lb) envelope

Feeding **speed:** Up to 6 pages per minute (letter-size paper).

Mechanical

Dimensions and weight:

Without the printer:
Height: 175 mm (6.9 inches)
Width: 326 mm (12.8 inches)
Depth: 384 mm (15.1 inches)
Weight: Approx. 13 kg (27 pounds)

Application Software

HP LaserJet IIP emulation mode

When your printer is in HP LaserJet IIP (LJ-2P) mode, the factory setting, select one of the following drivers from your program's printer selection menu. (They are listed in order of preference.)

- HP LaserJet IIP
- HP LaserJet series II™
- HP LaserJet Plus™
- HP LaserJet 500™
- HP LaserJet™

If none of the above printers is listed among your program's options, select any printer model that uses the HP Printer Command Language (PCL.). Do not select PCL-5.

Epson LQ and FX emulation modes

Enter your program's printer selection menu and choose the first printer available from the list of printers below. (They are listed in order of preference.)

When your printer is in LQ mode, select one of the following from your program's printer selection menu:

- LQ-2500
- LQ-1050/850
- LQ-510
- LQ-1000/800 (expanded ESC/P)
- L Q - 5 0 0
- LQ-1500 (with version 2 ROM)
- LQ printer

In FX mode, choose one of the following:

- FX-850/1050**
- FX- (286e/86e)**
- FX-85**
- FX-80**

If none of the above printers is listed among your program's options, choose the first available of the following: Epson printer, Standard printer, Draft printer.

Font Cartridges

This printer can use any of the font cartridges listed below when the HP LaserJet IIP emulation mode is selected. By using font cartridges, you can select many different styles of type in addition to the resident fonts in your printer.

Note: Some of the fonts contained on these font cartridges are duplicated by the resident fonts in the printer.

Supplier	Cartridge number	Cartridge
HP	92286A 92286B 92286C 92286D 92286E 92286F 92286G 92286H 92286J 92286K 92286L 92286M 92286N 92286P 92286Q 92286R 92286T 92286U 92286V 92286W 92286X 92286Y 92286Z 92290S1 92290S2 92286PC C2055A C2053A C2053A C2053A C2053A C2053A C2053A C2053A C2053A	Courier 1 Tms Proportional 1 International 1 Prestige Elite Letter Gothic Tms Proportional 2 Legal Elite Legal Courier Math Elite Math TmsRmn Courier P&L Prestige Elite P&L Letter Gothic P&L TmsRmn P&L Memo 1 Presentations 1 Tax1 Forms Portrait Forms Landscape Bar Code 3-of-9/OCR-A EAN/UPC/OCR-B PC Courier 1 Microsoft® 1 A Courier Document 1 TmsRmn/Helv Report 1 ProCollection #CO1 Great Start #CO1 WordPerfect #CO2 Microsott #CO3 Polished Worksheets. #CO4 Persuasive Presentations #CO5 Forms Etc. #CO6 Bar Codes & More #CO7 Text Equations #CO8 Global Text
Anacom		Alfajet MX-1 Maxi-One Cartridge Alfajet PC Maxi-Pro Cartridae
Peripherals		JetFont SuperSet JetFont 12/30 JetFont 4-in-1 JetFont SuperSet International
Everex		HardFont Cartridge B HardFont Cartridge F HardFont Cartridge T HardFont Cartridge Z HardFont Cartridge LGL HardFont Cartridge SST HardFont Cartridge BST HardFont Cartridge All-in-1 HardFont Cartridge A-TO-Z
IQ		Super Cartridge 1 Super Cartridge 2 Super Cartridge 2L Super Cartridge LC Super Cartridge 2WP

Supplier	Cartridge number	Cartridge
Pacific		25 Cartridges in One (Original Version) 25 Cartridges in One (172) Headlines in a Cartridge
UDP		DT1 -TMS RMN DT2-HELV 65-in-One
Intercon		PHONT+ PROIIP

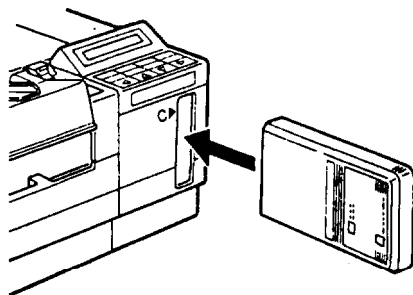
Caution: Use only the font cartridges listed above in your printer. Do not use other cartridges with this printer or you **may** damage your printer.

Inserting a font cartridge

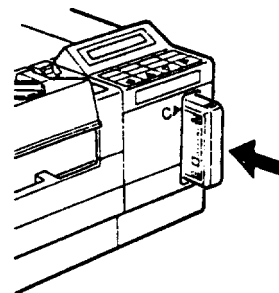
You insert a font cartridge into the slot on the front of the printer.

CAUTION:

- Never insert or remove a cartridge while the printer is on line, in SelecType mode, or while the printer is resetting (after you press **RESET**).
 - Be careful when you insert or remove a font cartridge. You **can** damage the cartridge by trying to insert it the wrong way or by using too much force.
 - Do not touch the connector on the bottom of the cartridge or the connector in the printer's cartridge slots. You could damage the cartridge or printer.
1. Make sure **that the printer is not in one of the following conditions:**
 - The **FEED** light is flashing fast (the printer is receiving data through the currently selected interface).
 - You are setting parameters using SelecType.
 - The display shows the **RESET** message.
 2. If the **FEED** light is on, press **ON LINE** to take the printer off line; then press **FEED** to print any data remaining in the buffer.
 3. Make sure the printer is off line (the **ON LINE** light is off) or turn off the printer.
 4. Hold the cartridge so that the label on the cartridge faces left as shown below.



5. Press firmly until the cartridge locks into place.



CAUTION: If the message **REMOVE CARD** appears on the display, you inserted the cartridge when the printer was on line or when the printer's memory contained data. If you see this message, remove the cartridge, press **CONTINUE**; then return to step 1.

6. If the power is on, press **ON LINE** to set the printer on line. If the power is off, turn **on** the printer.

The Memory Expansion Board

You probably need to add memory if you have trouble printing complex or graphics-intensive pages, or if any of the following messages appear often: **INSUFF MEMORY**, **PAGE BUFFER FULL**, or **ADD MEMORY**. Using the **INDIVIDUAL** setting in the **CH** mode in SelecType also requires additional memory.

There are two types of chips you can buy:

- 256K x 4 80 ns DRAM 20-pin DIP (Four of these constitute a 0.5MB chip set.)
- 1Mbit x 4 80 ns DRAM 20-pin DIP (Four of these constitute a 2.0MB chip set.)

The printer's built-in memory is 0.5MB. By installing the RAM chips as described in this section you can increase the printer's memory up to 5.5 MB.

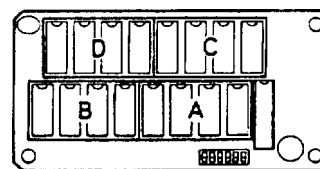
Note:

- Although the memory board can hold **up to 8.0MB** of RAM chips, the printer can access only 5.5MB of additional memory.
- Memory chips can be purchased from Epson Accessories.

First you install the RAM chips **on the** memory board. Then you install the memory board in the printer. If you have questions about this process, see your dealer or a qualified service person.

Installing RAM chips on the memory board C822061

There are four sectors on the memory board, each with four chip sockets, as shown below.



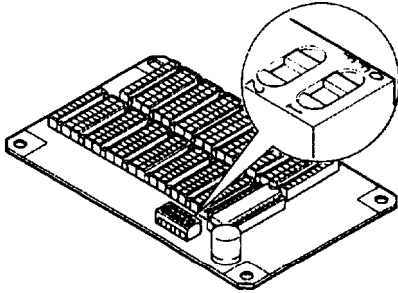
ActionLaser II

There are three **ways to install** chip sets on this board.

- 0.5MB chip sets in blocks A, B, C, and D
- A 2.0MB chip set in block A, and 0.5MB chip sets in blocks B, C, and D
- 2.0MB chip sets in blocks A and B, and 0.5MB chips sets in blocks C and D

After you have bought the chip sets and decided where to install them, follow the steps below

1. Locate the DIP switches on the memory board and make sure that switches 1 and 2 are off, as shown below.



2. Set the remaining DIP switches on the memory board according to the following table:

DIP Switch	Block	ON	OFF
1		Always off	
2		Always off	
3	A	2.0MB	0.5MB
4	B	2.0MB	0.5MB
5	C	2.0MB	0.5MB
6	D	2.0MB	0.5MB

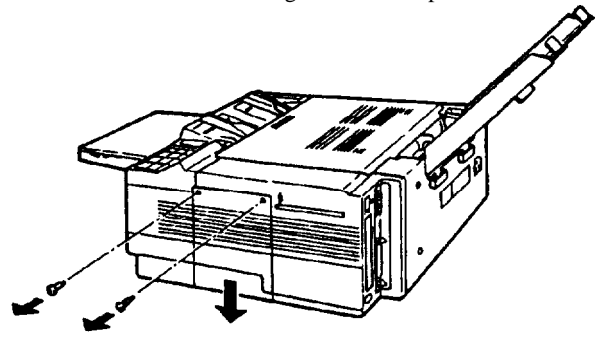
Installing the board

To install **the** memory expansion board, you need a cross-head screwdriver.

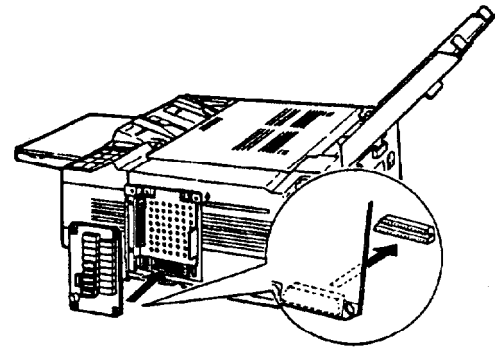
WARNING: Do not remove any screws other than **the** brass-colored screws specified in the following steps. **High** voltages are present inside the printer when the power is on. Do not attempt to install **the** memory board unless the printer is turned off and the power cord is unplugged. **Also, try not to touch any contacts on the circuit board of the printer** because many of the components can be destroyed by the static electricity in your body.

1. Unplug **the** power cable **from** the printer,
2. Disconnect all interface cables from the rear of printer.

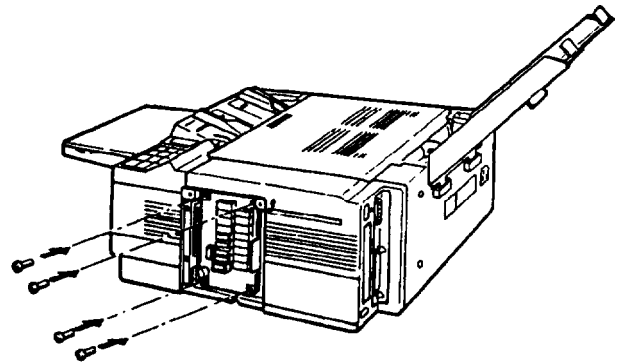
3. Remove the two brass-colored retaining screws and **the** memory board cover located on the right side of the printer.



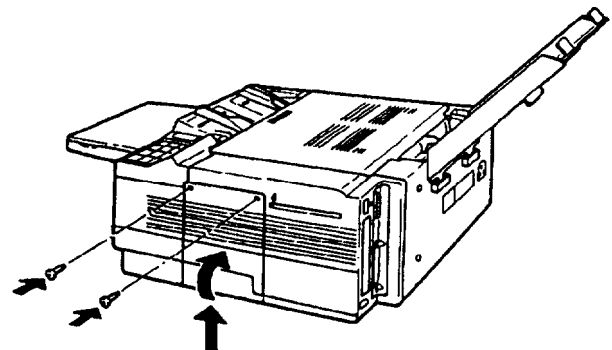
4. Insert the optional memory board (**with** memory chips installed) into the printer. **Make sure the connectors fit together securely.**



5. Secure the board using the four screws attached to the memory board.



6. Place **the** memory board cover over the memory board as shown below. Then, secure the cover using the brass-colored screws.



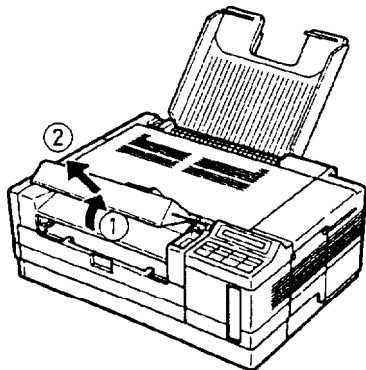
Paper Handling Options

The Multi-Media Feeder

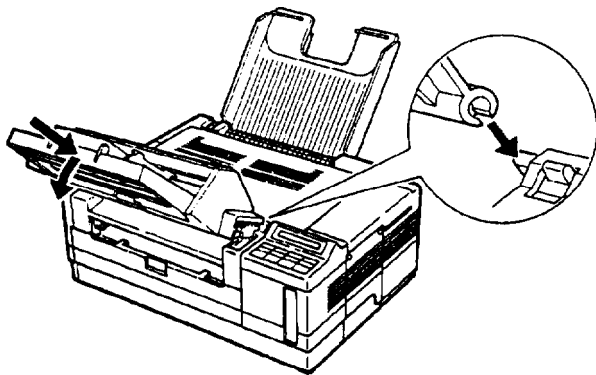
The optional multi-media feeder handles automatic feeding of many types of paper. It holds up to 150 **sheets** of paper, and it can feed paper from 98 to 216 mm (3.86 to 8.50 inches) wide and from 148 to 356 mm (5.83 to 14.0 inches) long. You can load two different sizes of paper in your printer at once (one size in **the** multi-media feeder and **the** other in your standard paper cassette). You can also set SelecType Level 1 INPUT to AUTO and use both the multi-media feeder and the standard paper cassette for continuous printing of up to 250 sheets of the same size paper.

Installing the multi-media feeder

1. Remove the manual feed paper guide.



2. Attach the multi-media feeder as shown below. Then, mount the multi-media feeder safely on the printer.



Status and Error Messages

If an error occurs, your best source of information is the display **on** the control panel. The messages displayed there tell **you what may be wrong** and, in some cases, indicate the actions you should take to correct the problem. Status messages appear on the display during normal operation. They indicate **the** printer's current status.

This section contains **an** alphabetical list of status and error messages you may encounter while printing and includes steps you can take to correct **any** problems.

Note: In some **cases**, the red **CONTINUE** light flashes when an error is detected. This requires you to correct **the** problem and then press **CONTINUE** to clear the error. However, if the AUTO CONT option in SelecType is set to on, some errors may clear automatically even **though the** problem remains. In most instances, you should leave AUTO CONT set to off.

The messages

In **this** section, status messages are preceded by [S], error messages are preceded by [E] and warning messages are preceded by [W]. In some cases the message you see on your display also shows the printer mode.

[E] ADD MEMORY FOR U-I-X

This indicates that there is not enough memory in Channel X. See Chapter 4 for instructions on changing the RX-BUFFER SIZE or adjusting the memory distribution in the INDIVIDUAL setting or see Appendix A for adding memory.

[E] CANCEL MANUAL FEED

This message indicates that there is no paper in the manual feed slot when you are using manual feed. See Chapter 5.

[E] CHANGE PCU XXXXX

Replace the photoconductor unit as described in Chapter 6. The PCU counter tells you the number of pages that have been printed.

[S] CHAR CREATING

Characters are being created.

[S] COPY END

Multiple-copy printing is cancelled. (You pressed the **COPY END** button when the printer was off line.)

[E] COVER OPEN

The printer or fan cover is open or the toner cartridge or photoconductor unit is not installed. Close the printer or fan cover or install the toner cartridge and photoconductor units.

[S] DATA

The printer has received data but is not yet printing or **the** printer has received data and is off line. If the printer is off line, press **FEED** to print the data.

[E] FEED JAM

Paper is not feeding into the printer from the specified cassette or has jammed on its way into the printer. See the FEED JAM section in this chapter for information.

[S] FONT CREATING

A font is being created.

[S] GRAPHIC DRAWING

Graphics are being drawn.

[E] ILLEGAL CARD

A card in the card slot or a cartridge in **the** cartridge slot cannot be read. To correct this error, take the printer off line and then press **CONTINUE**. If the error **message** remains, make sure the printer is off line and remove the card or **the** cartridge. If **the** red **CONTINUE** light still flashes, press **CONTINUE**.

[S] INITIALIZE

The printer is being initialized to the factory or optional settings.

- [E] **INSUFF MEMORY**
The printer has insufficient memory available for the task you **have given** it. To correct **the** error, press **CONTINUE**. If **the message** remains, press **RESET** or perform **INITIALIZE**. This error can also be cleared by turning the printer off and back on again. However, it may be necessary to simplify the page you are trying to print or add more memory to the printer.
- [E] **PAGE BUFFER FULL**
Text or graphics data has filled the printer's buffer and an incomplete page is ejected. Press **CONTINUE** to clear **the** error. You may need to add more memory to **the** printer.
- [S] **PAPER FEEDING**
The printer is feeding paper.
- [E] **PAPER JAM**
Paper is **not** being fed into the printer or paper is jammed inside the paper path. See the **PAPER JAM** section later in this chapter.
- [E] **PAPER OUT**
There is no paper in the standard paper cassette or the optional multi-media feeder (if installed). Insert more paper into the selected paper cassette or manually feed a sheet of paper into the printer.
- [E] **PAPER OUT [paper source][paper size]**
There is **no** paper in the paper source from which the printer expects to feed paper. The right column of the display prompts you to load the correct paper size into the paper source.
- [E] **PAPER SIZE ERROR**
The paper size you selected with SelecType (or the default size if **you have not** selected a size) does **not match** the paper loaded in the selected paper **source**. Press **CONTINUE** to clear **the** error. Insert the correct paper **or change** the P-SIZE setting **with your** application software or with SelecType.
- [S] **PRINTING**
The printer has received data and is printing.
- [S] **PRINT STOP**
The printer stops printing during a multi-copy print operation.
- [S] **RAM Check X.X MB**
The printer is checking RAM (X.X = capacity).
- [S] **READY**
The printer is ready to print.
- [E] **REINSERT CARD**
If this message appears on the display, you may have **removed an** identity card or a font cartridge while the **FEED** light was still lit or while **the** printer was on line. To correct the error, make sure the printer is off line. Next, reinsert the card or cartridge and press **CONTINUE**.
- [E] **REMOVE CARD**
You may have inserted an identity card or a font cartridge while the printer was on line or while **the FEED** light was on. To correct **this** error, take the printer off line, then remove the card or cartridge and press **CONTINUE**. Before reinserting **the** card or cartridge, make sure that all data in the buffer has been printed and that the printer is off **line**. If **the FEED light is on**, press **FEED** to print out the remaining data.
- [E] **RESELECT TRAY**
The optional **multi-media** feeder is not installed and the **INPUT** option is set to **OPT** or **AUTO**. Install the optional multi-media feeder and **then** press **CONTINUE**. However, if you decide not to use the optional multi-media feeder, simply press **CONTINUE** and paper is automatically selected from the standard paper cassette.
- [S] **RESET**
The printer has been reset to previous settings to the macro number specified with the **LOAD MACRO** setting in **the** **SYSTEM CONFIG** option of SelecType Level 1.
- [S] **ROM Check**
The printer is checking ROM.
- [E] **SAVE MEMORY OVERFLOW**
This message may appear **when you** are trying to save a **macro** with the **SYSTEM CONFIG** option **SAVE MACRO** setting in SelecType Level 1. The printer does **not have** enough memory to save any additional macros. To correct this error, delete unused macros using the **DELETE MACRO** setting, and then repeat **SAVE MACRO**.
- [E] **SERVICE REQ. CXXX**
[E] **SERVICE REQ. E00XX**
A controller or print engine error has been detected. Write down the error number **that** appears in the right column of the display and turn off the printer. Turn the printer back on after a few **seconds to** see if the error message still appears. If it does, turn off the printer, unplug the power cord from the electrical outlet, and contact a qualified service person.
- [E] **SET [paper size] MANUAL**
This message requires that you set the paper size for manual feeding.
- [E] **STARTUP ERROR**
Press \blacktriangleleft to continue.
- [E] **SET FULL PRINT**
This message may appear **when you** are trying to print graphics or **a mix of text and** graphics. Press **CONTINUE** and then **change the** **FULL PRINT** setting in SelecType Level 1. See Chapter 4 for more information about this setting.
- [S] **STANDBY MODE**
If the standby mode is enabled, the printer enters this mode when it is not used for about thirty minutes. This **message** appears. Press any control panel button or send data to the printer to warm it up. It will also enter this mode after **8 hours even** if the mode is disabled.
- [W] **TONER LOW**
The printer is almost out of toner. When you see this message, you can still print up to 20 more pages. Then you must replace the toner cartridge.
- [E] **TONER OUT**
The toner cartridge must be replaced.
- [E] **TRAY SET XXX**
The paper-size setting does not match the paper loaded in the specified paper cassette. The right column of **the** display indicates the currently selected cassette and **the** expected paper size. You can either change the paper-size setting or load the correct paper size. After you correct the paper mismatch, press **CONTINUE**.
- [S] **WARMING UP**
The printer is warming up.

SelecType

The SelecType function on the printer control panel allows you to print test pages, display memory size, select paper sizes, and change your printer's configuration without using DIP switches or software commands. However, use SelecType only when you are unable to use your application software to control settings required for your print job.

Note: New SelecType settings are in effect only until you turn off the printer unless you save them with the Level 1 SYSTEM CONFIG option or the Level 2 P-CONFIG SAVE option described later in this chapter.

SelecType is divided into two levels as shown below. A brief description of each main menu option follows.

Level 1	Level 2
CH SELECT	TEST PRINT
INPUT	MODE ASSIGN
P-SIZE	I/F CONFIG
COPIES	RX-BUFFER SIZE
ORIENT	CH
FONT	CH TIMEOUT
STATUS SHEET	AUTO CONT
FONT SAMPLE	P-CONFIG SAVE
SUB CONFIG	FACTORY RESET
SYSTEM CONFIG	VERSION
	PAGE COUNTER
	STANDBY

SelecType Level 1 functions

INPUT	Selects the standard cassette or the optional multi-media feeder or both.
P-SIZE	Specifies the size of paper.
COPIES	Selects the number of copies to be printed.
ORIENT	Orientation. Selects portrait (vertical) or landscape (horizontal) printing orientation.
FONT	Selects one of the available fonts.
STATUS SHEET	Prints a report listing the current printer settings.
FONT SAMPLE	Prints all font samples (bit-map and scalable fonts) in the printer.
SUB CONFIG	Subconfiguration. Depending on the printer mode, controls such features as symbol set and number of text lines.
SYSTEM CONFIG	System configuration. Saves Level 1 settings in macros for one or more printer modes, displays the amount of memory remaining, changes top and left offsets, and controls printing of complex pages.

SelecType Level 2 functions

TEST PRINT	Prints two test patterns.
MODE ASSIGN	Chooses one of the emulation modes: HP LaserJet IIP, Epson LQ, Epson FX, or (with the optional identity card installed) Epson GL.

I/F CONFIG	Configures the parallel and serial interfaces.
RX-BUFFER SIZE	Chooses the size of the receive buffer.
CH	Channel mode. Sets the interface channels to auto-sense or individual.
CH TIMEOUT	Channel time out. If no data is sent during the specified time period, the printer switches from one channel to the other.
AUTO CONT	Automatic continue. Permits the printer to continue printing instead of stopping under certain error conditions.
P-CONFIG SAVE	Printer configuration save. Saves all Level 2 settings.
FACTORY RESET	Returns all Level 1 and Level 2 settings to their factory settings.
VERSION	Displays the version numbers of the printer's controller and font.
PAGE COUNTER	Displays the total number of sheets printed by the printer and the number by the current photoconductor unit.
STANDBY	Conserves power by reducing power to the fixing heater when the printer is not used for 30 minutes.

This section lists all the options available when you use SelecType. Most options are the same whether you're working in LJ-2P, LQ, or FX emulation mode. Some of the options in Level 1, however, have a different function for each mode.

Printing a Status Sheet

Selecting and printing a status sheet

A status sheet lists the current printer settings.

1. Make sure that your printer is turned on.
2. Press the **SelecType** button until SelecType LEVEL1 appears.

Note:

- If you have used SelecType before, and if the printer is set up to use more than one channel, the following option appears on the display at step 2:

```
CANCEL:<S:▲ P:▼ O:>
```

- Press Δ , ∇ , or \triangleright to choose your channel. Then go on to step 3.
3. Press V until STATUS SHEET appears on the display.

```
◆STATUS SHEET ▶
```

- Press \blacktriangleright twice to print the status sheet. A sample printout is shown below.

```

                STATUS SHEET                EPSON
Printer Configuration
  Installed Memory : 3.0Mbytes      Controller Version : 14.15
  CH Mode          : AUTO-SENSE    CH Time out       : 28
  Auto Continue   : OFF           Total Printed Count: 25
  Standby         : DISABLE
  CH : P
  Mode           : LJ-2P          Version              : 17.13
I/F : PARALLEL
PARALLEL (CH P)
SLCTIN : OFF      AUTOFEED      : OFF      BUSY Delay(μs) : 0
SERIAL (CH S) : RS232C
Word Length(bit) : 8      Baudrate(bps) : 9600      Parity          : NONE
Stop Bit         : 2      DTR           : ON       XON/XOFF       : ON
DSR              : OFF    CTS           : OFF    EMQ/ACK        : OFF
Receive Buffer   : 1Kbytes
Mode Configuration
Input Tray      : AUTO          Font             : RD-0      Paper Size     : LETTER
Copies         : 1              Orientation      : PORT
Sub Configuration
Form Length    : 60            Symbol Set      : Roman-8
System Configuration
Top Offset     : 0              Left Offset     : 0
Full Print     : 0              Memory Left     : 294Kbytes
Load Macro     : 0              Power On Macro  : 0
    
```

Note: The status sheet prints the printer's current settings, including any new macro settings.

Data Dump Mode

Data dump mode is a special feature that makes it easy for experienced users to find the cause of communication problems between the printer and computer. The data dump mode produces an exact printout of the codes reaching the printer.

- Make sure that **the** printer is loaded with paper and turned off.
- Hold down the **SelectType** button while you turn **on** the printer. Make sure you hold the button down until **the message** HEX DUMP appears on the display.
- Run any program that causes the printer to print (either an application program or a program written in any programming language). Your printer prints out all of the codes sent to it in hexadecimal format as shown in the sample below.

```

0000 18 52 10 18 43 45 19 68 00 18 70 00 18 63 0C 18 .R..CE.k..p..c..
0001 74 01 18 32 54 72 8F 75 62 8C 65 20 73 68 6F 6F t...2Trouble sho
0002 74 68 6E 67 20 20 20 20 0D 0A 54 68 69 73 20 ting ..This
0003 63 68 61 70 74 65 72 20 64 89 73 63 75 73 73 65 chapter discusse
0004 73 20 70 72 6F 62 6C 65 6D 73 20 79 6F 75 20 6D s problems you m
0005 61 79 20 65 6E 63 6F 75 6E 74 65 72 20 61 6E 64 ay encounter and
0006 20 74 68 65 69 72 20 6C 68 68 65 6C 79 20 73 6F their likely so
0007 6C 75 74 69 6F 6E 73 2E 20 0D 0A 0D 0A 49 66 20 lutions. ....If
0008 61 6E 20 65 72 72 6F 72 20 6F 63 63 73 72 73 2C an error occurs,
0009 20 79 6F 75 72 20 62 65 73 74 20 73 6F 75 72 63 your best sourc
000A 85 20 8F 66 20 69 6E 66 6F 72 6D 61 74 69 6F 6E e of information
000B 20 00 0A 69 73 20 74 68 65 20 64 69 73 70 6C 61 ..is the displa
000C 79 20 6F 6E 20 74 68 65 20 63 6F 6E 74 72 6F 6C y on the control
000D 20 70 61 6E 65 6E 20 0D 0A
    
```

Choosing a Paper Size

The factory paper-size setting is set to letter. Whenever possible, use your application software settings to choose the paper size you require for your print job. If you cannot select **the** paper size with your application program, you **can** use the SelecType Level 1 P-SIZE option.

You need to choose the paper size (preferably with your software) if you use a paper other than letter size and:

- you use manual feeding
- you install the multi-media feeder
- you return to letter-size printing after using another paper size.

The table below lists all the paper sizes on the SelecType menu.

Paper:	Dimension:
A4	210 x 297 mm
A5	148 x 210 mm
B5	182 x 257 mm
LETTER	8.5 x 11 inches
HALF LT (Half letter)	5.5 x 8.5 inches
LEGAL	8.5 x 14 inches
GLT (Government letter)	8 x 10.5 inches
GLG (Government legal)	8.5 x 13 Inches
EXE (Executive)	7.25 x 10.5 inches
F4	210 x 330 mm
Other	-
Envelopes:	
MONARCH	3 7/8 x 7 1/2 inches
C10 (Commercial- 10)	4 1/8 x 9 3/4 inches
D L	110 x 220 mm
C5	162 x 229 mm

The following table lists recommended paper-feed methods for different print media. (If you want to try other methods, be sure to test-print a few sheets before beginning regular use.)

Material	Feed
Regular Paper (60-90 g/m ² 16-24 lb)	Auto, manual, or optional MMF (Multi-media feeder)
Heavy Paper (90-157 g/m ² 24-42 lb)	Manual or optional MMF
Envelopes	Manual or optional MMF
Transparencies	Manual or optional MMF
Labels	Manual or optional MMF

Note:

- Paper feeding and print quality are usually best with regular paper.
- Paper feeding is possible, although print quality cannot be guaranteed, **with** other types of media.
- To print on letterhead paper, load **the** paper face down with the top of the paper **entering the** printer first.
- To automatically load various types of media into the printer, use the optional multi-media feeder. See Appendix A.

Installation/Support Tips

Set Up

1. Install a font cartridge or an HPGL card only when the power is off.
2. Do not use the individual feature unless you have installed optional memory. If you set this option before adding memory, you could damage the printer.

Software

1. When using software packages with the ActionLaser II, select HP LaserJet series IIP as the printer. If this is not available, select HP LaserJet series II. If neither is available, select HP LaserJet+.
2. If you are using a font cartridge, ensure that the software is set up to support it.

Information Reference List

Engineering Change Notices

None.

Product Support Bulletins

None.

Technical Information Bulletins

None.

Related Documentation

TM-ACTLASII	ActionLaser II Service Manual
PL-ACTLASII	ActionLaser II Parts Price List
SPKACTLASII	ActionLaser II Self Paced Kit
4000468	ActionLaser II User's Guide
4000577	ActionLaser II Your First Laser Printer
4000478	ActionLaser II Quick Setup & Maintenance Guide