

# Product Support Bulletin

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Subject: DFX-5000, DFX-8000 and Avatar EP-Connect

Date: 10/9/92  
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PSB No: P-0091  
Originator: REW

Avatar Corporation distributes the EP-Connect coax interface for the Epson DFX-series and other Epson dot-matrix printers that use A-type interfaces. This EP-Connect coax interface allows a connection to an IBM 3174/3274/3276 control unit or 4300 series Display Printer Adaptor using standard type A coaxial cable.

When using EP-Connect and the DFX-series printers, there have been some intermittent operational problems reported. It has been determined that this is caused by the type of connector used on the EP-Connect interface that plugs into the printer's main controller board. There are two types of connectors that have been used on the EP-Connect coax interface. One type is a "FUJITSU" connector. The other is a "HONDA" connector. The "FUJITSU" connector has slightly shorter pins than the "HONDA" connector. Epson America, Inc. does not recommend the use of the EP-Connect interface that has the 'FUJITSU' connector unless it is used on a unit that has the countermeasure described below.

To identify which connector type the EP-Connect interface has, simply look directly at the interface connector. The "HONDA" connector will have the name "HONDA" printed directly on the black part of the connector. If there is no label, it is the "FUJITSU" connector. Epson America, Inc. recommends the "HONDA" connector.

There are approximately 1,600 of the EP-Connect interfaces on the market that contain the non-approved "FUJITSU" connector. To accommodate these interfaces Epson has taken a countermeasure on the DFX series printers. This involves adjusting the position of the ORII/F circuit board and changing the securing points. As a result, Epson only recommends the use of the Avatar board with the "FUJITSU" connector on DFX series printers that have the countermeasure installed. The starting serial number for the printers that have the countermeasure installed is outlined below.

| <u>PRINTERS</u> | <u>STARTING SN#</u> |
|-----------------|---------------------|
| DFX-5000        | 0G20A11434          |
| DFX-8000        | ovz0007714          |

If further information is needed on this subject, please contact Epson's Technical Support Department. For additional information on the EP-Connect interface, please contact Avatar Corporation at (508) 435-6872.

# Product Support Bulletin

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Subject: Quick Reference for Current Dot-Matrix Printer Print Speeds

Date: 10/9/92  
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PSB No: P-0030C  
Originator: SLS

## 9-PIN PRINTERS

| Draft<br>Model<br>10 CPI | Draft<br>12 CPI | High-Speed<br>Draft 10 CPI | NLQ<br>10 CPI | NLQ<br>12 CPI   |
|--------------------------|-----------------|----------------------------|---------------|-----------------|
| AP-2250                  | 200 CPS         | 240 CPS                    | n/a           | 40 CPS 48 CPS   |
| LX-81 0                  | 200 CPS         | 240 CPS                    | n/a           | 40 CPS 48 CPS   |
| <b>FX-870/1170</b>       | 285 CPS         | 342 CPS                    | 380 CPS       | 57 CPS 68 CPS   |
| DFX-5000                 | 400 CPS         | 480 CPS                    | 533 CPS       | 80 CPS 96 CPS   |
| DFX-8000                 | 800 CPS         | 960 CPS                    | 1066 CPS      | 160 CPS 192 CPS |

## 24-PIN PRINTERS

| Model              | Draft<br>10 CPI   | Draft<br>12 CPI | High-Speed<br>Draft 10 CPI | LQ<br>10 CPI | LQ<br>12 CPI   |
|--------------------|-------------------|-----------------|----------------------------|--------------|----------------|
| AP-3250            | 167 CPS           | 200 CPS         | n/a                        | 60 CPS       | 72 CPS         |
| <b>LQ-570/1070</b> | 210 CPS           | 252 CPS         | 225 CPS                    | 70 CPS       | 84 CPS         |
| LQ-860             | 246 CPS           | 295 CPS         | 300 CPS                    | 82 CPS       | 98 CPS         |
| <b>LQ-870/1170</b> | 275 CPS           | <b>330 CPS</b>  | <b>300 CPS</b>             | 92 CPS       | 110 CPS        |
| LQ-2550            | 333 CPS   400 CPS |                 | n/a                        | 111 CPS      | <b>133 CPS</b> |

### GLOSSARY OF TERMS

**CPI:** Characters Per Inch

**CPS:** Characters Per Second

**Draft:** Draft uses a minimum number of dots per character for high-speed printing.

**Elite:** 12 Characters Per Inch (12 CPI)

**Pica:** 10 Characters Per Inch (10 CPI)

**LQ:** Letter Quality reduces the print speed and increases the number of dots per character to increase the print quality. (24-pin printers only)

**NLQ:** Near Letter Quality reduces the print speed and increase the number of dots per character to increase the print quality. NLQ printing requires two passes per character. (9-pin printers only)

# Product Support Bulletin

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Subject: Quick Reference for 9/24 Pin Printer Paper Specifications

Date: 10/9/92  
Page(s): 1 of 1

PSB No: P-0022D  
Originator: SLS

This PSB provides a quick reference for the paper specifications on Epson's current line of 9-pin and 24-pin dot-matrix printers when using continuous paper. The 'Maximum No. of Copies' is the maximum allowable number of copies when using continuous multi-part carbonless paper. The "Total" number is the maximum allowable number of copies including the original. The 'Maximum Total Thickness' is the maximum allowable total thickness including the original plus any copies.

## 9-PIN PRINTERS

| Model                       | Orig. + Maximum No. of Copies |   | Total | Maximum Total Thickness |
|-----------------------------|-------------------------------|---|-------|-------------------------|
| AP-2250 .                   | 1                             | 2 | 3     | 0.0098" (0.25mm)        |
| LX-810                      | 1                             | 2 | 3     | 0.0098" (0.25mm)        |
| <b>FX-870/1170</b>          | 1                             | 3 | 4     | 0.0126" (0.32mm)        |
| DFX-5000<br>(Front Tractor) | 1                             | 5 | 6     | 0.018' (0.46mm)         |
| (Rear Tractor)              | 1                             | 3 | 4     | 0.012" (0.30mm)         |
| DFX-8000<br>(Front Tractor) | 1                             | 5 | 6     | <b>0.018"</b> (0.46mm)  |
| (Rear Tractor)              | 1                             | 3 | 4     | 0.012" (0.30mm)         |

## 24-PIN PRINTERS

| Model              | Orig. + Maximum No. of Copies |   | Total | Maximum Total Thickness |
|--------------------|-------------------------------|---|-------|-------------------------|
| AP-3250 *          | 1                             | 1 | 2     | 0.0071" (0.18mm)        |
| <b>LQ-570/1070</b> | 1                             | 3 | 4     | 0.0126" (0.32mm)        |
| LQ-860             | 1                             | 3 | 4     | 0.0126" (0.32mm)        |
| <b>LQ-870/1170</b> | 1                             | 3 | 4     | 0.0126" (0.32mm)        |
| LQ-2550            | 1                             | 5 | 6     | 0.018' (0.46mm)         |

\* Note: The AP-2250 and AP-3250 require an optional push tractor to use continuous paper.

# Product Support Bulletin

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Subject: Quick Reference for Printer Acoustic Noise Levels

Date: 6/5/91  
Page(s): 1 of 2

PSB No: P-0016D  
Originator: SLS

Sound intensity is measured in units called Bels (named after Alexander Graham Bell,) or more commonly in tenths of this fundamental unit: decibels. In making noise measurements a weighting network is applied in an attempt to match the frequency response of the instrument to that of the human ear. The most common is the A weighting network, with resulting measurements expressed in dB(A).

The following is a list of current product's noise levels tested in accordance with standards set by the International Standards Organization (ISO). The acoustic noise levels for the 9 pin printers are averages while printing in Near Letter Quality (NLQ) mode using continuous paper and are not guaranteed figures. The acoustic noise levels for the 24 pin printers are averages while printing in Letter Quality (LQ) mode using continuous paper and are not guaranteed figures. The acoustic noise levels for the laser printers are averages while using single sheet paper and are not guaranteed figures.

## 9 PIN PRINTERS

| MODEL    | NOISE LEVEL |
|----------|-------------|
| IX-81 0  | 56 dB(A)    |
| FX-850   | 56 dB(A)    |
| FX-1050  | 56 dB(A)    |
| DFX-5000 | 55 dB(A)    |
| DFX-8000 | 55 dB(A)    |

## 24 PIN PRINTERS

| MODEL   | NOISE LEVEL |
|---------|-------------|
| LQ-200  | 55 dB(A)    |
| LQ-510  | 56 dB(A)    |
| LQ-1010 | 56 dB(A)    |
| LQ-850  | 56 dB(A)    |

| MODEL   | NOISE LEVEL |
|---------|-------------|
| LQ-860  | 55 dB(A)    |
| LQ-1050 | 55 dB(A)    |
| LQ-2550 | 55 dB(A)    |

### **LASER PRINTERS**

| MODEL    | NOISE LEVEL |
|----------|-------------|
| EPL-7000 | 50 dB(A)    |
| EPL-7500 | 50 dB(A)    |