

Product Support Bulletin

Subject: 24 Pin Printer Error and Beep Codes

Date: 4/3/91
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PSB No: P-0076
Originator: JV

Epson printers issue beep tones when certain error conditions exist. Those beeps can assist you in locating and repairing customer's printers. The following error codes are listed by product name.

NOTE: Most of the beeps issued by the printers are of .1 second duration with a .1 second pause between beeps. Where the beeps or the pauses are longer, it has been noted in the text. The description "3 Beeps x 2" means two sets of three beeps.

LQ-200/AP-3000

1 beep:	BEL code
1 beep:	A Control Panel setting is accepted.
3 beeps:	Paper End detected
5 beeps:	Abnormal carriage movement
On-Line light is flashing:	Printhead is over heated. Carriage will stop until the printhead cools down.

LQ-500, LQ-510, LQ-1010, LQ-650, LQ-950, LQ-1050, L1000, AP-4000, AP-4500

1 beep:	BEL code (.5 sec beep)
1 beep:	A Control Panel setting is accepted
3 beeps:	Paper End detected
5 beeps:	Abnormal carriage movement

LQ-800, LQ-1000, L750

1 beep:	BEL code
1 beep:	A Control Panel setting is accepted
3 beeps:	Paper End detected
5 beeps:	Abnormal carriage movement (.5 sec. pause between beeps)
5 beeps:	+35V supply is abnormal

LQ-860

1 beep:	BEL code (.5 sec. beep)
1 beep:	A Control Panel setting is accepted
3 beeps:	Paper End detected
5 beeps:	Color select mechanism error (.5 sec. beep, .5 sec between beeps)
5 beeps:	Abnormal carriage movement (.5 sec. beep, .5 sec between beeps)
5 beeps:	CG ROM failure (.5 sec. beep, .5 set between beeps)

LQ-1500

1 beep:	BEL code
5 beeps:	Paper End detected
5 beeps:	Abnormal carriage movement (.5 sec. pause between beeps)

LQ-2500

NOTE: Printers with LCD displays use error messages along with beeps to inform the user of problems. The following messages will help you to troubleshoot problems.

A blank LCD screen with the Power-on LED lit can be caused by a bent pin on one of the PROMs or jumper J1 may be set incorrectly.

1 beep:	BEL code
5 beeps:	Abnormal voltage-
5 beeps:	Abnormal carriage movement (.5 sec. pause between beeps)

LQ-2500 LCD Codes:

00	Invalid ID request to CGROM
03	EEROM read/write error
10	Abnormal carriage movement

LQ-2550

1 beep:	BEL code
3 beeps:	Paper End detected
5 beeps:	Abnormal carriage movement (.5 sec. pause between beeps)
5 beeps:	Platen Gap adjustment error (.5 sec. pause between beeps)
5 beeps:	Case open

LQ-2550 LCD Codes:

- | | |
|----|---|
| 00 | (1) The font could not be found. The printer's internal program could not find the target font. |
| | (2) Missing or damaged 7A ROM |
| 02 | Internal ROM check does not match. The versions may have been mixed. |

LQ-2550 cont.

- 03** A 'Verify After Write" check to the SRAM has failed. The SRAM could be bad.
- 10** This is a motor control error. Four possible areas of failure are:
 - a. CR home condition not detected at power up
 - b. Platen gap motor HP not detected correctly
 - c. Friction/Tractor feed switching error
 - d. Physical obstruction such as a jammed ribbon
- 11** Skewed paper detect error. Since the initial reading upon loading a single sheet paper, the paper has skewed. This is a printhead wire protection feature.
- 12** Illegal paper positioning.
 - (1) If the paper is loaded using the knob instead of the LOAD/EJECT switch, this error condition will occur. This is a printhead wire protection feature.
 - (2) PE sensor may have failed or is not connected.
- 20** CPU error. An undefined op-code was detected.

NOTES: Error codes 11 and 12 are usually caused by new operators who are un-familiar with the machine. Both of these errors are corrected by turning the printer off, taking out the paper and turning the printer back on. Both features were added to ensure proper paper handling and prevent paper jams, which can result in printhead failures.

Incorrect jumper settings on the ROMA board may cause errors 10 or 20. The correct settings are documented in the Service Manual (page A-54, figure A-52) and on TIB LQ2550-005.

Errors 0, 2, 3, 10, and 20 may require a repair, adjustment or replacement.

Product Support Bulletin

Subject: Power Specifications

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The following information is a list of the power requirements for the Epson 9 and 24 pin printers and laser printers.

Product	Voltage	Max. Current Consumption	Power Consumption	BTU/HR
Apex80	120V	.7 Amp	84 VA maximum	286.69
DFX5000	120V	5.0 Amp	600 VA maximum	2047.80
DFX5000	220V	3.0 Amp	660 VA maximum	2252.58
EPL6000	120V	6.0 Amp	720 VA maximum	2457.36
EX800/1000	120V	1.0 Amp	120 VA maximum	409.56
FX850/1050	120V	1.5 Amp	180 VA maximum	614.34
FX86e/286e	120V	1.0 Amp	120 VA maximum	409.56
GQ3500	120V	6.0 Amp	720 VA maximum	2457.36
L1000	120V	1.8 Amp	216 VA maximum	737.20
LQ500	120V	1.8 Amp	216 VA maximum	737.20
LQ510	120V	1.8 Amp	216 VA maximum	737.20
LQ1010	120V	1.8 Amp	220 VA maximum	750.86
LQ850/1050	120V	2.0 Amp	240 VA maximum	819.12
LQ2550	120V	4.2 Amp	504 VA maximum	1720.15
LX800	120V	.7 Amp	84 VA maximum	286.69

Product	Voltage	Max. Current Consumption	Power Consumption	BTU/HR
LX810	120V	.7 Amp	84 VA maximum	286.69
T750	120v	1.0 Amp	120 VA maximum	409.56
T1000	120v	.7 Amp	84 VA maximum	286.69

If the power requirements of a particular Epson printer is not listed please refer to the appropriate User's Manual for the electrical specifications. In the event that the User's Manual is not available, locate the silver label on the back of the Epson printer. This is a reliable source for the electrical requirements. The following formula is used to calculate the electrical power requirements:

VOLTAMPS is equivalent to WATTS

VOLTAMPS = Volts * Amps

AMPS = Volts/Volts

BTU/HR = Watts * 3.413

Example:

120V * 1A = 120VA

120VA/120V = 1A

120VA is equivalent to 120W

120W * 3.413 = 409.56 BTU/HR

Heat output is rated in BTU/HR.

Product Support Bulletin

Subject: Quick Reference for Printer Acoustic Noise Levels

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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
LX-810	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)