



Tech Info Library

LaserWriter Select 360: Setting DTR to ON (12/95)

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TOPIC -----

I am trying to download a PCL typeface to the LaserWriter Select 360 printer, and in the printouts I am getting square blocks printed in place of the characters. If the printer is set to DTR, I am able to download the fonts correctly to the printer. If it's set to XON/XOFF, I cannot download the fonts. Is there a way of setting the serial port on the printer to DTR permanently?

DISCUSSION -----

The easiest way to solve this problem is by using Apple Printer Utility 2.0 to change the serial communication ports on the LaserWriter Select 360 (under the "Communication Configuration" section). You can set the flow control to DTR there.

IMPORTANT:

The thumbwheel switch on the back of the printer must be in position #8 in order for the following serial port parameters to take effect.

PostScript Code to Change to DTR

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If you don't have a Macintosh, then you can download the following PostScript to the printer (remember that PostScript IS CASE SENSITIVE). Again, you must have the thumbwheel switch in position #8 in order for the serial port parameters to take effect.

CAUTION:

If you choose to use the PostScript code provided in this article, you assume all risks involved in making these changes. PostScript code, if not entered correctly, can place the LaserWriter into a condition requiring service.

%=====

% Begin PostScript code

%

(%Serial_NV)

<< /FlowControl /Dtr

>> setdevparams

%

% End PostScript code

%=====

Other values for the port can be set by including the various key-value pairs outlined below within << >> setdevparams, for example:

%=====

% Begin PostScript code

%

(%Serial_NV)

<<

/Baud 9600

/FlowControl /XonXoff

/Interpreter /LaserJetIII

>> setdevparams

%

% End PostScript code

%=====

Key-value pairs for the LaserWriter Select 360 serial port

/Baud 9600

Default: 19200

Possible values: 300, 600, 1200, 1800, 2400, 3600, 4800, 9600, 19200, 38400, 57600.

Use: Designates the baud rate on the serial hardware.

/CheckParity true

Default: false

Possible values: true or false

Use: Designates whether or not the device will perform a parity check on incoming data. If the parameter is true, parity checking occurs. If it is false, there is no parity checking.

/DataBits 8

Default: 8

Possible values: 7 or 8

Use: Designates the number of data bits per byte transferred over the channel. If it is set to 7, the high bit of the byte is set to 0.

/Enabled false

Default: true

Possible values: true or false

Use: Indicates whether data arriving at the printer should be scheduled for execution. If it is true, data is executed. If it is false, data is not executed.

/FlowControl /Dtr

Default: /XonXoff

Possible values: /XonXoff and /Dtr

Use: Indicates the serial flow control method used between the host computer and the printer.

/HasNames /false

Default: /false

Possible values: true or false

Use: Indicates whether the printer supports named files. If the printer is not mounted, or if Type is /Communications, this value is false. This value is a read-only constant.

/Interpreter /LaserjetIII

Default: /PostScript

Possible values: /PostScript, /AutoSelect, or /LaserJetIII

Use: Indicates the type of executable job represented by the arriving data.

/On false

Default: true

Possible values: true or false

Use: Indicates whether or not the printer driver for the communications device is turned on and is able to receive and send data. If this value is false, data sent to the printer is lost.

/Parity /None

Default: /None

Possible values: /None, /Space, /Odd, /Even

Use: Indicates the type of parity to be used between the host computer and the printer.

/Protocol /Normal

Default: /Normal

Possible values: /Raw or /TBCP

Use: Indicates the type of communications protocol to be used.

- /Raw: Lets all data pass through unfiltered. Control characters such as End-of-file (CTRL-D) and status queries (CTRL-T) are passed through and not acted upon.
- /TBCP: tagged binary communication protocol.

/StopBits 1

Default: 1

Possible values: 1 or 2

Use: Indicates the number of stop bits to be transmitted by the serial hardware. Alternative settings are 1 and 2.

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