



Tech Info Library

LaserWriter Pro 810: Changing Default Page Margins (2/95)

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TOPIC -----

The rectangle that borders the startup page on my LaserWriter Pro 810 is not centered on the page. Although this is supposed to be normal for this printer I would like to adjust it. I tried using the SETMARGINS PostScript operator that is documented in the Technical Information Library, but it doesn't seem to work on the LaserWriter Pro 810. How can I adjust the margins permanently?

DISCUSSION -----

The SETMARGINS operator is not persistent through power cycles when used on the LaserWriter Pro 810 because the LaserWriter Pro 810 I/O controller reads several hardware configuration values from the non-volatile RAM (NVRAM) located on the print engine DC Controller during the power-on sequence. This process overrides any modifications made using the SETMARGINS operator.

Using the LCD display panel it is possible to modify the top/bottom and left/right margins at the print engine level. The important values that will affect the margins are the REG.PROCESS and the REG.SCAN parameters. REG.PROCESS sets the top/bottom margins and REG.SCAN sets the left/right margins. Because the LaserWriter Pro 810 can print long-edge-first and short-edge-first all values are in reference to the leading edge of the paper.

CAUTION: Modifying the NVRAM values should only be performed by a trained service provider in order to prevent problems from occurring. The level II service modes described below allow access to other important settings such as the fuser temperature which can cause damage to the printer if not properly set. Additional documentation can be found in the LaserWriter Pro 810 troubleshooting section on the Service Source CD.

To change the NVRAM settings perform the following steps:

- 1) Turn on the printer while pressing both the ENTER and DOWN ARROW keys.
- 2) Release only the DOWN ARROW. The LCD display will change to read RELEASE THE KEY 0. The number after the word key will begin incrementing in value by one. When it reaches 3 release the ENTER key.

If everything is done properly display will read:

CONFIGURATION
SELECTING NV 04

There are several NVRAM settings that can be modified. Press the ENTER key to scroll through them until the REG.PROCESS and/or REG.SCAN is displayed, then press the DOWN ARROW key to make a change. Continue pressing the DOWN ARROW key until the right most digit is the desired value. Press the ENTER key to display the net setting and save it in the NVRAM. Power down the printer and confirm that the margins are set to the desired location.

LCD Display	Description	Values	Default	Changeable?
REG.PROCESS SELECTING NV 3X	Reg. adjustment value in process dir.(leading edge of paper. Each step = 0.5 mm.	0-F	28*	Yes
REG.SCAN SELECTING NV 3X	Reg. adjustment value in process dir.(left edge of paper. Each step = 0.5 mm.	0-9	34*	Yes

Note: Only the ones digit is modified when changing these NVRAM values.
For instance the range of values for REG.PROCESS is 20 to 2F.

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