



Tech Info Library

Personal LaserWriter NTR: Communication Switch Settings (4/94)

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TOPIC -----

This article describes the communication switch settings on the Personal LaserWriter NTR printer.

DISCUSSION -----

WARNING: If you choose a non-LocalTalk setting for the LocalTalk (8-pin) port while the printer is connected to an AppleTalk network, you can do permanent damage to devices on the network! Settings 1, 4, 5, and 6, (and possibly 9, since you can customize 9) are non-LocalTalk settings for the 8-pin port. Before you choose one of these settings, disconnect any LocalTalk connector box connected to the printer.

If you have a non-Macintosh computer that requires special settings to work with the Personal LaserWriter NTR, you can choose a different group of settings. You use the ten-position push-button switch on the back of the printer to choose a group of setting.

If you need to change the setting, check the following table for the switch position that corresponds to the setting you need. If you need to additional settings and have access to a Macintosh computer, you can program position 9 using the LaserWriter Utility software.

Settings -----

| Switch Number | Port Name | Connect Type | Baud Rate | Data Parity | Data Bits | Stop Bits | Flow Cntrl | Protocol | Mode |
|---------------|-----------|--------------|-----------|-------------|-----------|-----------|------------|----------|------|
| 0 | Din-8 | LocalTalk | - | - | - | - | - | - | PS |
| | RS-232 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Normal | PS |

| | | | | | | | | | |
|---|--------------------|-----------|------|------|---|---|----------|--------|----|
| | Parallel Centronic | - | - | - | - | - | - | Normal | PS |
| 1 | Din-8 | Serial | 9600 | None | 7 | 1 | XON/XOFF | - | PS |
| | RS-232 | Serial | 9600 | None | 7 | 1 | XON/XOFF | Normal | PS |
| | Parallel Centronic | - | - | - | - | - | - | Normal | PS |
| 2 | Din-8 | LocalTalk | - | - | - | - | - | - | HP |
| | RS-232 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Normal | HP |
| | Parallel Centronic | - | - | - | - | - | - | Normal | HP |
| 3 | Din-8 | LocalTalk | - | - | - | - | - | - | HP |
| | RS-232 | Serial | 9600 | None | 8 | 1 | DTR | Normal | HP |
| | Parallel Centronic | - | - | - | - | - | - | Normal | HP |
| 4 | Din-8 | Serial | 1200 | None | 7 | 1 | XON/XOFF | - | PS |
| | RS-232 | Serial | 1200 | None | 7 | 1 | XON/XOFF | Normal | PS |
| | Parallel Centronic | - | - | - | - | - | - | Normal | PS |
| 5 | Din-8 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Normal | PS |
| | RS-232 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Normal | PS |
| | Parallel Centronic | - | - | - | - | - | - | Normal | PS |
| 6 | Din-8 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Binary | PS |
| | RS-232 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Binary | PS |
| | Parallel Centronic | - | - | - | - | - | - | Binary | PS |
| 7 | Din-8 | LocalTalk | - | - | - | - | - | - | PS |
| | RS-232 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Normal | PS |
| | Parallel Centronic | - | - | - | - | - | - | Normal | PS |
| 8 | Din-8 | LocalTalk | - | - | - | - | - | - | PS |
| | RS-232 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Normal | PS |
| | Parallel Centronic | - | - | - | - | - | - | Normal | HP |
| 9 | Din-8 | LocalTalk | - | - | - | - | - | - | PS |
| | RS-232 | Serial | 9600 | None | 8 | 1 | XON/XOFF | Normal | PS |
| | Parallel Centronic | - | - | - | - | - | - | Normal | PS |

PS - PostScript

HP - HP PCL 4

* - Nonprinting input: This is used when a device-such as an automatic sheet feeder-is connected to the serial port and receives special commands from a computer connected through another of the printer's ports.

Available Settings

The following table briefly describes the communication settings and lists the options available for each.

| Setting | Description | Options |
|--------------|---|---|
| Baud Rate | The speed of transmission between the computer and printer. | 300, 600, 1200, 1800, 2400, 3600, 4800, 7200, 9600, 19200, 57600 |
| Parity | The method used to compare transmitted and received data to check for errors. | None, odd, even, mark, space |
| Data Bits | The number of bits used to represent each character. | 7, 8 |
| Stop Bits | The number of bits used to indicate the end of a character. | 1, 2 |
| Flow Control | The method used to prevent transmitted data from exceeding the rate at which the receiving end can accept it. | XON/XOFF, DTR ETX/ACK |
| Protocol | The digital format in which the data is presented. | Normal, Raw, Binary |
| Mode | The communication standard used to transmit data | Postscript, HP Printer Command Language 4, and Nonprinting Input (not intended for a computer connection) |

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