



Tech Info Library

AppleWorks IIe: LaserWriter interface

The following describes the connection between AppleWorks on the Apple IIe and LaserWriter.

I. Apple IIe

1. Super Serial Card (SSC)

A. Circuit Configuration

Near the internal cable (Part 590-0021) of the SSC there is a removable block of pins with a triangle on its top face. Make sure this jumper block is plugged into its socket so that the triangle points to the word TERMINAL printed on the card.

This configuration, called modem elimination, compensates for the standard RS-232-C pin assignments so that the internal cable through the appropriate pins.

B. Install the SSC in Slot 1 of the IIe Motherboard.

C. SSC DIP Switch Settings

SW1:	1	2	3	4	5	6	7	SW2:	1	2	3	4	5	6	7
				X	X X			X		X X			(ON)		
	X X X	X						X X		X X	(OFF)				

These switch settings are for: 9600 baud (SW1: 1-4), Printer Mode (5-6), Normal Clear To Send (7), 8 data bits and 1 stop bit (SW2: 1), no delay after CR (2), video off (3), 132 character line (4), auto-LF after CR (5), Disabled ACIA-CPU interrupts (6), and Normal Clear To Send (7).

No parity is set automatically in the Printer Mode.

II. The Connection

1. Cable

Serial and Communications Cable
(Part 590-0037)

From

To

Super Serial Card

IIfx Back panel
DB-25 connector

LaserWriter
DB-25 connector

signal	-	pin	wiring	pin	-	signal
Frame Ground		1	<->	1		Frame Ground
Tx		2	<->	2		Tx (Transmit Data)
Rx		3	<->	3		Rx (Receive Data)
RTS		4	<->	4		RTS (Ready To Send)
Signal Ground		7	<->	7		Signal Ground
DTR		20	<->	20		Tx (Transmit Data)

2. Signal

1. Levels from Super Serial Card:

- a. True (asserted): 0 volts
- b. False: +5 volts

III. Apple LaserWriter Printer

1. Set the Selector Switch on the LaserWriter to "Special", which can be done without turning off the printer. In Diablo 630 emulation mode, the LaserWriter uses 9600 baud, XON/XOFF protocol, and no parity.
2. Check

To verify the connection, turn on the IIfx, video monitor, and LaserWriter. Boot AppleWorks and choose "Other Activities" from the Main Menu. Add a custom printer, naming it LaserWriter. Use these settings for this custom printer:

- | | |
|---------------------------------------|------------------------------------|
| 1. Needs line feeds after each Return | No |
| 2. Accepts top-of-page commands | Yes |
| 3. Stop at end of each page | No |
| 4. Platen width | 8.0 inches |
| 5. Interface cards | Control-I 80N Control-I X space E^ |
| 6. Printer codes | Yes |

The printer codes for the Diablo Emulation are in the LaserWriter Technical Description. If you specify no printer codes, the typeface will default to Courier standard, 12 characters per inch, monospaced.

Return to the Main Menu and try to print a document.

Note: When you use the AppleWorks command Open-Apple-H for hard copy, you will have to print a document using Open-Apple-P before you may use the

Open-Apple-H command again. This is because the command Open-Apple-H does not issue the form feed the LaserWriter needs to output the last page and clear its Diablo emulation settings.
Apple Technical Communications

Keywords: <None>

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This information is from the Apple Technical Information Library.

19960215 11:05:19.00

Tech Info Library Article Number: 984