

## **ImageWriter II/L: Specifications and Notes (9/94)**

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TOPIC -----

In late February, 1990, a revised ImageWriter II rolled into distribution. This revised printer incorporates a new enclosure, different color adjustment assembly, and a new layout of the electronics including a changeover to a switching power supply. The ImageWriter II/L's electronic interface, DIP switch definitions, plus the paper handling mechanism have not changed.

Note: In future articles that deal specifically to the new ImageWriter II, we will use the term "ImageWriter II/L." The "L" follows the service designation.

This article describes changes for the new printer.

DISCUSSION -----

Change List -----These are the major changes to the ImageWriter II:

- The bottom housing is now a single molded piece of plastic. The metal pan at the bottom no longer exists. Both legs are now an integral part of the enclosure and are not removable. The power and serial connectors have been moved to the sides of the printer. Access to all parts in the ImageWriter II is now from the top.
- The color adjustment assembly has changed. The adjustment procedure is documented in the Service Manual.
- The driver circuitry has been combined with the main logic board and that separate circuit board has been eliminated.
- The new power supply is now a switching type. This lowers the unit's weight and overall power consumption. The universal power supply option has been eliminated; there are only 100 V or 200 V supplies.
- The on-board RAM buffer has been increased to 24K bytes. The old 32K byte memory-option card has no effect with this new printer.

Specification Changes

These changes result in the following difference in specifications:

	Old ImageWriter II	New Imagewriter II
Weight	25 pounds (11.36 kg)	15 pounds (6.7 kg)
Power Supply Options 100 V 200 V	108-132 VAC, 60 Hz 90-264 VAC, 50/60 Hz	90-132 VAC, 50/60 Hz 180-264 VAC, 50/60 Hz
Power Consumption Operating Standby	180 watts maximum 20 watts maximum	77 watts maximum 16 watts maximum
Input Buffer Size	2K bytes, 32K bytes with memory option card	24K bytes

Otherwise all other specification remain the same as with the previous ImageWriter II.

These changes reduce the weight and power consumption of the printer. However, the operation and usage of the revised ImageWriter II have not changed from the previous design.

## Identification

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Although the new ImageWriter II retains the old name, the marketing model number has changed to C0090LL/A. The serial number starts with the prefix TJ945100.

The new unit can be identified easily. Notice that the power and serial connectors do not plug into the leg, but to the rear side of the printer.

## Service

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The new enclosure design greatly simplifies the servicing of the unit. For additional information on take-apart, refer to the ImageWriter II/L ("L" is a Service only designation) s0/on in Volume II of the "Apple Service Technical Procedures Cross Family Peripheral Guide."

Technical Specifications Printing Specifications:

Method: Impact dot matrix, logic seek (line by line)

Maximum Speed (characters per second at characters per inch):

- Draft mode: 250 cps @ 10 cpi
- Correspondence mode: 180 cps @ 10 cpi
- Near Letter Quality mode: 45 cps @ 10 cpi

Maxinum Line Length: 8 inches Paper Feed Direction: Forward and reverse Maximum Line Feed Speed: 24 lps @ 6 lpi Paper Feed Method: • friction • friction/pin-feed Ribbon: • Black ribbon -- continuous fabric -- 13 by 13000mm -- Capacity: 2 million characters • Color ribbon -- Four colors: magenta, cyan, yellow, black -- continuous -- 21 by 18000mm Character Specifications: Dot Matrices for each Character Format: dots wide dots high Standard: 7 8 Draft: 12 8 16 Near Letter Quality: 16 16 max. 8 max. Custom: -- Custom fonts are user-programmable and loaded down to the ImageWriter II. Standard Character Sets: • ASCII (alphanumeric and symbols): 96 • European language characters: 28 • Mouse Text characters: 32 Vertical Dot Spacing: 1/72 of an inch Horizontal Pitches and Graphic Densities: Characters Characters Dots per inch per line per inch (approx) 17 136 136 15 120 120 13.4 107 107 12 96 96 10 80 80 9 72 72 Proportional-1 variable 160 Proportional-2 variable 144 Line Spacing:

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-- 1/144 to 99/144 of an inch
       -- selectable in increments of 1/144 of an inch
Paper Specifications
   Width:
     -- 3.5 to 9.5 inches (88.9 to 241.3 millimeters) pin to pin (pin feed)
      -- 10 inches maximum
   Thickness:
      -- 0.002 - 0.011 inch (0.05 - 0.28 millimeters)
      -- Original plus 3 copies maximum
   Types:
      • Single sheets
      • Pin-feed paper
           4.0 to 9.5 inches bewteen hole centers
Power Specifications:
   Options:
       Low-range: 90-132 VAC, 50/60 Hz;
       High-range: 180-264 VAC, 50/60 Hz;
   Consumption:
      Operating: 77 watts maximum
      Standby: 16 watts maximum
Interface Specifications:
       Data Input Form: RS-232 8-bit asynchronous serial
          -- 1 start bit
          -- 8 data bits
          -- 1 stop bit (no parity)
       Data Input Codes:
          Characters: ASCII, 8- or 7-bit
          Graphics: 8-bit binary
       Transmission speeds: 300, 1200, 2400, or 9600 baud
       Input Buffer Size: 24K bytes
       Connections: Mini-circular connector, 8-pin socket or equivalent
       Cable Connector: Mini-circular connector, 8-pin plug or equivalent
Physical Dimensions:
   Weight: 15 pounds (6.7 kilograms)
              inches millimeters
      Width: 17.0 431.8
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Heigth: 12.0 304.8 Depth: 5.0 127.0 Environmental Specifications: Ambient Temperature: Degrees Fahrenheit Celsius Operating: 50 to 104 10 to 40 Storage: -40 to +116 -40 to 47 Humidity: Operating: 20% to 95% relative humidity, noncondensing Storage: 10% to 95% relative humidity, noncondensing Acoustics, Operating: 55 dBa maximum sound pressure at by-stander position (as defined in American National Standard document ANSI S1.29-1979) Article Change History: 1 Sep 1994 - Reviewed and combined information. Support Information Services Copyright 1990-94, Apple Computer, Inc. Keywords: specsht \_\_\_\_\_ This information is from the Apple Technical Information Library. 19960215 11:05:19.00 Tech Info Library Article Number: 5353