



Basics



General Information

Paperless Printer Microviewer

This manual contains only the Specifications, Symptom Charts and the Illustrated Parts List chapter for the ImageWriter LQ. The rest of the procedures are in the form of a Paperless Printer file located in the Printables folder.



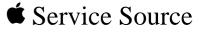


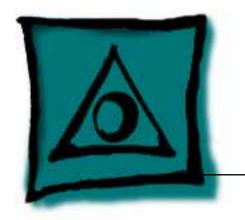
Take Apart



Image: Control of the con







Specifications



Performance - 2

Specifications

Line-Feed Rate Actual throughput will vary depending on computer and software.

Maximum Copies Four inches per second (ips)

Original plus three

Character Format

Fixed Alphanumeric Symbols Draft mode: Standard mode

Draft mode: up to 12 by 8 dot matrix Standard mode: up to 7 by 8 dots Near-letter-quality mode: up to 16 by 16 dots

Custom (Downloaded) Characters

Variable width, up to 16 by 8 dots



and double-width modes

Draft, Standard, 9–17 cpi (72–136 characters per line), through use of normal

Quality

and Near-Letter

Proportional Text 144 or 160 dpi



Ribbons

Type

Fabric; continuous loop

Available Colors

Black

(Typical life: two million characters)

Four-color (magenta, cyan, yellow, black)

(Typical life: one million characters per color)



between 4 and 9.5 in.)

Format Cut sheet or fanfold continuous

Width 3–10 in. (on pin-feed paper, hole centers must be spaced

Thickness .05-.28 mm

Miscellaneous - 7

Miscellaneous

Print Method Impact dot matrix

Built-In Character American, Italian

American, Italian, Danish, British, German, Swedish, French, and Spanish
Selectable by using DIP switches or appropriate software

Sets and Spanish Selectable by us

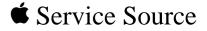
Line Spacing 6 or 8 lines per in.; user programmable in increments of 1/144 in. (up to 99/144 in.)

Graphic Densities 72, 80, 96, 107, 120, 136, 144, and 160 dpi (maximum dots per line: 1,280)











Troubleshooting



General

The Symptom Charts included in this chapter will help you diagnose specific symptoms related to your product. Because cures are listed on the charts in the order of most likely solution, try the first cure first. Verify whether or not the product continues to exhibit the symptom. If the symptom persists, try the next cure. (Note: If you have replaced a module, reinstall the original module before you proceed to the next cure.)

If you are not sure what the problem is, or if the Symptom Charts do not resolve the problem, refer to the Flowchart for the product family.

For additional assistance, contact Apple Technical Support.



Symptom Charts

Quick Problems

- Error light blinks
- 1 Verify that carrier cover is secure.
- 2 Verify that carrier cover magnet is in place.
- 3 Try known-good software.
- 4 Verify that option card dip switch is open/off with no card installed.
- Select light off, error light on

No printing or garbled printing

- 1 Add paper or reset paper feed tray.
- 2 Check for paper feed problem.
- 1 Check interface cable connection between printer and computer.
- 2 Verify that DIP switches (2-1 through 2-4) are set correctly.



Prints ok for a while,
then prints garbage

Overprinting

Light printing

Set DIP switch 2-3 to correct serial protocol.

spacing and line length.

1 Change ribbon cartridge.

2 Adjust impression lever (see Adjustments).

Erratic carrier motion, loud hum

Remove black tube-shaped shipping protection from carrier shaft.

Verify that program being used is set for correct line



- 1 Clear entry and exit path of obstructions.
- 2 Check whether manual paper sensor, paper guide, or paper bail exerts too much pressure on paper.
- 3 Verify that tractor assembly does not let paper slip.
- 4 Check printhead gap (see Additional Procedures).
- 5 Avoid printing in top and bottom one inch of paper.
- 6 Try using 20-pound paper.



Symptom Charts / Print Quality - 5

Compressed first or second line

topic.

Print Quality

Print is darker or Remove or install shims. See General Information topic in Basics chapter. Open Additional Procedures document and refer to Shims

lighter on one side

Top row of dots

smudged, or top of form gradually creeps down page in one-line

missing

Characters

increments

sometimes appear version.

Perform ribbon adjustment (refer to Adjustments).

Verify that ImageWriter II driver software is most current



Power light on,	no
printing	

- Verify that ribbon frame assembly is riding on spiral ridge of color ribbon cam (see Adjustments).
- 2 Remove dot head, and verify that pins in connector on dot head board are not bent.
- 3 Go to Troubleshooting Table 2.

Missing dots

- 1 Check flexible cable connection.
 - Remove dot head, and verify that pins in connector on dot head board are not bent.
- 3 Go to Troubleshooting Table 5.

2



Carriage Movement

Carriage doesn't move; LEDs are not lit

Replace drive board.

2 Replace transformer.3 Replace filter assembly.

Carriage doesn't

1 Replace main board.

move; LEDs are lit

2 Replace drive board.

Carriage assembly moves to left and does not return to center

replace print head board.

Replace main board.

3 Replace print head board.

4 Poplace flevible ribbon co

4 Replace flexible ribbon cable.

Check switch on print head board. If switch is frozen,

5 Replace drive board.

apart produces no carrier movement (panel lights on)

Carriage assembly grinds or is hard to

move

are not pinched. Replace worn wires. Replace fuse on drive board.

Remove bottom cover and verify that wires to carrier motor

3 Replace drive board.

are not pinched. Replace worn wires.

Replace fuse on drive board.

3 Replace drive board.



Paper Feed

Grinding during paper feed

- 1 Remove platen knob and verify that there are no obstructions in gearing beneath knob.
- 2 Adjust paper guide (refer to Adjustments).
- 3 Replace paper feed motor.
- 4 Replace drive board.
- Paper-out sensor interferes with paper path; left side of paper fits "tighter" under platen than does right side

1 Verify that mechanical paper sensor is properly positioned.

