

TECH TIPS June 2003









NTER TRAINING

PRINTER MANUALS

PRINTER TECH SUPPORT

This Issue Contains:

- Ohming out fusers
- **HP2100 Service Errors**
- Printer Specifications for Lexmark 4069-610



Lexmark. Canon



HP2100 Service errors

A Service Error is when the top three lights are on.

Control Panel layout		Off	On	Blinking
Attention (top)	Red Light	0	1	BLINKING
Ready	Green Light	0	1	BLINKING
Go	Green Light	0	1	BLINKING

For the secondary:- Press and hold the "GO" and "JOB CANCEL" button and refer to the table below for results.

Lights Description	Error Desc.	Error #	Status Code
Attention (ON) a) Check connections betwee b) Replace the engine board c) Replace the Intermediate		55 ediate board.	40055
Ready (ON) a) Reseat the laser assembly b) Replace the laser scanner		52	40052
Go (ON) a) Reseat the laser assembly b) Replace the laser scanner		51	40051
Attention & Ready (ON) a) Reseat the cable between b) Replace the laser scanner	Scan Motor Error the laser assembly and the intermed assembly.	57 diate board.	40057
Ready & Go (ON) a) Reseat fuser cables. b) Replace fuser. c) Replace engine board.	Fuser Error	50	40050
Attention & Go & Ready (ON) a) Replace the formatter.	RAM / ROM		
Attention (BLINKING) a) Reseat the cable between b) Replace the fan. c) Replace the engine board	Fan Error the fan and the intermediate board.	58	40058
Ready (BLINKING) a) Replace the formatter.	NVRAM	68	
Go (BLINKING) a) Cycle power. b) Replace formatter.	Scan Buffer	64	40064
Attention & Ready (BLINKING) a) Replace formatter.) Dynamic RAM	65	40065
Attention & Go (BLINKING) a) Check all I/O connections	Misc. Hardware	67	40067

Parts on Demand Limited.

36 Shaddock Street Phone: +64 9 309-3137
Eden Terrace
PO Box 8176 Fax: +64 9 309-3353
Symonds Street

Symonds Street
AUCKLAND
NEW ZEALAND
Email support@partsondemand.co.nz



Lexmark 4069 610

Model Lexmark 4059-010

DPI 1200 X 1200

Printer Speed 15 PPM First page out 12 Seconds

Processor 133MHz

Duty Cycle 65,000 pages per month

SPECIFICATIONS

Height Width Depth Weight 340mm 498mm 19.1Kg

ACCESSORY / OPTIONS

99A1753 99A1752 Memory 4Mb 8Mb 99A1755 16Mb 99A1754 32Mb 64Mb 99A1756 128Mb 99A1773 Duplex (500) 56P0555 Duplex (250) 99A1146 Tray 500 Sheet 56P0556 Envelop Feeder 99A1145 Network 12G1696 10Base2/10Base T 12G1695 10/100 Ethernet

FREQUENTLY USED PARTS

Controller (RIP) Board	99A1954	Engine Board	56P0584
Fan	99A0803	Fuser	99A1661
Gear Box with Motor	99A1543	Output Assy (250)	99A1586
Print Head / Scanner	99A1526	Pickup Assy (250)	99A1056
Roller Pickup	99A0070	Roller Transfer	99A1015
Roller Pickup MP	99A0076	Roller Charge	99A1017
PSU LV	99A1640		
PSU HV	99A1823	PSU HV Service "B"	99A1863
Sep Pad	99A0083		

RESET MAINTENANCE COUNT

- 1. Press and hold [Select] and [Return] buttons and power on the printer
- 2. Press [Go] Config menu appears
- 3. Scroll through until "Reset Maint Count" is displayed
- 4. Press [Select] twice to reset.
- 5. Power off the printer, count to 10 and then power back on

SERVICE MODE

- 1. Hold down [Go] and [Return] while turning on the printer.
- 2. Release buttons when "Performing Self Test" is displayed

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Symonds Street AUCKLAND NEW ZEALAND

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Authorized Spare Parts Supplier







Ohming Out Fusers

One of the most common errors in laser printers, next to paper jams, is the fuser temperature error. Depending on which brand of printer you are working with, problems with fuser temperature will yield one of the following errors:

- Most HP printers "50 SERVICE"
- Most Lexmark printers 920-925 error codes

Why the Error Occurs

These errors occur when the upper fuser roller is unable to reach or maintain a fairly narrow temperature range—hot enough to fuse toner to paper, but not so hot as to scorch the paper. To achieve a temperature in this range, the printer monitors the fuser temperature and applies power to the fuser's heating element as needed.

What Causes the Error

You can usually find the cause of the error in the following places:

- Fuser This is the most common cause, usually due to a burned-out heating element or lamp.
- Monitoring/control circuit (DC controller or engine board)
- Power supply

How to Test the Fuser

Fortunately, most bad fusers can be detected by measuring the heating element (or lamp) and the thermistor—the temperature- sensing element—with an ohmmeter.

We will show you the most popular fusers, where to take the measurements, and what readings to expect. The second part will be next month.

Some general tips:

- 1. For safety and for accurate measurements, the printer must be powered off and the fuser removed from the printer before taking measurements. While you have the fuser out of the printer, also inspect its rollers, gears, etc. for wear.
- 2. The fuser should be at room temperature for accurate measurements. If the unit is at a lower or higher temperature, the thermistor reading may differ from the values given. If measuring a hot fuser, give it time to cool off before taking measurements.
- 3. Most fusers are available in several versions to accommodate different line voltages (110V, 220V, and in some cases, 100V for Japan). Thermistor readings should be in the same range for all versions of a given fuser, but the resistance of the heating element or lamp will vary with the rated line voltage.

Many printers have timing circuits to allow the printer time to recover after a fuser temperature error, which is a necessary safety feature if the error involved overheating. For this reason, whenever you get this error, the printer should be left turned off for at least fifteen minutes before attempting to power it up again. Otherwise, you will still get the error, even though you may have fixed the original problem.

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NEW ZEALAND Email <u>support@partsondemand.co.nz</u>

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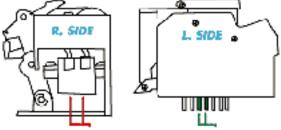






RTS ON DEMAND LIMITED

HPII, HPIID, HPIII, HPIIID

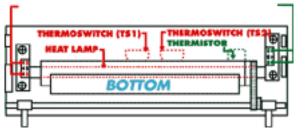


Thermoswitch 8.0 Ohm

Thermistor 1.1 to 1.7 Ohm

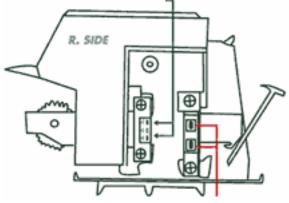
HPIIP, HPIIIP

Thermoswitch 14.0 Ohm Thermistor 180K to 290K Ohm



HPIIISi, HP4Si

Thermistor 230K to 280K Ohm



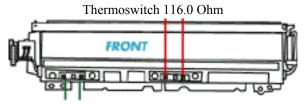
Thermoswitch 8.0 Ohm

HP4, HP4+, HP5 THERMISTOR FRONT

Thermistor 180K to 280K Ohm



HP4L, HP4P, HP5P, HP6P



Thermistor 440K Ohm

HP4V

Thermistor 180K to 290K Ohm



Thermoswitch 14.0 Ohm

HP5L, HP6L, HP3100



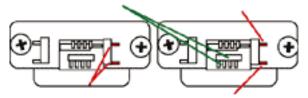
Thermistor 440K Ohm

Thermoswitch 116.0 Ohm

HP5Si, HP8000

Thermistor 150K to 290K Ohm

Main Lamp Thermoswitch 12.0 Ohm



Thermoswitch 12.0 Ohm Electrically the same

Secondary Lamp Thermoswitch 12.0 Ohm



POD Policy

RMA- RETURN MERCHANDISE AUTHORIZATION

- An RMA number assigned by POD must be put on the outside and inside of your returned product package for adequate identification. Products returned without a valid RMA number will be refused at POD.
- The customers RMA number is valid only for 30 calendar days from date of issue.

EXCHANGE ITEMS

- Products must be:
 - 1) Returned within the specified date on the Exchange Docket.
 - 2) Repairable, no alterations, or missing parts.
 - 3) Be an exact equivalent of the part shipped out.

RETURNED PROCESS

- On receipt of RMA and Exchange parts POD will inspect it to confirm that it is:
 - 1) The correct part returned.
 - 2) Eligible for product return.
- If not, then POD will have the option of:
 - 1) Returning it with an explanation
 - 2) Providing no refund for a RMA
 - 3) Not accepting the part as an Exchange unit.

RESTOCKING FEE

• POD at its discretion may charge a restocking fee to recover costs in processing and re-testing goods returned. A minimum fee of \$20.00 may be applicable.

MISCELLANEOUS

- Manuals, rollers and special order items are not returnable.
- POD is not responsible for damages incurred in transit.
- The customer is responsible for return shipping.
- All products must be returned within the allocated time issued by POD.

WARRANTY PERIOD

- New products carry the Original Manufacturer Warranty.
- Exchange Units carry a 90 day warranty.

These policies are to be read in conjunction with PODs Terms and Conditions.

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36 Shaddock Street Phone +64 9 309-3137 Eden Terrace 0800 22-55-05 PO Box 8176

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