

For the complete PDF manual
please visit www.LaserPros.com.



Service Manual

Lexmark™ E220
Lexmark™ E32x

4500–00x

4500–1xx

4500–2xx

- ***Table of Contents***
- ***Start Diagnostics***
- ***Safety and Notices***
- ***Trademarks***
- ***Index***



*Lexmark and Lexmark with diamond
design are trademarks of Lexmark
International, Inc., registered in the
United States and/or other countries.*

Edition: May 2004

The following paragraph does not apply to any country where such provisions are inconsistent with local law: LEXMARK INTERNATIONAL, INC. PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions; therefore, this statement may not apply to you.

This publication could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in later editions. Improvements or changes in the products or the programs described may be made at any time.

Comments may be addressed to Lexmark International, Inc., Department D22A/032-2, 740 West New Circle Road, Lexington, Kentucky 40550, U.S.A or e-mail at ServiceInfoAndTraining@Lexmark.com. Lexmark may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you. You can purchase additional copies of publications related to this product by calling 1-800-553-9727. In other countries, contact your point of purchase.

Lexmark, Lexmark with diamond design, MarkNet, and MarkVision are trademarks of Lexmark International, Inc., registered in the United States and/or other countries.

Optra Forms is a trademark of Lexmark International, Inc.

PCL® is a registered trademark of the Hewlett-Packard Company.

PostScript® is a registered trademark of Adobe Systems Incorporated.

Other trademarks are the property of their respective owners.

© 2001, 2004 Copyright Lexmark International, Inc.

All rights reserved.

UNITED STATES GOVERNMENT RIGHTS

This software and any accompanying documentation provided under this agreement are commercial computer software and documentation developed exclusively at private expense.

Table of contents

Laser notices	vii
Safety information	xvii
Preface	xxii
General information	1-1
Model differences	1-4
Printer operation	1-5
Printer dimensions and clearance	1-5
Options	1-6
Acronyms	1-7
Diagnostic information	2-1
Start	2-1
Diagnostics (E320/E322)	2-1
Operator panel	2-2
Status information	2-3
Attendance information	2-4
Service information	2-7
Service error codes	2-11
Operator panel light summary table	2-25
Error code table	2-26
Power-On Self Test (POST)	2-32
Symptom tables	2-32
Diagnostics (E220/E321/E323)	2-35
Operator panel	2-36
Light patterns	2-37
Status information light patterns	2-38
Obtaining information about printer service error codes . . .	2-44
Service error codes	2-45
Power-on operations	2-59
Power-On Self Test (POST)	2-60
Symptom tables	2-60

Service checks	2-63
Cold fuser service check	2-64
Cooling fan service check (E320/E322)	2-65
Cooling fan service check (E220/E321/E323)	2-66
Controller card service check (E220/E321/E323)	2-67
Cover interlock switch service check (E320/E322)	2-69
Cover interlock switch service check (E220/E321/E323)	2-70
Dead machine service check	2-71
Engine board service check (E320/E322)	2-72
Fuser service check	2-74
Hot fuser service check	2-76
Low voltage power supply (LVPS) service check	2-76
Main motor service check	2-77
Operator panel button service check	2-78
Operator panel service check	2-79
Paper feed service checks	2-81
Parallel port service check	2-85
Print quality service checks	2-86
Transfer roll service check	2-99
Resetting user defaults (E320/E322)	2-100
Restoring factory defaults (E320/E322)	2-101
Restoring factory defaults (E220/E321/E323)	2-101
Using Hex Trace mode (E320/E322)	2-102
Using Hex Trace mode (E220/E321/E323)	2-102
Using print quality test pages (E320/E322)	2-103
Using print quality test pages (E220/E321/E323)	2-104
Using the special function menu (E320/E322)	2-105
Using the special function menu (E220/E321/E323)	2-106
Diagnostic aids	3-1
Diagnostic aids (320/E322)	3-1
Performing self test	3-1
Information priority	3-1
Printer operation modes	3-2
Printer modes summary table	3-3
Normal printing mode	3-6
Demo printing mode	3-7
Printing menu settings page	3-8
Diagnostic tests mode	3-9
Special function menu	3-11
Configuration mode	3-14

Diagnostic aids	3-35
Diagnostic aids (E220/E321/E323)	3-35
Operator panel	3-35
Configuration menu group or diagnostic menu group	3-36
Printer diagnostics mode	3-40
Repair information	4-1
Handling electrostatic discharge (ESD)-sensitive parts	4-1
Adjustment	4-2
Printhead assembly	4-2
Lubrication	4-3
Removal procedures	4-4
Cover removals	4-4
Auto sheet feed (ASF) assembly removal	4-5
Charge roll assembly removal	4-6
Controller card cage removal	4-7
Controller card removal	4-7
Cooling fan removal	4-8
D-roll removal	4-9
Engine board removal (E320/E322 only)	4-9
Fuser assembly removal	4-10
High voltage power supply (HVPS) removal	4-10
Low voltage power supply (LVPS) removal	4-11
Operator panel removal	4-11
Paper feed clutch solenoid removal	4-12
Printhead assembly removal	4-13
Transfer roll removal	4-13
Connector locations	5-1
LVPS—low voltage power supply board	5-1
HVPS—high voltage power supply board	5-2
Engine board (E320/E322 only)	5-2
RIP controller (E320/E322 only)	5-6
Controller (E220/E321/E323 only)	5-7
RIP controller (E220/E321/E323 only)	5-8
Option card (replaceable on E320/E322 only)	5-11
E220/E321/E323 wiring diagram	5-12
Preventive maintenance	6-1

Parts catalog7-1

 How to use this parts catalog7-1

 Assembly 1: Covers (E320/E322)7-2

 Assembly 2: Frame7-8

 Assembly 3: Fuser7-10

 Assembly 4: Main drive7-12

 Assembly 5: Paper feed7-14

 Assembly 6: Printhead7-16

 Assembly 7: Electronics7-18

 Assembly 8: Options7-22

 Assembly 9: Cables.....7-26

 Assembly 10: Miscellaneous7-27

Index I-7

Part number index I-1

For the complete PDF manual
please visit www.LaserPros.com.