

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



Service Manual

**Lexmark™ E238, E240,
E240n, E340, and E342n**

4511-000

4511-100

4511-410

4511-600

4511-610

- ***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: September 13, 2005

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.

References in this publication to products, programs, or services do not imply that the manufacturer intends to make these available in all countries in which it operates. Any reference to a product, program, or service is not intended to state or imply that only that product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any existing intellectual property right may be used instead. Evaluation and verification of operation in conjunction with other products, programs, or services, except those expressly designated by the manufacturer, are the user's responsibility.

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

Opra Forms and PictureGrade are trademarks 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.

© 2005 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.

U.S.A. P/N 12G9615

Table of contents

Laser notices	.vi
Safety information	.xvi
Preface	.xxi
Definitions	xxi
General information	1-1
Models	1-1
Maintenance approach	1-1
Overview of the operator panels	1-2
Models E238, 240, and 240n	1-2
Models E340 and E342n	1-3
Overview of the operator panel	1-3
Specifications	1-4
Memory	1-4
Print speed	1-4
Connectivity and compatibility	1-5
Media trays and supply capacity	1-6
Types of print media	1-7
Tips on preventing jams	1-8
Tools	1-8
Acronyms	1-9
Diagnostic information	2-1
Start	2-1
Diagnostics—E238, E240, and E240n 2	2-2
Power-On Self Test (POST) sequence	2-2
Light patterns and error messages	2-3
Common primary light patterns	2-4
Common secondary light patterns	2-8
Secondary errors—paper jams	2-12
Additional information—primary codes	2-13
Additional information—secondary error codes	2-24
Service codes	2-36
Diagnostics—E340 and E342n 50	2-50
Power-On Self Test (POST) sequence	2-50
Overview of the operator panel and menus	2-51
Indicator light	2-51
Buttons	2-52
Diagram of the printer menus	2-54
Messages and error codes	2-55
User attendance messages	2-55
Paper jam messages	2-64

Service error codes	2-65
Sub error codes	2-68
Diagnostics—all models 79	2-79
Symptom tables	2-79
POST symptom table	2-79
Printer symptom table	2-79
Service checks	2-81
Cooling fan service check	2-81
Controller card service check	2-82
Cover interlock switch service check	2-85
Dead machine service check	2-86
Fuser service check	2-87
Cold fuser service check	2-89
Hot fuser service check	2-89
LVPS/HVPS service check	2-90
Main motor service check	2-91
Operator panel service check (models E238, E240, and E240n) ..	2-92
Operator panel service check (models E340 and E342n)	2-93
Paper feed service checks	2-94
Parallel port service check (models E238, E240, and E240n)	2-97
Parallel port service check (models E340 and E342)	2-97
Print quality service checks	2-98
Printhead service check	2-111
Transfer roll service check	2-111
Diagnostic aids	3-1
Diagnostic aids—E238, E240, and E240n 2	3-2
Accessing service menus	3-2
Printing menus	3-2
Moving around the menu	3-5
Configuration menu selections	3-6
Utilities	3-6
Setup	3-7
Parallel	3-8
USB	3-9
Network	3-10
Diagnostics mode selections	3-11
Development	3-11
Parallel	3-12
Network	3-13
Diagnostic aids—E340 and E342n 14	3-14
Accessing service menus	3-14
Printing menus	3-14
Configuration menu (CONFIG MENU)	3-15
Entering Configuration Menu	3-15
Available menus	3-15
Reset PC Cnt	3-16

Print quality pages (Prt Quality Pgs)	3-16
Panel Menus	3-16
PPDS Emulation	3-16
Download Emuls	3-17
Demo Mode	3-17
Factory Defaults	3-17
Energy Conserve	3-17
Error log	3-18
Paper Prompts	3-18
Env Prompts	3-18
Exit Config Menu	3-18
Diagnostics mode	3-19
Available tests	3-19
Registration	3-21
Print tests	3-22
Hardware tests	3-23
Input tray tests	3-26
Base sensor test	3-28
Device tests	3-28
Printer setup	3-29
EP setup	3-31
Error log	3-32
Exit Diagnostics mode	3-33
Repair information	4-1
Handling ESD-sensitive parts	4-1
Removal procedures	4-2
Covers	4-2
Controller card removal	4-15
Cover open sensor removal	4-18
Developer drive coupling assembly removal	4-20
Door latch assembly removal	4-21
Exit sensor removal (on the fuser)	4-22
Fan removal	4-26
Front access cover logo removal (E238, E240, and E240n)	4-27
Fuser removal	4-28
Fuser idle gear links removal	4-30
Fuser power cable removal	4-32
Input roller clutch and lever removal (autocompensator clutch)	4-34
Input sensor #1 removal	4-35
Input sensor #2 (manual feed) removal	4-36
LCD bezel removal	4-37
LCD operator panel removal	4-39
LED operator panel removal (E238, E240, and E240n)	4-40
LVPS/HVPS card assembly removal	4-41
LVPS/HVPS-to-controller card cable removal	4-43
Manual feed clutch assembly removal	4-44

Paper exit guide assembly removal	4-46
Paper feed rollers (autocompensator tires) removal	4-47
Printhead removal	4-48
Toner level sensor cable removal (E340 and E342n)	4-49
Toner level sensor removal (E340 and E342n)	4-49
Transfer roll removal	4-50
Transport motor cable removal	4-51
Locations and connections	5-1
Locations	5-1
Front view	5-1
Rear view.	5-2
Connectors	5-3
Controller card	5-3
Controller card connector pin values	5-4
Preventive maintenance	6-1
Parts catalog	7-1
How to use this parts catalog	7-1
Assembly 1: Covers	7-2
Assembly 2: Electronics	7-4
Assembly 3: Frame	7-6
Assembly 4: Options	7-8
Assembly 5: Miscellaneous	7-9
Index	I-1
Part number index	I-7

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