

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



Service Manual

Lexmark™ X7500

4036-501

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

LEXMARK™

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

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

Other trademarks are the property of their respective owners.

**© Copyright Lexmark International, Inc. 2001, 2004.
All rights reserved.**

UNITED STATES GOVERNMENT RESTRICTED RIGHTS

This software and documentation are provided with RESTRICTED RIGHTS. Use, duplication or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 and in applicable FAR provisions: Lexmark International, Inc., Lexington, KY 40550. U.S.A.

Table of Contents

Notices and Safety Information	vii
Safety Information	iv-vii
Preface	x
General Information	1-1
Maintenance Approach	1-1
Tools Required for Service	1-1
Acronyms	1-2
Preparing the scanner for shipping	1-3
Duplex Auto Document Feeder (DADF) Power Principles of Operation	1-4
DADF Control	1-4
Scanner Principles of Operation	1-23
Scanner Power	1-23
Scanner Control	1-24
Mechanical Drive	1-28
Scanning Methods	1-30
Diagnostic Information	2-1
Start	2-1
Scanner Errors	2-2
MFD Controller Cage Errors	2-4
Symptom Tables	2-10
Diagnostic Aids	3-1
Hard disk drive refresh	3-1
Code update procedure	3-1
DADF Repair Procedures	4-1
Preparation	4-1
Notations in the Removal Replacement text	4-2
Adjustments	4-3
DADF Assembly Height Adjustment	4-3
DADF Assembly Paper Skew Adjustment	4-4
Adjusting the Position of Full Rate/Half Rate Carriages	4-6
Configuring the MFD Controller Card	4-8
DADF Repair Procedures	4-9
DADF Assembly Removal	4-9
DADF Front Cover, Handle, and Magnet Removal	4-11
DADF Cushion Removal	4-12
DADF Exit/Reverse Solenoid Removal	4-14
DADF Input Tray Assembly Removal	4-15
DADF Jam Access Door Assembly Removal	4-16

DADF Top Cover Removal	4-18
DADF Rear Cover Removal	4-19
DADF Jam Door Open Switch Removal	4-20
DADF Mylar Paper Guide Strip Removal	4-21
DADF Left and Right Hinge Removals	4-22
DADF Controller Card Assembly Removal	4-24
DADF Registration Roll Drive Motor Assembly Removal	4-26
DADF Main Drive Motor Assembly Removal	4-28
DADF Separator Pad Assembly Removal	4-30
DADF Separator Pad Removal	4-31
DADF #1 and #2 Linkage Removals	4-32
Linkage Cover Removal	4-33
Paper Stop Spring and Paper Stop Removal	4-34
DADF Roller Engagement Shaft Assembly Removal	4-36
DADF Paper Present Sensor Removal	4-38
DADF Paper Present Indicator Card Assembly Removal	4-39
Paper Present Sensor Flag Removal	4-40
DADF Pick Roller with Separator Pad Kit Assembly Removal	4-41
Registration Sensor Removal	4-42
DADF Gear #3 Bearing Removal	4-43
Tension Roller Spring and Tension Roller Removal	4-44
DADF Upper Paper Guide Removal	4-45
DADF #4 Gear Removal	4-46
Scanner Repair Procedures	4-48
User Interface Panel Removal	4-49
Flatbed Scanner Top Cover Assembly Removal	4-50
Flatbed Center Platen Glass Plate Removal	4-52
Left DADF Platen Glass Plate Removal	4-54
Scanner Main Drive Motor Assembly Removal	4-55
Scanner Motor Card Assembly Removal	4-56
Flatbed Open Sensor Removal	4-57
Registration Sensor Assembly Removal	4-58
Plate Switch Assembly Removal	4-59
Scanner System Card Assembly Removal	4-60
Charge Couple Device Card Assembly Removal	4-62
Automatic Paper Size Sensor Removal	4-64
Full Rate Carriage Lamp Assembly Removal	4-65
Cable Assembly-Scan, Rear Removal	4-66
Full Rate Carriage Lamp Cable Removal	4-71
Connector Locations	5-1
Location Maps	5-2
Wiring Diagrams and Signal Information	5-8
DADF Master Wiring Diagram	5-9
Scanner Master Wiring Diagram	5-17
Preventive Maintenance	6-1

Maintaining Your Multifunction Product (MFP)	6-1
CleaNing the touch screen	6-1
Cleaning the scanner bed	6-1
Cleaning the scanner rollers	6-1
Cleaning the scanner pick pads	6-3
Parts Catalog	7-1
How to Use This Parts Catalog	7-1
Assembly 1: DADF Cover and Solenoid	7-2
Assembly 2: DADF Cover, Switch, and Hinge (Rear)	7-4
Assembly 3: DADF Control Board and DADF Registration Roll Drive Motor Assembly 7-6	
Assembly 4: DADF Separator Pad Asm. and Paper Stop	7-8
Assembly 5: DADF Pick Roller	7-10
Assembly 6: DADF Document Registration	7-12
Assembly 7: DADF Wiring Harness	7-14
Assembly 8: Scanner Platen Glass and IPS PWB	7-16
Assembly 9: Scanner Lens Assembly and CCD Card	7-18
Assembly 10: Scanner Carriage Motor and Cable	7-20
Assembly 11: Scanner Full Rate and Half Rate Carriage	7-22
Assembly 12: Scanner Top Cover	7-24
Assembly 13: Multifunction Device Controller Cage Electronics	7-26

Index 1

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