

SAMSUNG

DIGITAL LASER MFP

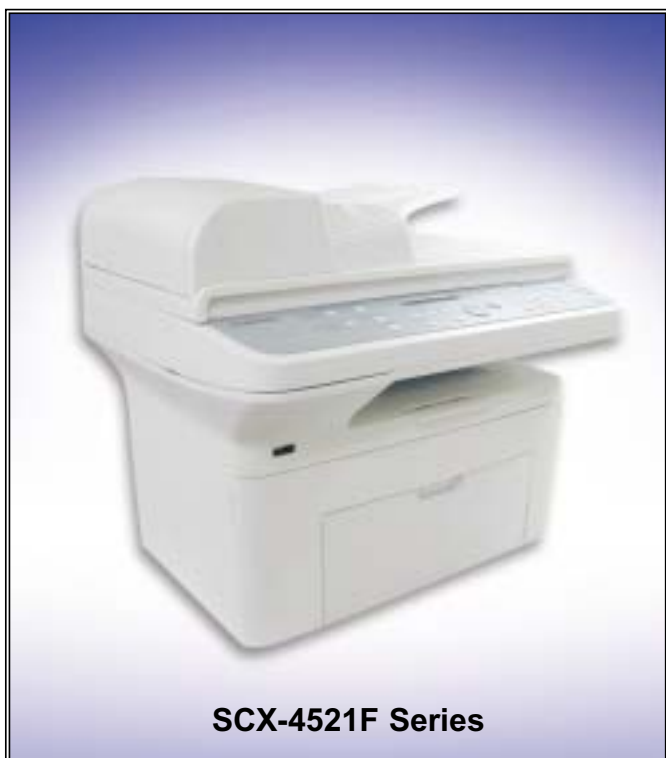
SCX-4521F Series

SCX-4521F/XEV

Basic Model : SCX-4521F

SERVICE *Manual*

DIGITAL LASER MFP



The keynote of Product

- Machine Life: 50,000Pages
- Cpu: Chorus2
- Device Memory: 16MB
- Resolution: 600*600dpi
- Option: N/A
- Printing Speed: 22ppm/LTR, 20ppm/A4
- Print Memory: 10MB
- Print Language: SPL
- Path Type: C-Path
- Cassette Capa.: 150sheets
- Outlet Stacking Capa.: 50sheets
- Toner Cartridge: initial(1K), sales(3K)
- ADF Capacity: 30sheets
- Scan Method: 600 dpi Color CIS
- Copy Speed: SDMC: 22Cpm/Ltr, MDMC: 7Cpm/Ltr
- Interface: USB1.1, IEEE1284



* This service manual is a property of Samsung Electronics Co., Ltd.
Any unauthorized use of Manual can be punished under applicable
international and/or domestic law.

* This service manual is also provided on the web, the ITSELF
system Samsung Electronics Co., Ltd.
<http://itself.sec.samsung.co.kr>

© Samsung Electronics Co., Ltd. Aug. 2005
Printed in Korea.

VERSION NO. : 1.00 CODE : JC-0139I

Contents

1. Precautions

1.1 Safety Warning	1-1
1.2 Safety Caution	1-2
1.3 ESD Precautions	1-4

2. Product Specification

2.1 Product Overview	2-1
2.2 Specifications	2-1
2.3 Model Comparison Table	2-5

3. System Overview

3.1 System Outline	3-1
3.2 H/W Structure and Descriptions	3-7
3.3 S/W Structure and Descriptions	3-19
3.4 Initial Product Installation	3-24

4. Alignment and Adjustments

4.1 Sample Pattern	4-1
4.2 Control Panel	4-2
4.3 Consumables and Replacement Parts	4-4
4.4 LED Status Error Messages	4-4
4.5 Periodic Defective Image	4-5
4.6 How to use DCU	4-6
4.7 Paper Path	4-11

Continued

5. Disassembly and Reassembly

5.1 General Precautions on Disassembly	5-1
5.2 Disassembly and Reassembly	5-2

6. Troubleshooting

6.1 Checking Symptoms	6-1
6.2 Bad discharge	6-4
6.3 Malfunction	6-8
6.4 Bad software environment	6-13
6.5 Bad Image	6-17

7. Exploded Views & Parts List

7.1 Exploded Views and Parts List	7-1
---	-----

8. Block diagram

8.1 System Block Diagram	8-1
8.2 System Timing Chart	8-2

9. Connection Diagram

9.1 Connection Diagram	9-1
------------------------------	-----

10. Schematic Diagram

10.1 Main Board	10-1
10.2 Connector Circuit Diagram	10-5
10.3 SMPS Circuit Diagram	10-6
10.4 HVPS Circuit Diagram	10-7

Continued

11. Reference Information

11.1 Troubleshooting Tools	11-1
11.2 Acronyms and Abbreviations	11-2
11.3 Selecting printer locations	11-4
11.4 Sample Tests Patterns	11-5

12. Circuit Description

12.1 Engine Controller	12-1
------------------------------	------