

**SAMSUNG**

Service Manual

# Service Manual

Service Manual



## DIGITAL LASER MFP

Model : **SCX-4828FN/XAZ**

Basic : **SCX-4824FN/SCX-4828FN**

The keynote of Product

- Print/Copy Speed  
SCX-4824FN : 24 ppm (A4) / 24 cpm (A4)  
SCX-4828FN : 28 ppm (A4) / 28 cpm (A4)
- Print resolution  
: 1200 dpi effective output
- CPU : 360 Mhz
- PCL5e, PCL6, IBM ProPrinter, EPSON PS(4828FN)

- Memory  
SCX-4824FN : 64MB(Max. 320MB)  
SCX-4828FN : 128MB(Max. 384MB)

- ADF : 30(4824FN) / 50(4828FN) Sheet
- MP : 1 Sheet
- Toner : 2K(Initial)/ 5K(Sales)

[www.tonerplus.com.ua](http://www.tonerplus.com.ua)

**TONER**+



**ELECTRONICS**

*Service Manual*

GSPN (Global Service Partner Network)

North America : [service.samsungportal.com](http://service.samsungportal.com)

Latin America : [latin.samsungportal.com](http://latin.samsungportal.com)

CIS : [cis.samsungportal.com](http://cis.samsungportal.com)

Europe : [europe.samsungportal.com](http://europe.samsungportal.com)

China : [china.samsungportal.com](http://china.samsungportal.com)

Asia : [asia.samsungportal.com](http://asia.samsungportal.com)

Mideast & Africa : [mea.samsungportal.com](http://mea.samsungportal.com)

© Samsung Electronics Co., Ltd. September, 2008  
Printed in Korea.

**VERSION NO. : 1.00**

**CODE : 4828-FN0XAZ**

[www.tonerplus.com.ua](http://www.tonerplus.com.ua)



## *chapter 1* *Precautions*

1.1 Safety Warning .....	1-1
1.2 Caution for safety .....	1-2
1.3 ESD Precautions .....	1-5
1.4 Super Capacitor or Lithium Battery Precautions .....	1-5

## *chapter 2* *Product spec and feature*

2.1 Product Specifications .....	2-1
2.1.1 Product Overview .....	2-1
2.1.2 Specifications .....	2-2
2.1.3 Model Comparison.....	2-9
2.2 Summary of Product .....	2-10
2.2.1 Printer Components .....	2-10
2.2.2 System Layout .....	2-12
2.2.3 Engine H/W Specifications .....	2-16
2.2.4 S/W Descriptions .....	2-27

## *chapter 3* *Disassembly and Reassembly*

3.1 Disassembly and Reassembly on Disassembly .....	3-1
3.1.1 Screws used in the printer .....	3-2
3.2 General Disassembly .....	3-3
3.2.1 Front Cover .....	3-3
3.2.2 Rear Cover .....	3-3
3.2.3 Right/Left Cover .....	3-4
3.2.4 Scan and ADF Assy .....	3-5
3.2.5 Middle Cover .....	3-9
3.2.6 Fuser .....	3-9
3.2.7 LSU .....	3-10
3.2.8 Main Drive Assy .....	3-10
3.2.9 HVPS/SMPS/Main board .....	3-11

3.2.10 Transfer roller .....	3-12
3.2.11 Holder Pad unit.....	3-13

## *chapter 4 Alignment & Troubleshooting*

4.1 Alignment and Adjustments.....	4-1
4.1.1 Control Panel overview .....	4-1
4.1.2 Understanding The Status LED .....	4-2
4.1.3 Paper path .....	4-3
4.1.4 Menu Map .....	4-10
4.1.5 Tech Mode .....	4-12
4.1.6 EDC Mode .....	4-17
4.1.7 Abnormal Image Printing and Defective Roller .....	4-23
4.1.8 Error Message .....	4-24
4.2 Troubleshooting.....	4-28
4.2.1 Procedure of Checking the Symptoms .....	4-28
4.2.2 The cause and solution of Bad image.....	4-29
4.2.3 The cause and solution of the bad discharge .....	4-45
4.2.4 The cause and solution of the malfunction.....	4-53
4.2.5 The cause and solutions of bad environment of the software .....	4-62
4.2.6 Fax & Phone Problems .....	4-66
4.2.7 Copy Problems .....	4-75
4.2.8 Scanning Problems .....	4-79

## *chapter 5 Exploded Views & Parts List*

Thumbnail .....	5-2
5.1 Main .....	5-3
5.2 Cover Ass'y .....	5-5
5.3 Cover Middle .....	5-7
5.4 Frame .....	5-9
5.5 Main Drive .....	5-15
5.6 Scan Ass'y .....	5-17

5.7 ADF Ass'y .....	5-19
5.8 Platen Ass'y .....	5-21
5.9 OPE Unit .....	5-23
5.10 Duplex Unit .....	5-25
5.11 Fuser.....	5-27
5.12 Cassette .....	5-30
5.13 SCF .....	5-32

## **chapter 6** *System Diagram*

6.1 Block Diagram .....	6-1
6.2 Connection Diagram.....	6-2

## **chapter 7** *Reference Information*

7.1 Tool for Troubleshooting .....	7-1
7.2 Acronyms and Abbreviations .....	7-2
7.2.1 Acronyms .....	7-2
7.2.2 Service Parts .....	7-4
7.3 The Sample Pattern for the Test.....	7-8
7.4 Selecting a location .....	7-9