

SAMSUNG

Color Laser MFP

CLX-317x series

CLX-3170/3170N/3170FN/3170FW

CLX-3175/3175N/3175FN/3175FW

SERVICE *Manual*

Samsung Color Laser MFP



The keynote of Product

**The smallest / The lowest noise
High Quality Multi-path Color MFP**

- Model : CLX-317x series
- Speed
 - . Mono : Up to 16 ppm in A4 (17 ppm in Letter)
 - . Color : Up to 4 ppm in A4 (4 ppm in Letter)
- Printing Resolution
 - . Max. 2400x600 dpi effective output
- Processor
 - . CHORUS3 (360Mhz), Proprietary SOC
 - Emulations : SPL-Color
- Memory : DDR2 SDRAM 128 MB
- Interfaces
 - . USB Device 2.0
 - . One 10/100 Base Tx network connector
 - . Wireless N/W (317xFW)
- Toner cartridge
 - . Black : 1K (initial) / 1.5K (sales)
 - . Color : 0.7K (initial) / 1K (sales)
- 150 Cassette, ADF
- Printer Life : 100K pages



ELECTRONICS

GSPN (Global Service Partner Network)

North America : service.samsungportal.com

Latin America : latin.samsungportal.com

CIS : cis.samsungportal.com

Europe : europe.samsungportal.com

China : china.samsungportal.com

Asia : asia.samsungportal.com

Mideast & Africa : mea.samsungportal.com

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

VERSION NO. : 1.00 CODE : 317x-B00XEU

Contents

1. Precautions

1.1 Safety Warning	1-1
1.2 Caution for safety	1-2
1.3 ESD Precautions	1-5

2. Product spec and feature

2.1 Product Specifications	2-1
2.1.1 Product Overview.....	2-1
2.1.2 Product Specification.....	2-2
2.1.3 Model Comparison Table.....	2-12
2.2 System Overview.....	2-13
2.2.1 System Structure	2-13
2.2.2 H/W description	2-23
2.2.3 CRUM.....	2-30
2.3 S/W Structure and Descriptions	2-31
2.3.1 Architecture	2-31
2.3.2 Language Monitor	2-31
2.3.3 Status Monitor.....	2-31
2.3.4 Network Interface.....	2-32
2.3.5 Printer Driver <-> Status Monitor	2-32
2.3.6 System F/W Flow.....	2-33
2.3.7 Alarm Shortage.....	2-34
2.3.8 Error status	2-34
2.3.9 CRUM Overview	2-35
2.3.10 Initailize Flow.....	2-36

Continued

3. Disassembly and Reassembly

3.1	Precautions when replacing parts	3-1
3.1.1	Precautions when assembling and disassembling.....	3-1
3.1.2	Precautions when handling PBA.....	3-1
3.1.3	Releasing Plastic Latches	3-1
3.2	Parts for Maintenance and Repair	3-2
3.2.1	Replacement interval for parts with a limited life	3-2
3.2.2	Printer Cleaning.....	3-3
3.3	Information Related to Disassembly and Assembly	3-4
3.3.1	Special service parts	3-4
3.3.2	Screws used in the printer	3-5
3.4	Disassembly Procedure.....	3-8
3.4.1	Cover.....	3-8
3.4.2	Scan Assy.....	3-9
3.4.3	ADF Assy.....	3-10
3.4.4	OPE unit.....	3-12
3.4.5	Sheet ADF	3-13
3.4.6	CIS unit	3-14
3.4.7	Middle Cover	3-15
3.4.8	ITB.....	3-16
3.4.9	Fuser.....	3-16
3.4.10	HVPS board.....	3-17
3.4.11	Main PBA	3-17
3.4.12	SMPS board	3-18
3.4.13	LSU Unit	3-18
3.4.14	Holder Pad	3-19
3.4.15	Transfer Unit	3-19
3.4.16	Pick up roller	3-20

Continued

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	4-9
4.1.5 F/W Upgrade	4-11
4.1.6 Tech Mode	4-12
4.1.7 EDC Mode	4-17
4.1.8 Periodic Defective Image	4-21
4.1.9 Error Message	4-22
4.2 Troubleshooting	4-27
4.2.1 Procedure of Checking the Symptoms	4-27
4.2.2 Troubleshooting Checklist	4-28
4.2.3 Solving General Printing Problems	4-29
4.2.4 Solving Print Quality Problems	4-40
4.2.5 Common Windows Problems	4-58
4.2.6 Common Macintosh Problems	4-59
4.2.7 Common Linux Problems	4-60
4.2.8 Major Problems Trouble shooting	4-64
4.2.9 Fax & Phone Problems	4-80
4.2.10 Copy Problems	4-88
4.2.11 Scanner, OPE problems	4-92

5. Exploded Views & Parts List

Thumbnail	5-2
5.1 Main	5-3
5.2 Cover Middle	5-6
5.3 Cover Rear	5-8
5.4 Cover Front	5-10

Continued

5.5 Scan Unit(4 in 1).....	5-12
5.6 Standard ADF	5-14
5.7 Path Lower Unit	5-16
5.8 Scan Lower Unit.....	5-18
5.9 OPE Unit.....	5-20
5.10 Scan Upper Unit	5-22
5.11 Scan Unit(3 in 1)	5-24
5.12 Frame1	5-26
5.13 Frame2	5-28
5.14 Main Drive1	5-30
5.15 Main Drive2	5-33
5.16 Fuser Unit	5-35
5.17 Cartridge Transfer Unit	5-38
5.18 Tank Waste Unit.....	5-41
5.19 Cassette	5-43

6. System Diagram

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

7. Reference Information

7.1 Tool for Troubleshooting	7-1
7.2 Acronyms and Abbreviations.....	7-2
7.3 Select a location for the printer	7-4
7.4 A4 ISO 19752 Standard Pattern.....	7-5