

DIGITAL LASER MFP

SCX-6345 Series

SCX-6345N

SERVICE Manual

DIGITAL LASER MFP



The keynote of Product

The alternative of A3 copier models.

- 1. Print Speed:
 - Simplex Print: Up to 45 ppm/Ltr, 43 ppm/A4
 Duplex Print: Up to 40 ppm/A4
- 2. Main Processor: SPGPv3(400MHz) + CIP4e
- 3. Device Memory(SDRAM):
 256MB System Memory (FAX:16MB), Max. 384MB
 Option : 128MB (DIMM Slot 1EA)
- 4. Toner(20K), Drum(60K)
- 5. Standard:
 - · Copy
 - · Direct Print & N/W Print
 - Direct Scan (USB)

 - · HDD(40GB)
- 6. Option:
 - · N/W Scan/OEK(Option Enable Key)
 - · FAX/Smart DAA, Single LIU
 - \cdot SCF (550 sheet)
 - Finisher with Stapler
 - Ext. Memory: 256MB
 - Stand: Short/Tall
- 7. Machine Life: 1,000K Pages
 - · Average Monthly Print Volume: 10K Pages



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1. Precautions

In order to prevent accidents and to prevent damage to the equipment please read the precautions listed below carefully before servicing the printer and follow them closely.

1.1 Safety Warning

- Only to be serviced by appropriately qualified service engineers. High voltages and lasers inside this product are dangerous. This printer should only be serviced by a suitably trained and qualified service engineer.
- (2) Use only Samsung replacement parts

There are no user serviceable parts inside the printer. Do not make any unauthorized changes or additions to the printer, these could cause the printer to malfunction and create electric shock or fire haz-ards.

(3) Laser Safety Statement

The Printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, chapter 1 Subchapter J for Class 1(1) laser products, and elsewhere, it is certified as a Class I laser product conforming to the requirements of IEC 825. Class I laser products are not considered to be hazardous. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

Warning >> Never operate or service the printer with the protective cover removed from Laser/Scanner assembly. The reflected beam, although invisible, can damage your eyes. When using this product, these basic safety pre-cautions should always be followed to reduce risk of fire, electric shock, and injury to persons.

	CAUTION - INVISIBLE LASER RADIATION WHEN THIS COVER OPEN. DO NOT OPEN THIS COVER.
	VORSICHT - UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENTION -	RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ATTENZIONE -	RADIAZIONE LASER INVISIBILE IN CASO DI APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.
PRECAUCION -	RADIACION LASER IVISIBLE CUANDO SE ABRE. EVITAR EXPONERSE AL RAYO.
ADVARSEL	USYNLIG LASERSTRÅLNING VED ÅBNING, NÅR SIKKERHEDSBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLNING.
ADVARSEL	USYNLIG LASERSTRÅLNING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN. UNNGÅ EKSPONERING FOR STRÅLEN.
VARNING - VARO! -	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN. STRÅLEN ÄR FARLIG. AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-
注 意-	SÄTEILYLLE ÄLÄ KATSO SÄTEESEEN. 严禁渴开此盖, 以免激光泄露灼伤
주 의-	이 덮개를 열면 레이저광에 노출될 수 있으므로 주의하십시오.

1.2 Caution for safety

1.2.1 Toxic material

This product contains toxic materials that could cause illness if ingested.

- (1) If the LCD control panel is damaged it is possible for the liquid inside to leak. This liquid is toxic. Contact with the skin should be avoided, wash any splashes from eyes or skin immediately and contact your doctor. If the liquid gets into the mouth or is swallowed see a doctor immediately.
- (2) Please keep Drum cartridge and Toner Cartridge away from children. The toner powder contained in the Drum cartridge and Toner Cartridge may be harmful and if swallowed you should contact a doctor.

1.2.2 Electric Shock and Fire Safety Precautions

Failure to follow the following instructions could cause electric shock or potentially cause a fire.

- (1) Use only the correct voltage, failure to do so could damage the printer and potentially cause a fire or electric shock.
- (2) Use only the power cable supplied with the printer. Use of an incorrectly specified cable could cause the cable to overheat and potentially cause a fire.
- (3) Do not overload the power socket, this could lead to overheating of the cables inside the wall and could lead to a fire.
- (4) Do not allow water or other liquids to spill into the printer, this can cause electric shock. Do not allow paper clips, pins or other foreign objects to fall into the printer these could cause a short circuit leading to an electric shock or fire hazard.
- (5) Never touch the plugs on either end of the power cable with wet hands, this can cause electric shock. When servicing the printer remove the power plug from the wall socket.
- (6) Use caution when inserting or removing the power connector. The power connector must be inserted completely otherwise a poor contact could cause overheating possibly leading to a fire. When removing the power connector grip it firmly and pull.
- (7) Take care of the power cable. Do not allow it to become twisted, bent sharply round corners or other wise damaged. Do not place objects on top of the power cable. If the power cable is damaged it could overheat and cause a fire or exposed cables could cause an electric shock. Replace a damaged power cable immediately, do not reuse or repair the damaged cable. Some chemicals can attack the coating on the power cable, weakening the cover or exposing cables causing fire and shock risks.
- (8) Ensure that the power sockets and plugs are not cracked or broken in any way. Any such defects should be repaired immediately. Take care not to cut or damage the power cable or plugs when moving the machine.
- (9) Use caution during thunder or lightening storms. Samsung recommend that this machine be disconnected from the power source when such weather conditions are expected. Do not touch the machine or the power cord if it is still connected to the wall socket in these weather conditions.
- (10) Avoid damp or dusty areas, install the printer in a clean well ventilated location. Do not position the machine near a humidifier. Damp and dust build up inside the machine can lead to overheating and cause a fire.
- (11) Do not position the printer in direct sunlight. This will cause the temperature inside the printer to rise possibly leading to the printer failing to work properly and in extreme conditions could lead to a fire.
- (12) Do not insert any metal objects into the machine through the ventilator fan or other part of the casing, it could make contact with a high voltage conductor inside the machine and cause an electric shock.

1.2.3 Handling Precautions

The following instructions are for your own personal safety, to avoid injury and so as not to damage the printer

- (1) Ensure the printer is installed on a level surface, capable of supporting its weight. Failure to do so could cause the printer to tip or fall.
- (2) The printer contains many rollers, gears and fans. Take great care to ensure that you do not catch your fingers, hair or clothing in any of these rotating devices.
- (3) Do not place any small metal objects, containers of water, chemicals or other liquids close to the printer which if spilled could get into the machine and cause damage or a shock or fire hazard.
- (4) Do not install the machine in areas with high dust or moisture levels, beside on open window or close to a humidifier or heater. Damage could be caused to the printer in such areas.
- (5) Do not place candles, burning cigarettes, etc on the printer, These could cause a fire.

1.2.4 Assembly / Disassembly Precautions

Replace parts carefully, always use Samsung parts. Take care to note the exact location of parts and also cable routing before dismantling any part of the machine. Ensure all parts and cables are replaced correctly. Please carry out the following procedures before dismantling the printer or replacing any parts.

- (1) Check the contents of the machine memory and make a note of any user settings. These will be erased if the mainboard or network card is replaced.
- (2) Ensure that power is disconnected before servicing or replacing any electrical parts.
- (3) Disconnect printer interface cables and power cables.
- (4) Only use approved spare parts. Ensure that part number, product name, any voltage, current or temperature rating are correct.
- (5) When removing or re-fitting any parts do not use excessive force, especially when fitting screws into plastic.
- (6) Take care not to drop any small parts into the machine.
- (7) Handling of the OPC Drum
 - The OPC Drum can be irreparably damaged if it exposed to light.

Take care not to expose the OPC Drum either to direct sunlight or to fluorescent or incandescent room lighting. Exposure for as little as 5 mins can damage the surface's photoconductive properties and will result in print quality degradation. Take extra care when servicing the printer. Remove the OPC Drum and store it in a black bag or other lightproof container. Take care when working with the covers(especially the top cover) open as light is admitted to the OPC area and can damage the OPC Drum.

- Take care not to scratch the green surface of OPC Drum Unit. If the green surface of the Drum Cartridge is scratched or touched the print quality will be compromised.

1-3

1.2.5 Disregarding this warning may cause bodily injury

(1) Be careful with the high temperature part.

The fuser unit works at a high temperature. Use caution when working on the printer. Wait for the fuser to cool down before disassembly.

(2) Do not put finger or hair into the rotating parts.

When operating a printer, do not put hand or hair into the rotating parts (Paper feeding entrance, motor, fan, etc.). If do, you can get harm.

(3) When you move the printer

- When transporting/installing the equipment, employ four persons and be sure to hold the positions as shown in the figure.

The equipment is quite heavy and weighs approximately 45 Kg (including consumables), therefore pay full attention when handling it.

- Be sure not to hold the movable parts or units (e.g. the control panel, DADF) when transporting the equipment.
- Be sure to use a dedicated outlet with 110V/220Vpower input.
- The equipment must be grounded for safety.
- Select a suitable place for installation. Avoid excessive heat, high humidity, dust, vibration and direct sunlight.
- Provide proper ventilation since the equipment emits a slight amount of ozone.
- To insure adequate working space for the copying operation, keep a minimum clearance of 80cm (32") on the left, 80 cm (32") on the right and 10 cm (4") on the rear.
- The equipment shall be installed near the socket outlet and shall be accessible.
- Be sure to fix and plug in the power cable securely after the installation so that no one trips over it.

1.3 ESD Precautions

Certain semiconductor devices can be easily damaged by static electricity. Such components are commonly called "Electrostatically Sensitive (ES) Devices", or ESDs. Examples of typical ESDs are: integrated circuits, some field effect transistors, and semiconductor "chip" components.

The techniques outlined below should be followed to help reduce the incidence of component damage caused by static electricity.

Caution >>Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

- 1. Immediately before handling a semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, employ a commercially available wrist strap device, which should be removed for your personal safety reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ESDs, place the assembly on a conductive surface, such as aluminum or copper foil, or conductive foam, to prevent electrostatic charge buildup in the vicinity of the assembly.
- 3. Use only a grounded tip soldering iron to solder or desolder ESDs.
- 4. Use only an "anti-static" solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
- 5. Do not use Freon-propelled chemicals. When sprayed, these can generate electrical charges sufficient to damage ESDs.
- 6. Do not remove a replacement ESD from its protective packaging until immediately before installing it. Most replacement ESDs are packaged with all leads shorted together by conductive foam, aluminum foil, or a comparable conductive material.
- 7. Immediately before removing the protective shorting material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
- 8. Maintain continuous electrical contact between the ESD and the assembly into which it will be installed, until completely plugged or soldered into the circuit.
- Minimize bodily motions when handling unpackaged replacement ESDs. Normal motions, such as the brushing together of clothing fabric and lifting one's foot from a carpeted floor, can generate static electricity sufficient to damage an ESD.

1.4 Super Capacitor or Lithium Battery Precautions

- 1. Exercise caution when replacing a super capacitor or Lithium battery. There could be a danger of explosion and subsequent operator injury and/or equipment damage if incorrectly installed.
- 2. Be sure to replace the battery with the same or equivalent type recommended by the manufacturer.
- 3. Super capacitor or Lithium batteries contain toxic substances and should not be opened, crushed, or burned for disposal.
- 4. Dispose of used batteries according to the manufacture's instructions.

2. Product Specifications

2.1 Product Overview

1) Major Feature

- SCX-6345N : 45PPM All-in-1 (exclude from Analog Fax)
- Productive 43 cpm output speeds in A4
- 600 x 600 dpi output
- 50-sheet DADF
- Versatile paper supply of up to 2,300 sheets
- 25% 400% zoom
- Finishing capabilities, including stapling and offset stacking
- Wide Touch Screen (640x240) (Simple Intuitive Graphic Touch Screen User Interface)
- Easy to use digital copier with finishing
- Improved Productivity through Super G3 and LAN Faxing with advanced copying capabilities
- Networked digital copier/printer/scanner with its duplex printing and finishing capabilities, plus network scan technology
- 2) Sales Target
 - 20 ~ 100 Persons Workgroup (Corp., SMB)
 - Competitive TCO

3) Concept

- Lower than Half Price of A3 Mono MFP
- High Performance Network-Ready Print
- N/W Scan Operation
 - Scan Solution
 - · Scan to Client / FTP / SMB
 - Scan to Email
 - SmarThru Workflow
- Job Accounting
 - · Job Records Information (Print/Copy/Scan/Fax)
 - · User based History tracking
 - · SNMP Job Accounting Access from SWAS
 - · Print/Copy/Scan/Fax log tracking (HDD, Server)
- Security
 - · Authentication (LDAP, Kerberos)
 - Secure Printing
 - IP Address Filtering
 - · Time / Date / ID Stamp
- Enhanced UI / Color Touch Screen LCD
 - · Enhanced Paper Handling
 - High Capacity Feeder
 - Multi-bin Stacker
 - Multi-position Stapler
- Document Server
 - · Scan / Copy / FAX to HDD
 - · File Management
 - · Paperless N/W Fax
 - Internet FAX
 - Fax Forward to Email / Folder
- $\cdot \operatorname{IP} \mathsf{FAX}$

2.2 Prouduct Specification

No		Items	SCX-6345N	Remarks
			Simpley: 45ppm/LTR_43ppm/A4	Kennarko
		Print	Dupley: 42 ppm/LTR 40 ppm/A4	
			SDMP: 45ppm// TR_43ppm//44	
			MDSP: 45ppm/LTR, 43ppm/A4	
1	Speed	Copy	Simplex-to-Duplex(1-2): :	
		COPY	Approx. 42ipm/Ltr, 40ipm/A4	
			Duplex-to-Duplex(2-2) collated	
			Approx. 17ipm/Ltr, 14ipm/A4	
		Scan	45ppm at 300dpi / 22ppm at 600dpi	N/W Scan(Color 600*300) : 3ipm
		Print	600*600dpi, Addressable 1200dpi	
2	Resolution	Copy/Scan	600*600dpi 100, 200, 300, 400, 600	
3	Processor	ļ 13	SPGPV3 ,400MHz	
4	Emulation		PCL6, PS3	
5	Connectivity		USB 2.0, N/W (PCI base)	USB Printing
6	LCD		Graphic Touch Screen LCD(640x240)	Ŭ
7	Memory		256MB, Option 128MB	Max. 384MB
		From cold start	Less than 60 sec	
8	Warm up	From Sleep	Less than 35 sec	
		From stand by	Less than 8 sec	
9	FPOT	From Sleep	Less than 40 sec	
			From Platen : Less than 6 sec	
10	FCOT	⊢rom stand by	From DADF : Less than 8 sec	
10		From Sleep	From Platen : Less than 36 sec	
			From DADF : Less than 36 sec	
11	Reduction & Enlargement		I Zoom Range ; - 25% to 400% in Platen, - 25% to 100% in ADF	
		Main/Option Trav	520sheets	
12	Paper Input Capacity	MP Trav	Up to : 100sheets	
	apor input oupdoity		Max 50 abaata	
	Dener Output		Face Down 500 shoets	
13	Paper Output		Max 50 aboats	
	oupdoity	ADF	Indx 50 sheets	
1/	Noiso	Stanuby	During Drinting (Simpley) : under 60dB	
14	NUISE	Print/Copy	Conving (Simplex), under 60dB	
		Modom Spood	Copying (Simplex) ; under 62dB	
15	FAX	wodem Speed	2.5 and @ IPIC mode	
	(Option)	TX Speed		
16	System		64MB (FAX memory 16MB)	
17	CRU	Initial Toner	20K at ISO 19752 Std.	
		Regular Toner	20K at ISO 19752 Std.	
18	EP-Process	Туре	2 component	

No		Items	SCX-6345N	Remarks
		SCF	520sheets	
		Finisher	stacking ;500 sheet	
19	Option	Finisher	Stapling 50 sheets max.	
			Short Stand (Stand Low)	
			Tall Stand (Stand High)	
		Fax	Stamdard G3 PSTN Modem Speed : 33.6Kbs Fax Memory : 16MB	
		Memory	DIMM module up to 256MB	
		Network Scan-E mail	Scan To E mail Network Scan Manager SMB/FTP(Scan to Server)	
			Network CD	
		5/W APPLICATION-CD	Driver CD	
	Accessory CBF-POWER CORD	MANUAL-NETWORK GUIDE		
20		MANUAL on CD		
		CBF-POWER CORD	-	
		CBF INTERFACE-USB	-	
		CBF LINE CORD	-	
		Feed Roller	200,000 Feeds	
		Transfer Roller	100,000 images	
21	Maintenance Life	Fuser Unit	200,000 images	
		ADF/Bypass Feed Roller	200,000 Feeds	
		ADF/Bypass Rubber Pad	50,000 Feeds	
		Engine Life	1,000,000 images	
		MPBF	120,000 images	
22	Reliability	AMPV	10,000 images	
		Max Monthly Duty Cycle	100,000 images	10months for Engine Life

2.3 General specifications

ITEM	DESCRIPTION	
DADF	Up to 50 sheets	
DADF document size	Width:174 to 218 mm	
	Length: 128 to 356 mm for single page scan	
	128 to 356 mm for multi pages scan	
Paper input capacity	Tray 1: 520 multi-pages for plain paper	
	30 pages for transparencies, labels, card stock, and envelopes	
	 Multi-purpose tray: 100 multi-pages for plain paper, 10 pages for transparencies, labels, card stock, and envelopes 	
	optional tray 2/3/4: 520 multi-pages for plain paper, 30 pages for transparencies, labels, and card stock	
Paper output capacity	. 500 sheet (face down)	
	. 500 sheet (national stacker)	
Consumables	2-piece toper/drum cartridge system	
Power rating	110 - 127 VAC 50/60 Hz 9 A	
	220 - 240 VAC, 50/60 Hz, 4 5 A	
Power consumption	Average operation mode: Less than 900 W	
·	Power save mode: Less than 35 W	
	Stand by mode: Less than 170 W	
Noise level ^a	Standby mode: Less than 43 dBA	
	Printing mode: Less than 60 dBA	
	Copying mode: Less than 62 dBA	
Warm-up time	Less than 35 seconds (from sleep mode)	
Operating environment	Temperature: 10 °C to 32 °C	
	Humidity: 20% to 80% RH	
Display	1/2 VGA (640 x 240)	
Toner cartridge life ^b	20,000 pages at ISO 19752 Std.	
Drum cartridge life ^b	60,000 pages	
*Memory	256 MB (max. 384 MB)	
External dimension (W x D x H)	637.4 x 489 x 616mm (without tray 2/3/4), 25 x 19.25x 24.25 inches	
Weight	44.5 Kg (including consumables)	
Package weight	Paper: 5.4 Kg, Plastic: 1.2 Kg	

a. Sound Pressure Level, ISO 7779

b. The number of pages may be affected by operating environment, printing interval, media type, media size and option.

* Note: This machine comes with 128 MB of on-board memory and a 128 MB DIMM. To expand the memory of your machine, you must remove the existing DIMM and purchase a larger one.

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2.4 Printer specifications

ITEM		DESCRIPTION	
Printing method		2 Beam Laser Scanning Unit and Electro Photo graphy	
Printing speed ^a		Up to 43 ppm in A4 (45 ppm in Letter)	
Duplex printing spe	eed	Up to 40 ipm in A4 (42 ipm in Letter)	
First print out time		8 seconds (from ready)	
Print resolution		Up to 600 x 600 dpi (1200 dpi class)	
Printer language		PCL 6, PS 3	
OS Support	PCL/PS	Windows 98/Me/NT4.0/2000/XP(32/64bit)/2003 Server(32/64bit), Various Linux OS including Red Hat 8~9, Fedora Core 1~4, Mandrake 9.2~10.1 and SuSE 8.2~9.2 Mac OS 10.3~10.4	
	WHQL	Windows 2000/XP/2003 Server	
	Network	Windows 98/ME/NT4.0/2000/XP(32/64bits)/2003(32/64bits) NetWare 4.x, 5.x, 6.x Mac OS 8.6~9.2/10.1~10.4 Various Linux OS including Red Hat 8~9, Fedora Core 1~4, Mandrake 9.2~10.1, and SuSE 8.2~9.2 Unix HP-UX, Solaris, SunOS, SCO UNIX	
	UNIX Filter	N/A	
Printing Support for AS/400		Yes	
Direct Printing		PDF 1.4	
Interface		High Speed USB 2.0 Ethernet 10/100 Base TX	

a. Print speed will be affected by operating system used, computing performance, application software, connecting method, media type, media size, and job complexity.

b. Please visit www.samsungprinter.com to download the latest software version.

2.5 Copier specifications

ITEM	DESCRIPTION	
Copy speed ^a	Up to 43 ppm in A4 (45 cpm in Letter)	
Duplex Copy speed	 Simplex to Duplex(1-2): Approx. 40 ipm b in A4 (42 ipm in Letter) 	
	Duplex to Duplex(2-2): 14 ipm in A4 (17 ipm in Letter)	
Copy resolution	Scan: up to 600 x 300 (text, text/photo) up to 600 x 600 (photo using platen) up to 600 x 300 (photo using DADF)	
	Print: up to 600 x 600 (text, text/photo, photo)	
Zoom rate	25% ~ 400% (Platen), 25% ~ 200% (ADF)	
Multiple copies	1 to 999 pages	

a. Copy Speed is based on Single Document Multiple Copy.

b. images per minute

2.6 Scanner specifications

ITEM	DESCRIPTION	
Compatibility	TWAIN standard / WIA standard	
Scanning method	DADF and Flat-bed Color CCD (Charge Coupled Device) module	
Resolution	Optical: 600 x 600 dpi (mono and color)	
	Enhanced: 4,800 x 4,800 dpi	
Effective scanning length	Scanner glass: 348 mm	
	DADF: 348 mm	
Effective scanning width	Max 208 mm	
Color bit depth	Internal: 36 bit	
	External: 24 bit	
Mono bit depth	1 bit Linearity & Halftone	
	8 bits (External), 12 bits (Internal) for Gray Scale	
Grayscale	256 levels	

2.7 Facsimile specifications (optional)

ITEM	DESCRIPTION	
Compatibility	ITU-T Group 3	
Applicable line Public Switched Telephone Network (PSTN) or behind PABX		
Data coding	MH/MR/MMR/JBIG/JPEG (Tx only)	
Modem speed	33.6 Kbps	
Transmission speed	Approx. 3 seconds/page ^a	
Maximum document length	Scanner glass: 356 mm	
	Duplex automatic document glass: 356 mm	
Resolution	Standard: 203 x 98 dpi	
	• Fine: 203 x 196 dpi	
	• Super Fine: 300 x 300 dpi, 406 x 392 dpi, 203 x 392 dpi (Rx only)	
Memory 1	16 MB	
Halftone	256 levels	
Auto dialer	up to 200 numbers (all numbers / Max group avail)	

a. Transmission time applies to memory transmission of text data with ECM compression using only ITU-T No.1 Chart.

2.8 Scan to Email (optional)

ITEM		DESCRIPTION
HW, S/W Requirements		Need Scan Enable Kit
Authentication	ID/Password Login	LDAP/Kerberos/SMB/Local Authentication
Protocol		SMTP, MIME(Base 64)
Max. Capacity	Message size	1/2/3/4/5/10MB
of Message	Local Address Book	Up to 200
Max. Scan Area		Up to Legal size in Platen, DADF
Basic Sending Mode	Address Entry	Manual EntryLocal Address Book (Up to 200 Users)LDAP
	Duplex	- 1-Sided - 2-Sided - 2-Sided & Rotate Side2
	Resolution	Color: 100, 200, 300 Mono: 100, 200, 300, 400, 600 Gray: 100, 200, 300, 400, 600
Image control Mode	Original Size	Auto, Custom, Mixed Size
	Original type	Text, Text/Photo, Photo, Color
	Darkness	5 Levels
	Sharpness	No
	Erase Background	Yes (On/Off)
	Erase Edge	Yes
Output Control	Quality/File Size	Normal Quality
	File Formats	BMP, TIFF-S, TIFF-M, JPEG, PDF

2.9 NW Scan (Scan to SMB/FTP/HTTP(S))

ITEM		DESCRIPTION
HW, S/W Requirements		SCX-KIT10S
Authentication	ID/Password Login	LDAP/Kerberos/SMB/Local Authentication
Protocol		SMB, FTP
Template settings	Server Address	IPv4 Address or DNS name
	Port Number	0 ~ 65535
Basic Entry	Color	Yes
	Resolution	Color: 100, 200, 300 Mono: 100, 200, 300, 400, 600 Gray: 100, 200, 300, 400, 600
	Original Size	Auto, Manual, Mixed Size
Image control	Original type	Text, Text/Photo, Photo
	Darkness	5 Levels
	Erase Background	Yes (On/Off)
	Erase Background	Yes (On/Off)
Output Control	Quality/File Size	Normal Quality
	File Formats	TIFF-S, TIFF-M, JPEG, PDF

2.10 SmarThru Workflow

ITEM		DESCRIPTION
HW, S/W Requirements		SCX-KIT11S
OS	Server	Windows 2000/XP/2003 Server
	Cient	OS including Windows that supports IE5.5 or higher
Server	No. of user	Up to 1,000 user (up to 100 Workforms per user)
	No. of device	Up to 100 device (up to 10 devices at the same time)
	Address Entry	Server: Device: Server Address book + each Device's Phonebook, Email Address book
		Local(HD) + Local(SmarThru Workflow) + Global(LDAP) Address book UI
Scan To	Folder(SMB)	Yes (Via SmarThru Server)
	Email	Yes (Via SmarThru Server)
	OCR	Yes (Via SmarThru Server)
	FTP	Yes (Via SmarThru Server)
	Fax	Tx to Fax Server (Via SmarThru Server)
	HTTP/S	No
	Print	Color scan(Mono Print) to Color Print (Via SmarThru Server)
Fax to	Folder	Yes (Via SmarThru Server)
	Email	Yes (Via SmarThru Server)
	OCR	N/A (Fax Resolution is too low)
	FTP	Yes (Via SmarThru Server)
	Fax	similar with Server Fax solution (Via SmarThru Server)
	Print	Yes (Via SmarThru Server)
	HTTP/S	No
Security	SSL/TLS	SSLV3.0, TLS V1.0
	Authentication	LDAP, Kerberos v5.0
	IPv6	NO

2.11 Paper Handling

ITEM		DESCRIPTION
Input Capacity	Main Tray	Up to 520sheets @ 75g/ m ²
	MP Tray	100sheets @ 75g/m ²
	Optional Cassette (SCX-S6345A)	520 sheets @ 75g/m³Max. three additional cassettes could be attached (SEE Tray2 Option for more information)
	Sensing(Cassette)	H/W Install Sensor: Yes Paper Empty Sensor: Yes Paper Size Detect: Partially YES (A4,Ltr.,Legal,Folio,Oficio, Executive) Paper Type Detect: No
Output Capacity	Face Down	500 sheets @ 75g/ m²
	Face Up	N/A
	Sensing	Paper Full Sensor: Yes
Tray 1/2/3/4	Media Size	Letter, Legal, Oficio, Folio, A4, JIS B5, ISO B5, Executive, A5, Statement, A6, PostCard 4x6, Envelope B5, Envelope Monarch, Envelope COM-10, Envelope DL, Envelope C5, Envelope C6, Custom
	Media Size Control Guide	Min: 98.0 mm x 148 mm (3.86"x5.83") Max: 215.9 mm x 355.6 mm (8.5"x14.0")
	Media type	Plain Paper, Thin Paper, Bond, Punched, Pre-Printed, Recycled, Envelope, Transparency, Label, CardStock, Letterhead,Thick,Cotton,Colored,Archive
	Mdeia Weight	Plain Paper: 60~90g/ mi(16~24 lb) (Duplex : 20~24lb) Thin Paper: 60g/ mi(16 lb) Bond: 105~120g/ mi(28~32 lb) Punched: 60~90g/ mi(16~24 lb) Pre-Printed : 60~90g/ mi(16~24 lb) Recycled : 90~108g/ mi(20~24 lb) Envelope : 75~90g/ mi Transparency : 138~146
MP Tray	Media Size	Letter, Legal, Oficio, Folio, A4, JIS B5, ISO B5, Executive, A5, Statement, A6, PostCard 4x6, Envelope B5, Envelope Monarch, Envelope COM-10, Envelope DL, Envelope C5, Envelope C6, Custom
	Media Size Control Guide	Min: 98.0 mm x 148 mm (3.86"x5.83") Max: 215.9 mm x 355.6 mm (8.5"x14.0")
	Media type	Plain Paper, Thin Paper, Bond, Punched, Pre-Printed, Recycled, Envelope, Transparency, Label, CardStock, Letterhead,Thick,Cotton,Colored,Archive
	Mdeia Weight	16~43 lb.
	Paper empty sensor	Yes
	Paper size detection	No

ITEM		DESCRIPTION
DADF	Model Code	Standard
	Document Weight	50~120 g/sm(12.5~28lb = 0.07mm~0.13mm)
	Capacity	50 sheets @ 75g/ _{m²}
	Document Size	Width: 174 ~ 218mm (6.9"~8.5") Length : 128 ~ 356mm (5" ~ 14.0") for Single page scan 128 ~ 400mm (5" ~ 15.7") for Multi pages scan
	Document Type	MN standard except transparencies
	Original size detection	Letter or A4, Legal, and Small Size
Others	High Capacity Feeder	N/A
	Envelope	N/A
	Finisher	SEE "Finisher"
	Stapler	SEE Stapler spec in "Finisher"

2.12 Model Comparison

	ITEM	SCX-6345N	SCX-6320F	
Max. S	peed @ Letter	45 ppm	22 ppm	
	Processor	500 MHz	120 MHz	
H/W	Memory	256 MB (max. 384MB)	32 MB	
	HDD	40 GB	Ν	
	FCOT	< 6 second	-	
Resolution	Сору	600 x 600 dpi	600 x 600 dpi	
	Print	Addr. 1200 dpi	FastRes 1200 dpi	
	Speed	up to 33.6 Kbps	up to 33.6 Kbps	
Fax	Resolution	up to 600 dpi	up to 600 dpi	
	Compression	MMR/MR/MH, JBIG, JPEG	MH/MR/MMR/JBIG/JPEG (Color/Transmission)	
Scan	Resolution	up to 600 dpi	up to 600 dpi	
Max Deau Size	Platen	Legal	Legal	
Max. Docu. Size	DADF	Legal	Legal	
Paper Handling	Max. Paper Supply	2300	1050	
l loor interfece	LCD	640 x 240	20 characters X 2 lines	
User Interface	Туре	Graphic / Touch-Screen	with Backlight	
Ir	iterface	USB 2.0, N/W	IEEE1284(ECP), USB(without HUB mode)	

2.13 PM(Preventive Maintenance) List

PM Parts

Description	Part No.	Life	Qty	Remark
Pickup Roller	JC97-02259A	200,000	3	-
Fuser Unit	JC96-03724A	200,000	1	-
Transfer Roller	JC97-02287A	100,000	1	-
DADF Rubber PAD	JC97-01846A	50,000	1	for DADF
DADF Feed Roller	JC97-02277A	200,000	1	for DADF
Bypass Rubber PAD	JC97-02260A	50,000	1	for MP Tray
Bypass Feed Roller	JC96-03533A	200,000	1	for MP Tray

Maintenance Kit

	Top Code	Parts	Part No.	Quantity	Lifetime
Maintenance Kit1	SCX-V6345A/SEE	Pick-Up Roller	JC97-02259A	3	200,000
		Fuser Unit	JC96-03724A	1	200,000
		Quick Install Guide	New	1	-
		Box,Cushion,Label Master Box (4box/1master box)	New	1	-

Maintenance Kit2	SCX-V6345B/SEE	Transfer Roller	JC97-02287A	5	100,000
		Quick Install Guide	New	1	-
		Box,Cushion,Label Master Box (4box/1master box)	New	1	-

3. System Overview

The SCX-6345 Series is a networked Multi-Function Peripheral (MFP) integrating a plain fax, a B/W laser printer, a color flatbed scanner, and a B/W copier, and a Scan-To-Email sender (5-in-1 with DADF). The Jungfrau series can be expanded to support non-scan and FAX functions such as Copy ?only or Copy and printer functions(2-in-1 with DADF). Jungfrau is developed for workgroup office customers. The main product concept is "High Speed and High Quality". This model has 45 ppm letter print-speed, 3 sec transmission-speed for fax, 33.6kbps fax-transfer rate, optical 600 dpi color scanner, and 1200 dpi printer.



3.1 System Lay-out



3.2 System Description

3.2.1 System controller architecture

Largely, SCX-6345N consists of Main Control Part, Operation Panel Part, Scanner Part, Line Interface Part, Power Part and Network Interface Card, Optional DIMM(Dual-In-Memory Module) for Scan-To-Email.

Main Controller is commonly applied in all products, Jungfrau Series, and in case of necessary a part of components or Module is selectively adopted in accordance with required feature of each model.

Each Part is designed with emphasis on Common-Use/Standardization with other models as independent module.



System Block Diagram

(note) This System Block diagram only for reference (will be updated with next version)

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3.2.2 Main Controller

The Main Control Part comprises 1 CPU and 1 B'D by adopting the dedicated Controller for Fax & LBP. The Scanner Part comprises ADF& CCD and connected with Main through Harness.



1) CPU (SPGPV3)

It uses the ARM 1020E, 32Bit RISC Processor, which is dedicated Controller for Printer & Fax function and drives the each internal Operation Block by system program of Flash Memory and thereby controlling the whole System.

- Main Function Block : Completely Integrated System for Embedded Applications,

- ▶ 32 Bit RISC Architecture, Efficient and Powerful ARM 1020E Core.
- ▶ LSU Interface Module for Interfacing PVC or HPVC with LSU
- ▶ 4 Channel General Purpose DMA Controller for High Speed I/O
- Dual Memory Bus Architecture
 - Operation Frequency : AHB Bus: 100MHz, Internal System Bus: 120MHz
 - Operation Power : 3.3V/1.3V(core)
 - POWER ON RESET TIME : 5.6ms or less

2) Flash Memory

It stores system program, Fonts data(PCL, PS/3), and can download the system program through PC Interface or Network.

It is used as Journal List for FAX and One Touch Dial & Speed Dial List..

- Capacity : 16M Byte, Access Time : 80 nsec

3) System Memory (SDRAM)

It is used as Swatch Buffer for Printing, Scan Buffer for Scanning and System Working Memory Area.

- System memory : 64 MB Capacity
- Data memory (for Fax data and Scan-To-Email, Network Scan memory); 64MB
- Max Frequency : 100 MHz
- It preserves the Fax Receive Memory by using Battery.

4) System Data Memory (SRAM)

This memory, which is for storing the operation variable & the setting parameter of SCX-6345N, keeps the information with using Backup Battery even in case of Power-off.

3.2.3 Network Interface Card (NIC) Block Diagram - Option

This device is necessary to provide users with Network Printing, Network Scanning, Scan-To-Email function and helps manage Jungfrau machine efficiently in Network environment with Embedded Web Service when installing this device. This device, which comprising Network Printer Card-related circuit is designed for providing users with easy-install through screwing with Main Control Board by 80 pin connector.





1) CPU (ARM7 based S3C2510)

This device includes IEEE802.3 MAC Core as 32Bit RISC Controller only for Network Control having ARM9 Core. It converts/uses 10MHz input clock into 33MHz System clock by using internal PLL.

The communication between Main PBA and CPU enables the high-speed/high-efficiency transmission through 33MHz PCI Bus

2) ROM (Flash Memory)

Jungfrau uses 2MB Flash Memory for operating System Program.

This Flash Memory stores software for NIC Firmware which controls entire Network Protocol and software for Embedded Web Service & Network Management.

Flash Memory Size needs to be extended or reduced in case Embedded Web Service requires like Embedded Web Pages & MIB besides Network Printing and Scan-To Email function.

This Flash Memory can be upgraded through Network by using EWS or MIB.

3) RAM

16MB SDRAM is used as System Program buffer or Network Data buffer.

4) PHY ; STE100P PHY chip

Converting Network signal into Digital signal, it supports MII and requires 10MHz clock input.

5) RJ-45

6) LEDs

Comprising 2 LEDs, it functions as displaying the Network Link status and System Operation status.

7) Clock

System clock which is needed in Network Card operation, it needs the precision of 10MHz \pm 50PPM. X-tal application

8)EEPROM

Non-volatile memory for storing Network setting parameters, it stores the various parameters like TCP/IP and Netware.

9) 80 pin Connector

This device is Connector for interfacing with Main Controller B'd ; PCI Bus, Power 3.3V

3.2.4 Option Memory (DIMM)

- SCX-6345N provides one (1) Extension Slots for extending Memory. The RAM Extension Slot can be used for:
- General Memory Extension
 128 MB Optional Memory is available.
- System standard 256M: Buffer for printing, scan and system working memory area. Primarily used for system memory(240MB) and FAX Data storage(16MB).
- DIMM : available 128MB (System memory : Max 384MB)



* Note: This machine comes with 128 MB of on-board memory and a 128 MB DIMM. To expand the memory of your machine, you must remove the existing DIMM and purchase a larger one.

3.2.5 SDRAM

- Memory Size
- SDRAM: 240MB for Data and 16MB for FAX
- DIMM: STD 128MB, MAX. 256MB for Data
- Used as buffer and system
 working memory area in printing, copying, scanning, and facsimileing.
- External voltage from the battery is used to store the received fax data when the main power is off for 72Hrs. (self-refresh)



3.2.6 DADF Board

Duplex Automatic Document Feeder

Descriptions

A DADF board controls 2 stepping motors, 2 clutches, 8 sensors By using CPU(S3F443FX) having 80MHz Core Frequency. A DADF board supports customer to copy Max 50 sheets of documents automatically. In this reason, SCX-6345N series has a DADF module in standard option.

- · MPU: S3F443FX (Refer to the next page)
- · Motor Drive Block
- Unipolar Motor Driver IC(SLA7066M): Most rollers are controlled by a SLA7066M motor drive.
- Bipolar Motor Driver IC(A3977): For Exit motor
- · Clock Generator(CY25814): SSCG converts crystal 12Mhz to 48MHz clock for MPU main clock.



3.2.7 OPE Board

- 640x240 Graphic LCD
- CPU(S3C44B0): ARM7 Based 32bit RISC Processor.
- Flash ROM(16MB): OP Operating program F/W
- SDRAM(32MB): System Program and Data Buffer
- CCFL Inverter: 24V input -> 400Vrms output to power LCD Back Light



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3.2.8 SMPS PBA

Descriptions

It supplies electric power to a Main Board and other boards through a Main Controller by +5V,+24V from 110V/220V power input. It has safety protection modes for over current and load.

SPECIFICATION

- · General Input/Output Voltage
- 1) AC 110V (90V ~ 135V)
- 2) AC 220V (180V ~ 270V)
- 3) Input Current: 3.2 [Arms]
- 4) Output Power: 192W / Max. 270W DC 5V: 24W ~ 30W (0.6A ~ 6.0A) DC 24V: 168W ~ 240W (0A ~ 10A)


3.2.9 IH PBA

IH (Induction Heating)

Descriptions

Induction heating is a method of providing fast, consistent heat for fuser heat roller. The IH inverter has improved Heating Efficiency up to 35-40% over e-Coil System.

SPECIFICATION

- · General Input / Output Voltage
- 1) AC 110V (90V ~ 135V)
- 2) AC 220V (180V ~ 270V)
- 3) Input Current: 14 [Arms]
- 4) Output Power: 1300 [W]
- (1300[W] / 90V ~ 135V = 9A ~ 12A) (1300[W] / 180V ~ 270V = 4.5A ~ 7A)



3.2.10 HVPS PBA

HVPS (High Voltage Power Supply)

Descriptions

HVPS Part outputs the high voltage for THV(+),(-)/MHV/DEV/DTS/FU-BIAS by DC 24V input and the output high voltage is provided into OPC Cartridge and Transfer Roller. It helps transfer toner to media well.

SPECIFICATION

General Input Voltage
1) DC 5V (4.75 ~ 5.25V)
2) DC 24V(21.6V ~27.6V)

General Output Voltage
1) MHV: -1200V ±3%
2) Fu-Bias: 80V ±5%
3) DEV: -500V ±3%
4) THV(+): 1800V ±3%
5) THV(-): -1100V ±20%
6) DTS: -1800V ±3%



3.2.11 SCF PBA

Descriptions

A SCF PBA is a option cassette controlling in SCX-6345N. Max. 3 cassettes are connected on a purpose of feeding paper. It consists one controller(S3F443FX) and two motor drive IC to control feeding timing through Uart communication with a Main controller.

No.	Signal Name	Direction	Active Level	Description	Remar ks
1	24V	POWER	-	+24V Power	
2	3.3V	POWER	-	+3.3V Power	
3	GND	POWER	-	Signal Ground	
4	TxD	OUT	-	Data Transmission	
5	RxD	IN	-	Data Receive	
6	nBUSY	OUT	LOW	SCF TxD Line Busy	
7	nCMDREQ	OUT	LOW	Command Request	
8	Reserved1	I/O	LOW	Reserved	
9	Reserved2	I/O	LOW	Reserved	



3.2.12 Finisher PBA

Descriptions

A Finisher PBA is a Finisher controlling in SCX-6345N for option. It also consists one controller(S3F443FX), two motor drive IC and LPEC1 for expandable I/O IC to control a finisher through Uart communication with a Main controller.





3.3 Engine Section

It is used as recording device when copying/printing or Fax receiving and designed as detachable unit type with system. It adopts Electro-photography system with using LSU when recording, and uses non-magnetic 1 component developing system.

It consists of Frame unit, Feed unit, Transfer unit, Driving unit, Imaging, Cartridge, Fuser unit and High pressure member.

3.3.1 Engine Hardware Configurations

1) Main PBA

It comprises integrated single unit with Engine Board and Controller Board.

It manages Electro-photography system, which sends the Video Data of current image from Main Board to LSU and conducts printing.

And also it consists of Motor (paper transmission & exit)Driving, Pre-transfer Lamp Driving, Current Driving, Fan Driving Circuit.

The detection signal of Paper Feed Jam Sensor and Paper Empty Sensor is directly input into Main Board.

2) HVPS(High Voltage Power Supply)

HVPS Part outputs the generated high voltage for THV/MHV/BIAS/DETACH/FUSER BIAS by inputting 24V, and the output high voltage is provided into OPC Cartridge and Transfer Roller.

3) SMPS(Switching Mode Power Supply)

SMPS supplies DC voltage to System.

It supplies electric power to Main Board/ADF Board1 by outputting +5V,+24V after 110V/220Vpower input.

4) CRU (Customer Replacement Unit)

It is consisted of Drum Cartridge and Toner Cartridge.

5) LSU (Laser Scanning Unit)

It scans high-convergency Laser Beam into rotating Polygon Mirror, and linearly scans through f- θ Lens with constant speed. Then it forms the latent image by exposing the image data into OPC Drum.

6) Transfer Unit

TRANSFER Roller bears and carries the toner of OPC Drum into recording medium.

7) Fuser

Consisted of IH Heater, Heat Roller, Pressurizing Roller, Thermistor and Thermostat, it fixes toner into recording medium.

3.4 Communication Specifications

This section defines the electrical specifications for the SCX-6345N phone line interface. Please refer to the FAX Behavior Specifications for user interface implementation.

1) Modem Section

- ► LINE CONNECTION: PSTN or PABX (RJ-11) ITU COMPATIBILITY: Group 3/ECM
- ► MODEM

· Speed - Standard	33,600 BPS
· Error Correction Method	ITU T.30
· Automatic Train down	Yes
· ITU Compliance	V.34
· Forced 9600 BPS	No

► COMMUNICATIONS · Initial Setting: -12dBm

2) Line Interface Section

SCX-6345N Line Interface will be accomplished with DAA technology. This new technology will enable one single interface option that satisfies communication requirements for all OpCo's

- · Modular Plug: RJ-11C
- Out Band Signal Level : Guaranteed North American and Europe PTT standard
- DP Dial Mode (direct current 30mA) : 50~300 Ω
- DTMF Dial Mode (direct current 20mA) : 50~540 Ω

This is a usual connection in U.S.A. and normally middle 2 wires (pin no. 3 and 4 of modular jack/plug) are used for Tip and Ring.

4 wires connection is also used in the field.

There is no special mechanical structure or switch in a wall jack.

The 1'st wall jack, the 1'st device/phone plugged, is just connected in parallel with another wall jack, the 2'nd phone coupled in another room.

When users pick up each handset at the same time, they can hear what they are saying each other.

An user normally use a telephone or TAD device connected into Ext. Jack of the fax machine.

This is another normal connection in certain countries like Germany, Italy, France, Sweden, etc. and 4 wires are used. They call them wire a for Tip, wire b for Ring and wire a", wire b" to pass the line path to the next priority phone. There is a special mechanical structure or switch in a wall jack. A 2 wall jack , the 2'nd device/phone plugged, is always connected in serial behind the 1'st wall jack. When an user pick up the handset of 1'st device, the 2'nd Device and 3'rd phone is disconnected simultaneously. In the countries they do not connect an external telephone or TAD into Ext. Jack of the fax machine. The 1'st Device has to have 4 wires of a, b, a", b" connection.

The circuit below is the line connection section of Jungfrau fax module for worldwide



Factory Default of Parallel Connection

(A Dummy Jack will be inserted into the Ext RJ11.)



How to use in the field

(Users can use fax just by connecting line cord into Line RJ11.)



If an user want to use a 2' nd phone, he/she has to remove the dummy jack and connect the phone.



Pictures



How to use for the Countries of Serial Connection (Factory Default)

- 1) A Dummy Jack will be inserted into the Ext RJ11.
- 2) Additional information sheet and a terminator will be supplied.







How to use in the field

(Users have to replace the dummy jack by the terminator and connect line can into Line RJ11.)





Note) The terminator has inner connection to path the line to the 2' nd phone The dummy jack has no inner connection and it just for block Ext RJ11.

3) Dialing Characteristics

- Dial Pulse: Tech Mode Option Feature
- · Make / Brake Ratio: 40msec/60msec or 33msec/66msec
- \cdot Pulse Speed: 10 \pm 1 PPS
- Minimum Pause: above 30msec

3.5 Scanning Section

1) Color Separation : Single-Pass color separation

Color separation is done with transmissive color filters put over the CCD elements themselves as part of CCD manufacturing process. The CCD used in Jungfrau has three rows of imaging elements. Each row has a color filter directly over the CCD elements, one row red, one green, and one blue.

2) Optical System: Lens Reduction type All-In-One (Scanning Lamp + Lens + CCD Image sensor).

- 3) Light Source:Cold Cathode Fluorescent
- 4) Scanning method:
 - Platen : Optical Moving
 - DADF : Document Moving
- 5) Scanning Area
- 1) Maximum Document Width : 216mm
- 2) Effective Scanning Width : 208mm
- 6) Source Document Specification (DADF)
- DADF capacity: 50 sheets of 20lbs /80gsm paper
- Features

Document Size Sensing	Yes	Extendible tray for long documents	Yes
Adjustable Paper Guide	Yes	DADF Ready Indicator	None
Labels w/graphics	None	Book copying with DADF open	Yes
Wear out items (rolls) easily replaceable w/o tools	No	Wear out items (rolls) should be serviced.	DADF Pad & Feed Roller

3.6 Paper Feeding

- JAM: Additional work is required to correct problems in feeding/outlet.
- Improper Feeding: Meandering, Improper initial print location, Folded corners, double feeding, Miss feeding, etc.
 To enhance paper feeding reliability, paper should be fed so that printing may begin on the better side when printing on both sides. The better side is defined as the manufacturer specified side or "watermarked" side.
- Shut Down: Machine stops functioning in the middle of a job (any mode). Fault code is displayed on the message display (LCD). Customer must take action to complete the job.
 - · Paper jam
 - · Miss-feed
- Non-Shutdown:

Machine does not stop during are job (any mode), however, there is a paper feeding quality problem with the output of the job.

- · Folded corner on output (Dog ears)
- \cdot Multiple sheets feed through without separation
- Power-Off / Power On:

During a job, there is a problem with the machine that requires Power Off to recover back to operational mode.

- · Machine is "locked-up" and not responding to control panel
- · Machine is continually printing blank pages.
- \cdot Control panel is blank and not responding.

3.7 Toner Cartridge Specification

Toner CRU will have a CRUM to differentiate Samsung and SEC versions as well as detect CRU presence.

CRUM : Yes (Type IV RFID in Toner/OPC Cartridge)

Life(Service) Time:

The service life of a cartridge is based on an estimates printings with ISO 19752 Std. coverage on one A4 or Letter page at the default density setting performed on the machine. Here is an estimate of the service life of the toner cartridge based on B5 criteria.

- ▶ (Starter) : 20K Pages, A4 or Letter page, ISO 19752 Standard.
- ▶ (Sailes) : 20K Pages, A4 or Letter page, ISO 19752 Standard.

4. Alignment and Adjustments

This chapter describes some of the main service procedures including: Using the Tech Mode; Clearing paper jam and test patterns. Much of this chapter is also included in the user's guide.

4.1 Paper path



4.2 Clearing Paper Jams

If a paper jam occurs an error message appears in the LCD display.

Find and remove the jammed paper.

If you don't see the paper, open the covers.

Do not use a tweezers, pincers or other metal tools when clearing a paper jam.

This could damage the internal mechanism causing print quality problems or possibly electrical shock.

[Engine Jam Type]

Туре	Case	Jam Removal	Jam Layout	Photo
Jam 0	Leading edge of media does not arrive at registration within a certain time after pick-Up(If fails at a time, it tries pick-up again)	 Pull out cassette Remove jammed paper 	Registration Regi Sensor Pick-Up	Lite C
Jam 1	Leading edge of media does not arrive at Exit Sensor within a certain time after registration	 Open side cover Remove jammed paper 	Exit Sensor Fuser OPC Registration Registration	
Jam 2	Trailing edge of media does not leave Exit Sensor within a certain time after touching Regi Sensor	 Open side cover Remove jammed paper Or Remove jammed paper from exit 	Exit Sensor Fuser	
Duplex Jam 1	Trailing edge of media leaves Exit Sensor, and does not arrive at Duplex Jam1 Sensor	 Open side cover Remove jammed paper Or Remove jammed paper from exit 	Duplex Jam1 Sensor Fuser	
Duplex Jam 2	Leading edge of media does not arrive at Duplex Jam2 Sensor after touching Duplex Jam1 Sensor	 Open Side Cover Remove jammed paper 	Duplex Jam Sensor	FILLER
Duplex Jam 0	Leading edge of media does not arrive at Registration after touching Duplex Jam2 Sensor	 Open Side Cover Remove jammed paper 	Registration Duplex Jam2 Sensor	

4.2.1 Clearing Document Jams

When an original jams while passing through the DADF, [Document Jam] appears on the display.

- 1. Remove any remaining pages from the DADF.
- 2. Open the DADF cover.



3. Pull the jammed paper gently out of the DADF.



4.2.1.1 Exit Misfeed

- 1. Remove the remaining documents from the DADF.
- 2. Open the document input tray upward and pull the document gently out of the DADF.



3. Close the document input tray. Then place the documents back into the DADF.

4-3

4.2.1.2 Roller misfeed

- 1. Open the scanner lid.
- 2. Seize the misfed paper, and remove the paper from the feed area by carefully pulling it to the right using both hands.



3. Close the scanner lid. Then load the removed pages back into the DADF.

4.2.2 Clearing paper jams

When a paper jam occurs, Paper Jam appears on the display. Refer to the table below to locate and clear the paper jam.

Message	Location of jam
[Paper Jam 0] Open/Close Door	In the paper feed area (tray 1, optional tray 2, or multi-purpose tray)
[Paper Jam 1] Open/Close Door	In the fuser area or around the toner cartridge
[Paper Jam 2] Check Inside	In the paper exit area page
Duplex Jam Open/Close Door	In the duplex unit page

4.2.2.1 In the tray 1

1. Pull out the paper Tray to open. After you pull it out completely, lift the front part of the Tray slightly up to release the Tray from the machine.



2. Remove the jammed paper by gently pulling it straight out.



Once you remove the jammed paper here, open the side cover and then close it to clear the "Paper Jam0" message on the display.

If there is any resistance, and the paper does not move immediately when you pull, stop pulling. Then: 3. Open the side cover.



4. Carefully remove the misfed paper in the direction shown.



5. Close the cover and insert the paper Tray. Lower the rear part of the Tray to align the rear edge with the corresponding slot of the machine, then insert it completely.



4.2.2.2 In the optional tray 2

- 1. Pull the optional tray 2 open.
- 2. Pull the paper Tray to open. After you pull it out completely, lift the front part of the Tray slightly up to release the Tray from the machine.



If the paper does not move when you pull, or if you do not see the paper in this area, stop and go to step 3.

- 3. Pull the tray 1 half.
- 4. Remove the paper in the direction shown. To avoid the paper torn, pull it out gently and slowly.



If you cannot find the jammed paper, or if there is any resistance removing the paper, stop pulling and continue to step 5.

5. Open the outer jam cover in tray2.



6. Open the inner cover of tray2.



7. Pull the jammed paper out in the direction shown. To avoid tearing the paper, pull it out gently and slowly.



8. Close the two jam covers.



4.2.2.3 In the multi-purpose tray

1. If the paper is not feeding properly, pull the paper out of the machine.



2. Open and close the front cover to resume printing.



4.2.2.4 In the paper exit area

- 1. Open the side cover.
- 2. Open the front cover.



3. Gently pull the paper out through the exit area.



4. Close the front cover ① and the side cover ②. Printing automatically resumes.



4.2.2.5 In the duplex unit area

If the duplex unit is not inserted correctly, paper jam may occur. Make sure that the duplex unit is inserted correctly.

- 1. Open the side cover.
- 2. Pull the guide exit.



3. Remove the jammed paper.



4. Close the side cover.

4.2.2.6 In the stacker

1. Open the stacker cover.



2. Push the stacker lever down.



3. Remove the jammed paper.



4. Pull up on the stacker lever and then close the stacker cover.



4.3 Abnormal Image Printing and Defective Roller

If a mark or other printing defect occurs at regular intervals down the page it may be caused by a damaged or contaminated roller. Measure the repetition interval and refer to the table below to identify the roller concerned.



No	Roller	Abnormal image period	Kind of abnormal image
1	OPC Drum	94.30mm	White spot, Block spot
2	Charge Roller	43.96mm	Black spot
3	Develop Roller	39.25mm	Horizontal density band
4	Transfer Roller	57.14mm	Black side contamination/transfer fault
5	Heat Roller	125.6mm	Black spot and fuser ghost
6	Pressure Roller	157mm	Black side contamination

4.4 User Mode

The conrol panel provides access to various menus to seup the machine or use the machine's funcions. These menus can be accessed by pressing Menu. Refer to the following diagram. Menus available in Fax, Copy, or Scan mode vary.

1Depti	2Depth	3Depth	4Depth	5Depth	6Deptl
Device Info	e Info Service Center Registration	Phone Number			
		E-mail Address			
	Contact Info	Using Place			
		Phone Number			
Date & Time	Set Date & Time	Year,Month,Day,			
	Deta Compet	Hour,Date			
	Date Format				
		DD/MM/YY			
	Time Format	*12 Hour			
		24 Hour			
Default Setting	5 Default Option	Сору	Output	Collated	
				Staple.Portrait	
				Staple,Landscape	
			Reduce/Enlarge	Original(100%)	
				Custom	
				Auto Fit	
				LGL->LTR(78%)	
				LGL > A4(83%) A4 - > A5(71%)	
				A4->LTR(94%)	
				A5->A4(141%)	
				EXE->LTR(104%)	
				25%	
				150%	
				200%	
				400%	
			Duplex	1 -> 1 Sided	
				1 -> 2 Sided	
				Rotate Side 2	
				2 -> 1 Sided	
				2 -> 2 Sided	
				2 -> 1 Sided, Rotato Sido 2	
			Paper Supply	Auto	
			Paper Supply	MP Trav	
				Tray1	
				Tray2	
				Tray3	
			Original Type	Toxt	
				Text/Photo	
				Photo	
			Darkness	Light Dark	
			Frees Dr. damand	< >	
			Erase Background	On	
			Erase Edge	Off	
				Border Erase	
				Small Original	
				Hole Punch Erase	
		Fax	Resolution	Standard	
				Fine	
				Super Fine	
				Text	
			onginar Type	Text/Photo	
				Photo	
			Darkness	Light Dark	
			Color Mode	Color	
			Erase Background	Off	1

Main	1Depth	2Depth	3Depth	4Depth	5Depth	6Depth
General	Default Settings	Default Option	Email	Resolution	100 dpi	
	s chant s change	- class option			200 dpi	
					300 dpi	
					400 dpi	
					600 dpi	
				Darkness	Light Dark	
					< >	
				Original Type	Text	
				original type	Text/Photo	
					Photo	
				Color Modo	Color	
					Grev	
					Mono	
				Erase Background	Off	
				Coop to Edge	On	
				Scall to Euge	On	
				Quality	Best	
					Normal	
				Cile Connet	Draft	
				File Format	PDF Multi-Page TIFE	
					Single-Page TIFF	
					JPEG	
					100.1.1	
			Scan to Server	Resolution	100 dpi 200 dpi	
					200 dpi 300 dpi	
					400 dpi	
					600 dpi	
				Darkness	Light Dark	
					< >	
				Original Type	Text Text (Dhate	
					Photo	
					111000	
				Color Mode	Color	
					Grey Mono	
				Erase Background	Off	
					On	
				Scan to Edge	Off	
				Ouality	Best	
				l · ···/	Normal	
					Draft	
				File Format	PDF Multi-Dago TIEE	
					Single-Page TIFF	
					JPEG	
				Filing Method	Overwrite	
					Change Name	
			Paper Size	A4		
				Letter		
	Measurements	Unit	*Inches			
			mm			
		Numeric Separations	*Comma (12,345)			
			Period (12,345)			
	Timers	System Timeout	On (1~10 min) *5	System Time out		
				[01-10]min		
			Off	> " # <		
	Languege	*English				
	Languege	LIIGIISII				

Main	1Depth	2Depth	3Depth	4Depth	5Depth	6Depth
	Energy Saver	Scan Power Save	30min			
			60min 120min			
		Power Save	5min			
			15min 30min			
			45min			
			60min 120min			
		Low Power Save	5min			
			15min			
			30min 45min			
			60min			
C	T	T	120min	1		
General	Tray Management	таут	Paper Size	Letter		
				Folio		
				A4		
				Executive		
				A5		
				A6 Oficio		
				Envelop Monarch		
				Envelope COM-10		
				Envelope DL		
				Envelope C6		
				ISO B5		
				Post Card 4x6		
				Custom		
			Paper Type	Plain		
				Letternead Thick		
				Thin		
				Cotton		
				Colored Pre-Printed		
				Recycled		
				Envelope		
				Transparency Label		
				Cardstock		
				Bond		
				Archive		
			Tray Confirmation Message	Off		
				On		
		Tray2	Paper Size	same as above		
			Paper Type	same as above		
			Tray Confirmation Message	same as above		
		Tray3	Paper Size	same as above		
			raper Type	same as above		
		Trav4	Paner Size	same as above		
		Mn Tray	Paner Size	same as above		
		inp inuy	Paper Type	same as above		
			Tray Confirmation Massa	On/Off		
		Auto Tray Switch				
			Ön			
		Auto Continue	Off On			
	Altitude	Normal				
	Adjustment	High 1				
		High 3				
	Output Option	Out of Staples Options	Complete job without stapling			
			Fault/Held Job			
		Within Job Offsetting	Off			
			On			

Main	1Denth	2Denth	3Denth	4Denth	5Denth	6Denth
Conorol	Sound	Eault	Off	черт		- obeptir
General	Sound	rauit	<u>Оп</u>			
			Madian			
			High			
			Test			
		Conflict	Off			
			*Low			
			Modium			
			High			
			Test			
		Selection	Off			
			*Low			
			Medium			
			High			
			Test			
	Supplies Management	Drum Cartridge Reorder Notification	Drum Reorder at Life Remaining	1%, 5%, 10%, 15%		
		Toner Cartridge	Toner	1%, 5%, 10%, 15%		
		Reorder Notification	Reorder at Life Remaining			
		Fuser Counter Reset	Pop up window Yes/No			
		Bias Transfer Roller	Pop up window			
		Counter Reset	Yes/No			
		Feed Koller Counter Reset	Trav2			
			Trav3			
		1	Tray4			
			Bypass			
			Document Feeder Roller			
		Doc. Feeder Friction Pad	Pop up window			
	Machine Test	Image Quality Test Pattens	Image Quality Test Pattens	1-8		
			Pattern Print Tray Source	Trav1 ~ Trav4		
			Number of Pattern Prints	1~999		
			2 Sided	1Sided / 2Sided		
	Ignore Toner	On/Off				
_	Empty Status					
Setup	Copy Setup	Page Number	Off			
		Time & Date	Off			
			On			
		ID Stamp	Off			
			On			
	Fax Setup	Terminal ID	ID Name Fax Number			
		Remote Code	On/Off			
		Error Correction Mode	On/Off			
		Fax Initial Setup	Receive Mode	Telephone		
				*Fax		
				Answering Machine/Fax		
			Dial Type	*DP		
				MF		
		Auto Answer Delay	1-7 Rings			
		Secure Receive	On/Off		1	
		Received Fax Printing	Bx Reduction Printing	Off	Discard Size	
				I	(0-30 mm)	
				*On	, ,	
		Redial	Redial Time Interval	[1-15] *3	1	
		1	Redial Attempts	[0-13] 7	1	
		Speaker Volume	Off			
		(Audio Line Monitor)	Comm.			
			*On			
		Prefix Dial	Off / On	Prefix Dial (Max 5 digits)		
		Junk Fax Number List	Select from list			
		Ring Volume	Off			
			*Low			
			Medium			
			High			
		Dial Tone Volume	1-/			
		Output Option	Duplex	Off		
		1		Long Lage Un Short Fece		
		1	Stapled	Off		
				On		
		Output Tray	MP Tray	On/Off		
		1	Tray1	On/Off		
			Tray2	On/Off		
		1	Tray3	Un/Off		
	1	1	Liidy4		1	

Main	1Depth	2Depth	3Depth	4Depth	5Depth	6Depth
		Mailbox Setup	Document Policy	Delete on Poll	On/Off	
			Mailbox	Delete on Print	On/Off Mailbox ID	20 string
			Configuration		Mailbox Name	20 string 20 string
					Mailbox Passcode	20 string
					Notification	Off
				Delete Mailhay		On
Setun	Network Setup	TCP/IP Protocol	IP Setting			
occup	network betup		IT Setting	BOOTP		
				Static	IP address Subpet mask	
					Gateway	
			DNS Configuration	Domain Name		
				Preferred DNS Server	xxx.xxx.xxx.xxx	
				Altenate DNS Server #1	****	
				Altenate DNS Server #2	xxx,xxx,xxx,xxx	
				Dynamic DNS	Enable	
					Disable	
			HTTP Protocol	Enable		
		Netware Setting	Protocol	On		
		5		*Off		
			Print Server	Print Server Name		
			Erame Type	*[Auto]		
			Traine Type	[EN_802.3]		
				[EN_802.2]		
				[EN_ II]		
			Primary File Servers Rates	Primary File Server	1-240 seconds	
				*SAP	*Enable	
			NDS Sotting	Namo Contoxt	Disable	
			ND3 Setting	Directory Service Tree		
		AppleTalk Protocol	On			
	Authentication	Authentication Mode	Network Accounting			
			Foreign Devie Interface			
			No Authentication Mode			
		Foreign Device Interface Configuration	Job Timer	Enable / Disable		
			Print Job Control	Enable/Disable		
			Infibit Services	Enable / Disable		
			Image Counter	Charge / No Charge		
		Change Admin. Password	Old Password			
			New Password Confirm Password			
	Optional Service	N/W Scan	Enable/Disable			
		Analog Fax	Enable/Disable			
	Remote Service	Remote Service	On/*Off			
		Criteria Value	$Pages(1 \sim 9999)$			
		Service Number	Service Numer 1			
			Service Numer 2			
			Service Numer 3			
			Service Numer 5			
Print /	Print	Network				
керогі		PS3 Font List				
		PCL Font List				
		Schedule Jobs Report				
	Accounting	Supplies				
	Reports	Information	-		1	
		Log Report				
		Counter				
		Usage Page Report	1		1	
	Report	Configuration Report	*Print at Power On			
			Do not print at Power On			
			Print Now	the state		
		Fax Report	Multi Send Report	*0ff		
				On-Error		
			Fax Send Report	Reduced		
			Appearance	*No Image		
		1		1	ļ	ļ

4.4.1 Machine overview

These are the main components of your machine:

4.4.1.1 Front view



* The figure above shows an SCX-6345N with all available accessories.

1	DADF (Duplex Automatic Document Feeder)		optional tray 2
2	document width guides	13	optional tray 3
3	document input tray	14	optional tray 4
4	document output tray	15	optional tray stand
5	scanner lid	16	output support
6	control panel	17	multi-purpose tray extension
7	side cover	18	multi-purpose tray paper width guides
8	multi-purpose tray	19	scanner glass
9	front cover	20	toner cartridge
10	optional tray jam cover	21	drum cartridge
11	tray 1		

4.4.1.2 Rear view



The figure above shows an SCX-6345N with all available accessories.

1	optional stacker & stapler	6	network port
2	optional stacker output tray	7	optional stacker connection
3	extension telephone socket (EXT)	8	power switch
4	telephone line socket (LINE)	9	power receptacle
5	USB port		

4.4.1.3 Control panel overview



1	 Machine Setup: Sets the value of machine setup. Job Status: Enters job status menu which shows the current running jobs, waiting jobs or completed 		Redial/Pause: In Standby mode, redials the last number, or in Edit mode, inserts a pause into a fax number.	
2				
	jobs.	9	On Hook Dial: Engages the telephone line.	
3	Screen brightness dial: adjusts the brightness of the touch screen.		Power Saver: Enters the machine into the power save mode.	
4	Status: Shows the status of your machine.		Interrupt: Stops a progressing job for urgent copy	
5	Screen: Displays the current machine status,		job.	
	prompts during an operation, and user can set manus since it is the touch screen.	12	Clear All: Sets the machine with default values.	
		13	Stop: Stops an operation at any time. The pop up	
6	number keypad: dials fax number, enters the number of copied document or option values.		window appears on the screen showing the current job that user can stop or resume.	
7	Clear: Deletes character of string in the editing area of screen.	14	Start: Starts a job.	

4.4.1.4 Machine Setup button

With this button, you can browse current machine settings and set machine values.



- · Machine Status: shows the current status of the machine.
- · Admin Setting: allows an administrator to set up the machine.

4.4.1.5 Job Status button

When user presses Job Status button, LCD shows the currently running, queued jobs and completed jobs.

?) Current Job	Completed Ja	b Active Notic	e		
No.	Job Name	Status	User	Job Type	
					$\mathbf{\sim}$
1/1			Detail	Jelete Cla	ise

- · Current Job tab: shows the list of jobs in progress and pending.
- · Completed Job tab: provides the list of completed jobs.
- Error List tab: shows the list of errors that occurred in the machine.
- · No.: gives the order of jobs. The job in No. 001 is currently in progress.
- · Job Name: shows job information like name and type.
- · Status: gives the current status of each job.
- · User: provides user name, mainly computer name.
- · Job Type: displays details of the active job, such as job type, recipient phone number and other information.
- · Delete: removes the selected job from the list.
- · Close: closes the job status window and switches to previous view.

4.4.1.6 Status

Status	Description
Off	 The machine is off-line. The machine is in Power Save mode. When data is received, or any button is pressed, it switches to on-line automatically.

Status" LED		Description
Green	On	The machine is on-line and can be used.
	Blinking	When the backlight slowly blinks, the machine is receiving data from the computer.
		\cdot When the backlight blinks rapidly, the machine is printing data.
Red	On	The toner cartridge is totally Out of lifespan. Remove the old toner cartridge and install a new one.
		 The drum cartridge is totally empty. Remove the old drum cartridge and install a new one. A paper jam has occurred. The front cover is open. Close the cover. The machine has stopped due to a major error. Check the display message.
	Blinking	 A minor error has occured and the machine is waiting the error to be cleared. Check the display message. When the problem is cleared, the machine resumes.
		The toner cartridge is low. Order a new toner cartridge. You can temporarily improve print quality by redistributing the toner.

4.4.1.7 Touch Screen

The touch screen allows for user-friendly operation of the machine.

Once you press the home icon (Image) on the screen, it shows the Main screen.



- 🔃 Shows Help. You can find the explanation by feature contents.
- · Copy: Enters the Copy menu.
- Fax: Enters the Fax menu. (Optional)
- · Scan: Enters Scan to Email, NetScan, Scan to Server menu. (Optional)
- \cdot Stored Documents: Enters the Stored Documents menu.
- · Logout: Logs out from the currently logged in account.

4.4.1.8 Power Saver button

When the machine is not in use, save electricity with the provided power save mode. Puts the machine into power save mode.

Status		Description
Off		The machine is not in power save mode.
Green	On	The machine is in power save mode.

4.4.1.9 Interrupt button

When you press this button, the machine goes into interrupt mode which means it stops a printing job for urgent machine use.

Status		Description
Off		The machine is not in interrupt printing mode.
Green	On	The machine is in interrupt printing mode.

Note: Interrupt mode is resumed at default value (Off) after the machine is shut down or reset.
4.4.2 Machine's basic settings

After setting up the machine, you may need to set the machine's basic features. Check the next explanation if you would like to set or change values.

4.4.2.1 Setting log in password

To set your machine up or change the settings, you have to login. To change passwords, follow the next steps.

- 1. Press Machine Setup on the control panel.
- 2. Press Admin Setting.
- 3. Login message appears, enter password (Factory setting: 1111) with number keypad and press OK.
- 4. Press Setup tab > Authentication.
- 5. Press Change Admin Setting Password.

Admin Setting		
General	Setup Print/Report	
Copy Setup >		
Fax Setup >	Old Password	
Network Setup \rightarrow	New Password 🗄	
Authentication	Confirm Password :	
Optional Service>		
	OK	Cancel

- 6. Enter old password and new password.
- 7. Press OK.

4.4.2.2 Setting the date and time

The current date and time are shown on the display when your machine is on and ready to work.

- 1. Press Machine Setup on the control panel.
- 2. Press Admin Setting.
- 3. Login message appears, enter password with number keypad and press OK.
- 4. Press General tab > Data/Time > Set Date/Time.
- 5. Select date and time using left/right arrows.
- Note: To change the format of date and time, press Date Format and Time Format.
- 6. Press OK.

4.4.2.3 Changing the display language

To change the language that appears on the touch screen, follow these steps.

- 1. Press Machine Setup button in the control panel.
- 2. Press Admin Setting.
- 3. Login message appears, enter password with number keypad and press OK.
- 4. Press General tab.
- 5. Press down arrow to switch the screen, press Language.
- 6. Select language.
- 7. Press OK.

4.4.2.4 Setting job timeout

When there is no input, the machine waits for a specific time. You can set the amount of time the machine will wait.

- 1. Press Machine Setup on the control panel.
- 2. Press Admin Setting.
- 3. Login message appears, enter password with number keypad and press OK.
- 4. Press General tab.
- 5. Press Timers.
- 6. Select System Timeout.
- 7. Select On.
- 8. Select time using left/right arrows.
- 9. Press OK.

4.4.2.5 Setting the tray and paper

You can select the tray and paper you use for printing job.

- 1. Press Machine Setup on the control panel.
- 2. Press Admin Setting.
- 3. Login message appears, enter password with number keypad and press OK.
- 4. Press General tab.
- 5. Press down arrow to switch the screen, press Tray Management.
- 6. Select tray and its options such as paper size, type, and Tray Confirmation Message.
- 7. Press OK.

4.4.2.6 Using energy saving feature

The machine provides energy saving features.

- · Scan Power Save: reduces machine's power consumption when it is not in actual use.
- Power Save: saves power by turning off the scan lamp. The scan lamp under the scanner glass automatically turns off when it is not in use to reduce power consumption and extend the life of the lamp.
- 1. Press Machine Setup on the control panel.
- 2. Press Admin Setting.
- 3. Login message appears, enter password with number keypad and press OK.
- 4. Press General tab.
- 5. Press down arrow to switch the screen, press Energy Saver.
- 6. Select appropriate option and time.

2 Admin Setting				
General	Setup	Print/Report		4
Language >	Scan Power			
Energy Saver	Save			
Tray Management	Power Save			
Altitude Adjustment	Low Power			
Output Options \rightarrow	Save			
			C	Back

7. Press OK.

4.4.2.7 Changing the default settings

You can set the default values for copy, fax, email, scan and paper all at once.

- 1. Press Machine Setup on the control panel.
- 2. Press Admin Setting.
- 3. Login message appears, enter password with number keypad and press OK.
- 4. Press General tab > Default Settings > Default Option.
- 5. Press the function you want to change, and change its settings.

Admin Setting				
General	Setup	Print/Report		₫
Device Info \rightarrow	Default	Copy	Scan to Server	
Date & Time >	Option			
Default Settings		Fax	Paper Size	
Measurements >		Email		
Timers >				
			Ba	ick

For example, if you want to change the default setting of the brightness & darkness for a copy job, press Copy > Darkness and adjust the brightness & darkness.

6. Press OK.

4.4.2.8 Understanding the keyboard

You can enter alphabet characters, numbers, or special symbols using the keyboard on the touch screen. This keyboard is specially arranged like a normal keyboard for better usability for the user.

Touch the input area where you need to enter characters and the keyboard pops up on the screen. The keyboard below is the default showing the lowercase letters.



1	Left/Right: moves the cursor between characters	8	Space: enters a blank between characters.
	in the input area.	9	Top domai n: chooses top level domains
2	Backspace: deletes the character on the right side of the cursor.		like .com, .net, .org, etc. By pressing arrow key, you can select different domains.
3	Delete: deletes the character on the left side of the cursor.		You can set the 5 different top level domains in Admin settings.
4	Clear: deletes all characters in the input area.	10	OK: saves and closes input result.
5	Input area: enter letters within this line.	11	Cancel: cancels and closes input result.
6	Shift: converts lowercase keys to uppercase keys.		
7	Symbol: switches from the alphanumeric keyboard to the symbol keyboard.		

Note: If you enter the email address, then the keyboard for email pops up. After you enter the address, press OK to activate entered address. Press the arrow key on the side for rotating between From, To, CC, Bcc, Subject, Message in order.

4.5 Service Mode

4.5.1 Introduction

This document will capture the behavior specifications for the GUI Windows for Diagnostics

Each section of this document describes one feature with a step window image and script. However, used window image is not fixed image from the specification point of view. Acquire detail information from script. Window image is just example image will be implemented.

This is intended to aid GUI designers, reviewers & also testers.

Associated Documents:

<The documents that are associated with this should be mentioned here. For example in case of Basic Copy, the following could be the associated documents>

4.5.2 Entry Point

The entry for Diagnostics is the combination of hard key. User should press "xxx" and "yyy" altogether.

After pressing the hard button for entry, OP displays Login window.

Login window has editbox for Passcode input.

Passcode has 4 digits.

Passcode is 1934

After input the passcode and OK button, OP shall wait until get the response from MCB notifying that MCB is idle. Once Diagnostics window is displayed, all hard buttons except numeric button and 'clear' button shall be disabled.

Below is the main window of Diagnostics.



Figure 2-1 Diagnostics Main window

There are 3 tabs. They are "Information", "Fault History", and "Test Routines". Each tab has several sub items and they're listed as below.

Contents

- Information
 - A. General
 - B. HFSI
 - C. Software Version
 - D. Usage Counters
- Fault History
 - A. Fault Log
 - B. Fault Counters
- Test Routines
 - A. Copier
 - B. Fax
 - C. Network
 - D. Other

Detail of each tab and items will be explained in the following chapters.

4.5.2.1 Logout

Inform	iggnostis Logout			6
General	1	leset	Reboot	-
HESI	1	Counters?	Copier?	
Software	Yes			
Usage Cu	No			
				 Y

Figure 2-2 General item window

By pressing the Home button, exit Diagnostics mode. When exit Diagnostics mode, a popup window shall display. By default, Reset Counters is No, Reboot Copier is Yes.

4.5.3 Information Tab

Flowchart N/A

Information Tab provides detail information of the machine.

4.5.3.1 General

Information	Fault History Test Routines	6
General	Machine Serial Number : xxxxxxxxxx	~
HESI	Notenati 10 Address - 1 and and and and	
Software Version	HECTOR IP Address - XXX.XXX.XXX	
Usage Counters	- Images since last call: 11,000	_
	1	Y

Figure 3-1 General item window

When user selects General, OP displays Machine Serial Number, Network IP Address and Images since last call.

4.5.3.2 HFSI

HFSI shows the usage of "High Frequency Service Items".

Information	Fault History Test Rou	tines			4
General >	Ites	Status	Actual	Max. Life	
HSFI	DADF Roller Life Page	OK	0	200,000	
Software Version>	DADF Rubber pad Life Page	OK	0	50,000	
Usage Counters >	TI P-up Roll Life Page	UK	148	200,000	
	Retard Roll Life Page	ОК	1,216	200,000	~

Figure 3-2 HFSI item window

When user select "HFSI", OP displays the list of HFSI read from the MCB. In the list, there are "Item", "Status", "Actual", and "Max. Life".

- User Behavior
 User can select one item in the list to reset the counter using "Reset" button or to edit the Max.Life and threshold value using "Edit" button.
- Items in this column are: DADF Roller Life Page DADF Rubber Pad Life Page T1 P-up Roll Life Page Retard Roll Life Page T2 P-up Roll Life Page T3 P-up Roll Life Page T4 P-up Roll Life Page Bypass Rubber Pad Life page Fuser Roll Life Page Fuser Unit Life Page Heat Roll Life Page Pressure Roll Life Page
- Status

The possible values in this column are 'OK', 'Check', 'Negative' and 'Off.

OK : Actual counter is smaller than the threshold value Check : Actual counter is bigger than threshold value but smaller than MaxLife Off : Actual counter exceeds MaxLife Negative : There is no counter to display. In this case, it shall display '- ' in the Status and Max Life column.

Actual

Values in this column are actual counts for HFSI usage Values in this column shall use delimiter(,) every 1000 unit

Max. Life

Values in this column are maximum life limits set for HFSI.

There are 3 buttons titled "Reset" and "Edit".

Reset

This button is used to reset the actual counter after replacing the HFSI unit.

This button is disabled before user select one item in the list and enabled once user select any of the items in the list.

Once user presses, a confirmation window shall display to user confirm again. The window is displayed as below.

If user confirms reset, it will reset the counter to 0.

If the counter of selected item is 0, 'Reset' button shall be disabled.

If user selects 'OK' or 'Cancel' button, a confirmation window shall return to the previous window and display pressed 'HFSI' tab



Figure 3-3 HFSI item Reset window

• Edit

"Edit" button is disabled until user selects one item in the list. Selecting "Edit" button causes edit window to be displayed. There are two input filed for 'Maximum Life' and for 'Threshold'.

Information	1	Fault History Test Rout	ines	4	
General	>	To change setting val	ue, select a field and		
HFSI		enter a new value using the hard keypad			
Software Vers	ion ,	Maximum Life :	200,000	1	
Usage Counters >	Threshold :	180,000			

Figure 3-4 HFSI item Edit window

By default the Threshold data field is displayed as selected.

Each data filed shall display default value or the last-saved value entered by the service engineer. The data field shall support the numeric characters of 0 to 9

The hard keypad characters of '#', 'phone' and '*' are not supported and shall generate an invalid entry message if selected.

The hard keypad characters of 'c' shall delete all characters displayed within the selected data filed. By selecting 'Cancel', window moves back to HFSI window without saving user's setting.

By selecting 'OK' button, window moves back to HFSI window saving user's setting

Threshold value shall not be greater than Maximum Life.

4.5.3.3 Software Version

Information	Fault History Test Routines		6
General >	Ites	Version	
HSF1 >	Main Controller	1.00.94.00	
Software Version	ftware Version Image Ouput Terminal		
Usage Counters ,	User Interface	1.02.02.00	
	Metwork Controller	2.0.99.10	~

Figure 3-4 Software Version item window

 Items in this column are: Main Controller Image Output Terminal User Interface Network Controller Document Feeder Tray 2 Firmware Tray 3 Firmware Tray 4 Firmware

The items in the Software Version shall be same as those of Machine Status > Machine Infor > Machine Details > Software Version.

4.5.3.4 Usage Counters

Information	Fault History Test Routines		
General >	Ites	Asount	1
HSF1 >	Total Impression	1,325	
Software Version ,	Black Impression	1,325	
Usage Counter	Black Copied Impression	0	
	Black Printed Impression	200	~

Figure 3-5 Usage Counter item window

Items in this column are: **Total Impressions Black Impressions Black Copied Impressions Black Printed Impressions** Sheets **Copied Sheets Black Copied Sheets Printed Sheets Black Printed Sheets** 2 Sided Sheets **Copied 2 Sided Sheets** Black Copied 2 Sided Sheets Printed 2 Sided Sheets Black Printed 2 Sided Sheets Fax Images Received Images Sent Server Fax Images Sent Network Scanning Images Sent **Email Images Sent** Maintenance Impressions **Black Maintenance Impressions** Known Jams in the IOT Known Jams in Finishing Device(s) Attempted Sheet Feeds from Internal trays Actual sheet feeds from Internal trays Normal Level Power On Hours **Power Save Hours** Attempted Original Sheet Feeds in the DADF

The items in the Usage Counter shall be same as those in the Machine Status > Machine Infor > Billing Counters.

4.5.4 Fault History Tab

4.5.4.1 Fault Log

Inforention	Fault Histo	ary Test I	Routines		4
Fault Log	Code	Date	Time	Description	
Fault Counters	> 01-000	06/11/30	23:30:58	Trayl Elevating Error	
	01-000	06/11/30	23:25:10	Trayl Elevation Error	
	07-002	06/11/30	20:11:09	Paper Empty at Trayl	
	07-002	06/11/30	19:10:50	Paper Empty at Trayl	×

Figure 4-1 Fault Log item window

Fault log window shall display errors last error first.

2 Diagnostics	
Fault Lc Fault Cc	The Fault Log history will be cleard. Touch OK to delete the history or touch Cancel to return to the fault Log window
	OK Cancel ack

Figure 4-2 Fault Log item Clear All window

Once user confirms to clear Fault Log, the list shall be empty.

4.5.4.2 Fault Counters

2 Diagnostics Information	Fault History Test Routines	6
Fault Log >	Fault Group	
Fault Counters	01 Feeder	
51. 	02 Fuser	
	03 Motor Fan	
	04 LSU	×
	Non Zera All OK	Cancel

Figure 4-3 Fault Counters window

Fault Counters window displays Fault group with number and name.

They are

- 01 Feeder
- 02 Fuser
- 03 Motor Fan
- 04 LSU
- 05 Option Interface
- 06 CRU
- 07 Finisher
- 08 DADF
- 09 FDI
- 10 Controller
- 11 Scanner
- 12 Mismatch Type
- 13 Network
- 14 Cloning
- 18 ax Memory State
- 21 Tray
- 24 MSOK

User shall select one item in the list at a time and multiple selection shall not be supported.

User can select 'Non Zero' or 'All'

By default, 'Non Zero' shall be selected..

When press 'OK', Fault Counters Detail Window (Figure 4-4) shall be displayed.

Inforention	Fault Histo	ary Test Routines		1
Fault Log	> Code	Description	Value	10-
Fault Counters	01-000	Close Side Door	0	
	01-001	Close Tray 2 Door	0	
	81-002	Close Tray 3 Door	1	
	01-003	Close Tray 4 Door	0	V

Figure 4-4 Fault Counters Detail window

Fault Counters Detail window shall display Fault code, description and value (counter) among the selected Fault Group.

Items of displayed Fault codes are different based on the selection of 'Non Zero' or 'All' When selected 'Non Zero', Fault codes in the selected Fault Group having non zero counter shall be displayed When selected 'All', all Fault codes in the selected Fault Group shall be displayed.

Display order of Fault code is upward.



4.5.5 Test Routines Tab

4.5.5.1 Copier

4.5.5.1.1 NVM Read/Write

Information	Setup	Test Routines	6
Copier		19-14-	-
Fax >	NYN KGA	a/#rite	
Network >	NYN Ini	tialization	
Other >	Ensine/	DAQF	1
	Engine/ Test Ro	DADF ut ines	1

Figure 5-1 Copier item window

When press Engine/DADF Test Routines, OP shall send test mode entry command.

(CMD_COPY_COMP_ENTERMODE)

Only when the response for CMD_COPY_COMP_ENTERMODE is OK, user can move into Engine/DADF Test Routines.

Informatio	n - 1	Set	tup	Test Routines			6
Copier		Code	NVN N	ane	Default	Value	11-
Fax		10-155	Labets	Temperature offset	5	5	
Network	>	10-200	Fuser	Life Page Counter	1325	1325	
Other	>	10-210	Heat F	bil Life Page Counter	1325	1325	
		10-220	Pressu	re Roll Life Page Counter	1325	1325	~
		00-000	Find		Edit	Back	1.000

Figure 5-2 Copier item NVM Read/Write window

- Items in this column are:
 - 10 100 StandBy Temperature offset
 - 10 105 Run Temperature offset
 - 10 110 Low Power Temperature offset
 - 10 115 101-185 mm Temperature offset
 - 10 120 186-216 mm Temperature offset
 - 10 125 60 gms Temperature offset
 - 10 130 90 gms Temperature offset
 - 10 135 Bond Temperature offset
 - 10 140 Transparency Temperature offset
 - 10 145 Cardstock Temperature offset
 - 10 150 Envelopes Temperature offset
 - 10 155 Labels Temperature offset
 - 10 200 Fuser Life Page Counter

10 - 210 Heat Roll Life Page Counter 10 - 220 Pressure Roll Life Page Counter Pick-up interval delay 10 - 300 Pick-up interval delay [Special paper] 10 - 310 07 - 100 Top Registration Tray1 Simplex 07 - 200 **Top Registration Tray2 Simplex** 07 - 300 Top Registration Tray3 Simplex 07 - 400 Top Registration Trav4 Simplex Top Registration Bypass Simplex 07 - 500 Side Registration Tray1 Simplex 07 - 110 07 - 210 Side Registration Tray2 Simplex 07 - 310 Side Registration Tray3 Simplex 07 - 410 Side Registration Tray4 Simplex 07 - 510 Side Registration Bypass Simplex Top Registration Tray1 Dup_long (2nd side) 07 - 120 07 - 220 Top Registration Tray2 Dup long (2nd side) 07 - 320 Top Registration Tray3 Dup_long (2nd side) 07 - 420 Top Registration Tray4 Dup_long (2nd side) 07 - 520 Top Registration Bypass Dup long (2nd side) 07 - 130 Side Registration Tray1 Dup_long (2nd side) 07 - 230 Side Registration Tray2 Dup_long (2nd side) 07 - 330 Side Registration Tray3 Dup_long (2nd side) 07 - 430 Side Registration Tray4 Dup_long (2nd side) 07 - 530 Side Registration Bypass Dup_long (2nd side) 07 - 140 Top Registration Tray1 Duplex (1st side) 07 - 240 Top Registration Tray2 Duplex (1st side) 07 - 340 Top Registration Tray3 Duplex (1st side) 07 - 440 Top Registration Tray4 Duplex (1st side) 07 - 540 Top Registration Bypass Duplex (1st side) 07 - 150 Side Registration Tray1 Duplex (1st side) 07 - 250 Side Registration Tray2 Duplex (1st side) Side Registration Tray3 Duplex (1st side) 07 - 350 07 - 450 Side Registration Tray4 Duplex (1st side) 07 - 550 Side Registration Bypass Duplex (1st side) 06 - 100 Vertical Magnification 06 - 110 Horizontal Magnification 08 - 100 Pick up roller Life Page Counter 08 - 110 Forward roller Life Page Counter 08 - 120 Retard roller Life Page Counter 08 - 130 Tray2 Pick-up Roller Life Page Counter 08 - 140 Tray3 Pick-up Roller Life Page Counter 08 - 150 Tray4 Pick-up Roller Life Page Counter 08 - 160 Bypass Rubber Pad Life Page Counter 09 - 100 LD Light Level 09 - 110 MHV Control Bias Control 09 - 120 **THV Control Bias Control** 09 - 130 **Deve Bias Control** 09 - 200 Drum Life Page Counter 09 - 210 Toner Cartridge Life Page Counter 09 - 240 Drum PWM 09 - 140 **Detack Bias Control** 09 - 230 Transfer Roller Life Page Counter

- 05 700 ADF Roller Life Page Counter
- 05 710 ADF Rubber Pad Life Page Counter

Edit button shall be disabled until any NVM item is selected.

Edit button shall be disabled when read only NVM is selected.

Search edit box has 00-000 as a default. User shall input the whole number to find a specific NVM by pressing Find button.

If matching NVM is found, the page including the specified NVM shall be displayed and the NVM is shown as selected.

If matching NVM is not found, error message such as "Invalid NVM number" shall be displayed on the status area and search edit box displays default number.

Information	Setup	Test Routines	6
Copier	Default : 5		1
Fax >		Маж : 10	
Network >	Yalue	5	
Other >		Nin : O	

Figure 5-3 Copier item NVM Read/Write Edit window

When press Reset, value shall be Default value without confirmation popup window.

NVM name shall be displayed top of Default value string.

When press OK, confirmation popup window shall displayed.

Confirmation window shall display "Touch OK to save the value or Cancel to return"

4.5.5.1.2 NVM Initialization

? Diagnostics			
Information	Setup	Test Routines	6
Copier			1
Fax >		Dust Off	
Network >	Machine Ve	triable	
Other >			
	SA/KU Dust	t Urf	1
			Initialize

Figure 5-4 Copier item NVM Initialization window

By default, none of items is selected and Initialize button shall be disabled.

There shall be Back button.

When Back button is pressed, NVM Initialization window return the previous window and NVM Initialization button shall be changed to the normal image

Infor		4
Copie		-
Fax	Are you sure you want to initialize these NYM values? Press OK to begin the initialization.	
Notwo	Press Cancel to return back to previous window. Make sure that you have saved NVM before proceeding.	
Other		

Figure 5-5 Copier item NVM Initialization Confirmation window

When OK/Cancel is selected, move back to Figure 5-4.

When press OK button, OK and Cancel button are disabled until get the result from MCB.

When press OK button, SR shall show the initialization progress status and result.

When the result is get, pop up window shall be disappeared.

When press Cancel button, return to the previous window

4.5.5.1.3 Engine/DADF Test Routines

Information	ution Set		up Test	6		
Copier		Code		Test Name		
Fax		01-100	Side Cover In	terlock		
Network		01-200	Exit Cover Pr	esent Sensor		
Other	>	04-100	Main BLDC Not	or		
		84-110	Main BLDC Not	or Ready		v
	23	00	Find	Reset	OK	Back

Figure 5-6 Copier item Engine/DADF Test Routines Find Component window

When exit this window, OP shall send exit command.

(CMD_COPY_COMP_EXITMODE)

By default, all Test routines will be displayed.

By default, search edit box has 00 .

OK/Reset button shall be disabled until any test routine is selected.

Maximum number of selection is 3.

Reset will deselect all selected test routines.

User select test routine by touching the row and deselect touching it again.

User input chain number in search edit box and only all test routines in the chain shall be displayed.

Information	Set	UP Test Routines					6	
Copier	Code	1		Test Hame	S	tatus	1	
Fax	> 04-100	Main	BLDC N	oyot				
Network	> 01-100	Side	Cover	Interlock				
Other	>							
							V	

Figure 5-7 Copier item Engine/DADF Test Routines window

By default, Start/Stop/Stop All shall be disabled.

Start button shall be enabled when selected item is not running.

Multiple selection shall not be supported.

Stop shall be enabled only when the selected item is running.

Stop All shall be enabled when there is any running test item.

Back button shall be disabled when there is any running test item.

4.5.5.2 Fax



Figure 5-8 Fax item window

4.5.5.2.1 NVM Read/Write

Informatio	m	Set	tup	Test Routines			6
Copier	,	Code	NVN N	ane	Default	Value	1
Fax		20-100	Redial	Attempts	2	2	1
Network	\rightarrow	20-110	Redial	Interval	3	3	1
Other	>	20-200	Pause	Diat Time	0	0	
		20-300	Ring (n Time	11	11	×
		00-000	Find		Edit	Back	

Figure 5-9 Fax item NVM Read/Write window

For the behavior, refer to 4.5.5.1.1

	Tool hour mos	D
Default : 5		1
	Max : 10	
Value	5	
	Nin : O	
	Defauit : 5 Value	Default : 5 Max : 10 Yalue 5 Nin : 0

Figure 5-10 Fax item NVM Read/Write Edit window

For the behavior, refer to 4.5.5.1.1

4.5.5.2.2 NVM Initialize

Information	Setup Test Routines	6
Copier >	— ———————————————————————————————————	-
Fax	All Fax NVN Configuratio	n HYN
Network >	A11 Fax Directories Fax SA/KD Settings NVN	(
Other >		_
	Fax Job NYN	~

Figure 5-11 Fax item NVM Initialize Edit window

For the behavior, refer to 4.5.5.1.2.

Inform	6
Copier	
Fax	Are you sure you want to initialize these NVW values? Press DK to begin the initialization.
Networ	Press Cancel to return back to previous window. Make sure that you have saved NVM before proceeding.
Other	
	~

Figure 5-12 Fax item NVM Initialize Confirmation window

For the behavior, refer to 4.5.5.1.2.

4.5.5.2.3 Protocol Report

Information	Setup	Test Routines	6
Copier >			-
Fax	Print		
Network >			
Other >			
			2

Figure 5-13 Fax item Protocol Report window

By pressing the Print, starts printing.

4.5.5.2.4 Fax Routines

Information	Setup	Test Routines		1
Add Component 00-000	Code	Test Name	Status	
Find Component				

Figure 5-14 Fax item Fax Routines window

For the behavior, refer to 4.5.5.1.3

Information	Setup	Test Routines		1
Category 00	Code	Test Name	Selected	
Select				

Figure 5-15 Fax item Fax Routines Find window

For the behavior, refer to 4.5.5.1.3

4.5.5.3 Network

Information	Sottup Test Routines	6
Copier >		A
Fax >	NYW Initialization	
Network		
Other >		
		×

Figure 5-16 Network item window

4.5.5.3.1 NVM Initialization



Figure 5-16 Network item NVM Initialization window

For behavior, refer to 4.5.5.1.2



Figure 5-17 Network item NVM Initialization Confirmation window

4.5.5.4 Other

Information	Setup	Test Routines	10	6
Copier >	Print	(1
Fax >	Test Patt	tern	Memory Clear	
Network >	Shading 1	lest	Print Report	
Other	<u> </u>	_	,]	
	Scan Edge	r Test	OEK S/N Sync.	

Figure 5-18 Other item window

4.5.5.4.1 Print Pattern

? Diagnost i	ics			
Informatio	•	Setup	Test Routines	6
Copier	*			-
Fex		Test Pattern		
Network		1 - 19		oeo
Other		< >	2 Si	ded
			Ettetter	×
			Start Test	Back

Figure 5-19 Other item Print Pattern window

For printing Test Pattern, use Report Print Command.

By default, Test Pattern number shall be 1.

User shall select paper source by selecting tray of the image.

User shall select simplex/duplex printing option by selecting 1 sided /2 sided button.

4.5.5.4.2 Shading Test

Information	Setup Test Routines	1
Copier >		(n
Fax >	Shade and print report	
Network >	Print last shade report	
Other		-
	T	1
		Back



4.5.5.4.3 Scan Edge Test

Information	Setup	Test Routines	6
Copier :	· _		(~
Fax	Print S	cn Edge Test	
Network :	>		_
Other			
			×
			Back

Figure 5-21Other item Scan Edge Test window

4.5.5.4.4 Memory Clear

Information	Setup	Test Routines	G
Copier >	0.		6
Fax >	Memory	Clear	1
Network >			
Other			-
			0

Figure 5-22Other item Memory Clear window

4.5.5.4.5 Print Report

Setup Test Routines	<u>a</u>
	~
Configuration Information	
Component Check Drum	
Service Support	~
Print	Back
	Setup Test Routines Configuration Toner Information Component Check Drum Information Service Support Print

Figure 5-23Other item Print Report window

4.5.5.4.6 OEK S/N Sync.

Information	Setup	Test Routines	6
Copier >	_		-
Fax >	OEK S/	Sync.	
Network >			
Other			
			2
			Back

Figure 5-24 OEK S/N Sync. window

4.5.6 Firmware Upgrade

4.5.6.1 Port 9100 Download (Machine and User PC should be connected to network)

- 1) Copy ipsend.exe and firmware file to local folder.
- 2) Execute dos prompt at same location as above
- 3) Type "ipsend.exe [ip address] [firmware file name]" and Press Enter

4.5.6.2 SWS

- 1) Open Internet Explorer
- 2) Type ip address of machine at the address bar, and press enter
- 3) Go to maintenance, Select firmware file by browse button
- 4) Press Upgrade button

4.5.6.3 Local USB Download

- 1) Copy usblist2.exe and firmware file to local folder.
- 2) Execute dos prompt at same location as above
- 3) Type "usblist2.exe[firmware file name]" and Press Enter

4.6 Consumables and Replacement Parts

4.6.1 Maintenance part

To avoid print quality and paper feed problems resulting from worn parts and to maintain your printer in top working condition the following item swill need to be replaced at the specified number of pages or when the life span of each item has expired.

Items	Yield (Average)
DADF rubber pad	Approx. 50,000 pages
Multi-purpose tray rubber pad	Approx. 200,000 pages
DADF feed roller	Approx. 50,000 pages
Multi-purpose tray feed roller	Approx. 200,000 pages
Transfer roller	Approx. 100,000 pages
Fuser unit	Approx. 200,000 pages
Paper Feed roller	Approx. 200,000 pages

We highly recommend that an authorized service provider, dealer or the retailer where you bought printer performs this maintenance activity.

4.6.2 Printing machine's report

You can print the machine's information and job report.

- 1. Press Machine Setup on the control panel.
- 2. Press Machine Status > Machine Info. tab > Print/Report.
- 3. Select the report type, then the right side of the screen shows the list to print.
- 4. Select the list to print.



- 5. Press Print.
 - Note : You can use SynchThru Web Service to print the machine's configuration or browse the status. Open the internet browser in the networked computer, and type the machine's IP address. When SynchThru Web Service is opened, click Information > Print information.

4.6.3 Clearing memory

When you want to delete all the data, including data from mail box, received fax, or user settings, in the flash memory of the machine, use the memory clearing function.

* This function(Clearing memory) of the SCX-6345N is not supported

4.6.4 Calibrating the touch screen

When pointing positions of the touch screen is incorrect, you can correct the pointing position using the calibration feature.

- 1. Press and hold the numeric key 0. While you are pressing the key 0, turn on the machine to enter the calibration mode.
- 2. When the machine enters to the calibration mode, press + mark in numerical order.
- 3. When the screen shows the job done, press any number key on the control panel to validate the touch screen.
- 4. When the calibration screen shows up again, press + mark in numerical order.
- 5. When the machine completes the calibration, turn off and on the machine again.



4.6.5 Checking the supplies life

If you want to know the supplies' life within the machine, follow the next step.

- 1. Press Machine Setup on the control panel.
- 2. Press Machine Status.
- 3. Press down arrow to browse all the supply list, measurement, and remains.

4.6.6 Checking the machine's serial number

If you want to check your machine's serial number from the screen, follow the next step.

- 1. Press Machine Setup on the control panel.
- 2. Press Machine Status > Machine Info. tab > Machine Details.

4.6.7 Clearing the toner empty message

When you want to set the machine not to show the toner empty and replace the toner message, follow the next steps.

- 1. Press Machine Setup on the control panel.
- 2. Press Admin Setting. When the login message pops up, then enter password and press OK.
- 3. Press General > Ignore Toner Empty Status.
- 4. Press On.
- 5. Press OK.

4.6.8 Cleaning your machine

To maintain print and scan quality, follow the cleaning procedures below each time the toner cartridge is replaced or if print and scan quality problems occur.

Caution : Cleaning the machine cabinet with cleaning materials that contain large amounts of alcohol, solvent, or other strong substances can discolor or damage the cabinet.

4.6.8.1 Cleaning the outside

Clean the machine cabinet with a soft lint-free cloth. You can dampen the cloth slightly with water, but be careful not to let any water drip onto or into the machine.

4.6.8.2 Cleaning the inside

Contact a service representative to clean the inside of the machine.

4.6.8.3 Cleaning the scan unit

Keeping the scan unit clean helps ensure the best possible copies. We suggest that you clean the scan unit at the start of each day and during the day, as needed.

- 1. Slightly dampen a soft lint-free cloth or paper towel with water.
- 2. Open the scanner lid.
- 3. Wipe the surface of the scanner glass and DADF glass until it is clean and dry.
- 1 white sheet 2 DADF glass 3 scanner lid 4 scanner glass
- 4. Wipe the underside of the scanner lid and white sheet until it is clean and dry
- 5. Close the scanner lid

4.6.9 Maintaining the toner cartridge

Toner cartridge storage

To get the most from the toner cartridge, keep the following guidelines in mind:

- · Do not remove the toner cartridge from its package until ready for use.
- · Do not refill the toner cartridge. The machine warranty does not cover damage caused by using a refilled cartridge.
- \cdot Store toner cartridges in the same environment as your machine.

Expected cartridge life

The toner cartridge yield depends on the amount of toner that print jobs require. Average yield for a new toner cartridge is 20,000 standard pages in accordance with ISO/IEC 19752 standard. (Average yield for the original toner cartridge supplied with the machine is 20,000 standard pages.) The actual number may also be different depending on the print density of the pages you print on, and the number of pages may be affected by operating environment, printing interval, media type, and media size. If you print a lot of graphics, you may need to change the cartridge more often.

4.6.9.1 Replacing the toner cartridge

When the toner cartridge is completely empty:

- · Toner Empty appears on the display.
- · The Status LED lights red.
- The machine stops printing. The incoming faxes are saved in memory.

At this stage, the toner cartridge needs to be replaced. For order information for toner cartridges. Note : You can set the machine to disregard the Toner Empty message and to continue printing.

1. Open the side cover.



2. Open the front cover.



3. Turn the cartridge locking lever towards right until it sounds 'click', to release the toner cartridge.



4. Lift the locking lever and pull the toner cartridge out.



- 5. Remove the new toner cartridge from its bag.
- 6. Hold the toner cartridge by the handle and slowly insert the cartridge into the opening in the machine.

- 7. Slide the new toner cartridge in until it locks in place.
- 8. Turn the cartridge locking lever towards left until it sounds 'click'.



9. Close the front cover, then the side cover.

4.6.9.2 Replacing the drum cartridge

Expected cartridge life

The useful life of the drum cartridge is approximately 60,000 copies. The LCD displays Drum Warning when the drum is near the end of life.

Approximately 6,000 more copies can be made, but you should have a replacement drum cartridge in stock.

· Replace Drum appears on the display.

· The Status LED lights red.

For order information for drum cartridges.

1. Open the side cover.



3. Turn the cartridge locking lever towards right until it sounds 'click', to release the toner cartridge.



2. Open the front cover.



4. Lift the locking lever and pull the toner cartridge out.



Note : The toner cartridge must be removed to replace the drum cartridge.

5. Pull the used drum cartridge out.



- Note : Help the environment by recycling your used drum cartridge. Refer to the recycling brochure packed with the drum cartridge for details.
- 6. Thoroughly shake the drum cartridge side to side for five or six times.



7. Unpack the new drum cartridge and slide it into place, making sure not to touch the surface of the drum.



8. Turn the cartridge locking lever towards left until it sounds 'click'.



- 9. Close the front cover, then the side cover.
- Note : If you do not reset the counter, Drum Warning may appear before the current drum cartridge's time is up.

4.6.10 Managing your machine from the website

If you have connected your machine to a network and set up TCP/IP network parameters correctly, you can manage the machine via Samsung's SynchThru Web Service, an embedded web server. Use SynchThru Web Service to:

- \cdot View the machine's device information and check its current status.
- \cdot Change TCP/IP parameters and set up other network parameters.
- \cdot Change the printer properties.
- \cdot Set the machine to send email notifications to let you know the machine's status.
- Get support for using the machine.

To access SynchThru Web Service:

- 1. Start a web browser, such as Internet Explorer, from Windows.
- 2. Enter the machine IP address (http://xxx.xxx.xxx) in the address field and press the Enter key or click Go. Your machine's embedded website opens.

4.7 Option Installing

Your machine is a full-featured one that has been optimized to meet most of your printing needs. Recognizing that each user may have different requirements, however, Samsung makes several accessories available to enhance your machine's capabilities.

This chapter includes:

- · Precautions when installing accessories
- Installing a memory DIMM

4.7.1 Precautions when installing accessories

Disconnect the power cord

Never remove the control board cover while the power is being supplied. To avoid the possibility of an electrical shock, always disconnect the power cord when installing or removing ANY internal or external accessories.

Discharge static electricity

The control board and internal accessories (network interface card or memory DIMM) are sensitive to static electricity. Before installing or removing an internal accessories, discharge static electricity from your body by touching something metal, such as the metal back plate on any device plugged into a grounded power source. If you walk round before finishing installation, discharge any static electricity once again.

4.7.2 Installing a memory DIMM

Your machine has a dual in-line memory module (DIMM) slot. Use this DIMM slot to install additional memory. Your machine has 256 MB of memory which can be expanded to 384 MB.

This machine comes with 128 MB of on-board memory and a 128 MB DIMM. To expand the memory of your machine, you must remove the existing DIMM and purchase a larger one.

The order information is provided for optional memory DIMM.

- 1. Turn the machine off and unplug all cables from the machine.
- 3. Completely open the latch on each side of the DIMM slot. Remove the preinstalled memory DIMM.
- 2. Open the control board cover by grasping it and slide toward you.




- 4. Take out a new memory DIMM from the plastic bag.
- 5. Holding the memory DIMM by the edges, align the notches on the memory DIMM with the grooves on the memory DIMM slot.



Note: The notches and grooves illustrated above may not match those on an actual DIMM and the slot.

Push the DIMM straight into the DIMM slot until it snaps into place. Make sure the latches fit over the notches located on either side of the DIMM.



7. Replace the control board cover.



8. Reconnect the power cord and printer cable, and turn the machine on.

4.7.3 Activating the added memory in the PS printerproperties

After installing the memory DIMM, you need to select it in the printer properties of the PostScript printer driver so that you can use it.

- 1. Make sure that the PostScript printer driver is installed on your computer.
- For details about installing the PS printer driver, see theSoftware Section.
- 2. Click the Windows Start menu.
- 3. For Windows 98/Me/NT 4.0/2000, select Settings and thenPrinters.
- 4 Select the Samsung SCX-6x45 Series PS printer.
- 5 Click the right mouse button on the machine icon and select Properties.
- 6. For Windows 98/Me, select Device Options. For Windows NT 4.0/2000/XP/2003, select Device Settings.
- 7. Select the amount of memory you installed from Printer Memory in the Installable Options section
- For Windows 98, select Installable Options > VMOption > changesetting for:VMOption > change memory. 8. Click OK.

4.8 Display LED and Error Messages

4.8.1 Display LED

The S a us LED on he con rol panel shows he s a us of your machine. See he able below o know your machine's s a us.



ED or LED button	LED st	atus	Description
Status (LED)	Off		Power Off
	Green On		Ready
	Green Blink		. Copy Mode : Copy job is in progress . Fax Mode : Fax job (RX, TX) is in progress . Scan / Email : Scan or Email job is in progress . Printing: - Slow Blinking : Data processing - Fast Blinking : Engine is printing
	Red On		Errors that need userís intervention such as paper jam, toner empty, tray empty, cover open
	Red Blink		Recoverable errors that user's intervention is not needed to recover happens such as paper mismatching. The machine is in the warning status such as end of consumables.
Power Saver (LED button)	Blue Off		The machine is not in power saver mode
	Blue On		The machine is in power saver mode
Interrupt (LED button)	Blue Off		The machine is not in interrupt printing mode
	Blue On		Then machine is in interrupt printing mode

4.8.2 Error Message

Messages appear on the Smart Panel program window or the control panel display to indicate the machine's status or errors. Refer to the tables below to understand the messages' meaning and correct the problem if necessary. Messages and their meanings are listed in alphabetical order.

Messages in the colored cells are available only with SCX-6345N.

Display	Meaning	Suggested solutions	
Ambient Temperature Sensor Fault	The sensor for the inner temperature of the machine is not working properly.	Turn the machine off and turn it on again.	
BOOTP server error. An Auto IP address has been established.	BOOTP server does not work. The machine is working with auto IP setting function.	Set the network parameters again or assign a new static IP address.	
BOOTP server error. An Auto IP is not working	The BOOTP server does not work, and the auto IP setting is failed.	Set the network parameters again or assign a new static IP address.	
CCD Lock	The CCD (Charged Couple Device) lock has been locked.	Unlock the CCD lock. Or turn off the machine and on again.	
	The CCD does not detect its home location or move.	Try again.	
Check Fax Kit	The fax kit is not installed, or the fax is not working properly.	Reinstall the fax kit.	
Check Hard Drive	The hard disk drive does not work properly.	Turn the machine off and turn it on again.	
Check Tray 2 Feed Area	Paper has jammed in the tray feed area.	Clear the jam.	
Check Tray 3 Feed Area	Or the tray cover is opened.		
Check Tray 4 Feed Area	-		
DADF Duplex Feeding Jam	The lead edge of the document failed to actuate the scan sensor within the correct time after actuating the duplex sensor.	Lift up the document input tray and remove the jammed original.	
DADF Duplex Jam	The lead edge of the document failed to actuate the duplex sensor within the correct time when the document was fed the wrong way.	Lift up the document input tray and remove the jammed original.	
DADF Exit Jam	The lead edge of the document failed to actuate the gate sensor within the correct time after actuating the scan sensor.	Open the DADF cover and remove the jammed original.	
DADF Oversize Document Detected	Oversizeddocument or double-feeding of originals.	Open the DADF cover and remove the jammed original. Check the document size whether it is supported.	
DADFRegistration Jam	The originals are jammed in DADF.	Open the DADF cover and remove the jammed original.	

Note : When you call for service, it is very convenient to tell the service representative the display message.

Display	Meaning	Suggested solutions
DHCP server error. An Auto IP address has been established.	DHCP server does not work. The machine is working with the setting IP by auto IP setting function.	Set the network setting again or assign a new static IP address.
DHCP server error. An Auto IP is not working.	The DHCP server does not work, and the auto IP setting is failed.	Set the network setting again or input the new static IP addre.
Drum Cartridge Initializi	It is the mixing time when installing the new drum cartridge up to 180 sec.	Wait about 180 seconds until the machine is ready.
Drum Communication Error	Communication between the drum cartridge and the machine has failed The drum cartridge is invalid.	Reinstall the drum cartridge. If the prob- lem persists, replace it.
Drum Warning	The drum cartridge is near the end of itsEnsure a replacement cartridge inlife.	
Duplex Jam 0	Paper has jammed during duplex printing.	Clear the jam.
Duplex Jam 1	Paper has jammed during duplex printing.	Clear the jam.
Duplex Jam 2	Paper has jammed during duplex printing.	Clear the jam.
Ejector Fault	Ejector unit is not operating.	Remove paper from the output tray (finisher). If this error message shows on the screen again, cycle power. If the problem persists, call for service.
Fax Memory is empty.	There is no more available fax memory. No more fax data can be received.	Delete the received fax data in the memory. Call for service to delete fax memory.
Fax Memory is low.	Available fax memory is now 1MB.	Delete the received fax data in the memory to secure memory.
Feed Jam at MP Tray	Paper Misfed from multi-purpose tray	Clear the jam.
Feed Jam at Tray 1	Paper misfed from tray	Clear the jam.
Feed Jam at Tray 2		
Feed Jam at Tray 3		
Feed Jam at Tray 4		
Finisher Duplex Jam	Paper jammed in the stacker.	Open the stacker door and remove jammed paper by lowering guide 1a or 1b.
Finisher Interface Error	Communication error has occurred between the stacker and the machine.	Turn the machine off and turn it on again.
Finisher Jam 0	Paper jammed in the stacker.	Open the stacker door and remove
Finisher Jam 1		jammed paper by lowering guide 1a or 1b.
Finisher Jam 2	Paper jammed in the stacker exit part.	Pull jammed paper from the stacker exit.
Finisher Stacker Full	The stacker is full of printouts.	Remove printouts from the stacker.
Front Jogger Fault	Front Jogger is not operating.	Open the finisher door and clear any jammed paper (if there is). If this error message shows on the screen again, cycle power.
Fuser error	There is a problem in the fuser unit.	Unplug the power cord and plug it back
Fuser High Error		in.
Fuser Low Error		
Fuser unit error		

Display	Meaning	Suggested solutions
GUI to MCB Communications Fault	A communication error has occurred.	Turn the machine off and turn it on again.
Install Drum Cartridge.	The drum cartridge is not installed, or the CRUM (Consumer Replaceable Unit Monitor) in the cartridge is not connected.	Install the drum cartridge. If it is already installed, try to reinstall the drum cartridge.
Install Staple Cartridge.	The staple cartridge is not installed.	Install the staple cartridge following the steps explained on the back of the finisher door. If you want to continue the print job and disregard of this error message, go to Admin Setting to adjust the option.
Install Toner Cartridge.	The toner cartridge is not installed or the CRUM (Consumer Replaceable Unit Monitor) in the cartridge is not properly connected.	Try to reinstall the toner cartridge.
Invalid Drum cartridge.	The drum cartridge you have installed is not for your machine.	Install a Samsung-genuine drum cartridge, designed for your machine.
Invalid Toner Cartridge	The toner cartridge you have installed is not for your machine.	Install a Samsung-genuine toner cartridge, designed for your machine.
IP address conflict	The IP address is used in other place elsewhere.	Check the IP address or obtain a new IP address.
Jam at Fuser	Paper has jammed in the fuser area.	Clear the jam.
Jam in Tray 2	Paper has jammed in the feeding area of	Clear the jam.
Jam in Tray 3	the tray.	
Jam in Tray 4		
LSU Hsync Error	A problem has occurred in the LSU (Laser	Unplug the power cord and plug it back
LSU Motor Error	Scanning Unit).	inches.
Main motor failure	There is a problem in the motor unit.	Unplug the power cord and plug it back in. If the problem still persists, please call for service.
MCB to DADF Communications Fault	The communication error has occurred.	Turn the machine off and turn it on again.
MCB to NIC Communications Fault		
MCB to Tray 2 Communications Fault		
MCB to Tray 3 Communications Fault		
MCB to Tray 4 Communications Fault	-	
MCB Watchdog Detects Software Failure	MCB software is not responding.	Turn the machine off and turn it on again.
Memory Failure	Memory access failed.	Turn the machine off and turn it on again.
Network cable is disconnected	The network cable is disconnected.	Connect the network cable properly.
Network card is not installed	The network card is not installed.	Install the network card.

Display	Meaning	Suggested solutions
Non Genuine Drum, Replace Drum	The drum cartridge installed is not a genuine cartridge. This message appears when you selected Continue at Non Genuine Drum, Replace Drum prompt.	Install the Samsung-genuine drum cartridge.
Non Genuine Drum, Replace Drum1	The drum cartridge installed is not a genuine cartridge. This message appears when you selected Stop at Non Genuine Drum, Replace Drum1 prompt.	Install the Samsung-genuine drum cartridge.
Non Genuine Toner, Replace Toner	The toner cartridge installed is not a genuine cartridge. This message appears when you selected Continue at Non Genuine Toner, Replace Toner prompt.	Install the Samsung-genuine drum cartridge.
Non Genuine Toner, Replace Toner1	The toner cartridge installed is not a genuine cartridge. This message appears when you selected Stop at Non Genuine Toner, Replace Toner1 prompt.	Install the Samsung-genuine drum cartridge.
Output Bin full	The printed papers are full on the output tray.	Remove printed outs from the output tray.
Paddle Fault	Paddle unit is not operating.	Open the finisher door and clear any jammed paper (if there is). If this error message shows on the screen again, cycle power.
Paper Sensed in DADF.	When the machine is on, jammed paper is detected in the DADF.	Open the DADF cover and remove the jammed original.
Rear Jogger Fault	Rear Jogger is not operating.	Open the finisher door and clear any jammed paper (if there is). If this error message shows on the screen again, cycle power.
Registration Jam	Paper has jammed in the registration area.	Clear the jam.
Replace Drum	The drum cartridge is at the end of its life. When the drum replacement. message appears on the screen and if you select Continue, this message displays.	Replace a drum cartridge with a Samsung-genuine drum cartridge.
Replace Drum1	The drum cartridge is at the end of its life. When the drum replacement. message appears on the screen and if you select Stop, this message displays.	Replace a drum cartridge with a Samsung-genuine drum cartridge.
Replace toner	The toner cartridge had run out at least once before.	Replace a drum cartridge with a Samsung-genuine drum cartridge.
Scan Feeding Jam	The lead edge of the document failed to actuate the scan sensor within the correct time after actuating the registration sensor.	Open the DADF cover and remove jammed original.
SMPS Fan failure	There is a problem with the SMPS (Switch Mode Power Supply) Fan.	Unplug the power cord and plug it back in.

Display	Meaning	Suggested solutions
Stacker Fault	Stacker unit is not operating.	Remove paper from the output tray (finisher). If this error message shows on the screen again, cycle power.
Stapler Empty	Stapler is run out.	Order Staple Cartridge. And replace it.
Stapler Fault	Stapler is not operating.	Remove paper from the output tray (finisher) and open the finisher door to clear the jammed paper. If this error message shows on the screen again, cycle power.
Support Finger Fault	Support Finger unit is not operating.	Remove paper from the output tray (finisher). If this error message shows on the screen again, cycle power.
Toner Cartridge Communication Error	Communication between the toner cartridge and the machine has failed.	Reinstall the toner cartridge. If the problem persists, replace it.
Toner Empty, Replace Toner1	The toner in the cartridge has run out. The machine stops print job.	Replace the toner cartridge with a Samsung-genuine toner cartridge.
Toner Low	The toner cartridge is almost empty.	Ensure a replacement cartridge is in stock.
Toner Page Count Reached, Replace Toner	The toner page count is expired. When the printed page related message appears on the screen, if you select Continue, this message displays.	When the toner pagecount reached message appears on the screen, press Continue to continue the printing job. Or replace a toner cartridge with a Samsung-genuine toner cartridge.
Toner Page Count Reached, Replace Toner1	The toner page count has expired. When the printed page related message appears on the screen, if you press Stop, this message displays.	Replace a toner cartridge with a Samsung-genuine toner cartridge.
Toner Sensor Error	The drum cartridge has some mechanical problem.	Turn the machine off and turn it on again. If the problem persists, replace the drum cartridge.
Toner Supply error	Not supplied toner to the drum cartridge.	Remove the sealing tape from the drum cartridge, and check the lever for the shutter on the toner cartridge.
Use Auxiliary Access	The credit is not enough to access the job according to Foreign Device.	Insert credit into the Foreign Device.

4.8.3 Machine Clean

- Clean every 10,000sheets or every 6months to maintain in good condition. (When the Transfer Roller expires due to long usage.)
- Clean in following order; Paper Path Parts, Transfer Roller, Toner Cartridge and Drum Cartridge in the Inner Frame.
- Clean with Vacuum Cleaner and Dry rag or Soft cloth.

4.8.3.1 Cleaning Instructions

- 1. Paper Path Parts
 - Cleaning Kit : Vacuum Cleaner and Dry rag or Soft cloth.
 - Mal Affects : Dust particles from paper can be copied at worst making spot stains on the paper.
 - Follow the display listed on the figure below.
- 2. Cleaning-Transfer Roller
 - Cleaning Kit : Vacuum Cleaner and Dry rag or Soft cloth.
 - Mal Affects : Dust particles from paper can be copied at worst making spot stains on the paper.
 - When exchanging the Transfer Roller clean the area.
 - Follow the display listed on the figure below.
- 4. Cleaning-Frame Inside
 - Cleaning Kit : Vacuum Cleaner and Dry rag or Soft cloth.
 - Mal Affects : The toner can leak and pollute the interior, affecting the print quality.
 - Recommend an Engineer or highly experienced worker to clean.





Remove the Cartridge.



Open the Cover.



Cover with a piece of paper and lay it on a flat surface.



Remove the Cartridge.



Clean the Paper Path Parts.



Clean the Paper Path Parts.



Clean the Transfer Roller Unit Parts.



Clean the Transfer Roller Unit Parts.



Clean the Paper Path Parts.



Clean the Transfer Roller Unit Parts.



Reassemble the Transfer Roller.



Release the Transfer Roller.



Clean the Transfer Roller Unit Parts.



Clean the Frame Inside.



Reassemble the Cartridge.



Reassemble the Cartridge.

4.8.3.2 Cleaning advisories of the parts.

- 1. Make sure the main cord is unplugged before the cleaning.
- 2. Do not use flammable liquid cleaner or spray products for cleaning.
- 3. Avoid making scratches while cleaning the parts.
- 4. Avoid direct contact by hand on the Transfer Roller.
- Avoid exposing inner parts for a long duration of time. The surface of OPC Drum can be affected by direct light if exposed for a long time. (1~2 minutes is enough time for cleaning)
- 6. OPC surface must not be scratched.

5. Disassembly and Reassembly

5.1 General Precautions on Disassembly

When you disassemble and reassemble components, you must use extreme caution. The close proximity of cables to moving parts makes proper routing a must.

If components are removed, any cables disturbed by the procedure must be restored as close as possible to their original positions. Before removing any component from the machine, note the cable routing that will be affected.

Whenever servicing the machine, you must perform as follows:

- 1. Check to verify that documents are not stored in memory.
- 2. Be sure to remove the toner cartridge before you disassemble parts.
- 3. Unplug the power cord.
- 4. Use a flat and clean surface.
- 5. Replace only with authorized components.
- 6. Do not force plastic-material components.
- 7. Make sure all components are in their proper position.

Releasing Plastic Latches

Many of the parts are held in place with plastic latches. The latches break easily; release them carefully.

To remove such parts, press the hook end of the latch away from the part to which it is latched.



5.1.1 Screws used in the printer

No.	SEC_Code	Location	Description & Specification	QT'y
S1 (BH Short)	6001-000130	HDD	SCREW-MACHINE;BH,+,M3L6,ZPC (WHT), SWRCH 18A,-,-	4
	6002-000440	GND EXIT ROLL	SCREW-TAPPING?PWH,+,-,2,M3,L8,ZPC(BLK), SWRCH18A,-	1
		SENSOR	SCREW-TAPPING?PWH,+,-,2,M3,L8,ZPC(BLK), SWRCH18A,-	1
	6003-000196	BRACKET_JOINT+MAIN FRAME	SCREW-TAPTITE;PWH,+,B,M3,L10NI PLT, SWRCH18A	1
		FAN-DC INVERTER	SCREW-TAPTITE;PWH,+,B,M3,L10NI PLT, SWRCH18A	1
		GROUND_OPE SIDE	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	2
		PBA SUB-AIR_TMP	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	1
		PLATE-P_FEED UPPER	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	2
		STOPPER_M FAN80	SCREW-TAPTITE;PWH,+,B,M3,L10NI PLT, SWRCH18A	1
		UNIT SUPPORT SCAN	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	4
		BRACKET-P_CHANNEL	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	2
		BRACKET-P_SUP SCAN F	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	3
		CBF HARNESS_HVPS(3P	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	2
		ELA HOU-CVR OPN	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	1
		ELA HOU-TERMINAL	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	4
		FAN-DC LSU	SCREW-TAPTITE;PWH,+,B,M3,L10NI PLT, SWRCH18A	1
		FRAME-M_COVER REAR	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	2
		GROUND-P_OPC CONTACT	SCREW-TAPTITE;PWH,+,B,M3,L10NI PLT, SWRCH18A	1
		HOLDER-M_DEVE CONN	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	4
		HOLDER-M_FUSER TERM	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	2
		HOLDER-P_FUSER	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	2
		MEA UNIT-DAMPER,L	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	4
		MEA UNIT-F DR	SCREW-TAPTITE:PWH,+,B,M3,L10NI PLT, SWRCH18A	1

No.	SEC_Code	Location	Description & Specification	QT'y
		MEA UNIT-REGIF	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		MEA UNIT-REGIR	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		HOLDER_CST_R	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		HOLDER_FEED_MP	SCREW-TAPTITE:PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		UNITMP	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		UNIT_BASE_PLATE_R	SCREW-TAPTITE:PWH,+,B,M3,L10,NI PLT, SWRCH18A	5
		UNIT_HOLDER_PAD	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		BRACKET_ARM_FR	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		GUIDE_PICKUP_BASE	SCREW-TAPTITE:PWH,+,B,M3,L10,NI PLT, SWRCH18A	3
		SPEAKER	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		HOUSING_BASE_LEFT:3	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	3
		PBA DADF	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		COVER-EXIT BRK	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		COVER-EXIT REAR	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		COVER-FRONT ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		COVER-PANEL MFP	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		COVER-UPPER ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	5
		DRIVE-FUSER	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		DRIVE-MAIN	SCREW-TAPTITE:PWH,+,B,M3,L10,NI PLT, SWRCH18A	7
		EXIT-ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		LSU GND	SCREW-TAPTITE:PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		OPE ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	3
		SDE-COVER ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
S4 (BH Short)	6003-000269	BASE FRAME+MANFRAME	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	5
		CAP_INLET	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		GROUND_FUSER	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1

No.	SEC_Code	Location	Description & Specification	QT'y
		GROUNND_DRV	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		UNIT-SUPPORT	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	7
		VARISTOR	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		BASE PLATE_R	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		ELA FEED UPPER DP	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		GUIDE-P_SHIELD SMPS	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		GUIDE_FEED_UPPER	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	3
		HOUS_CST_SENSOR	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	3
		BRACKET_HANDLE_	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		BRACKET_HANDLE_L	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		GROUND_TOP	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		HOLDER_CST	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		BRACKET-P_JOINT BASE	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		HOUS_PICKUP	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	4
		PLATE_BEAM_BASE	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		CBF_HARNESS_GND	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		GROUND-P_SPRING SCAN	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		GUIDE_SHIELD_SMPS	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		PLATE_FINISHER_REAR	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	4
		SHIELD_MAIN LOWER	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	7
		(dadf motor)	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		duplex motor	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	2
		WHITE BAR	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		COVER-M BARRIER	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		HVPS	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	4
		IH + SHIELD ASSY	SCREW-TAPTITE:BH, +, -, S,M3,L6,ZPC (YEL), SWRCH 18A, -	5

No.	SEC_Code	Location	Description & Specification	QT'y
		IH ASSY	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC (YEL), SWRCH 18A,-	1
		MAIN BD	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC (YEL), SWRCH18A,-	5
		SMPS ASSY	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC (YEL), SWRCH18A,-	1
S5 (BH Long)	6003-001256	PLATE-P_FINISHER F	SCREW-TAPTITE:BH, +,B,M4,L 10,NI PLT, SWRCH 18A	2
		COVER-EXIT- BOTTOM	SCREW-TAPTITE;BH,+,B,M4,L10,NIPLT, SWRCH18A	2
		LSU ASSY	SCREW-TAPTITE:BH, +,B,M4,L10,NI PLT, SWRCH18A	4
		REAR COVER	SCREW-TAPTITE:BH, +,B,M4,L10,NI PLT, SWRCH18A	6
		SCAN-ASSY	SCREW-TAPTITE;BH, +,B,M4,L10,NI PLT, SWRCH18A	7
S6 (PH Long)	6006-001078	SMPS	SCREW-TAPTITE;WSP,PH,+,M3,L10,ZPC(YEL), SWRCH18A	4

5.2 Customer Replaceable Units

There are 3 replaceable Customer Replaceable Units (CRUs) on the machine:

- Toner Cartridge
- · Drum Cartridge
- Staples
- Fuser Unit

The machine will display a message on the touch screen when any of the above need to be reordered. This message is a warning that the unit is nearing the end of its life. Only replace the unit when a message actually instructs you to do so.

To replace a CRU, follow the instructions on the User Interface or refer to the relevant sections below.

CAUTION: When replacing consumables, DO NOT remove the covers or guards that are fastened with screws. You cannot maintain or service any of the parts that are behind these covers and guards. DO NOT attempt any maintenance procedure unless specifically described in the documentation supplied with your machine.

5.2.1 Toner Cartridge

This procedure shows you how to remove a used toner cartridge and replace it with a new toner cartridge.

New toner cartridges have a capacity of approximately 20,000 images with an average area coverage of ISO19752 Std.. The machine will indicate the percentage of toner used and the number of days remaining. When the notification message is enabled, the machine will tell you when you will need to order a new cartridge and when to fit it.

If the feature is enabled, a message will appear on the display screen advising you to replace the toner cartridge. If you want to replace the toner cartridge now, open the front door. The instructions on the screen will tell you how to fit a new cartridge.

If you do not want to replace the toner cartridge now you can select the Abort button. The machine will continue to operate but will NOT make copies or prints.

1. Open the right side cover



2. Open the front cover.

3. Turn the locking lever clockwise



4. Lift the latch to release the toner cartridge and remove the used toner cartridge.



The instructions that are packed with the new toner cartridge will tell you how to dispose of the used toner cartridge.

WARNING: Only install the correct samsung Toner Cartridge in the machine.

5. Before unpacking the new toner cartridge, shake well to distribute the toner. Remove from packaging.

6. To fit the new toner cartridge, slide the top of the cartridge into the grooves at the top of the cartridge slot.





- 7. Turn the locking lever counter-clockwise.
- 8. Close the front cover.
- 9. Close the right side door.
- 10.Press the Confirm button on the machine display.



If after fitting a new toner cartridge the front door will not close, check that the toner cartridge is positioned and latched correctly.

If you have replaced the toner cartridge as a result of a "Replace the Toner Cartridge" message on the machine display, the machine will assume that you have fitted a new cartridge and reset the toner usage counters and messages.

If, however, you have fitted a new toner cartridge without being instructed to do so by the machine display, the toner usage counters will need to be reset manually. This is done in the Access tools mode using the Supplies Management - Toner Cartridge Re-order Notification feature.

5.2.2 Replacing the Drum Cartridge

This procedure shows you how to remove a used Drum Cartridge and replace it with a new one.

Depending on the type of Drum Cartridge, approximately 60,000 images are provided. The machine will tell you when you need to order a new cartridge and when to replace the cartridge.

The Drum Cartridge can be recycled so please follow the disposal instructions you receive with the new items.

▲ WARNING: Remove the toner cartridge before attempting to remove the ^M Drum Cartridge.

1. Open the right side cover.



- 2. Open the front cover.
- 3. Turn the locking lever clockwise.



4. Lift the latch to release the toner cartridge and remove the toner cartridge.



5. Squeeze the retaining clip and remove the used SMart Kit [™] Drum Cartridge.



6. Hold the empy Drum Cartridge away from you to avoid spilling any toner residue and dispose of it according to the instructions contained in the new Drum Cartridge box.

WARNING: Only install the correct samsung Drum Cartridge in the machine.

- 7. Unpack the new Drum Cartridge.
- 8. Remove the protective paper and seal tape from the cartridge.
- 9. Slide the Drum Cartridge into the frame in the machine.
- 10.Replace the toner cartridge (see above).



- 11. Rotate the latch to lock the cartridge in place. Close the front door. If the front door will not close, check that the Drum Cartridge is positioned and latched correctly.
- 12.Close the side door.
- 13. Press the Confirm button on the machine display.

5.2.3 Staples

This procedure shows you how to remove a used staples unit and replace it with a new staples unit. The machine will tell you when you need to order a new cartridge and when to replace the cartridge.

1. Open front left cover.





Staples Unit

2. Use the latch to pull out the staples unit. Remove the staples unit.



3. Lift the empty staple pack from the staple unit.

WARNING: Ensure that you have the correct Staples unit for yourforachine addhite for similar samsung machines may look the same but WILL MOLLWORK/ORK.

- 4. Unpack the new staples pack.
- 5. Place staples pack back into the staples unit.
- 6. Ensure the unit is the correct way up. Slide the staples unit securely into the machine.
- 7. Close the front left cover.





5.2.4 Fuser Unit

1. Open the side door.



2. Remove the four screw and take out Fuser Unit.





5.3 General Disassembly

5.3.1 Cover



1. Unplug the finisher harness connector.



2. Open front left cover.



3. Remove the finisher on machine.



4. Remove the screw cap of the side cover.



5. Remove the screw of the side cover.

6. Take out the frame case.



7. Frame to the case, shown below.





8. Open the side duplex cover.



9. Remove the cassette tray.







11. Remove the two scres securing the Deve cover.



12. Frame to the case, shown below.



13. Remove the two screws.







15. Remove the five screws securing the rear cover ass' y.



16. Take off the rear cover ass' y.



17. Frame to the case, shown below.



5.3.2 Finisher Ass'y

1. Pull the connector from the SET.



2. Pull the Finisher carefully from the SET with pushing the latch.



3. Release the stacker from the Finisher in the direction of arrow.



4. Use the latch to replace the staple unit





5.3.3 DADF Ass'y

1. Remove the one screw, and pull the cover in the direction of big arrow with releasing the hook in the direction of small arrow.



2. Pull the Scanner from the SET in the direction of arrow.



5.3.4 Platen Cover Ass'y

1. Remove the two screws, and pull the stacker cover.



2. Remove the two screws after pulling the Cassette.



3. Open the front cover and remove the two screws.



4. Remove the four screws.





6. Remove the three screws and unplug the three connectors.





5.3.5 Fax Unit

1. Remove the two screws, and pull the FAX from the SET.



5.3.6 PBA(Main BOARD)

- 1. Remove the one screw and pull the USB board.
- 3. Unplug the connectors from the main board and remove five screws.



2. Unplug the hook and pull the sub board.



5.3.7 PBA(SMPS & IH board)

1. Remove the one screw.



2. Pull the SMPS and unplug the connectors.

3. Remove the one screw, and pull the cover in the direction of arrow.



4. Remove the one screw, unplug the connectors and pull the IH board.





5.3.8 Transfer Roller

1. Push the latch in the two directions and pull the Transfer Roller.



5.3.9 Exit Roller

1. Remove the five screws and the exit cover.



2. Remove the four screws and pull the Exit Ass' y in the direction of arrow.



5.3.10 LSU Unit

1. Remove the six screws (including one ground screw) and pull the LSU in the direction of arrow.



5.3.11 Drive-Exit Ass'y

- 1. Pull the fan in the direction of arrow.
- 2. Remove the four screws and unplug the threw connector from the motors.
- 3. Pull the Drive-Exit Ass'y in the direction of arrow.



5.3.12 Drive-Main Ass' y

- 1. Unplug the mold e-ring and pull the three clutch.
- 2. Remove the duct and unplug the two connectors (main motor, dc motor).
- 3. Remove the seven screws and pull the Drive-Main Ass' y in the direction of arrow.



5.3.13 MP Ass'y

1. Remove the one screw, and release the one gear and press in the yellow circle.



2. Remove the one screw and friction pad.

3. Remove the two screws.





4. Release the MP Ass'y from the SET in the direction of arrow.


5.3.14 Engine Parts

- 1. Before you remove the Engine Parts, you should remove:
 - Cover Parts (Refer to 5.3.1)
- 2. Open the Side Duplex Cover.



3. Release the Transfer Roller, as shown below.



4. Remove the five screws securing the Upper Cover Unit, as shown below.



5. Lift the Upper Cover Unit.



6. Remove the four screws securing the Exit Ass'y, as shown below.



7. Lift the Exit Ass'y.



8. Remove the four screws securing the LSU and then remove the one screw securing the Ground Cable, as shown below.



9. Lift the LSU.



10. Remove the four screws securing the Fuser Drive and then pull the Duct(with Fan), as shown below.



11. Remove the Fuser Drive.



12. Remove the three Fixer securing the Clutchs and then pull the all Clutchs, as shown below.



13. Remove the seven screws securing the Main Drive, as shown below.



14. First release the Harness from the Cable Clamp, and then remove the Main Drive, as shown below.



15. Pull the Damper Units securing the both side of the Side Duplex Cover in the direction of arrow, as shown below.



16. Apply light pressure to the both side of the Side Duplex Cover and pull it in the direction of arrow, as shown below.



17. Remove the one screw securing the Bracket and remove it. Then release the Harness from the Cable Clamp.



18. Remove the one screw securing the Holder Pad Unit and remove it.



19. Remove the four screws securing the MP Unit.



20. First lift the MP Unit, and then pull it in the direction of arrow, as shown below.



21. First turn over the frame, and then release the three Rollers, as shown below.



6. Troubleshooting

6.1 Procedure of Checking the Symptoms

Before attempting to repair the printer first obtain a detailed description of the problem from the customer.



6.2 Solution

The following chart lists some conditions that may occur and the recommended solutions. Follow the suggested solutions until the problem is corrected. If the problem persists, please call for service.

6.2.1 Paper feeding problems

Condition	Suggested solutions
Paper is jammed during printing.	Clear the paper jam.
Paper sticks together.	• Ensure that there is not too much paper in the tray. The tray can hold up to 550 sheets of paper, depending on the thickness of your paper.
	 Make sure that you are using the correct type of paper.
	 Remove paper from the tray and flex or fan the paper.
	Humid conditions may cause some paper to stick together.
Multiple sheets of paper do . not feed	• Different types of paper may be stacked in the tray. Load paper of only one type, size, and weight.
	 If multiple sheets have caused a paper jam, clear the paper jam.
Paper does not feed into	 Remove any obstructions from inside the machine.
the machine.	 Paper has not been loaded correctly. Remove paper from the tray and reload it correctly.
	 There is too much paper in the tray. Remove excess paper from the tray.
	• The paper is too thick. Use only paper that meets the specifications required by the machine.
	 If an original does not feed into the machine, the DADF rubber pad may require to be replaced. Contact a service representative.
The paper keeps jamming.	 There is too much paper in the tray. Remove excess paper from the tray. If you are printing on special materials, use the multi-purpose tray.
	 An incorrect type of paper is being used. Use only paper that meets the specifi- cations required by the machine.
	 There may be debris inside the machine. Open the front cover and remove the debris.
	 If an original does not feed into the machine, the DADF rubber pad may require to be replaced. Contact a service representative.
Transparencies stick together in the paper exit.	Use only transparencies specifically designed for laser printers. Remove each transparency as it exits from the machine.
Envelopes skew or fail to feed correctly.	Ensure that the paper guides are against both sides of the envelopes.

6.2.2 Printing problems

Condition	Possible cause	Suggested solutions	
The machine does not print.	The machine is not receiving power.	Check the power cord connections. Check the power switch and the power source.	
	The machine is not selected as the default printer.	Select Samsung SCX-6x45 Series PCL 6 as your default printer in your Windows.	
	Check the machine for the following: • The front cover is not closed. Close the cover. • Paper is jammed. Clear the paper jam. • No paper is loaded. Load paper. • The toner cartridge is not installed. Install the toner cartridge. If a system error occurs, contact your service representative.		
	The connection cable between the computer and the machine is not connected properly.	Disconnect the printer cable and reconnect it.	
	The connection cable between the computer and the machine is defective.	If possible, attach the cable to another computer that is working properly and print a job. You can also try using a different printer cable.	
	The port setting is incorrect.	Check the Windows printer setting to make sure that the print job is sent to the correct port. If the computer has more than one port, make sure that the machine is attached to the correct one.	
	The machine may be configured incorrectly.	Check the printer properties to ensure that all of the print settings are correct.	
	The printer driver may be incorrectly installed.	Repair the printer software. See the Software Section.	
	The machine is malfunctioning.	Check the display message on the control panel to see if the machine is indicating a system error.	
The machine selects print materials from the wrong paper source.	The paper source selection in the printer properties may be incorrect.	For many software applications, the paper source selection is found under the Paper tab within the printer properties. Select the correct paper source. See the printer driver help screen.	
A print job is extremely slow.	The job may be very complex.	Reduce the complexity of the page or try adjusting the print quality settings.	
	If you are using Windows 98/Me, the Spool Setting may be set incorrectly.	From the Start menu, choose Settings and then Printers. Right-click the Samsung SCX-6x45 Series PCL 6 machine icon, choose Properties, click the Details tab, and then choose the Spool Settings button. Select the desired spool setting.	

Condition	Possible cause	Suggested solutions
Half the page is blank.	The page orientation setting may be incorrect.	Change the page orientation in your application. See the printer driver help screen.
	The paper size and the paper size settings do not match.	Ensure that the paper size in the printer driver settings matches the paper in the tray. Or, ensure that the paper size in the printer driver settings matches the paper selection in the software application settings you use.
The machine prints, but the text is wrong, garbled, or incomplete.	The printer cable is loose or defective.	Disconnect the printer cable and reconnect. Try a print job that you have already printed successfully. If possible, attach the cable and the machine to another computer and try a print job that you know works. Finally, try a new printer cable.
	The wrong printer driver was selected.	Check the application's printer selection menu to ensure that your machine is selected.
	The software application is malfunctioning.	Try printing a job from another application.
	The operating system is malfunctioning.	Exit Windows and reboot the computer. Turn the machine off and then back on again.
Pages print, but are blank.	The toner cartridge is defective or out of toner.	Redistribute the toner, if necessary. If necessary, replace the toner cartridge.
	The file may have blank pages.	Check the file to ensure that it does not contain blank pages.
	Some parts, such as the controller or the board, may be defective.	Contact a service representative.
When you are using Windows 98, the illustrations print incorrectly from Adobe Illustrator.	The setting in the software application is wrong.	Select Download as Bit Image in the Advanced Options window of the graphic properties and print the document again.
PDF file does not print correctly- some parts are missing in graphics, text or illustrations.	Incompatibility between the PDF file and the Acrobat products.	Printing the PDF file as an image may enable the file to print. Turn on Print As Image from the Acrobat printing options. Note: It Will take longer to print when you print a PDF file as an image.

6.2.3 Printing quality problems

Condition	Suggested solutions
Light or faded print AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If a vertical white streak or faded area appears on the page: The toner supply is low. You may be able to temporarily extend the toner cartridge life. If this does not improve the print quality, install a new toner cartridge. The paper may not meet paper specifications; for example, the paper is too moist or too rough. If the entire page is light, the print resolution setting is too low or the toner save mode is on. Adjust the print resolution and turn the toner save mode off. A combination of faded or smeared defects may indicate that the toner cartridge needs cleaning. Contact a service representative. The surface of the LSU part inside the machine may be dirty. Clean the LSU, contact a service representative.
Toner specks AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 The paper may not meet specifications; for example, the paper is too moist or too rough. The transfer roller may be dirty. Clean the inside of your machine. Contact a service representative. The paper path may need cleaning. Contact a service representative.
Dropouts AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If faded areas, generally rounded, occur randomly on the page: A single sheet of paper may be defective. Try reprinting the job. The moisture content of the paper is uneven or the paper has moist spots on its surface. Try a different brand of paper. The paper lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different kind or brand of paper. If these steps do not correct the problem, contact a service representative.
Vertical lines AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If black vertical streaks appear on the page: The drum inside the printer has probably been scratched. Remove the drum cartridge and install a new one. If white vertical streaks appear on the page: The surface of the LSU part inside the machine may be dirty. Clean the LSU. Contact a service representative.

Condition	Suggested solutions
Gray background AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If the amount of background shading becomes unacceptable: Change to a lighter weight paper. Check the machine's environment: very dry (low humidity) or high humidity (higher than 80% RH) conditions can increase the amount of background shading. Remove the old drum and toner cartridge and then, install a new one.
Toner smear AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 Clean the inside of the machine. Contact a service representative. Check the paper type and quality. Remove the drum and toner cartridge and then, install a new one. See page 9.4.
Vertical repetitive defects AaBbCc_ AaBbCc_ AaBbCc_ AaBbCc_ AaBbCc_	 If marks repeatedly appear on the printed side of the page at even intervals: The drum and toner cartridge may be damaged. If a repetitive mark occurs on the page, print a cleaning sheet several times to clean the cartridge; contact a service representative. After the printout, if you still have the same problems, remove the drum and toner cartridge and then, install a new one. Parts of the machine may have toner on them. If the defects occur on the back of the page, the problem will likely correct itself after a few more pages. The fusing assembly may be damaged. Contact a service representative.
Background scatter	 Background scatter results from bits of toner randomly distributed on the printed page. The paper may be too damp. Try printing with a different batch of paper. Do not open packages of paper until necessary so that the paper does not absorb too much moisture. If background scatter occurs on an envelope, change the printing layout to avoid printing over areas that have overlapping seams on the reverse side. Printing on seams can cause problems. If background scatter covers the entire surface area of a printed page, adjust the print resolution through your software application or the printer properties.
Misformed characters AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If characters are improperly formed and producing hollow images, the paper stock may be too slick. Try a different paper. If characters are improperly formed and producing a wavy effect, the scanner unit may need service. For service, contact a service representative.

Condition	Suggested solutions
Page skew AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 Ensure that the paper is loaded properly. Check the paper type and quality. Ensure that the paper or other material is loaded correctly and the guides are not too tight or too loose against the paper stack.
Curl or wave AaBbCC AaBbCC AaBbCC AaBbCC AaBbCC AaBbCC	 Ensure that the paper is loaded properly. Check the paper type and quality. Both high temperature and humidity can cause paper curl. Turn over the stack of paper in the tray. Also try rotating the paper 180° in the tray.
Wrinkles or creases AabbCc AabbCc AabbCc AabbCc AabbCc AabbCc	 Ensure that the paper is loaded properly. Check the paper type and quality. Turn over the stack of paper in the tray. Also try rotating the paper 180° in the tray.
Back of printouts are dirty AaBbCc AaBbCc AaBbCc AaBbCc IBbCc	Check for leaking toner. Clean the inside of the machine. Contact a service representative.
Black pages	 The drum cartridge may not be installed properly. Remove the cartridge and reinsert it. The drum cartridge may be defective and need replacing. Remove the drum cartridge and install a new one. The machine may require repair. Contact a service representative.

Condition	Suggested solutions
Loose toner AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc Aa	 Clean the inside of the machine. Contact a service representative. Check the paper type and quality. Remove the drum and toner cartridge and then, install a new one. If the problem persists, the machine may require repair. Contact a service representative.
Character Voids	 Character voids are white areas within parts of characters that should be solid black: If you are using transparencies, try another type of transparency. Because of the composition of transparencies, some character voids are normal. You may be printing on the wrong surface of the paper. Remove the paper and turn it around. The paper may not meet paper specifications.
Horizontal stripes AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	 If horizontally aligned black streaks or smears appear: The drum and toner cartridge may be installed improperly. Remove the cartridge and reinsert it. The drum and toner cartridge may be defective. Remove the toner cartridge and install a new one. If the problem persists, the machine may require repair. Contact a service representative.
Curl AaBbCc AaBbCc AaBbCc	If the printed paper is curled or paper does not feed into the machine: • Turn over the stack of paper in the tray. Also try rotating the paper 180° in the tray.
An unknown image repetitively appears on a next few sheets or loose toner, light print, or contamination occurs.	You printer is probably being used at an altitude of 2,500 m(8,200 ft)or above. The high altitude may affect the print quality such as loose toner or light imaging. You can set this option through Printer Settings Utility or Printer Tab in printer driver's properties. Refer to the Software Section for detail.

6.2.4 Copying problems

Condition	Suggested solutions
Copies are too light or too dark.	Use Darkness to darken or lighten the background of the copies.
Smears, lines, marks, or spots appears on copies.	 If defects are on the original, press Darkness to lighten the background of your copies.
	 If no defects are on the original, clean the scan unit.
Copy image is skewed.	 Ensure that the original is face down on the scanner glass or face up in the DADF.
	Check that the copy paper is loaded correctly.
Blank copies print out.	Ensure that the original is face down on the scanner glass or face up in the DADF.
Image rubs off the copy easily.	 Replace the paper in the tray with paper from a new package.
	 In high humidity areas, do not leave paper in the machine for extended periods of time.
Frequent copy paper jams occur.	 Fan the stack of paper, then turn it over in the tray. Replace the paper in the tray with a fresh supply. Check/adjust the paper guides, if necessary.
	 Ensure that the paper is the proper paper weight. 75 g/m 2 bond paper is recommended.
	 Check for copy paper or pieces of copy paper remaining in the machine after a paper jam has been cleared.
Toner cartridge produces fewer copies than expected before running out of toner.	 Your originals may contain pictures, solids, or heavy lines. For example, your originals may be forms, newsletters, books, or other documents that use more toner.
	 The machine may be turned on and off frequently. The scanner lid may be left open while copies are being made
	The sources in they be left open while copies are being made.

6.2.5 Scanning problems

Condition	Suggested solutions
The scanner does not work.	 Make sure that you place the original to be scanned face down on the scanner glass, or face up in the DADF.
	 There may not be enough available memory to hold the document you want to scan. Try the Prescan function to see if that works. Try lowering the scan resolu- tion rate.
	 Check that the USB or parallel cable is connected properly.
	 Make sure that the USB or parallel cable is not defective. Switch the cable with a known good cable. If necessary, replace the cable.
	 If you are using a parallel cable, ensure that it is compliant with IEEE 1284 stan- dards.
	• Check that the scanner is configured correctly. Check scan setting in the SmarThru Configuration or the application you want to use to make certain that the scanner job is being sent to the correct port.
The unit scans very slowly.	 Check if the machine is printing received data. If so, scan the document after the received data has been printed.
	 Graphics are scanned more slowly than text.
	 Communication speed slows in scan mode because of the large amount of memory required to analyze and reproduce the scanned image. Set your computer to the ECP printer mode through BIOS setting. It will help to increase the speed. For details about how to set BIOS, refer to your computer user's guide.
Message appears on your computer screen:	 There may be a copying or printing job in progress. When that job is complete, try your job again.
 "Device can't be set to the H/W mode you want." 	The Selected port is currently being used. Restart your computer and try again.
 "Port is being used by another program." 	• The printer cable may be improperly connected or the power may be off. You must use a parallel cable that supports IEEE 1284 bi-directional communica-
"Port i s Disabled."	tions.
 "Scanner is busy receiving or printing data. When the current 	 The scanner driver is not installed or the operating environment is not set up properly.
 Job is completed, try again." "Invalid handle " 	 Ensure that the machine is properly connected and the power is on. Then restart your computer.
 "Scanning has failed." 	• The USB cable may be improperly connected or the power may be off.
	 Do not use parallel and USB cables at the same time.

6.2.6 Network Scan problems

Condition	Suggested solutions
I cannot find a scanned	You can check the scanned file's destination in the Advanced page in the Network Scan program's Properties screen
	Network Ocan program's i ropenies screen.
I cannot find the scanned	 Check if the scanned file's application is on your computer.
image file after scanning.	 Check Send image immediately to the specified folder using an associated default application in the Advanced page in the Network Scan program's Properties screen to open the scanned image immediately after scanning.
I forgot my ID and PIN.	Check your ID and PIN in the Server page in the Network Scan program's Properties screen.
I cannot view the Help file.	To view the Help file, you need to have Internet Explorer 4 service pack 2 or above.
I cannot use the Samsung Network Scan Manager	Check your operating system. Supporting operating systems are Windows 98/Me/NT 4.0/2000/XP/2003.

6.2.7 Fax problems

Condition	Suggested solutions
The machine is not working, there is no display and the buttons are not working.	Unplug the power cord and plug it in again.Ensure that there is power to the electrical outlet.
No dial tone sounds.	Check that the phone line is connected properly.Check that the phone socket in the wall is working by plugging in another phone.
The numbers stored in memory do not dial correctly.	Make sure that the numbers are stored in memory correctly. Print a Phone Book list.
The original does not feed into the machine.	 Make sure that the paper is not wrinkled and you are putting it in correctly. Check that the original is the right size, not too thick or thin Make sure that the DADF is firmly closed. The DADF rubber pad may need to be replaced. Contact a service representative.
Faxes are not received automatically.	 The receiving mode should be set to Fax. Make sure that there is paper in the tray. Check to see if the display shows any error message. If it does, clear the problem.
The machine does not send.	 Make sure that the original is loaded in the DADF or on the scanner glass. Sending should show up on the display. Check the fax machine you are sending to, to see if it can receive your fax.
The incoming fax has blank spaces or is of poor-quality.	 The fax machine sending you the fax may be faulty. A noisy phone line can cause line errors. Check your machine by making a copy. The toner cartridge may be empty. Replace the toner cartridge.
Some of the words on an incoming fax are stretched.	The fax machine sending you the fax had a temporary document jam.
There are lines on the originals you send.	Check your scan unit for marks and clean it.
The machine dials a number, but a connection with the other fax machine fails.	The other fax machine may be turned off, out of paper, or cannot answer incoming calls. Speak with the other machine operator and ask her/him to sort out the problem.
Faxes do not store in memory.	There may not be enough memory space to store the fax. If the display shows the Memory Full message, delete from memory any faxes you no longer need and then try again to store the fax.
Blank areas appear at the bottom of each page or on other pages, with a small strip of text at the top.	You may have chosen the wrong paper settings in the user option setting. For details about paper settings.

6.2.8 Common Windows problems

Condition	Suggested solutions
"File in Use" message appears during installation.	Exit all software applications. Remove all software from the StartUp Group, then restart Windows. Reinstall the printer driver.
"Error Writing to LPTx" message appears.	 Ensure that the cables are connected correctly, the machine is on. If bi-directional communication is not turned on in the driver, it will also cause this message.
"General Protection Fault", "Exception OE", "Spool32", or "Illegal Operation" messages appear.	Close all other applications, reboot Windows and try printing again.
"Fail To Print", "A printer timeout error occurred." messages appear.	These messages may appear during printing. Just keep waiting until the machine finishes printing. If the message appears in standby mode or after printing has been completed, check the connection and/or whether an error has occurred.

6.2.9 Common PostScript problems

The following situations are PS language specific and may occur when several printer languages are being used.

Problem	Possible Cause	Solution
PostScript file cannot be printed.	The PostScript driver may not be installed correctly.	 Install the PostScript driver, referring to the Software Section. Print a configuration page and verify that the PS ver- sion is available for printing. If the problem persists, contact a service representative.
"Limit Check Error" message appears.	The print job was too complex.	You might need to reduce the complexity of the page or install more memory.
A PostScript error page prints.	The print job may not be PostScript.	Make sure that the print job is a PostScript job. Check to see whether the software application expected a setup or PostScript header file to be sent to the machine.
The optional tray 2 is not selected in the driver.	The printer driver has not been configured to recognize the optional tray 2.	Open the PostScript driver properties, select the Device Settings tab, and set the Tray2 option of the Installable Options section to Installed.
When print a document in Macintosh with Acrobat Reader 6.0 or higher, colors print incorrectly.	The resolution setting in the printer driver may not be matched with that in Acrobat Reader.	Make sure that the resolution setting in your printer driver matches that in Acrobat Reader.

6.2.10 Common Linux problems

Problem	Possible Cause and Solution
The machine does not print	 Check if the printer driver is installed in your system. Open Unified Driver configurator and switch to the Printers tab in Printers configuration window to look at the list of available printers. Make sure that your machine is displayed on the list. If not, please, invoke Add new printer wizard to set up your device. Check if the printer is started. Open Printers configuration and select your machine on the printers list. Look at the description in the Selected printer pane. If its status contains "(stopped)" string, please, press the Start button. After that normal operation of the printer should be restored. The "stopped" status might be activated when some problems in printing occurred. For instance, this could be an attempt to print document when port is claimed by a scanning application. Check if the port is not busy. Since functional components of MFP (printer and scanner) share the same I/O interface (port), the situation of simultaneous access of different "consumer" application to the same port is possible. To avoid possible conflicts, only one of them at a time is allowed to gain control over the device. The other "consumer" will encounter "device busy" response. You should open ports configuration and select the port assigned to your printer. In the Selected port pane you can see if the port is occupied by some other application. If this is the case, you should wait for completion of the current job or should press Release port button, if you are sure that the present owner is not functioning properly. Check if your application has special print option such as "-oraw". If "-oraw" is specified in the command line parameter then remove it to print properly. For Gimp front-end, select "print" -> "Setup printer" and edit command line parameter in the command line.
The machine does not appear on the scanners list	 Check if your machine is attached to your computer. Make sure that it is connected properly via the USB port and is turned on. Check if the scanner driver for your machine is installed in your system. Open Unified Driver configurator, switch to Scanners configuration, then press Drivers. Make sure that driver with a name corresponding to your machine's name is listed in the window. Check if the port is not busy. Since functional components of MFP (printer and scanner) share the same I/O interface (port), the situation of simultaneous access of different "consumer" application to the same port is possible. To avoid possible conflicts, only one of them at a time is allowed to gain control over the device. The other "consumer" will encounter "device busy" response. This can usually happen while starting scan procedure, and appropriate message box appears. To identify the source of the problem, you should open ports configuration and select the port assigned to your scanner. port's symbol /dev/mfp0 corresponds to LP:0 designation displayed in the scanners' options, /dev/mfp1 relates to LP:1 and so on. USB ports start at / dev / mfp4, so scanner on USB:0 relates to / dev / mfp4 respectively and so forth sequentially. In the Selected port pane you can see if the port is occupied by some other application. If this is the case, you should wait for completion of the current job or should press Release port button, if you are sure that the present port's owner is not functioning properly.

Problem	Possible Cause and Solution
The machine does not scan	 Check if a document is loaded into the machine. Check if your machine is connected to the computer. Make sure if it is connected properly if I/O error is reported while scanning. Check if the port is not busy. Since functional components of MFP (printer and scanner) share the same I/O interface (port), the situation of simultaneous access of different "consumer" application to the same port is possible. To avoid possible conflicts, only one of them at a time is allowed to gain control over the device. The other "consumer" will encounter "device busy" response. This can usually happen while starting scan procedure, and appropriate message box will be displayed. To identify the source of the problem, you should open ports configuration and select the port assigned to your scanner. port's symbol /dev/mfp0 corresponds to LP:0 designation displayed in the scanners' options, /dev/mfp1 relates to LP:1 and so on. USB ports start at /dev/ mfp4, so scanner on USB:0 relates to / dev/mfp4 respectively and so forth sequentially. In the Selected port pane you can see if the port is occupied by some other application. If this is the case, you should wait for completion of the current job or should press Release port button, if you are sure that the present port's owner is not functioning properly.
I cannot scan via Gimp Front- end.	 Check if Gimp Front-end has "Xsane: Device dialog." on the "Acquire" menu. If not, you should install Xsane plug-in for Gimp on the your computer. You can find Xsane plug-in package for Gimp on Linux distribution CD or Gimp home page. For the detail information, refer to the Help for Linux distribution CD or Gimp Front-end application. If you wish to use other kind of scan application, refer to the Help for application.
I encounter error "Cannot open port device file" when printing a document.	Please avoid changing print job parameters (via LPR GUI, for example) while a print job is in progress. Known versions of CUPS server break the print job whenever print options are changed and then try to restart the job from the beginning. Since Unified Linux Driver locks port while printing, the abrupt termination of the driver keeps the port locked and therefore unavailable for subsequent print jobs. If this situation occurred, please, try to release the port.
I encounter error "Cannot open port devicaPDF file does not print correctly-some parts are missing in graphics, text or illustrations.e file" when printing a document.	Incompatibility between the PDF file and the Acrobat products. Printing the PDF file as an image may enable the file to print. Turn on Print As Image from the Acrobat printing options. Note: It Will take longer to print when you print a PDF file as an image.
The machine does not print.	The CUPS (Common Unix Printing System) version distributed with SuSE Linux 9.2 (cups-1.1.21) has a problem with ipp (Internet Printing Protocol) printing.

6.2.11 Common Macintosh problems

Problem	Possible Cause and Solution
PDF file does not print correctly-some parts are missing in graphics, text or illustrations.	Incompatibility between the PDF file and the Acrobat products. Printing the PDF file as an image may enable the file to print. Turn on Print As Image from the Acrobat printing options. Note: It Will take longer to print when you print a PDF file as an image.
The document has printed, but the print job has not disappeared from the spooler in Mac OS 10.3.2.	Update your Mac OS to OS 10.3.3. or higher.
Some letters are not displayed normally during the Cover page printing.	This problem is caused because Mac OS can not create the font during the Cover page printing. English alphabet and numbers are displayed normally at the Cover page.

6.2.12 General solution

Error	LCD NOT DISPLAY
[Description]	Engine is warming up properly but LCD does not display anything on.
[Wrong Part]	1. Main Controller 2. OPE 3. SMPS
[Check and Cause]	 Check 24V on Main controller. If 24V from Main controller is normal, Check the CCFL inverter harness on PE_Main. If not, check the F 71 on SMPS.
[Solution]	 24V power and CCFL inverter harness connection are on normal, replace OPE_Main first and retry. Keep on problem with 24V on, replace the Main controller. Replace the SMPS.

Error	LSU Error
[Description]	LSU sync Error displays on LCD
[Wrong Part]	 Drum Cartridge Main Controller Cover Open Connector
[Check and Cause]	 Check LSU 5V/24VS Main Controller LSU Part defect Micro Switch Harness
[Solution]	 Replace Drum Cartridge and retry Replace Main Controller. Replace Micro Switch Assy

Error	Cover Open
[Description]	The cover open massage displays on even when the print cover is closed.
[Wrong Part]	1. Hook Lever in the side cover / Micro Switch
[Check and Cause]	 The Hook Lever in the top cover may be defective. Check the CN8-4 on Main B°ØD and the micro switch on the rear side of set.
[Solution]	 Replace the hook lever, if defective. Check Cover Open harness. Replace Cover Open S/W Replace the Main Control board.

Error	Fuser
[Description]	Fuser Error
[Wrong Part]	1. Thermostat Open 2. Check IH Fan 3. IH PBA 4. Main PBA
[Check and Cause]	 Detach AC connector and measure the resistance between them whether it is below 10ohm. If it is over mega ohm, replace it. Replace IH Fan. Replace IH PBA Replace main PBA.

Error	Vertical Black Line and Black Band
[Description]	 Straight thin black vertical line occurs in the printing. Dark black vertical band occur in the printing.
[Wrong Part]	1. Cleaning blade 2. Charge roller
[Check and Cause]	 Damaged cleaning blade in the drum cartridge Contamination of the charge roller in the drum cartridge
[Solution]	1. If causes 1 and 2 occur in the drum Cartridge, replace the drum cartridge and try again to print out.

Error	Vertical White Line
[Description]	White vertical voids in the image.
[Wrong Part]	1. LSU 2. Drum Cartridge
[Check and Cause]	 Foreign matter stuck onto the window of internal lenses of LSU mirror. Foreign matter or toner particles between the magnetic roller and doctor blade. It may occur when Burr and foreign substances are on the window of the drum cartridge frame. If the fuser is defective, voids occur periodically at the top of a black image.
[Solution]	 Foreign matter stuck onto the window : Clean the LSU window with recommended cleaner(IPA) Clean the window with a clean cotton swab. Foreign matter in the LSU : Open the cover of LSU and clean with a cotton swab on the surface of the reflex mirror. No 3. : Remove the foreign matter and burr of the exposure window. (the drum cartridge frame) No. 4. : Open the front cover and check ribs that corresponds to the position of the voids. Remove if found. If the problems are not solved, replace the drum cartridge.

Error	Light Image
[Description]	1. The printed image is light, with no ghost.
[Wrong Part]	1. Drum Cartridge 2. HVPS
[Check and Cause]	 The state of low toner in drum cartridge when the toner of toner cartridge is almost consumed. Ambient temperature is below than 10 °C. Bad contact caused by the toner stains between the high voltage terminal in the HVPS and the one in the set. Abnormal output from the HVPS.
[Solution]	 Replace the drum cartridge and try to print out. Wait 30 minutes after printer is powered on before you start printing. Clean up the contaminated area by the toner. Replace the HVPS if the problems are not solved by the above four directions.

Error	Dark Image or black
[Description]	The printed image is dark.
[Wrong Part]	1. HVPS
[Check and Cause]	 No charge voltage in the HVPS board. Charge voltage is not turned on due to the bad contacts between power supply in the side of the drum cartridge and charge terminal of HVPS.
[Solution]	 Clean the high voltage charge terminal. Check the state of the connector which connects the engine board and HVPS. Replace the HVPS if not solved by the above direction 1 and 2.

Error	Background
[Description]	Light dark background appears in whole area of the printing.
[Wrong Part]	1. HVPS 2. Low Q/M of developer (High T/C of developer)
[Check and Cause]	 Does recycle paper be used? Has the life of the developer(carrier+toner) ended? Is the HVPS normal?
[Solution]	 The Drum cartridge is basically designed to print 60K sheets with simplex mode. If it prints more than 60K sheets, (around 50K sheets) a background can be occurred. The drum cartridge is not guaranteed if using recycle paper. Replace the drum cartridge when the life of it has been ended. Clean the bushing part of the transfer roller. If the problem is still not solved, replace the drum cartridge.

Error	Toner Supply Error
[Description]	The poor supply of toner in the printing.
[Wrong Part]	1. Toner feed roller 2. Toner supply DC motor
[Check and Cause]	 The state of rotation of toner feed roller Is the toner supply motor normal?
[Solution]	 Replace the toner cartridge. Replace the toner supply motor.

Error	RF_ID
[Description]	Drum Cartridge and Toner Container can't be detected
[Wrong Part]	1. RF_ID Coupler and Tag 2. Main PBA
[Check and Cause]	1.Check RF_ID Tag attached on Drum and Toner 2.Check the DEVE Harness and RF_ID coupler 3.Check Main PBA
[Solution]	 Replace Drum cartridge and Toner container Replace DEVE Harness and RF_ID coupler. Replace Main PBA

Error	Smart Panel not support		
[Description]	Smart Panel only supports USB and Network port.		
[Check and Cause]	 If file is printer port, smart panel show below warning message when user try to launch smart panel. Also printer name is not displayed in the menu of tray icon. 		
	Error Install Supported driver or port.	imart Panel Options	
		rincer secong Froubleshooting Guide Buy Now	
		lob Monitor Driver Setting	
		Exit	
[Solution]	If IP address or USB port name for model A is linked to printer p Panel for model B works improperly because model B is not co	port of model B, Smart	

6.2.13 Troubleshooting flowchart





No Display on LCD

















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5. Exploded Views and Parts List

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DIGITAL LASER MFP



The keynote of Product

The alternative of A3 copier models.

- 1. Print Speed:
 - · Simplex Print: Up to 45 ppm/Ltr, 43 ppm/A4 · Duplex Print: Up to 40 ppm/A4
- 2. Main Processor: SPGPv3(400MHz) + CIP4e
- 3. Device Memory(SDRAM):
 - · 256MB System Memory (FAX:16MB), Max. 384MB · Option : 128MB (DIMM Slot 1EA)
- 4. Toner(20K), Drum(60K)
- 5. Standard:
 - · Copy
 - Direct Print & N/W Print
 - · Direct Scan (USB)
 - · DADF
 - · HDD(40GB)
- 6. Option:
 - N/W Scan/OEK(Option Enable Key)
 - · FAX/Smart DAA, Single LIU
 - · SCF (550 sheet)
 - · Finisher with Stapler
 - · Ext. Memory: 256MB
 - · Stand: Short/Tall
- 7. Machine Life: 1,000K Pages
 - · Average Monthly Print Volume: 10K Pages

5.1 Main



Main Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.1-0	SCX-6345N	SET	SNA	-	
5.1-0	SCX-6345NJ	SET	SNA	-	
5.1-1	JC96-03552B	ELA HOU-FRAME MAIN	SA	A	
5.1-2	JC59-00025A	UNIT-LSU	SA	A	
5.1-3	JB39-00065A	CBF HARNESS-DRIVER GND	SNA	D	
5.1-4	JC96-03529A	ELA HOU-EXIT	SA	A	
5.1-5	JC96-03537A	ELA HOU-DRIVE FUSER	SA	A	
5.1-6	JC96-03528A	ELA HOU-DRIVE MAIN	SA	A	
5.1-7	JC66-00994A	CLUTCH-5K Z32	SA	В	
5.1-8	JC61-01367A	FIXER-M_E RING 4PI	SA	A	
5.1-9	JC96-03724A	ELA HOU-FUSER	SA	A	
5.1-10	-	ELA HOU-TONER	SNA	A	Sales
5.1-11	-	ELA HOU-DEVE UNIT	SNA	A	Sales
5.1-12	JC96-03553B	ELA HOU-DADF	SA	A	
5.1-13	JC96-03550B	ELA HOU-PLATEN	SA	A	
5.1-14	JC96-03746B	ELA HOU-BASE FRAME	SNA	A	
5.1-15	JC97-02273B	MEA UNIT-CASSETTE	SA	A	
5.1-16	JC63-00831A	SHIELD-P-BD INVERTER	SNA	A	
5.1-17	JC44-00113A	INVERTER-V1	SA	A	AC110
5.1-17	JC44-00114A	INVERTER-V2	SA	A	AC220
5.1-18	JC61-01309A	PLATE-P-FINISHER F	SNA	D	
5.1-19	JC63-00832A	SHIELD-P-SMPS LOWER	SNA	A	
5.1-20	JC44-00093A	SMPS-PSP_TYPE5_V1	SA	A	AC110
5.1-20	JC44-00100A	SMPS-PSP_TYPE5_V2C	SA	A	AC220
5.1-21	JC44-00103A	HVPS-JUNGFRAU	SA	A	
5.1-22	JC63-00827A	SHIELD-P-MAIN LOWER	SNA	D	
5.1-23	JC61-01310A	PLATE-P-SUPPORT SCAN	SNA	D	
5.1-24	JC63-00791A	GROUND-P-SPRING SCAN	SNA	A	
5.1-25	JC61-01311A	PLATE-P-FINISHER REAR	SNA	D	
5.1-26	JC61-01314A	GUIDE-P-SHIELD SMPS	SNA	D	
5.1-27	JC92-01690B	PBA MAIN-MFP	SA	A	SCX-6345N/XAA
5.1-27	JC92-01690D	PBA MAIN-MFP	SA	A	SCX-6345NJ/XAA
-	JC92-01930A	PBA SUB-JSCRIBE	SA	A	SCX-6345NJ/XAA
5.1-28	JC96-04081B	ELA HOU-FAX; Option Unit	SNA	-	
5.1-29	JC67-00113A	CAP-M_INLET	SNA	D	
5.1-30	JC61-00667A	STOPPER-M-FAN80	SA	A	
5.1-31	4302-001183	BATTERY-NIH(2ND)	SA	A	
5.1-32	JC39-00610A	HARNESS-POWER_SW	SA	D	
5.1-33	JC59-00026A	HDD-DISC_HARD	SA	D	
5.1-34	JC73-00215A	RUBBER-DAMPER HDD	SA	D	
5.1-35	JC61-01389A	HOLDER-M_HDD	SNA	A	
5.1-36	JC96-03969A	SIMM MODULE	SNA	-	
5.1-37	JC96-03659B	ELA HOU-NPC3_HIGH	SA	A	SCX-6345N/XAA

Main Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.1-37	JC96-03659C	ELA HOU-NPC3_HIGH	SA	A	SCX-6345NJ/XAA
5.1-37	JC96-04115B	ELA UNIT-NPC	SA	А	SCX-6345N/XAA
5.1-37	JC96-04115C	ELA UNIT-NPC	SA	A	SCX-6345NJ/XAA
5.1-38	JC61-01295A	PLATE-M_FEED UPPER	SA	D	
5.1-39	JC96-03557A	ELA HOU-MP	SA	A	
5.1-40	JC97-02260A	MEA UNIT-HOLDER PAD	SA	A	
5.1-40-1	JC61-01415A	GUIDE-M_PAD LOWER	SNA	D	
5.1-40-2	JC61-00013A	SPRING ETC-PAD	SNA	Α	
5.1-40-3	JC61-00744A	HOLDER-M-ADF RUBBER UPPER	SNA	В	
5.1-40-4	JC63-01085A	SHEET-GUIDE MP	SNA	D	
5.1-40-5	JB73-00052A	RMO-ADF RUBBER	SA	A	
5.1-40-6	JC73-00079A	RPR-SEAL SIDE	SA	D	
5.1-40-7	JC73-00235A	RUBBER-GUIDE MP	SA	D	
5.1-40-8	JC73-00141A	RPR-PAD CASSETTE	SA	A	
5.1-41	JC97-02285B	MEA UNIT-COVER	SNA	A	SCX-6345N/XAA
5.1-41	JC97-02285C	MEA UNIT-COVER	SNA	A	SCX-6345NJ/XAA
5.1-42	JC96-03525B	ELA HOU-SIDE DUPLEX	SA	D	
5.1-43	JC96-03530B	ELA HOU-SCF; Option Unit	SNA	Α	
5.1-44	JC97-02702A	MEA UNIT-ACT FEED	SA	A	
5.1-44-1	JC61-01426A	LEG-M_ACT FEED BASE	SA	D	
5.1-46	JC61-01421A	HOLDER-M_ACT_FEED	SA	D	
5.1-47	6107-001262	SPRING-TS	SNA	A	
5.1-45	JC97-02703A	MEA UNIT-ACT REGI	SA	A	
5.1-45-1	JC61-01408A	LEG-M_ACTUATOR REGI	SA	D	
5.1-46	JC61-01421A	HOLDER-M_ACT_FEED	SA	D	
5.1-47	6107-001262	SPRING-TS	SNA	A	
5.1-48	JC39-00344A	CBF HARNESS-SENSOR_IF	SA	D	
5.1-49	JC39-00546A	HARNESS-FUSER_FR	SA	D	
5.1-51	JC39-00611A	HARNESS-IH_AC	SA	Α	
5.1-52	JC39-00460A	HARNESS-SMPS	SA	A	
5.1-53	JC39-00469A	HARNESS-HVPS_IH	SA	A	
5.1-54	JC39-00544A	CBF HARNESS-HVPS(8P)	SA	D	
5.1-55	JC39-00545A	CBF HARNESS-HVPS(3P)	SA	D	
5.1-56	6502-000132	CABLE CLAMP	SA	A	
5.1-57	6502-000132	CABLE CLAMP	SA	A	
5.1-58	6103-000101	SUPPORTER	SNA	A	
5.1-59	JC61-01012A	GUIDEM_BUSH HARNESS S	SNA	A	
5.1-60	JC63-00728B	COVER-EXIT BRACKET	SA	Α	
5.1-61	JC96-03546C	ELA HOU-OPE	SNA	Α	SCX-6345N
5.1-61	JC96-03546V	ELA HOU-OPE	SNA	A	SCX-6345NJ
5.1-62	JC61-01406A	HOLDER-M_LIU	SA	Α	
5.1-63	JC63-01050A	COVER-M_BARRIER	SNA	A	
5.1-64	JC67-00164A	CAP-HOLE SCREW	SA	D	

Main Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.1-65	JC92-01568A	PBA SUB-AIR_TMP	SA	A	
5.1-66	JC96-03150A	ELA HOU-FDI OPTION	SNA	-	
5.1-67	JC92-01543A	PBA SUB-DIMM MODULE	SA	D	
5.1-68	JC39-00511A	CBF HARNESS-HDD	SA	D	
5.1-69	JC92-01698A	PBA ETC-HDD	SA	А	
5.1-70	6045-001009	SPACER-ROUND	SA	D	

5.2 Cover Unit



Cover Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.2-0	JC97-02285B	MEA UNIT-COVER	SNA	A	SCX-6345N
5.2-0	JC97-02285C	MEA UNIT-COVER	SNA	A	SCX-6345NJ
5.2-1	JC97-02258B	MEA UNIT-COVER TOP	SA	Α	
5.2-1-1	JC63-00731B	COVER-EXIT REAR	SA	A	
5.2-1-2	JC63-00739B	COVER-GUIDE STACKER	SNA	A	
5.2-1-3	6107-000014	SPRING-CS	SA	A	
5.2-1-4	JC63-00738B	COVER-EXIT STACKER	SNA	A	
5.2-1-5	6107-001262	SPRING-TS	SNA	A	
5.2-1-6	JC63-00737B	COVER-EXIT ST LOWER	SNA	A	
5.2-2	JC97-02706C	MEA UNIT-COVER FRONT	SA	Α	
5.2-2-1	JC63-00733B	COVER-FRONT INNER	SNA	A	
5.2-2-2	JC61-00961A	MAGNET-CATCH DELL	SNA	A	
5.2-2-3	JC63-00200B	COVER-FRONT	SA	A	
5.2-2-4	JC61-00962A	PLATE-MAGNET CATCH	SNA	A	
5.2-2-5	6044-000159	RING-C	SA	A	
5.2-2-6	JC68-01622B	LABEL-INSTALLATION	SNA	D	
5.2-2-7	JC68-01622B	LABEL-INSTALLATION	SNA	D	
5.2-2-8	JC68-01694B	LABEL-INSTRUCTION	SNA	В	
5.2-3	JC97-02274B	MEA UNIT-COVER UPPER	SA	A	
5.2-3-1	JC63-00734B	COVER-EXIT UPPER	SNA	A	
5.2-3-2	JC66-01019A	ROLLER-M EXIT DP IDLE	SA	A	
5.2-3-3	JC70-00064A	IPR-PIN ROLLER EXIT	SNA	A	
5.2-3-4	JC61-01353A	BRACKET-P-CHANNEL	SNA	A	
5.2-3-5	JC63-00740A	GROUND-P-OPE	SNA	D	
5.2-4	JC63-00728B	COVER-EXIT BRACKET	SA	A	
5.2-5	JC63-00727B	COVER-EXIT BOTTOM	SA	A	
5.2-6	JC63-00732C	COVER-PANEL MFP	SA	A	SCX-6345N
5.2-6	JC63-00732D	COVER-PANEL MFP	SA	A	SCX-6345NJ
5.2-7	JC63-00731B	COVER-EXIT REAR	SA	A	
5.2-8	JC97-02374B	MEA UNIT-COVER REAR	SA	A	
5.2-8-1	JC63-00729B	COVER-MAIN REAR	SNA	A	
5.2-8-2	JC63-00730B	COVER-REAR DUMMY	SNA	A	
5.2-8-3	JG61-40001A	FOOT-SF4000	SA	A	

5.3 Main Frame



Main Frame Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.3-0	JC96-03552B	ELA HOU-FRAME MAIN	SA	A	
5.3-1	JC61-01315A	FRAME-M_MAIN	SNA	D	
5.3-2	JC61-01360A	BRACKET-P-SUP SCAN F	SNA	D	
5.3-3	JC63-00801A	GROUND-P-OPE SIDE	SNA	D	
5.3-4	JC63-00802A	GROUND-P-OPC CONTACT	SNA	D	
5.3-5	JC61-01285A	HOLDER-P-FUSER	SNA	D	
5.3-6	JC97-02262A	MEA UNIT-REGI F	SA	A	
5.3-6-1	JC61-01355A	BRACKET-P-REGI F	SNA	D	
5.3-6-2	6107-001257	SPRING-ES	SA	D	
5.3-6-3	JC61-00884A	BUSH-6_D(L)	SNA	A	
5.3-7	6044-000125	RING-E	SA	A	
5.3-8	JC61-00426A	BUSH-8/5	SA	Α	
5.3-9	JC61-00423A	BUSH-6_D	SA	A	
5.3-10	JC66-01028A	ROLLER-IDLE REGI	SA	D	
5.3-11	JC97-02261A	MEA UNIT-REGI R	SA	A	
5.3-11-1	JC61-01356A	BRACKET-P-REGI R	SNA	D	
5.3-11-2	6107-001257	SPRING-ES	SA	D	
5.3-11-3	JC61-00884A	BUSH-6_D(L)	SNA	A	
5.3-12	JC63-00804A	GROUND-P-FEED	SNA	D	
5.3-13	JC66-01029A	ROLLER-DR REGI	SA	A	
5.3-14	JC63-00803A	GROUND-P-REGI	SNA	D	
5.3-15	JC66-00960A	SHAFT-DUP GUIDE	SNA	A	
5.3-16	JC97-02301A	MEA UNIT-DAMPER,L	SA	A	
5.3-16-1	JC61-00194A	CASE-DAMPER DUP	SNA	D	
5.3-16-2	JC61-00196A	SHAFT-DAMPER DUP	SNA	D	
5.3-16-3	6107-000014	SPRING-CS	SA	A	
5.3-16-4	JC61-00197A	HINGE-SHAFT DUP	SNA	A	
5.3-16-5	JC61-00310A	BRACKET-L DAMPER DUP	SNA	A	
5.3-16-6	6044-000159	RING-C	SA	A	
5.3-16-7	6044-000125	RING-E	SA	A	
5.3-17	JC97-02263A	MEA UNIT-F DR	SA	A	
5.3-17-1	JC63-00741A	COVER-M_FRONT DUMMY	SNA	D	
5.3-17-2	JC61-01358A	BRACKET-M_SIDE OPEN	SNA	D	
5.3-17-3	JC61-00486A	SPRING ETC-TORSION	SA	A	
5.3-17-4	6003-000221	SCREW-TAPTITE	SNA	D	
5.3-18	JC96-03534A	ELA HOU-CVR OPN	SA	A	
5.3-18-1	JC39-00541A	HARNESS-COVER_SW	SA	D	
5.3-18-2	JC63-00753A	GUARD-P_SW	SNA	A	
5.3-18-3	JC61-01354A	HOUSING-M_SIDE DR SNR	SNA	A	
5.3-18-4	JC63-00760A	COVER-M_SIDE DOOR SNR	SNA	D	
5.3-19	JC61-01316A	FRAME-M_COVER REAR	SNA	D	
5.3-20	JC39-00466A	CBF HARNESS-COVER_EXT	SA	D	
5.3-21	JC96-03535A	ELA HOU-TERMINAL	SA	A	

Main Frame Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.3-21-1	JC61-01357A	HOUSING-M_TERMINAL	SNA	D	
5.3-21-2	JC39-00544A	CBF HARNESS-HVPS(8P)	SA	D	
5.3-21-3	JC96-04056A	ELA HOU-VARISTOR	SA	A	
5.3-21-4	JC70-40912A	ICT-SHAFT HV LARGE	SA	A	
5.3-21-5	JC66-00979A	SHAFT-TERMINAL_16L	SNA	A	
5.3-21-6	JC61-70930A	SPRING ETC-HV SMALL	SA	A	
5.3-21-7	JC61-01330A	PLATE-P-TERMIANL_HV	SNA	A	
5.3-21-8	JC63-00757A	COVER-M_TERMINAL DUP	SNA	D	
5.3-21-9	JC63-00742A	COVER-M_TERMINAL	SNA	D	
5.3-21-10	6003-000221	SCREW-TAPTITE	SNA	D	
5.3-22	JC61-01286A	HOLDER-M_FUSER TERM	SNA	D	
5.3-23	JC39-00546A	HARNESS-FUSER_FR	SA	D	
5.3-24	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.3-25	6107-000014	SPRING-CS	SA	A	
5.3-26	JC61-01361A	LEG-M_BAR FINISHER	SNA	A	
5.3-27	JC63-00830A	COVER-M_ACT	SNA	D	
5.3-28	6502-000132	CABLE CLAMP	SA	A	
5.3-29	JC63-00797A	GROUND-P-P FUSER	SNA	D	
5.3-30	JC63-00789A	GROUND-P-MAIN DRV	SNA	D	
5.3-31	JC63-00790A	GROUND-P-FUSER DRV	SNA	D	
5.3-32	JC63-00798A	GROUND-P-EXIT	SNA	D	
5.3-33	JC63-00800A	GROUND-P-OPE REAR	SNA	D	
5.3-34	JC63-00796A	GROUND-P-H FUSER	SNA	D	
5.3-35	JC63-00799A	GROUND-P-MAIN DRIVE L	SNA	D	
5.3-36	JC39-00646A	HARNESS-DEVE_RF	SA	D	
5.3-37	JC61-01359A	HOUSING-M_COUPLER	SNA	D	
5.3-38	JC92-01862A	PBA-RFID	SA	A	
5.3-39	JC61-01287A	HOLDER-M_DEVE CONN	SNA	D	
5.3-40	JC67-00127A	DUCT-M_FAN LSU	SA	D	
5.3-41	JC31-00025B	FAN-DC	SA	A	
5.3-42	JC39-00545A	CBF HARNESS-HVPS(3P)	SA	D	
5.3-43	JC61-01353A	BRACKET-P-CHANNEL	SNA	A	
5.3-44	JC31-00012B	FAN-DC LSU	SA	D	
5.3-45	JC31-00012C	FAN-DC INVERTER	SA	A	

5.4 Base Frame



Base Frame Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.4-0	JC96-03746B	ELA HOU-BASE FRAME	SNA	A	
5.4-1	JC61-01337A	BASE-P-PLATE	SNA	A	
5.4-2	JC61-01312A	PLATE-P-BEAM BASE	SNA	D	
5.4-3	JC61-01342B	HOUSING-BASE LEFT	SNA	A	
5.4-4	JC61-01314A	GUIDE-P-SHIELD SMPS	SNA	D	
5.4-5	JC61-01296A	GUIDE-M_FEED UPPER	SNA	A	
5.4-6	JC61-01347A	BRACKET-P-JOINT BASE	SNA	D	
5.4-7	JC96-03558A	ELA HOU-PICK UP	SA	A	
5.4-8	JC61-01344A	HOLDER-M_CST R	SNA	A	
5.4-9	JC61-01294A	GUIDE-M_FEED DP	SNA	D	
5.4-11	JC39-00512A	CBF HARNESS-REGI	SA	D	
5.4-12	JC97-02704A	MEA UNIT-ACT READY	SNA	A	
5.4-12-1	JC61-01422A	HOLDER-M_ACT READY	SA	A	
5.4-12-2	JC61-01435A	LEG-M_ACT READY DP	SA	Α	
5.4-12-3	JB61-00076A	SPRING ETC-TORSION DOC (CC2-F)	SA	D	
5.4-15	JC61-01341B	HOUSING-BASE RIGHT	SA	A	
5.4-16	3001-001858	SPEAKER	SA	D	
5.4-17	JC39-00543A	HARNESS-SPK_MP	SA	D	
5.4-18	JC61-01423A	BRACKET-P-ARM FRIC	SNA	Α	
5.4-19	6107-001257	SPRING-ES	SA	D	
5.4-20	6107-001262	SPRING-TS	SNA	A	
5.4-21	JC66-00959A	LEVER-M_ARM FRICTION	SA	D	
5.4-22	6044-000125	RING-E	SA	A	
5.4-23	JC61-00423A	BUSH-6_D	SA	A	
5.4-24	JC61-01313A	GUIDE-M_PICKUP BASE	SNA	D	
5.4-25	JC63-00795A	SHEET-GUIDE FILM BASE	SA	A	
5.4-26	JC61-40001A	FOOT-ML80	SA	A	
5.4-27	JC97-02705A	MEA UNIT-FEED IDLE MP	SA	A	
5.4-27-1	JC66-01027A	ROLLER-RUBBER IDLE	SNA	D	
5.4-27-2	JC61-01434A	HOLDER-M_BUSHING IDLE	SNA	D	
5.4-27-3	JC61-00046A	SPRING ETC-TR R HAWK	SNA	D	
5.4-28	6044-000159	RING-C	SA	A	
5.4-29	JC61-00424A	BUSH-4	SA	A	
5.4-32	JC61-01297A	GUIDE-M_FEED IDLE MP	SA	A	
5.4-33	JC97-02290A	MEA UNIT-RETARD	SA	A	
5.4-33-1	JC61-01348A	BRACKET-P-RETARD	SNA	D	
5.4-33-2	JC66-00937A	SHAFT-RETARD S	SA	A	
5.4-33-3	JC66-00939A	SHAFT-LOCK	SA	A	
5.4-33-4	JC66-00938A	SHAFT-RETARD M	SNA	D	
5.4-33-5	JC67-00126A	COUPLER-TORQUELIMITER	SA	D	
5.4-33-6	JC66-00976A	JOINT-M_RETARD	SA	D	
5.4-33-7	JC97-02259A	MEA UNIT-ROLLER PU	SA	A	
5.4-33-8	JC61-01349A	BRACKET-P-BAR RETARD	SNA	D	

Base Frame Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.4-34	JC61-01338A	BASE-P-PLATE REAR	SNA	A	
5.4-35	JC96-03735A	ELA HOU-SIZE SENSOR	SA	A	
5.4-35-1	JC96-02127A	ELA HOU-CST SENSOR HAWK16	SA	A	
5.4-35-2	JC61-01343A	HOUSING-M_SIZE SENSOR	SA	D	
5.4-35-3	JC39-00467A	HARNESS-TRAY_SIZE	SA	D	
5.4-35-4	JC63-00794A	GROUND-P-PAPER SIZE	SA	A	
5.4-10	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.4-36	JC61-01345A	HOLDER-M_CST L	SNA	A	
5.4-37	JC61-01340A	BRACKET-P_HANDLE L	SNA	D	
5.4-38	JC39-00472A	HARNESS-SCF_MAIN	SA	D	
5.4-39	JC70-11028A	IPR-GROUND TOP	SA	A	
5.4-40	JC37-00554A	CBF HARNESS-NEAR SEN	SNA	D	
5.4-41	JC61-01436A	BRACKET-P_HANDLE R	SNA	D	
5.4-42	6502-000132	CABLE CLAMP	SA	A	
5.4-43	6502-000132	CABLE CLAMP	SA	A	
5.4-44	JC31-00045A	MOTOR GEARED-P LIFT	SA	A	
5.4-46	JC66-00974A	GEAR-M_FORWARD	SA	D	
5.4-47	JC66-00975A	GEAR-M_RETARD	SA	D	
5.4-48	JC66-00973A	GEAR-M_PICKUP IDLE B	SA	D	
5.4-49	JC63-00833A	GROUND-P-SHAFT RETARD	SA	A	
5.4-50	JC61-01346A	HOLDER-P-MP FEED	SNA	D	
5.4-51	JC39-00468A	HARNESS-DUPLX_MAN	SA	D	
5.4-52	6107-001257	SPRING-ES	SA	D	

5.5 Main Drive



Main Drive Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.5-0	JC96-03528A	ELA HOU-DRIVE MAIN	SA	A	
5.5-1	JC61-01368A	BRACKET-P-MAIN	SNA	D	
5.5-2	JC31-00038A	MOTOR DC-MAIN(BLDC)	SA	D	
5.5-3	JC61-01370A	BRACKET-P-TONER MOTOR	SNA	A	
5.5-4	-	ELA HOU-TONER DRIVE	SNA	В	Sales
5.5-5	JC66-00986A	GEAR-M_AGITATOR	SA	D	
5.5-6	JC72-00743A	PMO-DEV/COUPLING	SA	D	
5.5-7	JC66-00993A	GEAR-M_SUPPLY IDLE	SA	D	
5.5-8	6044-000125	RING-E	SA	A	
5.5-9	JC97-02681A	MEA UNIT-GEAR SUPPLY	SA	A	
5.5-9-1	JC66-00992A	GEAR-M_SUPPLY	SNA	D	
5.5-9-2	JC61-00396A	SPRING ETC-COIL CONTAINER	SA	D	
5.5-9-3	JC72-00621A	JOINT-COUPLING_CONTAINER	SA	D	
5.5-9-4	6043-001028	PIN-SPRING	SA	D	
5.5-13	JC66-00989A	GEAR-M_AGI IDLE	SA	D	
5.5-14	JC66-00983A	GEAR-M_REGI IDLE A	SA	D	
5.5-15	JC66-00985A	GEAR-M_MIXER	SA	D	
5.5-16	JC66-00982A	GEAR-M_OPC BASE	SA	D	
5.5-17	JC67-00115A	OTHER MECHA-M CPL OPC	SA	D	
5.5-18	JC66-00984A	GEAR-M_REGI IDLE B	SA	D	
5.5-19	JC66-00987A	GEAR-M_PICKUP IDLE A	SA	D	
5.5-20	JC66-00988A	GEAR-M_MP IDLE A	SA	D	
5.5-21	JC61-01369A	BRACKET-P-DPX SWING	SNA	A	
5.5-22	JC66-00990A	GEAR-M_MP IDLE B	SA	D	
5.5-23	JC66-00991A	GEAR-M_DUPLEX IDLE	SA	D	
5.5-24	JC67-00116A	OTHER MECHA-M COLLAR DP	SNA	D	
5.5-25	JC61-70950A	SPRING ETC-EXTENSION	SA	A	
5.5-26	6502-000132	CABLE CLAMP	SA	A	
5.5-27	JC39-00475A	HARNESS-MOTOR	SA	D	
5.5-28	6003-000221	SCREW-TAPTITE	SNA	D	
5.5-29	6003-000221	SCREW-TAPTITE	SNA	D	

5.6 Exit Drive



Exit Drive Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.6-0	JC96-03537A	ELA HOU-DRIVE FUSER	SA	A	
5.6-1	JC61-01371A	BRACKET-P-FUSER EXIT	SNA	D	
5.6-2	JC31-00043A	MOTOR STEP-SCAN	SA	D	
5.6-3	JC31-00020B	MOTOR STEP-MAIN	SA	D	
5.6-4	JC66-00996A	GEAR-M_EXIT IDLE A	SA	D	
5.6-5	JC66-00995A	GEAR-M_FUSER IDLE A	SA	D	
5.6-6	6044-000125	RING-E	SA	A	
5.6-7	JC66-00997A	GEAR-M_EXIT IDLE C	SA	D	
5.6-8	JC39-00470A	CBF HARNESS-MOTOR_STP	SA	D	
5.6-9	6003-000221	SCREW-TAPTITE	SNA	D	

5.7 Exit Ass'y



Exit Ass'y Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.7-0	JC96-03529A	ELA HOU-EXIT	SA	A	
5.7-1	JC61-01302A	GUIDE-M_EXIT LOWER	SNA	D	
5.7-2	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.7-3	JC63-00821A	ABSORBER-DAMPER S	SNA	D	
5.7-4	JC66-01016A	ROLLER-EXIT_LOWER	SNA	A	
5.7-5	JC61-00424A	BUSH-4	SA	A	
5.7-6	6044-000159	RING-C	SA	A	
5.7-7	JC66-01018A	GEAR-M_EXIT LOWER	SA	D	
5.7-8	JC67-00122A	OTHER MECHA-M GATE DP	SA	D	
5.7-9	JC96-03749A	ELA HOU-SOLENOID DP	SA	A	
5.7-9-1	JC61-01332A	GUIDE RAIL-M LINK GATE	SNA	D	
5.7-9-2	JC61-70915A	SPRING ETC-SOLENOID DP	SA	A	
5.7-9-3	JC63-00820A	ABSORBER-DAMPER L	SNA	D	
5.7-9-4	JC33-00008C	SOLENOID-DUPLEX JF	SA	D	
5.7-10	JC39-00471A	HARNESS-EXIT	SA	D	
5.7-11	JC61-01303A	GUIDE-M_EXIT DUPLEX	SNA	D	
5.7-12	JC61-00423A	BUSH-6_D	SA	A	
5.7-13	6044-000125	RING-E	SA	A	
5.7-14	JC66-01014A	ROLLER-EXIT DRV	SNA	A	
5.7-15	JC67-00125A	BRUSH-EXIT	SA	D	
5.7-16	JC61-01301A	GUIDE-M_EXIT UPPER	SNA	D	
5.7-17	6107-001262	SPRING-TS	SNA	A	
5.7-18	JC66-01013A	ROLLER-M IDLE JF	SA	A	
5.7-19	JC70-00064A	IPR-PIN ROLLER EXIT	SNA	A	
5.7-20	JC66-01019A	ROLLER-M EXIT DP IDLE	SA	A	
5.7-21	JC66-01015A	ROLLER-EXIT UPPER	SNA	D	
5.7-22	JC66-01017A	GEAR-M_EXIT UPPER	SA	D	
5.7-23	JC61-01392A	HOLDER-M_ACT OUTBIN	SNA	D	
5.7-24	JC61-01391A	LEG-M LIMIT STACKING	SA	A	
5.7-25	JC61-01393A	BRACKET-P-EXIT	SNA	A	
5.7-26	JC66-01012A	GEAR-M_EXIT	SA	D	
5.7-27	6003-000221	SCREW-TAPTITE	SNA	D	
5.7-28	6003-000221	SCREW-TAPTITE	SNA	D	

5.8 Fuser



Fuser Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.8-0	JC96-03724A	ELA HOU-FUSER	SA	A	
5.8-1	JC63-00756A	COVER-M UPPER FUSER	SNA	D	
5.8-2	JC97-02294A	MEA UNIT-CLAW	SA	А	
5.8-2-1	6107-001257	SPRING-ES	SA	D	
5.8-2-2	JC61-01383A	HOLDER-M_CLAW	SNA	D	
5.8-2-3	JC67-00121A	OTHER MECHA-FINGER	SNA	D	
5.8-3	JC72-20902A	PEX-ROLLER F/UP(2)	SA	A	
5.8-4	JC70-00064A	IPR-PIN ROLLER EXIT	SNA	A	
5.8-5	JC97-02680A	MEA-BRACKET FUSER	SA	A	
5.8-5-1	JC61-01388A	BRACKET-P-FUSER GEAR	SNA	D	
5.8-5-2	JC66-01011A	GEAR-M DRV Z2228	SA	D	
5.8-7	6107-001257	SPRING-ES	SA	D	
5.8-8	JC39-00618A	HARNESS-FUSER_FU	SA	D	
5.8-9	1404-001355	THERMISTOR-NTC ASSY	SA	A	
5.8-10	4712-001028	THERMOSTAT	SA	A	
5.8-11	JC39-00551A	HARNESS-FUSER_AC	SA	D	
5.8-12	JC97-02288A	MEA UNIT-ACTUATOR	SA	A	
5.8-12-1	JC61-01385A	HOLDER-ACTUATOR	SNA	D	
5.8-12-2	JC61-01384A	LEG-M ACTUATOR EXIT	SNA	D	
5.8-12-3	JC61-00019A	SPRING ETC-ACT, FEED	SA	D	
5.8-13	JC97-02282A	MEA UNIT-ROLLER HEAT	SA	A	
5.8-13-1	JC97-02289A	MEA UNIT-IHR	SNA	D	
5.8-13-2	JC61-01439A	BUSH-M H/R JF	SA	D	
5.8-14	6601-001341	BEARING-BALL	SA	A	
5.8-15	JC61-01439A	BUSH-M H/R JF	SA	D	
5.8-16	JC97-02272A	MEA UNIT-CARBON BRUSH	SA	A	
5.8-16-1	JC61-01331A	PLATE-P-TERMINAL CARBON	SNA	D	
5.8-16-2	6107-000014	SPRING-CS	SA	A	
5.8-17	JC63-00762A	COVER-M_BRUSH LWR	SNA	D	
5.8-18	JC63-00763A	COVER-M_BRUSH UPR	SNA	D	
5.8-19	JC97-02283A	MEA UNIT-ROLLER PR	SA	A	
5.8-19-1	JC66-01036A	ROLLER-PRESSURE JF	SNA	D	
5.8-19-2	6044-000125	RING-E	SA	A	
5.8-20	6601-001341	BEARING-BALL	SA	A	
5.8-21	JC61-01386A	BRACKET-P-PR R	SNA	D	
5.8-22	JC66-01033A	LEVER-M JAM R	SNA	D	
5.8-23	6107-001262	SPRING-TS	SNA	A	
5.8-24	JC61-01387A	BRACKET-P-PR L	SNA	D	
5.8-25	JC66-01034A	LEVER-M JAM L	SNA	D	
5.8-26	JC66-01152A	SHAFT-CLEANING PR	SNA	D	
5.8-27	JC66-10205A	BEARING-PRESSURE R	SA	D	
5.8-28	JC61-00013A	SPRING ETC-PAD	SNA	A	
5.8-29	JC61-01419A	GUIDE-M_INPUT JF	SNA	D	

Fuser Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.8-30	JC63-00755A	COVER-M LOWER FUSER	SNA	D	
5.8-31	JC68-01581A	LABEL(P)-CAUTION HOT	SNA	В	
5.8-32	JC63-00819A	GROUND-P-PR	SNA	D	
5.8-33	JC63-00761A	COVER-M_GROUND	SNA	D	
5.8-34	JC68-01134A	LABEL(P)-BLANK(FUSER)	SNA	A	
5.8-35	JC63-00818A	GROUND-P-HR	SNA	D	
5.8-36	6002-000440	SCREW-TAPPING	SA	А	
5.8-37	6003-000221	SCREW-TAPTITE	SNA	D	
5.8-38	6001-000130	SCREW-MACHINE	SA	A	
5.8-39	6003-000221	SCREW-TAPTITE	SNA	D	
5.8-40	JC63-01175A	GROUND-PR2	SNA	D	

5.9 Pick Up Ass'y



Pick Up Ass'y Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.9-1	JC61-01298A	FRAME-M_BASE PICK UP	SNA	D	
5.9-3	JC63-00743A	GROUND-P-SHAFT PU	SNA	D	
5.9-4	JC61-01350A	LEG-M_ACT NO PAPER	SNA	А	
5.9-5	JC61-01299A	GUIDE-M_UPPER PICK UP	SNA	А	
5.9-6	JC66-00942A	SHAFT-PICK UP	SNA	D	
5.9-7	JC61-00884A	BUSH-6_D(L)	SNA	A	
5.9-8	6044-000125	RING-E	SA	А	
5.9-9	JC66-00977A	CLUTCH-P_ONE WAY	SA	В	
5.9-10	JC66-00941A	GEAR-M_ONE WAY	SA	D	
5.9-11	JC61-01288A	HOLDER-M_IDLE ONE WAY	SA	А	
5.9-12	JC97-02259A	MEA UNIT-ROLLER PU	SA	А	
5.9-13	JC66-00940A	GEAR-M_IDLE PU	SA	D	
5.9-14	JC66-00943A	GEAR-M_PU JOINT	SA	D	
5.9-15	JC39-00462A	HARNESS-SCF_EMPTY	SA	D	
5.9-16	JC39-00477A	HARNESS-MOTOR_SW	SA	D	

5.10 Side Duplex



Side Duplex Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.10-0	JC96-03525B	ELA HOU-SIDE DUPLEX	SA	D	
5.10-1	JC63-00775B	COVER-SIDE	SA	A	
5.10-2	JC97-02264B	MEA UNIT-TRAY	SA	A	
5.10-3	JC96-03532A	ELA HOU-DUPLEX	SA	A	
5.10-3-1	JC61-01293A	GUIDE-M_DUPLEX	SNA	D	
5.10-3-2	JC67-00125A	BRUSH-EXIT	SA	D	
5.10-3-3	JC63-00785A	GROUND-P-BRUSH	SNA	D	
5.10-3-4	JC61-70959A	SPRING ETC-SPRING ETC FEED	SA	D	
5.10-3-5	JC66-01013A	ROLLER-M IDLE JF	SA	A	
5.10-3-6	JC65-00012A	TERMINAL-S_IDLE	SA	Α	
5.10-3-7	JC39-00187A	CBF HARNESS-ADF ROLLER GND	SA	D	
5.10-3-8	JC63-00786A	GROUND-P-GND	SNA	D	
5.10-3-9	JC63-00788A	GROUND-P-SAW	SNA	D	
5.10-3-10	JC63-00787A	GROUND-P-TR	SNA	D	
5.10-3-11	JC61-01292A	GUIDE-M_FEED	SNA	D	
5.10-3-12	JC61-01291A	GUIDE-P-EARTH TR	SNA	D	
5.10-3-13	JC70-10232D	IPR-E-PLATE SAW(MCK2)	SA	D	
5.10-3-14	JC61-01407A	HOLDER-M_SAW	SNA	D	
5.10-3-15	JC61-01290A	GUIDE-P-TR	SNA	D	
5.10-3-16	0203-001778	TAPE-DOUBLE FACE	SNA	D	
5.10-4	JC61-00175A	BRACKET-COVER DUP	SNA	D	
5.10-5	JC31-00025B	FAN-DC	SA	Α	
5.10-6	JC31-00012C	FAN-DC INVERTER	SA	A	
5.10-7	JC66-00970A	ROLLER-DUPLEX READY	SA	Α	
5.10-8	JC61-00423A	BUSH-6_D	SA	A	
5.10-9	6044-000125	RING-E	SA	A	
5.10-10	JC66-00971A	PULLEY-M_DUPLEX	SA	D	
5.10-11	6602-001092	BELT-TIMING GEAR	SA	В	
5.10-12	JC66-00972A	CLUTCH-2.5K Z24	SA	В	
5.10-13	JC67-00116A	OTHER MECHA-M COLLAR DP	SNA	D	
5.10-14	JC61-01334A	BRACKET-P-DUPLEX	SNA	D	
5.10-15	JB39-00103A	CBF HARNESS-LIU GND	SA	D	
5.10-16	JC63-00784A	GROUND-P-DUPLEX	SNA	D	
5.10-17	JC66-00969A	ROLLER-DUPLEX	SA	D	
5.10-18	JC39-00474A	HARNESS-DUPLEX	SA	D	
5.10-19	JC67-00112A	CAP-M_SIDE	SNA	D	
5.10-20	JC66-00935A	SHAFT-HANDLE	SNA	D	
5.10-21	JC64-00205B	HANDLE-SIDE	SNA	Α	
5.10-22	JC64-00198A	LOCKER-M_FRONT	SA	Α	
5.10-23	JC64-00199A	LOCKER-M_REAR	SA	А	
5.10-24	JC61-00479A	SPRING ETC-LOCKER TORSION	SA	D	
5.10-25	JC61-01289A	GUIDE-M_SIDE	SNA	А	
5.10-26	JC61-01308A	GUIDE-M_EXIT	SNA	D	

Side Duplex Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.10-27	JC68-01246B	LABEL(R)-GUIDE_DUPLEX	SNA	D	
5.10-28	JC61-70910A	SPRING ETC-RAIL	SA	A	
5.10-29	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.10-30	JC97-02687A	MEA-ACTUATOR_DUPLEX	SA	A	
5.10-30-1	JC61-01335A	HOLDER-M_ACTUATOR DP	SA	A	
5.10-30-2	JC61-01336A	LEG-M_ACTUATOR DUPLEX	SA	A	
5.10-30-3	JC61-00019A	SPRING ETC-ACT, FEED	SA	D	
5.10-33	JC97-02287A	MEA UNIT-TR	SA	A	
5.10-33-1	JC97-02375A	MEA UNIT-TR SUB	SA	A	
5.10-33-1-1	JC66-01023A	ROLLER-TRANSFER	SA	D	
5.10-33-1-2	6044-000125	RING-E	SA	A	
5.10-33-2	JC61-01694A	BUSH-46D	SA	D	
5.10-33-3	JC72-40228A	PMO-BUSH	SA	D	
5.10-33-4	JC72-00884A	PMO-HOLDER GEAR TR	SA	D	
5.10-33-5	JC72-00883A	PMO-HOLDER GND TR	SA	D	
5.10-33-6	JC61-70906A	SPRING ETC-TR_R	SA	A	
5.10-33-7	JC61-70203A	SPRING ETC-PLATE TR	SA	D	

5.11 MP Unit



MP Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.11-0	JC96-03557A	ELA HOU-MP	SA	A	
5.11-1	JC61-01351A	FRAME-M_MP LOWER	SNA	D	
5.11-2	JC61-01352A	FRAME-M_MP TOP	SNA	D	
5.11-3	JC96-03533A	ELA HOU-MP PICK UP	SA	A	
5.11-3-1	JC61-01410A	GUIDE-M_PICKUP DOC	SNA	В	
5.11-3-2	JB75-00300A	MEC-PICK UP ROLLER ASSY	SA	A	
5.11-3-3	JB72-00845A	PMO-PICK UP CLUTCH SUB	SA	A	
5.11-3-4	JB66-00105A	GEAR-PICK UP 26	SA	A	
5.11-3-5	JC72-00744A	PMO-SHAFT PICK UP	SA	A	
5.11-3-6	JB66-00102A	GEAR-PICK UP IDEL 38	SA	A	
5.11-3-7	JB75-00299A	MEC-ADF ROLLER ASSY	SA	A	
5.11-3-8	JB66-00104A	GEAR-ADF IDLE 34	SA	A	
5.11-3-9	JB70-00168A	ICT-PIN ADF	SA	A	
5.11-3-10	JC66-00978A	SHAFT-PICK UP MP	SNA	D	
5.11-3-11	JB72-00821A	PMO-ADF COLAR	SA	A	
5.11-3-12	JB61-70904A	SPRING ETC-CLUTCH	SA	A	
5.11-3-13	JC61-00750A	BUSH-M-ADF CLUTCH	SA	D	
5.11-3-14	6031-000019	WASHER-PLAIN	SA	A	
5.11-4	JC72-01375A	SPONGE-DAMPER MP	SNA	D	
5.11-5	6107-001257	SPRING-ES	SA	D	
5.11-6	JC66-01026A	ROLLER-MP DRV	SNA	D	
5.11-7	JC61-00423A	BUSH-6_D	SA	A	
5.11-8	6044-000125	RING-E	SA	A	
5.11-9	JC63-00744A	GROUND-P-MP	SNA	D	
5.11-10	JG72-40732A	PMO-BUSHING HOLDER	SNA	D	
5.11-11	JG70-40534A	ICT-SPRING CLUTCH	SA	D	
5.11-12	JC66-00936A	GEAR-M_MP FEED	SA	D	
5.11-13	6044-000159	RING-C	SA	A	
5.11-14	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.11-15	JC39-00473A	CBF HARNESS-LIMIT_EMT	SA	D	
5.11-16	6031-000019	WASHER-PLAIN	SA	A	
5.11-17	JC66-00958B	LATCH-M_ARM REAR	SNA	D	
5.11-18	JC66-00958A	LATCH-M_ARM FRT	SNA	A	
5.11-19	JC61-01307B	STOPPER-M_PAPER REAR	SNA	A	
5.11-20	JC61-01307A	STOPPER-M_PAPER FRT	SNA	D	
5.11-21	JB63-00058A	SHEET-FILM ASF	SNA	A	
5.12 MP Tray





MP Tray Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.12-0	JC97-02264B	MEA UNIT-TRAY	SA	A	
5.12-1	JC63-00746B	TRAY-COVER LOWER	SNA	А	
5.12-2	JG66-40003A	GEAR-PINION	SA	А	
5.12-3	JC72-01005B	PMO-SIDE GUIDE MP(L)	SA	D	
5.12-4	JC72-01006B	PMO-SIDE GUIDE MP(R)	SA	D	
5.12-5	JC63-00447B	TRAY-M_EXIT_MP_XRX	SA	A	
5.12-6	JC63-00745A	TRAY-M_COVER TOP	SNA	D	
5.12-7	JC68-01622B	LABEL-INSTALLATION	SNA	D	

5.13 OPE(SCX-6345N)



OPE(SCX-6345N) Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.13-0	JC96-03546C	ELA HOU-OPE	SNA	A	SCX-6345N/XAA
5.13-0	JC96-03546V	ELA HOU-OPE	SNA	A	SCX-6345NJ/XAA
5.13-1	JC96-03753C	ELA HOU-OPE COVER	SA	A	
5.13-1-1	JC63-01212A	COVER-OPE	SNA	A	
5.13-1-2	JC64-00287A	KEY-JOB_STATUS	SA	A	
5.13-1-3	JC67-00209A	LENS-STATUS	SNA	D	
5.13-1-4	JC64-00239A	KEY-M_TEL	SNA	A	
5.13-1-5	JC64-00288A	KEY-HOOK	SA	A	
5.13-1-6	JC64-00244A	KEY-M_BLACK	SNA	A	
5.13-1-7	JC64-00289A	KEY-STOP	SA	Α	
5.13-1-8	JC64-00290A	KEY-START	SA	A	
5.13-1-9	JC73-00252A	RUBBER-JOB_STATUS	SA	D	
5.13-1-10	JC73-00253A	RUBBER-JOB_START	SA	D	
5.13-1-11	JC64-00291A	KEY-CONTRAST	SA	A	
5.13-1-12	JC92-01693B	PBA-OPE_KEY	SA	A	
5.13-1-13	JC92-01694B	PBA-OPE_KEY_SUB	SA	A	
5.13-1-14	6003-000221	SCREW-TAPTITE	SNA	D	
5.13-1-15	JC63-00814A	GROUND-P-LCD L	SNA	D	
5.13-1-16	JC63-00813A	GROUND-P-LCD R	SNA	D	
5.13-1-17	JC39-00552A	CBF HARNESS-OPE_KEY	SA	A	
5.13-1-18	JC39-00553A	CBF HARNESS-OPE_SUB	SA	A	
5.13-2	JC61-01635A	PLATE-P_LCD	SA	A	
5.13-3	JC07-00010A	LCD-DISPLAY+TOUCH	SA	A	
5.13-4	JC61-01329A	PLATE-P-OPE	SA	A	
5.13-5	JC92-01692B	PBA-OPE_MAIN	SA	A	SCX-6345N
5.13-5	JC92-01692C	PBA-OPE_MAIN	SA	A	SCX-6345NJ
5.13-6	6003-000221	SCREW-TAPTITE	SNA	D	
5.13-7	6003-000221	SCREW-TAPTITE	SNA	D	
5.13-8	6003-000221	SCREW-TAPTITE	SNA	D	
5.13-9	JC63-01211A	COVER-PANEL_FRONT	SA	A	SCX-6345N
5.13-9	JC63-01211T	COVER-PANEL_FRONT	SA	A	SCX-6345NJ
5.13-10	JC63-01043A	SHEET-LCD	SA	A	
5.13-11	JC63-00407A	SHEET-HOLDER PAD R2	SNA	A	

5.14 Platen Ass'y



Platen Ass'y Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.14-0	JC96-03550B	ELA HOU-PLATEN	SA	A	
5.14-2	JC96-03548B	ELA HOU-SCAN LOWER	SA	A	
5.14-2-1	JC63-00767B	COVER-SCAN LOWER	SNA	A	
5.14-2-2	JC96-03547A	ELA HOU-SCAN MOTOR	SA	A	
5.14-2-2-1	JC61-01433A	BRACKET-P-MOTOR PLAT	SNA	A	
5.14-2-2-2	JC31-00048B	MOTOR STEP	SA	A	
5.14-2-2-3	JB66-00083A	GEAR-IDLE	SA	A	
5.14-2-2-4	JC66-00530A	GEAR-REDUCTION73/37	SA	A	
5.14-2-2-5	6044-000125	RING-E	SA	A	
5.14-2-2-6	JC66-00531A	GEAR-TIMING	SA	A	
5.14-2-2-7	JB72-00764A	PMO-HOLDER BELT	SA	Α	
5.14-2-3	JC39-00556A	CBF SIGNAL-CCD	SA	D	
5.14-2-4	JC63-00766B	COVER-CCD CABLE	SNA	Α	
5.14-2-5	6602-001092	BELT-TIMING GEAR	SA	В	
5.14-2-6	JB72-00763A	PMO-PULLEY	SA	A	
5.14-2-7	JB72-00764A	PMO-HOLDER BELT	SA	A	
5.14-2-8	6044-000125	RING-E	SA	A	
5.14-2-9	JC61-01365A	BRACKET-P-PULLEY	SNA	D	
5.14-2-10	6107-000014	SPRING-CS	SA	A	
5.14-2-11	JC72-00755A	PMO-LEVER SENSOR	SA	D	
5.14-2-12	JB61-70939A	SPRING ETC-EXIT	SNA	D	
5.14-2-13	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.14-2-14	JC92-01695A	PBA SUB-SCAN_IF	SA	A	
5.14-2-15	JC39-00463A	HARNESS-GATE_NEAR	SA	D	
5.14-2-16	JB39-00103A	CBF HARNESS-LIU GND	SA	D	
5.14-2-17	JC39-00459A	HARNESS-SCAN	SA	D	
5.14-2-18	JC39-00241A	CBF HARNESS-MOTOR	SA	A	
5.14-2-19	JC63-00812A	GROUND-P-SCAN LOWER	SNA	A	
5.14-2-20	JC63-00811A	GROUND-P-SCAN IF	SNA	D	
5.14-2-21	JC66-00981A	SHAFT-CCD	SNA	D	
5.14-2-22	JC63-00459A	SHEET-SCAN LOWER	SNA	A	
5.14-2-23	JC96-03982A	ELA HOU-CCDM	SA	D	
5.14-2-24	JC61-01318A	PLATE-P-SCAN LOWER	SNA	A	
5.14-2-25	JC61-01366A	HOLDER-M_CCD	SNA	D	
5.14-2-27	JC61-01776A	PLATE-OPE_GROUND	SNA	A	
5.14-2-28	JC70-00239A	IPR-CHANNEL BASE FRAME	SA	D	
5.14-2-29	6502-000132	CABLE CLAMP	SA	A	
5.14-2-30	JC39-00550A	CBF HARNESS-OPE	SA	D	
5.14-2-31	JC68-00723A	LABEL(R)-LOCK INDICATOR	SNA	D	
5.14-3	JC96-03536B	ELA HOU-SCAN UPPER	SNA	A	
5.14-3-1	JC63-00768B	COVER-SCAN UPPER	SNA	A	
5.14-3-2	JC63-00748B	SHEET-REGI	SNA	A	
5.14-3-3	JC01-00004A	GLASS-SCAN HEATING	SA	D	

Platen Ass'y Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.14-3-4	JC68-00749A	LABEL(P)-SHEET SHADING(B)	SNA	A	
5.14-3-5	JB70-00148A	IPR-HOLDER GLASS	SA	A	
5.14-3-6	JC97-02267B	MEA UNIT-DUMMY UPPER	SA	A	
5.14-3-6-1	JC63-00758B	COVER-ADF GLASS	SNA	A	
5.14-3-6-2	JC68-01622B	LABEL-INSTALLATION	SNA	D	
5.14-3-6-3	JC74-00019A	MCT-GLASS ADF	SA	D	
5.14-3-6-4	JC68-01622B	LABEL-INSTALLATION	SNA	D	
5.14-3-6-5	JC63-00074A	SHEET-DUMMY UPPER	SA	Α	
5.14-3-6-6	JC63-01152A	SHEET-ADF GLASS	SNA	A	

5.15 DADF Sub



DADF Sub Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.15-0	JC96-03579B	ELA HOU-DADF SUB	SA	A	
5.15-1	JC97-01844C	MEA UNIT-COVER OPEN	SA	A	
5.15-1-1	JC63-00195B	COVER-OPEN	SA	A	
5.15-1-2	JC72-01256B	PMO-LEVER OPEN	SNA	D	
5.15-1-3	JC61-00483A	SPRING ETC-KNOCKUP,MP	SA	A	
5.15-1-4	JC66-00587A	ROLLER-REGI	SNA	D	
5.15-1-5	JC63-00315A	GROUND-P DUPLEX	SNA	D	
5.15-1-6	JC61-00423A	BUSH-6_D	SA	A	
5.15-1-7	6044-000125	RING-E	SA	Α	
5.15-1-8	JB39-00103A	CBF HARNESS-LIU GND	SA	D	
5.15-1-9	JC63-00197B	COVER-SENSOR	SA	A	
5.15-1-10	JC72-41396B	PMO-STOPPER EXIT	SA	D	
5.15-1-11	JC66-00565B	GEAR-DADF24(A)	SA	D	
5.15-1-12	JC63-00408B	COVER-HARNESS	SNA	A	
5.15-1-13	JC72-01261A	PMO-ACTUATOR REGI	SNA	D	
5.15-1-14	JB61-00076A	SPRING ETC-TORSION DOC (CC2-F)	SA	D	
5.15-1-15	JC92-01561A	PBA SUB-REGI	SA	Α	
5.15-2	JC61-01300A	GUIDE-M_SCAN	SNA	D	
5.15-3	JC97-02305B	MEA UNIT-COVER EXIT	SNA	A	
5.15-3-1	JC63-00196B	COVER-EXIT	SA	A	
5.15-3-2	JC68-01244A	LABEL(R)-COVER_EXIT	SNA	D	
5.15-3-3	JC61-00548A	SPRING ETC-WHITE BAR	SA	A	
5.15-3-4	JC63-00203A	GROUND-P-EXIT COVER	SNA	D	
5.15-3-5	JC66-00661A	SHAFT-EXIT IDLE	SA	D	
5.15-3-6	JC66-00980A	ROLLER-M_DECURL	SNA	D	
5.15-3-7	JC72-00906A	PMO-ROLLER IDLE SCAN	SA	D	
5.15-3-8	JC67-00196A	BRUSH-ANTISTATIC SCAN	SA	A	
5.15-4	JC97-01847A	MEA UNIT-GUIDE_PICK_UP	SA	Α	
5.15-4-1	JC61-00733A	GUIDE-M_PICK_UP_UPPER	SNA	D	
5.15-4-2	JC97-01846A	MEA UNIT-HOLDER ADF RUBBER	SA	A	
5.15-4-2-1	JC61-00745A	HOLDER-M-ADF RUBBER LOWER	SNA	D	
5.15-4-2-2	JC61-00013A	SPRING ETC-PAD	SNA	A	
5.15-4-2-3	JC61-00744A	HOLDER-M-ADF RUBBER UPPER	SNA	В	
5.15-4-2-4	JC63-00186A	SHEET-GUIDE ADF	SA	В	
5.15-4-2-5	JB73-00052A	RMO-ADF RUBBER	SA	A	
5.15-4-2-6	JC73-00079A	RPR-SEAL SIDE	SA	D	
5.15-4-3	JC96-03903A	ELA HOU-SUB_DOC_WIDTH	SA	A	
5.15-4-4	JC92-01564A	PBA SUB-EXIT_OPEN	SA	A	
5.15-4-5	JC72-01248A	PMO-ACTUATOR DOC	SA	D	
5.15-4-6	JB61-00076A	SPRING ETC-TORSION DOC (CC2-F)	SA	D	
5.15-4-7	JC61-00732A	GUIDE-M-PICK_UP_LOWER	SNA	D	
5.15-5	JC97-02279A	MEA UNIT-SUPPORT PU	SA	A	
5.15-5-1	JC63-00783A	COVER-M_SUPPORT_PU	SNA	D	

DADF Sub Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.15-5-2	JC66-00958A	LATCH-M_ARM FRT	SNA	A	
5.15-5-3	JC61-01307B	STOPPER-M_PAPER REAR	SNA	A	
5.15-5-4	JC61-00788A	GUIDE-M_DOC SENSOR	SNA	В	
5.15-5-5	JC61-00482A	SPRING ETC-PICKUP	SA	A	
5.15-6	JC97-01843A	MEA UNIT-GUIDE DUPLEX	SA	A	
5.15-6-1	JC61-00734A	GUIDE-M_DUPLEX_UPPER	SNA	D	
5.15-6-2	JC68-01246B	LABEL(R)-GUIDE_DUPLEX	SNA	D	
5.15-6-3	JC63-00834A	GROUND-P-DUPLEX IDLE	SNA	D	
5.15-6-4	JC61-01563A	SPRING ETC-DUP IDLE	SA	A	
5.15-6-5	JC66-01038A	SHAFT-PINCH DUP IDLE	SNA	D	
5.15-6-6	JG72-40663A	PMO-ROLL PINCH	SA	Α	
5.15-6-7	JC63-00428A	GROUND-S_REGI	SA	D	
5.15-6-8	JC61-00736A	GUIDE-M_DUPLEX_MID	SNA	D	
5.15-7	JC61-00737A	GUIDE-M_DUPLEX_INNER	SA	D	
5.15-8	JC61-00735A	GUIDE-M_DUPLEX_LOWER	SA	D	
5.15-9	JC92-01725A	PBA SUB-SENSOR IF	SA	A	
5.15-10	JC63-00808A	GROUND-P-EXIT ROLLER	SNA	D	
5.15-11	JC63-00807A	GROUND-P-SCAN ROLLER	SNA	D	
5.15-12	6502-000132	CABLE CLAMP	SA	A	
5.15-13	JC61-00423A	BUSH-6_D	SA	A	
5.15-14	6044-000125	RING-E	SA	A	
5.15-15	JC61-00884A	BUSH-6_D(L)	SNA	A	
5.15-16	JC63-00810A	SHEET-WHITE BAR	SNA	A	
5.15-17	JC61-01364A	BRACKET-P-WHITE BAR	SNA	D	
5.15-18	JC61-00548A	SPRING ETC-WHITE BAR	SA	A	
5.15-19	JC66-00588A	ROLLER-EXIT	SA	D	
5.15-20	JC66-00571A	GEAR-DADF_EXIT31	SA	D	
5.15-21	JC97-02277A	MEA UNIT-PICK UP_JF	SA	A	
5.15-22	JC66-00972A	CLUTCH-2.5K Z24	SA	В	
5.15-23	JC63-00809A	GROUND-P-DUPLEX MOTOR	SNA	D	
5.15-24	JC96-03556A	ELA HOU-DUPLEX MOTOR	SA	A	
5.15-25	JC70-00218A	IPR-GUARD C/O S/W	SA	D	
5.15-26	JC39-00332A	CBF HARNESS-COVER_OPEN	SA	D	
5.15-27	JC96-03555A	ELA HOU-DADF MOTOR	SA	A	
5.15-27-1	JC31-00044A	MOTOR STEP-DADF	SA	A	
5.15-28	JC63-00307A	COVER-P GEAR	SA	D	
5.15-29	JC61-01437A	HOLDER-M_SWITCH	SNA	A	
5.15-30	JC66-00662A	SHAFT-REGI	SA	D	
5.15-31	JC66-00565B	GEAR-DADF24(A)	SA	D	
5.15-32	JC66-00683A	SHAFT-GATE_DUPLEX	SNA	D	
5.15-33	JC72-01255A	PMO-GATE DUPLEX	SA	D	
5.15-34	JC39-00612A	HARNESS-DADF_CLUT	SA	D	
5.15-35	JC39-00557A	HARNESS-SCAN_IF	SA	D	

DADF Sub Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.15-36	JC92-01691A	PBA SUB-DADF	SA	А	
5.15-37	JC39-00241A	CBF HARNESS-MOTOR	SA	А	
5.15-38	JC72-01249A	PMO-ACTUATOR SCAN	SA	D	
5.15-39	JB61-00076A	SPRING ETC-TORSION DOC (CC2-F)	SA	D	
5.15-40	JC72-01263A	PMO-ACTUATOR DUPLEX	SA	D	
5.15-41	JC61-00720A	BUSH-10_D	SNA	D	
5.15-42	JC66-01037A	ROLLER-DUPLEX SCAN	SNA	D	
5.15-43	JC66-00585A	ROLLER-SCAN	SA	D	
5.15-44	JG72-40732A	PMO-BUSHING HOLDER	SNA	D	
5.15-45	JB61-70904A	SPRING ETC-CLUTCH	SA	А	
5.15-46	JC66-00570A	GEAR-DADF_SCAN31	SA	D	
5.15-49	JC39-00344A	CBF HARNESS-SENSOR_IF	SA	D	
5.15-47	6044-000159	RING-C	SA	A	
5.15-48	JC39-00509A	CBF HARNESS-GND ZENER	SA	A	
5.15-50	JC66-00565B	GEAR-DADF24(A)	SA	D	

5.16 DADF Ass'y



DADF Ass'y Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.16-0	JC96-03553B	ELA HOU-DADF	SA	A	
5.16-1	JC96-03554B	ELA HOU-COVER PLATEN	SA	A	
5.16-1-1	JC63-00772B	COVER-PLATEN	SNA	A	
5.16-1-2	JC61-00746B	GUIDE-EXTENTION	SNA	А	
5.16-1-3	JC72-01251B	PMO-EXTENTION PLATEN	SNA	D	
5.16-1-4	JC97-02635A	MEA UNIT-HINGE	SA	А	
5.16-1-5	JC97-02265A	MEA UNIT-HINGE JF	SA	А	
5.16-1-6	JC63-00805A	GROUND-P-COVER GEAR	SNA	D	
5.16-1-7	JC61-00819A	PLATE-P-DUMMY PLATEN	SA	D	
5.16-1-8	JC66-00661A	SHAFT-EXIT IDLE	SA	D	
5.16-1-9	JC66-01022A	ROLLER-M_IDLE SCF	SNA	А	
5.16-1-10	JC61-01440A	PLATE-P-SCAN PINCH	SNA	D	
5.16-1-11	JC63-00806A	GROUND-P-DUMMY PLATEN	SNA	D	
5.16-1-12	JB61-00076A	SPRING ETC-TORSION DOC (CC2-F)	SA	D	
5.16-1-13	JC61-01363A	LEG-M_ACTUATOR FEED	SNA	D	
5.16-1-14	0604-001095	PHOTO-INTERRUPTER	SA	А	
5.16-1-15	JC61-01362A	HOLDER-M_ACTUATOR	SNA	D	
5.16-1-16	JC39-00463A	HARNESS-GATE_NEAR	SA	D	
5.16-1-17	JC72-00751B	PPR-SPONGE SHEET	SA	D	
5.16-1-18	JC61-00049A	SPRING ETC-TR(KOR)	SNA	D	
5.16-1-19	JB39-00103A	CBF HARNESS-LIU GND	SA	D	
5.16-2	JC97-02266B	MEA UNIT-TX STACKER	SA	А	
5.16-2-1	JC72-01253B	PMO-TX STACKER	SA	D	
5.16-2-2	JC61-00740B	GUIDE-DOC_RIGHT	SNA	А	
5.16-2-3	JC68-01622B	LABEL-INSTALLATION	SNA	D	
5.16-2-4	JC61-01317B	GUIDE-DOC_LEFT	SNA	А	
5.16-2-5	JF72-41354A	PMO-GEAR PINION	SA	D	
5.16-2-6	JF70-10616A	IPR-WASHER SPRING CU	SA	D	
5.16-2-7	JC92-01563A	PBA SUB-LENGTH	SA	А	
5.16-2-8	JC72-01250B	PMO-ACTUATOR LENGTH	SA	D	
5.16-2-9	JB61-00076A	SPRING ETC-TORSION DOC (CC2-F)	SA	D	
5.16-2-10	JC72-01254B	PMO-TX STACKER LOWER	SA	D	
5.16-2-11	JC61-01438A	GUIDE-STACKER WIRE	SNA	А	
5.16-3	JC96-03579B	ELA HOU-DADF SUB	SA	А	
5.16-4	JC63-00201B	COVER-REAR	SA	А	
5.16-5	JC63-00200B	COVER-FRONT	SA	А	

5.17 Cassette



Cassette Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.17-0	JC97-02273B	MEA UNIT-CASSETTE	SA	А	
5.17-1	JC61-01411A	FRAME-M_CASSETTE	SA	D	
5.17-2	JC63-00782B	COVER-CASSETTE	SNA	A	
5.17-3	JC61-01413A	GUIDE-P-SIDE LEFT	SA	А	
5.17-4	JC67-00123A	CAP-M_HANDLE LEFT	SA	D	
5.17-5	JC61-00548A	SPRING ETC-WHITE BAR	SA	Α	
5.17-6	JC61-01414A	GUIDE-P-SIDE RIGHT	SNA	D	
5.17-7	JC68-01621A	LABEL(R)-MAX FILL	SA	D	
5.17-8	JC63-00747A	SHEET-GUIDE RETARD	SA	А	
5.17-9	JC66-00956A	GEAR-M_RACK	SNA	D	
5.17-10	JC66-01020A	GEAR-M_PINION 24	SA	D	
5.17-11	JC61-00832A	STOPPER-M_KNOCK UP	SA	A	
5.17-12	JC61-01395A	GUIDE-M_REAR	SA	A	
5.17-13	JC66-00202B	LEVER-LENTH HANDLE	SA	A	
5.17-14	JC61-01304A	GUIDE-M_HOOK	SA	A	
5.17-15	JC61-01412A	PLATE-P-KNOCK UP	SNA	D	
5.17-16	JC69-00494A	PAD-MP(PLUS)	SA	Α	
5.17-17	JC61-01416A	SUPPORT-M_BAR PAPER	SNA	D	
5.17-18	JC61-01417A	SUPPORT-M_PUSH PAPER	SNA	D	
5.17-19	JC66-00953A	SHAFT-PLATE LEVER	SNA	D	
5.17-20	JC61-01322A	PLATE-P-LEVER	SNA	D	
5.17-21	6044-000125	RING-E	SA	A	
5.17-22	JC61-01394A	BRACKET-P-LIFTING	SNA	D	
5.17-23	JC61-00426A	BUSH-8/5	SA	Α	
5.17-24	JC66-00954A	GEAR-M_LIFTING	SA	D	
5.17-25	JC66-00955A	GEAR-M_LIFT COUPLING	SA	D	
5.17-26	JC68-01622B	LABEL-INSTALLATION	SNA	D	
5.17-27	6001-000130	SCREW-MACHINE	SA	A	

5.18 SCF



SCF Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.18-0	JC96-03530B	ELA UNIT-SCF; Option Unit	SNA	A	
5.18-1	JC61-01333A	FRAME-P_TOPSCF	SNA	D	
5.18-2	JC63-00771B	COVER-M_FRONTSCF	SNA	A	
5.18-3	JC61-01312A	PLATE-P-BEAM BASE	SNA	D	
5.18-4	JC61-01397B	BASE-M_LEFTSCF	SNA	A	
5.18-5	JC97-02290A	MEA UNIT-RETARD	SA	A	
5.18-5-1	JC61-01348A	BRACKET-P-RETARD	SNA	D	
5.18-5-2	JC66-00937A	SHAFT-RETARD S	SA	Α	
5.18-5-3	JC66-00939A	SHAFT-LOCK	SA	A	
5.18-5-4	JC61-00423A	BUSH-6_D	SA	A	
5.18-5-5	6044-000125	RING-E	SA	A	
5.18-5-6	JC67-00126A	COUPLER-TORQUELIMITER	SA	D	
5.18-5-7	JC66-00976A	JOINT-M_RETARD	SA	D	
5.18-5-8	JC97-02259A	MEA UNIT-ROLLER PU	SA	A	
5.18-5-9	JC66-00938A	SHAFT-RETARD M	SNA	D	
5.18-5-10	JC61-01349A	BRACKET-P-BAR RETARD	SNA	D	
5.18-6	JC61-01398B	BASE-M_RIGHT SCF	SNA	Α	
5.18-7	JC97-02275A	MEA UNIT-SCF DOOR	SA	A	
5.18-7-1	JC61-01327A	GUIDE-M_DOOR INNER	SNA	D	
5.18-7-2	JC64-00208A	HANDLE-M_DOOR	SNA	D	
5.18-7-3	JC61-01404A	BRACKET-P_HANDLE SCF	SNA	D	
5.18-7-4	6107-001206	SPRINGTS	SNA	D	
5.18-7-5	JC64-00204B	LOCKER-M_RIGHT	SNA	D	
5.18-7-6	JC64-00204A	LOCKER-M_LEFT	SNA	D	
5.18-7-7	JC61-70959B	SPRING FEED	SNA	D	
5.18-7-8	JC66-01022A	ROLLER-M_IDLE SCF	SNA	A	
5.18-7-9	JC66-00661A	SHAFT-EXIT IDLE	SA	D	
5.18-7-10	JC61-01328A	PLATE-P_GUIDE SCF	SNA	D	
5.18-8	JC63-00769B	COVER-M_DOOR SIDE SCF	SNA	A	
5.18-9	JC96-03558A	ELA HOU-PICK UP	SA	A	
5.18-10	JC61-01401A	HOUSING-M_PICKUP SCF	SNA	D	
5.18-11	JC61-01422A	HOLDER-M_ACT READY	SA	A	
5.18-12	JC61-01402A	LEG-M_ACT FEED SCF	SNA	D	
5.18-13	6107-001262	SPRING-TS	SA	A	
5.18-14	JC61-00423A	BUSH-6_D	SA	A	
5.18-15	6044-000125	RING-E	SA	A	
5.18-16	JC66-01025A	MEC_ROLLER_SCF_DRV	SNA	D	
5.18-17	JG72-40732A	PMO-BUSHING HOLDER	SNA	D	
5.18-18	JB61-70904A	SPRING ETC-CLUTCH	SA	Α	
5.18-19	JC66-00964A	GEAR-M_FEED SCF	SNA	D	
5.18-20	6044-000159	RING-C	SA	A	
5.18-21	JC63-00825A	GROUND-P_SHAFTSCF	SNA	D	
5.18-22	JC61-01326A	GUIDE-M_PUUPPERSCF	SNA	D	

SCF Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.18-23	JC63-00754A	SHEET-GUIDEFILMSCF	SA	D	
5.18-24	C61-01325A	GUIDE-M_PULOWERSCF	SNA	D	
5.18-25	JC61-01423A	BRACKET-P-ARM FRIC	SNA	A	
5.18-26	6107-001257	SPRING-ES	SA	D	
5.18-27	6107-001262	SPRING-TS	SNA	D	
5.18-28	JC66-00959A	LEVER-M_ARM FRICTION	SA	D	
5.18-29	6044-000125	RING-E	SA	A	
5.18-30	JC61-01400A	PLATE-P_LOCKER R	SNA	D	
5.18-31	6107-001257	SPRING-ES	SA	D	
5.18-32	JC61-01399A	PLATE-P_LOCKER L	SNA	D	
5.18-33	JC64-00207A	LOCKER-M_GRIPPIN	SNA	D	
5.18-34	JC63-00826A	GROUND-P_TOP	SA	D	
5.18-35	JC61-01403A	HOLDER-M_PIN	SNA	D	
5.18-36	JC66-01021A	SHAFT-PIN LOCK	SA	D	
5.18-37	JC96-03735A	ELA HOU-SIZE SENSOR	SA	A	
5.18-37-1	JC96-02127A	ELA HOU-CST SENSOR HAWK16	SA	A	
5.18-37-2	JC61-01343A	HOUSING-M_SIZE SENSOR	SA	D	
5.18-37-3	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.18-37-4	JC63-00794A	GROUND-P-PAPER SIZE	SA	A	
5.18-37-5	JC39-00548A	CBFHARNESS-SCF_TRAY	SNA	D	
5.18-38	JC39-00547A	CBFHARNESS-SCF	SA	A	
5.18-39	JC67-00124A	CAP-M_GEAR FEED	SNA	D	
5.18-40	JC63-00824A	GROUND-P DOOR INNER	SNA	D	
5.18-43	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.18-45	JC61-01324A	FRAME-P_REAR SCF	SNA	D	
5.18-46	JC70-11028A	IPR-GROUND TOP	SA	A	
5.18-47	JC61-01345A	HOLDER-M_CST L	SNA	A	
5.18-48	JC92-01697A	PBA SUB-SCF	SA	A	
5.18-49	6502-000132	CABLE CLAMP	SA	A	
5.18-50	JC31-00045A	MOTOR GEARED-P LIFT	SA	A	
5.18-51	JC61-01344A	HOLDER-M_CST R	SNA	A	
5.18-52	JC63-00833A	GROUND-P-SHAFT RETARD	SA	A	
5.18-53	JC66-00975A	GEAR-M_RETARD	SA	D	
5.18-54	JC66-00974A	GEAR-M_FORWARD	SA	D	
5.18-55	JC66-00973A	GEAR-M_PICKUP IDLE B	SA	D	
5.18-56	JC66-00994A	CLUTCH-5K Z32	SA	В	
5.18-57	6044-000125	RING-E	SA	A	
5.18-58	JC96-03542A	ELA HOU-SCF DRIVE	SA	A	
5.18-58-1	JC61-01420A	BRACKET-P_SCFDRIVE	SNA	D	
5.18-58-2	JC31-00028B	Motor Pickup SCF	SNA	A	
5.18-58-3	JC66-00966A	GEAR-M_FDIDLE B SCF	SNA	D	
5.18-58-4	6044-000125	RING-E	SA	A	
5.18-58-5	JC66-00965A	GEAR-M_FDIDLEASCF	SNA	D	

SCF Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.18-58-6	JC66-00967A	GEAR-M_PUIDLEASCF	SNA	D	
5.18-58-7	JC66-00968A	GEAR-M_PUIDLECSCF	SNA	D	
5.18-58-8	JC72-00825A	PMO-IMPELLER_DRV	SA	А	
5.18-59	JC63-00770B	COVER-M_REARSCF	SNA	А	
5.18-60	JC97-02273B	MEA UNIT-CASSETTE	SA	А	
5.18-61	JC61-01323A	FRAME-P_BOTTOMSCF	SNA	D	
5.18-62	JC61-40001A	FOOT-ML80	SA	А	
5.18-63	JC39-00461A	HARNESS-SCF_FEED	SNA	D	
5.18-64	JC39-00463A	HARNESS-GATE_NEAR	SA	D	
5.18-65	JC39-00549A	CBFHARNESS-SCF_CLUT	SNA	D	
5.18-66	6009-001390	SCREW-SPECIAL	SNA	D	
5.18-67	6003-000221	SCREW-TAPTITE	SA	D	
5.18-68	JC39-00462A	HARNESS-SCF_EMPTY	SA	D	
5.18-69	JC39-00477A	HARNESS-MOTOR_SW	SA	D	

5.19 Fax Unit



Fax Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.19-0	JC96-04081B	ELA HOU-FAX; Option Unit	SA	A	
5.19-1	JC63-00822B	COVER-M_LIUUPPER	SNA	D	
5.19-2	JC63-00823B	COVER-M_LIUBOTTOM	SNA	D	
5.19-3	JC61-01396A	BRACKET-P_LIU	SNA	D	
5.19-4	JC92-01699A	PBASUB-FAX_PARALLE	SA	D	
5.19-5	6003-000221	SCREW-TAPTITE	SNA	D	

5.20-1 Main



Main Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-1-0	JC96-03908C	ELA HOU-FINISHER; Option Unit	SNA	-	
5.20-1-1	-	FRAME UNIT	SNA	-	
5.20-1-2	-	STACKER UNIT	SNA	-	
5.20-1-3	-	EXTENTION TRAY UNIT	SNA	-	
5.20-1-4	JC81-03773A	EJECTOR UNIT	SA	-	
5.20-1-5	-	COMPILE UNIT	SNA	-	
5.20-1-6	-	FEED UNIT	SNA	-	

5.20-2 Frame Unit



Frame Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-2-0	-	FRAME UNIT	SNA	-	
5.20-2-1	-	ASSY:SIDEPLATE:FRONT	SNA	-	
5.20-2-2	-	ASSY:SIDEPLATE:REAR	SNA	-	
5.20-2-3	-	BASE:LOWER	SNA	-	
5.20-2-4	JC81-03487A	AS-COVER TOP	SA	-	
5.20-2-5	-	STAY:DUPLEX GUIDE	SNA	-	
5.20-2-6	JC81-03767A	AS-COVER SCAN DUMMY	SA	-	
5.20-2-7	-	BKT:MAIN PCB	SNA	-	
5.20-2-8	-	BUTTON LOCKING SUPPORT:BLSS12	SNA	-	
5.20-2-9	JC81-03467A	AS-PCB MAIN ASSYJC81-03467A	SA	D	
5.20-2-10	-	ASSY:HINGE:DOOR	SNA	-	
5.20-2-11	-	E-RING: ·'4	SNA	-	
5.20-2-12	JC81-03768A	AS-COVERFRONT	SA	-	
5.20-2-13	JC81-03488A	AS-COVERDOORASSY	SA	-	
5.20-2-13-1	-	COVER-DOOR	SNA	-	
5.20-2-13-2	-	HANDLE-DOOR	SNA	-	
5.20-2-13-3	-	LABEL-STAPLEREPLACE	SNA	-	
5.20-2-13-4	. <u>-</u>	MAGNETCATCHPLATE:12x26	SNA	-	
5.20-2-13-5	-	SCREW-TAPTITEFH,+,B,M3,L8	SNA	-	
5.20-2-15	JC81-03468A	AS-MAGNETASSY	SA	D	
5.20-2-16	-	BKT:INTERLOCK:DOOROPEN	SNA	-	
5.20-2-17	JC81-03469A	AS-SWITCHMICRO	SA	D	
5.20-2-18	-	MICROWIRESADDLE	SNA	-	
5.20-2-19	-	SIDELOCKINGSADDLE	SNA	-	
5.20-2-20	-	COVERSADDLE:DS-1	SNA	-	
5.20-2-21	-	BKT:MAGNET:GUIDE	SNA	-	
5.20-2-23	-	LEAFSPRING:EARTH	SNA	-	
5.20-2-24	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.20-2-26	JC81-03470A	AS-MHINTERFACEASSY	SA	D	
5.20-2-27	-	ASSY:M/H:REARFRAME	SNA	-	
5.20-2-28	JC81-03490A	AS-COVERREAR	SA	-	
5.20-2-29	-	BKT:COVER:REAR	SNA	-	
5.20-2-30	-	STUD:SET	SNA	-	
5.20-2-31	JC61-00423A	BUSH-6_D	SNA	A	
5.20-2-32	-	E-RING: ·'4	SNA	-	
5.20-2-33	-	HOOK:INSTALL	SNA	-	
5.20-2-34	-	GUIDE:SET	SNA	-	
5.20-2-35	-	SHAFT:HOOK:SET	SNA	-	
5.20-2-36	-	PARALLELPIN: ·2x10	SNA	-	
5.20-2-37	-	T-SPRING:HOOK:SET	SNA	-	
5.20-2-38	-	ASSY:M/H:FRONTFRAME	SNA	-	
5.20-2-39	-	ASSY:M/H:INTERLOCK	SNA	-	
5.20-2-40	-	RATING-LABEL	SNA	-	

5.20-3 Stacker Unit



Stacker Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-3-0	-	STACKERUNIT	SNA	-	
5.20-3-1	JC81-03472A	AS-TRAYSTACKER	SA	-	
5.20-3-2	-	STAY:STACKER	SNA	-	
5.20-3-3	-	SIDEFRAME:STACKER	SNA	-	
5.20-3-4	-	ROLLER:STACKER	SNA	-	
5.20-3-5	-	LEAFSPRING:EARTH	SNA	-	
5.20-3-6	-	SHIELD:STACKER	SNA	-	
5.20-3-7	0604-001095	PISENSOR:GP1S73P2	SA	A	
5.20-3-8	-	ACTUATOR:STACKER	SNA	-	
5.20-3-9	-	BKT:SENSOR	SNA	-	
5.20-3-10	-	T-SPRING:ACTUATOR:STACK	SNA	-	
5.20-3-11	-	COVER:PCB	SNA	-	
5.20-3-12	JC81-03471A	AS-MSSTACKERASSY	SA	D	
5.20-3-13	-	BKT:MOTOR:STACKER	SNA	-	
5.20-3-14	-	BKT:SUPPORT:MORTOR	SNA	-	
5.20-3-15	-	BKT:WORM:STACK	SNA	-	
5.20-3-16	-	SHAFT:WORMWHEEL	SNA	-	
5.20-3-17	-	E-RING:4	SNA	-	
5.20-3-18	JC61-00423A	BUSH-6_D	SA	A	
5.20-3-19	JC81-03489A	AS-WORMSTACKER	SA	E	
5.20-3-20	-	SHAFT:WORM	SNA	-	
5.20-3-21	-	PARALLELPIN:210	SNA	-	
5.20-3-22	JC81-03484A	AS-MOTORDC	SA	D	
5.20-3-23	JC81-03525A	AS-BELTSTACKER	SA	E	
5.20-3-24	JC81-03491A	AS-PULLEYS2M48T	SA	E	
5.20-3-25	JC81-03524A	AS-W_WHEELSTACKER	SA	E	
5.20-3-26	JC81-03492A	AS-GEARPINION18T	SA	E	
5.20-3-27	-	SHAFT:STACKER:DRIVE	SNA	-	
5.20-3-28	-	PARALLELPIN:214	SNA	-	
5.20-3-29	JC81-03523A	AS-GEARSPURZ35	SA	D	
5.20-3-30	-	STUD:STACKER:LIFT	SNA	-	
5.20-3-31	-	ASSY:M/H:STKTOPSNR	SNA	-	

5.20-4 Extension Tray Unit



Extension Tray Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-4-0	-	EXTENTIONTRAYUNIT	SNA	-	
5.20-4-1	JC81-03769A	AS-SUPPFINGERASSY_F	SA	-	
5.20-4-1-1-1	JC81-03483A	AS-TRAYBERO	SA	-	
5.20-4-1-1-2	-	BKT:TRAY:BERO:ASSY	SNA	-	
5.20-4-1-1-3	JC81-03494A	AS-RACKPINIONZ18	SA	E	
5.20-4-1-1-4	-	SHAFT: RACKPINION	SNA	-	
5.20-4-1-1-5	-	PARALLELPIN:2x10	SNA	-	
5.20-4-1-1-6	JC81-03521A	AS-GEARZ30	SA	E	
5.20-4-1-1-7	-	ROLLER:BERO:LOWER	SNA	-	
5.20-4-1-1-8	-	E-RING:2.5	SNA	-	
5.20-4-1-1-9	-	ROLLER:BERO:UPPER	SNA	-	
5.20-4-1-1-10	-	SHAFT:ROLLER:BERO	SNA	-	
5.20-4-1-1-11	-	E-RING:3	SNA	-	
5.20-4-1-1-12	JC61-00423A	BUSH-6_D	SA	-	
5.20-4-1-1-13	-	E-RING:4	SNA	-	
5.20-4-2	JC81-03770A	AS-SUPPFINGERASSY_R	SA	-	
5.20-4-2-1-1	JC81-03483A	AS-TRAYBERO	SA	-	
5.20-4-2-1-2	-	BKT:TRAY:BERO:ASSY	SNA	-	
5.20-4-2-1-3	JC81-03494A	AS-RACKPINIONZ18	SA	E	
5.20-4-2-1-4	-	SHAFT:RACKPINION	SNA	-	
5.20-4-2-1-5	-	PARALLELPIN:2x10	SNA	-	
5.20-4-2-1-6	JC81-03521A	AS-GEARZ30	SA	E	
5.20-4-2-1-7	-	ROLLER:BERO:LOWER	SNA	-	
5.20-4-2-1-8	-	E-RING:2.5	SNA	-	
5.20-4-2-1-9	-	ROLLER:BERO:UPPER	SNA	-	
5.20-4-2-1-10	-	SHAFT:ROLLER:BERO	SNA	-	
5.20-4-2-1-11	-	E-RING:3	SNA	-	
5.20-4-2-1-12	JC61-00423A	BUSH-6_D	SA	-	
5.20-4-2-1-13	-	E-RING:4	SNA	-	
5.20-4-3	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.20-4-4	-	FRAME:BERO	SNA	-	
5.20-4-5	JC81-03493A	AS-GEARZ20	SA	E	
5.20-4-6	JC81-03522A	AS-GEARZ60	SA	E	
5.20-4-7	JC81-03473A	AS-MOTORPMASSYZ18	SA	D	
5.20-4-8	-	SHAFT:TRANS:BERO	SNA	-	
5.20-4-8-1-12	JC61-00423A	BUSH-6_D	SA	-	
5.20-4-8-1-13	-	E-RING:4	SNA	-	

5.20-5 Ejector Unit



Ejector Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-5-0	JC81-03773A	AS-EJECTORUNITASSY	SA	-	
5.20-5-1	-	FRMAE:FRONT:EJECT	SNA	-	
5.20-5-2	-	T-SPRING:LATCH:SCU	SNA	-	
5.20-5-3	-	HOOK:CAM:EJECT	SNA	-	
5.20-5-4	JC81-03526A	AS-GEARCAMSCU	SA	E	
5.20-5-5	-	E-RING:4	SNA	-	
5.20-5-6	JC81-03495A	AS-SPURGEARZ19	SA	E	
5.20-5-7	-	ASSY:BKT:DRIVING:EJECT	SNA	-	
5.20-5-8	JC81-03504A	AS-SPURGEARZ30	SA	E	
5.20-5-9	JC81-03503A	AS-SPURGEARZ19SCU	SA	E	
5.20-5-10	JC81-03502A	AS-GEARM08Z19M05Z50	SA	E	
5.20-5-11	JC81-03501A	AS-PULLEYS2MT40M05T24	SA	E	
5.20-5-12	-	BKT:DCMOTOR:EJECT	SNA	-	
5.20-5-13	0604-001095	PISENSOR:GP1S73P2	SA	A	
5.20-5-14	JC81-03474A	AS-MOTOREJECT	SA	D	
5.20-5-15	C81-03500A	AS-BELTB35S2M118J	SA	-	
5.20-5-16	-	MICROWIRESADDLE	SNA	-	
5.20-5-17	-	FRAME:BELT:EJECT:FRONT	SNA	-	
5.20-5-18	JC61-00424A	BUSH-4_D	SA	-	
5.20-5-19	C81-03499A	AS-PULLEYS2M34TJ	SA	-	
5.20-5-20	-	PLATESPRING:TIGHTNER:EJECT	SNA	-	
5.20-5-21	-	PARALLELPIN:2x10	SNA	-	
5.20-5-22	JC81-03498A	AS-PULLEYS2M20T	SA	E	
5.20-5-23	JC81-03497A	AS-PULLEYDRVS2M34T	SA	E	
5.20-5-24	JC81-03496A	AS-PULLEYS2M25T	SA	E	
5.20-5-25	JC81-03513A	AS-BELTB35S2M144	SA	E	
5.20-5-26	-	FRAME:BERO	SNA	-	
5.20-5-27	JC81-03512A	AS-BELTASSYEJECT	SA	E	
5.20-5-27-1	-	BELT-EJECTB130S2M370	SNA	-	
5.20-5-27-2	-	HOLER-BELTEJECT	SNA	-	
5.20-5-28	-	SHAFT:BELTTRANS:EJECT	SNA	-	
5.20-5-29	-	SHAFT:SCU	SNA	-	
5.20-5-30	-	HOLDER:SCU	SNA	-	
5.20-5-31	-	PADDLE:SCU	SNA	-	
5.20-5-32	-	ASSY:M/H:EXTTRAYHOMESNR	SNA	-	
5.20-5-33	-	SHAFTD-CUT:GRIPHINGE:EJECT	SNA	-	
5.20-5-34	-	GRIPBASE:FRONT:EJECT	SNA	-	
5.20-5-35	-	GRIPLINK:EJECT	SNA	-	
5.20-5-36	-	E-SPRING:GRIP	SNA	-	
5.20-5-37	-	SHAFT:GRIPHINGE:EJECT	SNA	-	
5.20-5-38	-	GRIPBASE:REAR:EJECT	SNA	-	
5.20-5-39	-	ROLLER:GRIP:EJECT	SNA	-	
5.20-5-40	-	PIN:ROLLER:EJECT	SNA	-	

Ejector Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-5-41	-	FRAME:BELT:EJECT:REAR	SNA	-	
5.20-5-42	-	FRAME:RETURN:EJECT	SNA	-	
5.20-5-43	-	FRAME:REAR:EJECT	SNA	-	
5.20-5-44	-	ROTATOR:CAM:SCU	SNA	-	
5.20-5-45	-	HOOK:SPRING:SCU	SNA	-	
5.20-5-46	-	E-SPRING:CLUTCH:SCU	SNA	-	
5.20-5-47	JC81-03772A	AS-EJTBELTSUBASSY	SA	E	
5.20-5-48	-	SHAFT:BELTPULLEY:EJECT	SNA	-	
5.20-5-49	JC61-00423A	BUSH-6_D	SA	-	

5.20-6 Compile Unit



Compile Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-6-0	-	COMPILEUNIT	SNA	-	
5.20-6-1	-	COVER:COMPILE:UPPER	SNA	-	
5.20-6-2	-	SHAFT:PADDLE	SNA	-	
5.20-6-3	-	E-RING:3	SNA	-	
5.20-6-4	JC61-00424A	BUSH-4_D	SA	-	
5.20-6-5	-	ACTUATOR:HOME:PADDLE	SNA	-	
5.20-6-6	JC81-03482A	AS-PADDLECOMPILE	SA	D	
5.20-6-7	JC81-03510A	AS-GEARPADDLEZ56	SA	E	
5.20-6-8	-	BKT:MOTOR:PADDLE	SNA	-	
5.20-6-9	JC81-03473A	AS-MOTORPMASSYZ18	SA	D	
5.20-6-10	JC81-03475A	AS-STAPLERASSYEH-C590	SA	D	
5.20-6-10-1	JC81-03481A	AS-CARTRIDGESTAPLERNo.590X	SA	D	
5.20-6-10-2	JC81-03476A	AS-STAPLESREFILLNo.505XW	SA	-	
5.20-6-11	-	GUIDE:STAPLER	SNA	-	
5.20-6-12	-	BASEBKT:STAPLER	SNA	-	
5.20-6-13	C81-03511A	AS-FRONTJOGGERASSY	SA	-	
5.20-6-13-1	-	FRAME:COMPILE:FRONT	SNA	-	
5.20-6-13-2	-	LMBUSH:TAMPER	SNA	-	
5.20-6-13-3	-	SIDEFENCE:TAMPER:FRONT	SNA	-	
5.20-6-13-4	0604-001095	PHOTO-INTERRUPTER	SA	Α	
5.20-6-13-5	-	HOLDER:BELT:TAMPER:FRONT	SNA	-	
5.20-6-13-6	-	LMSHAFT:TAMPER	SNA	-	
5.20-6-13-7	-	E-RING:4	SNA	-	
5.20-6-13-8	JC81-03509A	AS-BELTB40S2M290	SA	E	
5.20-6-13-9	-	HOLLOWSHAFT:D_6	SNA	-	
5.20-6-13-10	JC81-03508A	AS-PULLEYT20TAMPER	SA	E	
5.20-6-13-11	-	ROLLER:TAMPER	SNA	-	
5.20-6-13-12	-	BKT:MOTOR:TAMPER	SNA	-	
5.20-6-13-13	JC81-03486A	AS-MOTORPMASSYS2M12T	SA	D	
5.20-6-13-14	-	E-SPRING:TIGHTNER:TAMPER	SNA	-	
5.20-6-13-15	-	SCREW-TAPTITEM3L10	SNA	-	
5.20-6-13-16	-	SCREW-TAPPINGM3L8	SNA	-	
5.20-6-14	JC81-03507A	AS-REARJOGGERASSY	SA	-	
5.20-6-14-1	-	FRAME:COMPILE:REAR	SNA	-	
5.20-6-14-2	-	SIDEFENCE:TAMPER:REAR	SNA	-	
5.20-6-14-3	-	HOLDER:BELT:TAMPER:REAR	SNA	-	
5.20-6-14-4	-	C-SPRING:TAMPER	SNA	-	
5.20-6-15	-	DAMPER-SPONGE	SNA	-	

5.20-7 Feed Unit



Feed Unit Parts List

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-7-0	-	FEEDUNIT	SNA	-	
5.20-7-1	-	GUIDE:EXIT:UPPER:ASSY	SNA	-	
5.20-7-2	-	ACTUATOR:FEED	SNA	-	
5.20-7-3	-	T-SPRING:ACTUATOR:FEED	SNA	-	
5.20-7-4	-	LEAFSPRING:FEED	SNA	-	
5.20-7-5	-	ROLLER:IDLE:FEED	SNA	-	
5.20-7-6	0604-001095	PHOTO-INTERRUPTER	SA	A	
5.20-7-7	JC67-00125A	ANTI-STATICBRUSH	SA	-	
5.20-7-8	-	MICROWIRESADDLE	SNA	-	
5.20-7-9	-	GUIDE:EXIT:LOWER	SNA	-	
5.20-7-10	-	GUIDE:COMPILE	SNA	-	
5.20-7-11	JC81-03506A	AS-PADDLESUBASSY	SA	E	
5.20-7-12	-	ASSY:M/H:EJECTHOMESNR	SNA	-	
5.20-7-13	JC61-00424A	BUSH-4_D	SA	-	
5.20-7-14	JC81-03505A	AS-GEARPDLZ18M05	SA	E	
5.20-7-15	-	E-RING:3	SNA	-	
5.20-7-16	-	ACTUATOR:EJECTOR	SNA	-	
5.20-7-17	-	T-SPRING:ACTUATOR:EJECT	SNA	-	
5.20-7-18	JC81-03480A	AS-SENSORPHOTO	SA	D	
5.20-7-19	-	BKT:PADDLE:SUB	SNA	-	
5.20-7-20	-	SHAFT:TRANS:SUBPADDLE	SNA	-	
5.20-7-21	-	BUSH-6_D	SNA	-	
5.20-7-22	JC81-03520A	AS-GEARSUBPDLZ34	SA	E	
5.20-7-23	-	E-RING:4	SNA	-	
5.20-7-24	JC81-03519A	AS-GEARSUBPDLZ22	SA	E	
5.20-7-25	JC81-03518A	AS-GEARSUBPDLZ18M08	SA	E	
5.20-7-26	-	SHAFT:TRANS:SUBPADDLE:FEED	SNA	-	
5.20-7-27	-	PARALLELPIN:2x10	SNA	-	
5.20-7-28	JC81-03517A	AS-PULLEYT30S2M	SA	E	
5.20-7-29	-	GUIDE:OPEN:DUPLEX	SNA	-	
5.20-7-30	-	MAGNETCATCHPLATE:12x26	SNA	-	
5.20-7-31	-	COVER:ACTUATOR:DUPLEX	SNA	-	
5.20-7-32	-	ACTUATOR:DUPLEX	SNA	-	
5.20-7-33	-	T-SPRING:ACTUATOR:DUPLEX	SNA	-	
5.20-7-34	-	BKT:HINGE:GUIDE	SNA	-	
5.20-7-35	-	SHAFT:HINGE:GUIDE	SNA	-	
5.20-7-36	-	GUIDE:OPEN	SNA	-	
5.20-7-37	-	ACTUATOR:FEED	SNA	-	
5.20-7-38	-	T-SPRING:ACTUATOR:STACK	SNA	-	
5.20-7-39	-	GUIDE:ENTRANCE:UPPER	SNA	-	
5.20-7-40	-	GUIDE:ENTRANCE:LOWER	SNA	-	
5.20-7-41	JC81-03477A	AS-ROLLEREXIT	SA	D	
5.20-7-42	-	ASSY:M/H:EXITSNR	SNA	-	
Feed Unit Parts List

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	*Service	*Grade	Remark
5.20-7-43	-	BEARING:6	SNA	-	
5.20-7-44	-	BKT:MOTOR:FEED:EXIT	SNA	-	
5.20-7-45	JC81-03479A	AS-MOTORHBASSY	SA	D	
5.20-7-46	-	ASSY:M/H:MIDSNR	SNA	-	
5.20-7-47	JC81-03516A	AS-BELTB30S2M244	SA	E	
5.20-7-48	JC81-03485A	AS-ROLLERENT	SA	-	
5.20-7-49	JC81-03515A	AS-PULLEYT33S2M	SA	E	
5.20-7-50	-	BKT:MOTOR:FEED:ENT	SNA	-	
5.20-7-51	JC81-03478A	AS-MOTORPMASSY	SA	D	
5.20-7-52	-	ASSY:BKT:TIGHTNER	SNA	-	
5.20-7-53	-	E-SPRING:TIGHTNER:FEED	SNA	-	
5.20-7-54	JC81-03514A	AS-BELTB30S2M354ENT	SA	E	
5.20-7-55	JC81-03771A	AS-FEEDUNITASSY	SA	E	
5.20-7-56	-	E-RING:2.5	SNA	-	

8. Block Diagram

8.1 System Block Diagram





8.3 DADF Control Block Diagram



9. Connection Diagram

9.1 System Connection Diagram





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PaperEmpty -Sensor

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Elevator Motor

Cassette Tray Set

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PaperSize Switch Board

Elev. UperLimit Sensor

9.2 SCF Connection Diagram

Connection Diagram

Interface Lower (Next SCF)

9.3 DADF Connection Diagram



9.4 OP Main Connect Diagram





10. Finisher Unit

10.1 Summary of the Finisher Unit

10.1.1 Product summary

- (1) High Speed System : 35ppm with minimized skip-pitches.
- (2) Heavy Duty Design : 50 sheets stapling / 500 sheets stacking / 1,000K Life
- (3) Paper Spec. : Length (148~357mm)°øWidth (98-216mm) (60~163gsm)
- (4) Staple Cartridge : 5,000 staples / cartridge
- (5) Configuration : Embed type

10.1.2 Appearance



10.2 System Configuration



10.3 SPECIFICATION

10.3.1 Physical

(1) Size : Without Stacker : W 498 X D 390 X H 284 (mm) With Stacker : W 726 X D 390 X H 300 (mm)

(2) Weight : 11.0 kgf

10.3.2 Connection

< Mechanical connection >

(1) Paper Registration : Center Registration

(2) Docking alignment position : 3 Docking Pins and 2 Latches

< Electrical Connection >

- (1) Control command : 3.3V
- (2) Connection : D-Sub Connector (Rear side)
- (3) Control specification : Gradco I/F Specification for Samsung

< Power Supply >

- (1) Power Supply : Engine supplies 24V / 5V / 3.3V to Finisher
- (2) Input Power : 24V±10%, 5 ∨ ±5%, 3.3 ∨ ±5%
- (3) Rating Current : 24.0 V, 3.0 A (Peak 4.5A for 25ms MAX.)

5.0 V, 0.5 A 3.3 V, 0.6 A

10.3.3 Functions

< Basic Function >

- (1) Stacking : 500 sheet with 20lb sheet
- (2) Stapling : 50 sheet stapling with 20lb sheet

: 5,000 staples per a stapler cartridge

- (3) Offset at Non Staple job : Available
- (4) Offset at Stapled job : Available (Gradco cannot avoid infringing the Canon's Patent "JP 2531751" for this stapling with Offset stacking mode)

10.3.4 Media

(1) Paper orientation



(2) Paper Size : Length (148.357mm) ×Width (98.216mm)

(3) Paper Weight : 60.163g/m² (16.53lb)

< Operating Mode Table >

	Stack	Staple	Offsetting	
Width 98C ~ 182mm	0	х	х	60C ~ 163g/m² 16C ~ 53lb
Width 182mC ~216mm	0	0	0	60C ~ 163g/m² 16C ~ 53lb
Multi media	0	Х	Х	(Note1)

Note1) Multi-Media are not guaranteed for the performance (No dropping, No miss-Ordering)

(4) Paper Type : PPC paper (Coefficient of sliding friction: Max. 0.6)

Note1) Tracing paper / Label / OHP / Envelope are not guaranteed for the performance (No dropping, No miss-Ordering)

Note2) Pre punched PPC paper is not guaranteed for the performance

(5) Standard Test Paper (based on Finisher Core Media List from Samsung)

	Туре	Size	Weight	Manufacturer
1	Xerox 4024 DP	Letter	20lb	Xerox
2	Xerox Premier	A4	80 g/m²	Xerox
3	Samsung Premier	A4	75 g/m²	Samsung

10.4 PERFORMANCE

10.4.1 Input paper conditions

Paper delivery from Engine :

 Printing : Simplex / Duplex
 Output : Face Down
 Note) Odd pages should be face down exit at duplex print mode.

 Page order : 1 to N
 Registration : Feeding Center

- Engine speed : 35.45ppm

• Feed Speed (Engine to Finisher)

Conditions	Value	Note
Feed speed from Engine	Max. 282.75mm/sec	
Inter-gap A	Min.1.333sec	
Inter-gap B	Min. 0.3466 sec	



Note) Skip pitch insertion is required between previous and next job at stapling mode, and 1 sheet ejecting with offset .

10.4.2 Curl amount from Engine

(1) Allowance of curl : |A MAX| ≤12.7 mm (1/2") R ≥80 mm (Guarantee feeding function, sensing)
(2) Standard condition of curl : |A MAX| ≤7 mm R ≥40 mm (Guarantee functions, performance, and reliability)

1) This curl condition insures the stacking performance.

2) Ignore any trouble due to the paper curl of the located the top position in the bunch of sheets without stapled.

3) It is out of spec that paper curl increasing by the time passing.

<Curl measurement method >

Media : Test paper

Environment : Test environment

Method : Measure the curl of 10 sheets on the flat board (grass) immediately after printed out,



10.4.3 Electric static charge amount from Engine

- : $\leq 0.5 \text{ kV}$ per sheet
- (Simplex / Duplex)
- Registration and skew from Engine

: A \leq 3.0 mm



- Standard test pattern of printing : Samsung's Printing Pattern

10.4.4 Stapling

10.4.4.1 Printing orientation

(This finisher can't staple on a suitable position if printing direction is not as follows.)



10.4.4.2 Position of stapling



10.4.5 Machine life

: 1,000,000 sheets or 5 years

(Excluding Periodical replacement part)

10-8 Service Manual

11. Network Printer Server

11.1 Network Printer

11.1.1 Network Card Model Names

- SCX-5315 Series : McKinley Plus
- SCX-4720 Series : Rocky2_SEC
- SCX-4720FN : Rocky2(Sec)_Plus Phy B'd Network Basic Model
- SCX-6x20 Series : McKinley2_SEC
- SCX-6x20FN : McKinley2_SEC Network Basic Model
- SCX-5x30 Series : Elbert Network On board, Network Basic Model
- SCX-6x22 Series : Elburz Phy B'd Network, Network Basic Model
- CLX-3160 Series : Iris Network On board, Network Basic Model
- SCX-4725FN : Whitney2 Network On board Network Basic Model
- SCX-6x45 Series : Jungfrau Network Basic Model (PCI)

11.1.2 Optional Network Card Model Names

- ML-00NB, ML-00NC, ML-00NE, ML-00NF, CLP-N600A
 Optional internal wired network card for PRINTER
- ML-00LB, ML-00LC, ML-00LE, ML-00LF, CLP-N600B
 Optional internal wired/wireless network card for PRINTER
- ML-00NA
 Old optional internal wired network card
- SCX-00NB
 Optional internal wired network card for MFP
- SCX-00LA
 Optional internal wired/wireless network card for MFP
- SCX-00NA
 Optional internal wired network card for Mckinley plus only
- SCX-6320NA
 Optional internal wired network card for Mckinley2 only

11.1.3 External Network Card Model Names

- ML-00LA: External wired/wireless network printer server
- ML-00ND: External wired network printer server

11.2 Printer Connection Method

- Network Card Type



- PHY Board Type



- Network Printer on-board Type



- Network Card (SCX-6320NA/SEE)



- Network Card (NPC3H)

- · ML-3561N
- · CLP-600N
- · ML-00NF/00LF

- · CLP-N600A
- · CLP-N600B
- SCX-6x45 Series



- Link Sequence



- Network Data Reception



- Network Data Transmission



11.3 Network Card Firmware

Firmware Components

- Boot code ROM
- Application code ROM

Boot Code ROM

- Power-on initialization
- Mostly model-independent

Application Code ROM

- Doing major functions
- Model-dependent program



11.4 Network Card Firmware : Upgrade

Firmware Upgrade

- To upgrade network card firmware with latest version
- Use TFTP Protocol (Network Card Type Only)
- Use HTTP Protocol (Embedded Web Server, SWS, SWAS)

Requirements

- Target Network Card
 - Well Configuration of TCP/IP Protocol
 - In Local Area Network with Server Computer

- Server Computer

- · Well Configuration of TCP/IP Protocol
- · Samsung SyncThru Application in case of using TFTP.
- · SyncThru Web Service (SWS) in case HTTP.

11.5 SyncThru Web Admin Service Web based Printer Management Solution

- Detecting device on the network
- Performing Maintenance operations
- Getting detailed reports and statistics on device events



Administrator's PC

11.5.1 SWAS Features

Version	Model	Remark
3.xx.xx	Kestrel (ML-3560),	- Detecting device on the network
	Dove (ML-3051ND),	- Performing Maintenance operations
	Falcon (ML-8800), Elbert (SCX-5530EN),	 Display general , Supply, Protocols, Status, Usage meters, Alert, Diagnostics information
	DaVinci (CLP-600)	- Grouping and Managing devices
	DaVinci PDL (CLP-650)	- Setting of detection Protocol
	Iris (CLX-3160EN)	- Upgrading Firmware group of device
		- Reporting information of Alert and Consumables by HTML or Email
4.xx.xx	Oriole (ML-2570),	- Discovery Status Checking
	Stork (ML-4551ND),	- Set IP
	Elbruz (SCX-6322DN),	- Online Toner Ordering
	Whitney2 (SCX-4725)	- SSL / User Authentication
		- IPv6
		- SNMP V3
		- 13 Languages (Hungarian, Brazilian Portuguese, Turkish)
Plug-ins	Jungfrau And upcoming model	 Plug-in will be released in the samsung download center
		 Plug-ins can be installed on the SyncThru4.0 (Add- on functions)
		 Restrict user permission and monitor actual usage information (Job Accounting Plug-in)
		 Copy configuration settings into multiple devices (Device Cloning Plug-in)
		 Add, delete, copy and move files between devices (File Storage Plug-in)
		 Discovery and monitor about non- network printers (Local Device Discovery Plug-in)
		 Get the latest driver and management driver files (Driver Management Plug-in)
		- Pre-configure and install drivers in the remote hosts (Driver Management Plug-in)

11.5.2 Version Identifier

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11.5.3 SWAS Device Menu

· Detecting and Displaying devices on the network

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Device information in the network

· Display general , Supply, Protocols, Status, Usage meters, Alert, Diagnostics information



· Grouping and Managing devices

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· Setting of detection Protocol

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· Upgrading Firmware to multiple devices



Reporting information of Alert and Consumables by HTML or Email

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· Discovery results



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· Online toner ordering

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Service request	3EC00000	a2e98d 10.88.195.109	00.00.F0 A2 E9	ML-35	60 🔺	
SetiP	SEC000278	3446fdc 10.88.195.99	00:02:78:44:6F:	CLP-6	000	
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	1		DOMESTICAL PROPERTY OF A DEVELOPMENT OF A DEVELOPMENTA DEVELOPMENT OF A DEVELOPMENTA DEVELOPMENTA D			
				Toner ordering site	Order toner	

This button opens the page set in the toner ordering site.

Authentication settings

If SSL is not enabled ar then it's not possible to authentication. The link configuration.	nd configured enable leads to SSL	\backslash	Au the Au SS	thentication can be button. thentication works (L is enabled.	enabled with only when	
SyncThru Admin Service	Microsoft Interne	et Explorer				
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				m . 🦳 III 🖉		
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	ice			Contact	us Sitemap Help	
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Settings `	Authentication					· \ \
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Admin information +	Authentication d	isabled (Configu	ire SSL to enable auti	hentication)	Enable autho	entication
Authentication 👻	Type	User name				
Data storage settings ▹	Domain	RND/Roman				A
	Local	Sergey		Modify		
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			Confirm password			
					OK Canad	-
	4				UK Cancel	•
				Ad	d Change password	Delete
Version: 3.00.36	Copyright @ 1995-3	2005 SAMSUNG	A rights reserved			49.892
80 million	copyright correction					
2 Done			<u> </u>		Intern	et 🤤
User list shows user ac Domain and Local. The authentication is used a user profile (Local or Do	counts both fror method of according the typ omain).	n pe of	Ch uso	ange password for ers only.	Local	

11-16 Service Manual

11.6 Samsung SyncThru Web Service: General Information (MFP)

General Information

- Machine Status
- Supplies Status
- Billing/Counters
- Network Information
- Firmware Version
- Print Information



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11.7 Samsung SyncThru Web Service: Machine Settings (MFP)

Machine Settings

- System Setup
- Copy Setup
- User Authentication Setup
- E-mail Setup
- E-mail Notification Setup
- Reset
- ...

SyncThru	Centectus I Bite Map						
Home	Information Nachine Settings	Network Settings	Maintenance	Support			
Machine Settings	> System Setup > Paper Setup >>						
System Setup	Paper Size						
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Paper Setup	1147.1.1	1.44	21				
Copy Setup -	MP Tray :	Letter					
User Authentication -			10205				
E-mail Setup+	1 Paper Turn						
FTP Setup.	- Paper type						
SMB Setup -	Tray 1 :	Plain Paper	-				
Scan Setup -	MP Tray :	Plain Paper					
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English •	Comparing D 1995 2005 Dividiniko allaneta ma						



11.8 Samsung SyncThru Web Service: Network Settings

Network Settings

- General
- NetWare
- TCP/IP
- SLP
- SNMP
- Raw TCP/IP, LPR, IPP
- IP Filtering
- Wireless
- UPnP
- Reset

SyncThru Web Service - Mi	crosoft Internet Explo	rer				
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G Back + C) - E 2 0	Search Tevor	tes 🕑 🛄 • 🖉 🖂				Lucie as
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EtherTalk-	General		-			
NetWare -	Host Name		SEC000278446ee	6		
TCP/IP+	Location					
SLP+	Context		Administrator			
SNMP+	conact .		Pedimentation			
Raw TCP/IP,LPR,IPP+	24					
IP Filtering -	• Ethernet					
Wreless-	Speed Rate :		Automatic	-		
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11.9 Samsung SyncThru Web Service: Maintenance

Maintenance

- Firmware Upgrade
- Security

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• Home	Information Machine Settings Network Settings Maintenance Support	
Martanania Firmware Upgrade Security English	• Firmware Upgrade >> • Firmware Upgrade • Printer Firmware • Network Firmware File Upgrade	
1	Copyrights & 1995-2015 BAMEUNO. All rights reserved	Trusted stas

11.10 Samsung SyncThru Web Service: Support

Support

- Contact Information
- Link

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> Home	information Machine Bettings	Network Gettings Warrienance Europet	
Tutter	> Contact Information >>		2
Contact Information	System Administrator		
Link	Name		
Select Corgoage	Phone Number:		
English	Location :		
	E-mail Address :		
	• Samura Support		
	Customer Support Phone Number		
	Senices Phone Number :		
	Supply Phone Number :		
	Apply	Unda	
	Comprishen @ 1985-2005 SAMEUNIO All rights rev	erved	
6			O Trusted stee

11.11 Samsung SyncThru Web Service: Service (MFP)

Service

- http://NPC-IP-Address/service.html
- Tech Mode Password
- Data Setup
- Machine Test
- Report

🗿 Sync Thru Web Service - 1	Microsoft Internet Explorer		
파일(E) 편집(E) 보기(Y)) 월경학기(A) 도구(I) * 수위로 · ↔	· 🗿 🔄 🔄 프로가찾기 😵 미디어 🌖 연결	*
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> Home	Service Node		
Service Mode	> Tech Mode Password		1
Tech Mode Password -	* Tech Mode Password		
Data Setup -		Largentian and a state	
Machine Test-	Tech Mode Password :	MEN0-#1-9-3-4	
Report.			
Select Language			
English 💌			
	Copyrights @ 1995-2004 SAMSUNG All rights r	starved.	
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11.12 Samsung SyncThru Web Service: Authentication

General Setup

- Setup
- Enable Guest Account
- General Password
- Log Off Reminder

SyncThru Web Service 타망(F) 파침(E) 보기(V)	- Microsoft Internet Explorer 용겨상기(A) 도구(T) 도움망(H)		
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> Home	Information Machine Settings	Network Settings Maintenance	Support
Machine Settings System Setup - Copy Setup -	User Authentication > General Setup General		-
User Authentication General Setup	Setup	 No Authentication Require Network Authentication Require Local Authentication 	
E-mail Setup - FTP Setup - SMB Setup -	Enable Guest Account : Guest Password :		
Scan Setup> PCL> PS>	Log of Henniber	ir Undo I	
E-mail Notification Setup - LDAP Server Setup -	Committee & 1995-2006 SAME INC. All Links	internet	
Reset-	To appropriate a read active considered. His rights i		OLE I LA

11.13 Samsung SyncThru Web Service: Authentication (Local Authentication)

Local Authentication

- Index
- User Name
- Auth ID
- Password
- E-mail Address
- Phone Number

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SyncThru™ _{Web Se}	ervice		Contact us Silv	e Map SAMSUNC	271604C2	
> Home	Information	Machine Settings	Network Settings	Maintenance	Support	
Machine Settings	> User List Setup >>					*
System Setup -	Add User List					
Copy Setup -	Index -		1.1			
User Authentication -	index .					
General Setup	User Name :		bjyang			
 Local Authentication 	Auth ID :		auth1			
E-mail Setup -						
FTP Setup -	Password :		••••			
SMB Setup -	Retype password		••••			
Scan Setup -			E Colorita com			
PCL)			M Select to save r	new password.		
PS,	E-mail Address :		bjay@naver.com			
E-mail Notification Setup -	Phone Number:		011-222-4444			
LDAP Server Setup -						
Reset						
Select Language		Appl	Undo			

11.14 Samsung SyncThru Web Service: Authentication (Network Authentication)

Network Authentication (Kerberos Setup)

- Default Realm
- IP address or Host Name
- Kerberos Server and Port
- Backup Realm
- IP address or Host Name
- Kerberos Backup Server and Port

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SyncThru ^M Web Se	ervice	Contactus Silv	SAMSUNC.	cnasci
> Home	Information Machine Settings	Network Settings	Maintenance	Support
Machine Settings System Setup -	 Authentication > Network Authentication General 	on >>		*
Copy Setup -	Authentication Type:	Kerberos (Unix,	Linux)	
User Authentication -		C SMB (Mindows	NT AL	
General Setup		C SMB (Windows	ADS	
 Network Authentication 		C I DAP	1001	
E-mail Setup -		Love		
FTP Setup -	*Bonuired Information			
SMB Setup -	Default Realm:	cantiva		
Scan Setup -	ID Address or Heat Name	G D Addman		
PCL.	IP Address of Host Name.	C Hest News		
PS,	Katheren Sanar and Dat			
E-mail Notification Setup -	Kerberos Server and Port	10.66.194.126	: 100	
LDAP Server Setup -				_
Reset.	*Additional Information			
	backup realm.	Itds		
Select Language	IP Address or Host Name:	P Address		
English		C Host Name		
	Kerberos Backup Server and Port	1.1.1.1	: 88	
	Alternates			_
	App	ly Undo		-
8			- E - E	터넷

Network Authentication (SMB Setup)

- Default Domain
- IP address or Host Name
- SMB Server and Port
- Backup Domain
- IP address or Host Name
- SMB Backup Server and Port

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SyncThru ^M Web Se	rvice		Contact us Site	Map	<u> </u>	
> Home	Information	Machine Settings	Network Settings	Maintenance	Support	
Machine Settings System Setup - Copy Setup - User Authentication - General Setup Network Authentication	 Authentication > No General Authentication Type: 	itwork Authenticati	C Kerberos (Unix, C Kerberos (Windo C SMB (Windows) SMB (Windows)	Linux) ws ADS) NT 4) ADS)		•
E-mail Setup , FTP Setup , SMB Setup ,	*Required Information	in	C LDAP			
Scan Setup , PCL , PS ,	Default Domain: IP Address or Host Na	me:	C Host Name			
E-mail Notification Setup - LDAP Server Setup -	SMB Server and Port		10.88.195.117	: 139		
Reset. Select Language	*Additional Informat Backup Domain: Name or IP Address: SMB Backup Server a	nd Port	DM C IP Address Host Name 10.88.195.117	: 139		
٥		Appl	y Undo	0 1	19	•

Network Authentication (LDAP Setup)

- There is no setup of LDAP Server

 \cdot Server configuration of LDAP Server item is used to Auth Login

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SyncThru™ _{Web Se}	ervice	Successed
> Home	Information Machine Settings Network Settings Maintenance	Support
Machine Settings System Setup - Copy Setup - User Authentication - General Setup Network Authentication E-mail Setup -	 Authentication > Network Authentication >> General Authentication Type: C Kerberos (Unix, Linux) C Kerberos (Windows ADS) C SMB (Windows NT 4) C SMB (Windows ADS) C LDAP 	-
FTP Setup - SMB Setup - Scan Setup - PCL - PS - E-mail Notification Setup -	Apply Undo	
LDAP Server Setup , Reset , Select Language English		

11.15 Samsung SyncThru Web Service: LDAP Server Setup

LDAP Server Setup_1

- IP address or Host Name
- LDAP Server and Port
- Search Root Directory
- Authentication Method
- Match User's Login ID to the Following LDAP attribute:

E-mail Setup > LDAP Server Setup >>		-
LDAP Server		
IP Address or Host Name	@ IP Address	
	C Host Name Note: If Host Name is selected, the DNS Server Address should be mentioned in TCP/IP settings page.	
LDAP Server and Port	10.88.194.139 389 (1-65535)	
Optional Information		
Search Root Directory	dc=example.dc=com	
Authentication method	C Anonymous	
	@ Simple	
Match User's Login ID to the following LDAP attribute:	CN I	
Append Root to Base DN:	P Enable	
Login Name :	[cn=jembob	
Password		
Maximum Number of Search Results :	25 (0, 5~100)	
Search Timeout	[30 (0, 5-100) second(s)	

LDAP Server Setup_2

- Append Root to Base DN
- Login Name
- Password
- Maximum Number of Search Result
- Search Timeout
- LDAP Referral

E-mail Setup > LDAP Server Setup >>				-
LDAP Server				
IP Address or Host Name	@ IP Address			
	C Host Name			
	Note: If Host Name is Server Address should TCP/IP settings page	selected, be ment	the DNIS ioned in	
LDAP Server and Port	10.88.194.139	389	(1-65535)	
Optional Information				
Search Root Directory	dc=example.dc=com			
Authentication method	C Anonymous			
	@ Simple			
Match User's Login ID to the following LDAP attribute	CN 2]		
Append Root to Base DN:	🖗 Enable			_
Login Name :	cn=jenbob	ī		
Password		ī.		
Maximum Number of Search Results :	25	(0, 5~1	100)	
Search Timeout :	(30 (0, 5-100) second(s)	1		
LDAP Referral	Г			
1.5				-1

LDAP Server Setup_3

- Search Name Order
- From: Field Security Options

Search Name Order :	C Common Name	
	Email Address	
	C Sumame Given Name	
From: Field Security Options		
Perform LDAP query to Populate "From " Field	P Enable	

11.16 Samsung SetIP

Configuration of IP Address

- Mostly used at first installation of network printer
- IP address setting with MAC address only
- MAC address is written on printer's backside

Samsung SetIP Utility

- Running on Microsoft Windows OS only
- Automatic detection of Samsung network printers
- Manual setting of undetected network printers

Samsung SetIP: Application

SET IP					
00				SAMSUNG ELECTRONICS	
Printer Name Mac	: Address	IP Address	Subnet Mask	Default Gateway 🔺	
SEC000278e2e318 0003	278E2E318	10.88.195.199	255.255.255.0	10.88.195.1	
SEC000278447019 000	OFOA94FOF	10.88.195.110	255.255.255.0	10.88.195.1	
SEC0000f0ae58e7 TCP	YP Configura	ation			×
SEC0000f0ae542b	ETTA Sat	IP Addre	22		
SEC0000f0ac3f61			33		
SEC0000f0abab7c	Mara Adda				
SEC0000f0ab43b1	Mac Addr	ess;	0000F	-OAE542B	
SEC0000f0ab2447					
SEC0000f0ab134d	IP Addres	s:	10 88	194 249	
SEC0000f0aa9ee8			1 10 , 00	, 134 , 243	
SEC0000f0a94e43	Subnet M	ask:			
SEC0000f0a90601			200 , 200		
•	Default Ga	ateway :	10 . 88	. 194 . 1	
		Apply	Cancel	Reset	

11.17 TCP/IP Printing Protocol

Samsung Network Printer Port Printing

- TCP Port : 2000
- Port Monitor installation
- OS : Windows95/98/NT/ME

LPD (Line Printer Daemon) Printing

- TCP Port : 515
- OS : Unix, Linux, Windows OS (Win NT, 2K ~)

Microsoft Standard TCP/IP Printing

- TCP Port : 9100
- OS : Windows OS (Win 2K~)

IPP Printing Protocol

- TCP Port : 631
- OS : Windows OS (Win 2K~), Mac OS (MAC 10.3~)

11.18 Management Protocol



SNMP means Simple Network Management Protocol

11.19 HTTP

Web Server Protocol

- Used in Samsung SyncThru Web Admin Service
- Used in SyncThru Web Service (Embedded Web Server)
- Used in IPP 1.1 Protocol

11.20 Network models

Model Name	ML- 3050 Series	ML- 2570 Series	ML- 4550 Series	CLP- 300 Series	SCX- 5x30 Series	SCX- 6x22 Series	CLX- 3160 Series	SCX- 4725 Series	SCX- 6x45 Series
Project Name	Dove	Oriole	Stork	Gogh	Elbert	Elburz	Iris	Whitne y2	Jungfr au
Network Type	On- Board	On- Board	Phy- Board	On- Board	On- Board	Phy- Board	On- Board	On- Board	NPC3 - H
Software Platform	Platfor m	Platfor m	Platfor m	Platfor m	Platfor m	Platfor m	Platfor m	Platfor m	Platfor m
NetWare	0	×	0	Х	0	0	×	Х	0
EtherTalk	0	0	0	Х	0	0	×	0	0
Wireless	Opt	×	Opt	Х	Х	Х	×	Х	X
SWAS	3.0	4.0	4.0	3.0	3.0	4.0	3.0	4.0	4.05
Network Scan	×	×	×	Х	0	0	0	Х	0
Scan To Email	×	×	×	Х	0	0	0	Х	0
Scan To SMB	×	×	×	Х	0	0	×	Х	0
Scan To FTP	×	×	×	Х	0	0	×	Х	0
Network Authentication	×	×	×	×	×	×	×	×	0

12. Option Install Guide

12.1 Option List

IMAGE	NAME	SEC Code	Description
	ELA HOU-FINISHER	JC96-03908B	Stacking up and stapling the paper
	ELA HOU-SCF	JC96-03530B	Optional paper feeding cassette unit
ļ	ELA HOU-FAX	JC96-04081B	Equipment used to send and receive information along a tel-line after copying original document
	MEA UNIT-STAND HIGH	JC97-02819A	Convenient cabinet to move SCX-6345N easily and store various office supplies
	MEA UNIT-STAND LOW	JC97-02818A	Stand to move SCX-6345N easily
	PBA SUB-MEMORY DIMM MODULE	JC92-01539A	User extendable SDRAM up to 384MB system memory(Only DIMM module up to 256MB)
	PBA-OPTION_ENABLE	JC92-01861A	Network Scan Enable Key

12.2 Option Installation Guide













12-6

















13. Reference Information

This chapter contains the tools list, list of abbreviations used in this manual, and a guide to the location space required when installing the printer. A definition of test pages and Wireless Network information definition is also included.

13.1 Tool for Troubleshooting

The following tools are recommended safe and easy troubleshooting as described in this service manual.



13.2 Acronyms and Abbreviations

The table below explains abbreviations used in this service manual. The contents of this service manual are declared with abbreviations in many parts. Please refer to the table.

13.2.1 Acronyms

ABS	Automatic Background Suppression(a	FDI	Foreign Device Interface
	kind of copy feature)	FIA	Foreign Interface Attachment
APF	Automatic Paper Feeder(Tray)	FRU	Field Replaceable Unit
BOOTP	BOOTSTRAP PROTOCOL	FPOT	First Print Out Time
CCD	Charged Coupled Device	GW	GateWay
CIS	Contact Image Sensor	HH	High Temperature, High Humidity
СРМ	Copies Per Minute		(Testing Chamber conditions)
CP	Control Panel(= OPE)	HPVC	Halftone Printing Video Controller in
CQ	Copy Quality		(Graphic Processor for Copy)
CRU	Customer Replaceable Unit	IDC	International Data Corp.
CRUM	CRU Memory	IMAP	Internet Message Access Protocol
CW	Center Ware	IPP	Internet Printing Protocols
CWDP	Center Ware Device Discovery	IPM	Images Per Minutes
	Software(Samsung equivalent of Samsung's SvncThru)	IPX	Internetwork Packet Exchange
CWIS	Center Ware Internet Services	IQ	Image Quality
DADF	Duplex Auto Document Feeder	ITU	International Telecommunication
	(= DADH)		Union
DC	Direct Connect	JBIG	Joint Binary Image Group
DDNS	Dynamic Domain Name System		(a kind of image data coding method)
DHCP	Dynamic Host Configuration Protocol	JPEG	Joint Photographic Expert Group (a kind of image data coding method)
DLC	Data Link Control	LCD	Liquid Crystal Display
DNS	Domain Name System	LEF	Long Edge Feeding
ECM	Error Correction Mode	LL	Low Temperature, Low Humidity
ECP	Enhanced Capability Port		(Testing Chamber conditions)
e-Coil	Extended Coil technology for Rapid(Fast) Fusing.	LPR/LPD	Line Printer Daemon Protocols (LPR is a TCP-based protocol)
EH&S	Samsung Environment, Health,	LSU	Laser Scanning Unit
	& Safty	LUI	Local User Interface
ESMTP	Extended Simple Mail Transfer Protocol	MCBF	Mean Copy Between Failure
EP	Electro Photography	MDSP	Multiple Document Single Printout
EPC	Electric Pre-Collation	MFP	Multi-Functional Product
FCOT	First Copy Out Time	MH	Modified Huffman (a kind of image data coding method)

MIB	Management Information Base
MIME	Multipurpose Internet Mail Extensions
MR	Modified Read (a kind of image data coding method)
MMR	Modified and Modified Read (a kind of image data coding method)
MN std	Multi-National Standard
MSOK	Master SOK(System Operation Key)
MSO	Mixed Size Original
MP	Multi Purpose
MPBF	Mean Print Between Failure
MSI	Multi Sheet Input
MTBF	Mean Time Between Failure
MTTR	Mean Time To Repair
NCP	Network Control Protocol
NIC	Network Interface Card
NOS	Network Operating System
NN	Normal Temperature, Normal Humidity (Testing Chamber conditions)
NSDR	Non-Shut Down Rate(=USDR)
NW	Network
OD	Optical Density
OHD	On Hook Dial
OSOK	Optional SOK(System Operation Key)
OP	Operational Procedure
PCL	Printer Control Language
PDF	(Adobe) Portable Document Format
PPM	Pages Per Minutes
PQ	Print Quality
PS/3	PostScript Level-3
PVC	Printing Video Controller in the SPGPm(Graphic Processor for Printer)
QCD	Quality Cost and Delivery
	Quality, Cool, and Donvory

RT-OS	Real Time Operating System
RX	Receive
S2E	Scan-To-Email
SAD	Solid Area Density
SC	Service Call
SCF	Second Cassette Feeder
SDSP	Single Document Single Printout
SDMP	Single Document Multiple Printout
SDR	Shut Down Rate
SEF	Short Edge Feeding
SIR	Sacrified(or Standard) Image Reference
SOK	System Operation Key
sRGB	Standard RGB (Color Coordinate System)
SNMP	Simple Network Management Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol
TBC(or tbc)	To Be Confirmed
TBC(or tbc) TBD(or tbd)	To Be Confirmed To Be Determined
TBC(or tbc) TBD(or tbd) TIFF	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format
TBC(or tbc) TBD(or tbd) TIFF TRIM	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX UI	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit User Interface
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX UI UMC	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit User Interface Unit Manufacturing Cost
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX UI UMC UMR	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit User Interface Unit Manufacturing Cost Unscheduled Maintenance Ratio
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX UI UMC UMR UPnP	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit User Interface Unit Manufacturing Cost Unscheduled Maintenance Ratio Universal Plug and Play
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX UI UMC UMR UPnP USB	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit User Interface Unit Manufacturing Cost Unscheduled Maintenance Ratio Universal Plug and Play Universal Serial Bus
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX UI UMC UMR UMR UPnP USB USDR	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit User Interface Unit Manufacturing Cost Unscheduled Maintenance Ratio Universal Plug and Play Universal Serial Bus Un-Shut Down Rate(=NSDR)
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX UI UMC UMR UPnP USB USDR XCMI	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit User Interface Unit Manufacturing Cost Unscheduled Maintenance Ratio Universal Plug and Play Universal Serial Bus Un-Shut Down Rate(=NSDR) Samsung's Management Information Base
TBC(or tbc) TBD(or tbd) TIFF TRIM TTM TX UI UMC UMR UPnP USB USDR XCMI WA	To Be Confirmed To Be Determined (Adobe & Aldus) Tagged Image File Format Technical Retrofit Interim Maintenance Time to Market Transmit User Interface Unit Manufacturing Cost Unscheduled Maintenance Ratio Universal Plug and Play Universal Serial Bus Un-Shut Down Rate(=NSDR) Samsung's Management Information Base Warranty Action

13.2.2 Service Parts

ACRONYM	EXPLANATION
ELA HOU-SCANNER ASS'Y	ELA=Electrical Assembly, HOU =Housing
MEA UNIT-COVER PA EXIT ASS'Y	MEA= Mechanical Assembly, PA=Paper
PMO-TRAY EXTENTION MP NE	PMO= Processing Mold MP=Multi-Purpose(Bypass) tray NE=for NEC (common as Samsung Halk printer)
MEC-CASSETTE ASS'Y(LETTER)	MEC = Mechanic Combined unit
COVER-M-FRONT	M=Mold
MPR-NAME/PLATE	MPR= Machinery Press,
UNIT-LSU	LSU =Laser Scanning Unit
SMPS-SMPS(V1)+HVPS	SMPS =Switching Mode Power Supply HVPS =High Voltage Power Supply
ELA-OPC UNIT SET	OPC=Organic Photo-Conductive
ELA HOU-MP ASS'Y	MP =Multi-Purpose (Bypass) tray
PBA MAIN-MAIN	PBA = Printed circuit Board Assembly
PMO-CONNECT PAPER MFP	MFP =Multi-Functional Peripheral
FAN-DC	DC =Direct Current
CBF POWER STITCH GRAY	CBF= Cable Form
MEA UNIT GUIDE CST PA ASS'Y	CST=Cassette(Paper tray), PA=Paper
PBA LIU	PBA =Printed circuit Board Assembly LIU =Line Interface Unit for FAX
SHIELD-P_MAIN LOWER	P=Press
CBF HARNESS-LIU GND	LIU =Line Interface Unit for FAX GND= Ground
PMO-COVER FEED AY	AY=Assembly
PMO-COVER BRKT MOTER	BRKT=Bracket
CBF HARNESS-LSU	LSU =Laser Scanning Unit
IPR-SHIELD SMPS UPPERI	IPR=Iron Press
PMO-BUSHING P/U.MP	P/U=Pickup MP=Multi-Purpose (Bypass) Tray
PMO-HOLDER GEAR TRr	TR= Transfer Roller
SPRING ETC-TR_L	TR_L=Transfer Roller - Left

ACRONYM	EXPLANATION
PMO-CAM JAM REMOVE	PMO-CAM= Processing Mold-CAM
PMO-LOCKER DEVE	DEVE=Developer
SPECIAL SCREW(PANNEL MFP)	MFP =Multi-Functional Peripheral
A/S MATERAL-DUMMY UPPER ASS'Y	A/S=After-Service
MCT-GLASS ADF	MCT= Machinery Cutting ADF=Automatic Document Feeder
PPR-REGISTRATION EDGE(F)	PPR= Processing Press
IPR-HOLDER GLASSI	PR=Iron Press
MCT-GLASS SCANNER(LEGAL)	MCT= Machinery Cutting
CBF HARNESS-OPE	OPE=Operation Panel(Control Panel)
PBA SUB-D_SUB	PBA SUB-D_SUB =>Sub Printed circuit Board Assembly for the D-SUB type electrical connector (D-Sub) a kind of the connector type(shape 'D')
COVER-M-CCD CABLE	M=Mold CCD=Charge Coupled Device
COVER-SCAN LOWER(UMAX)	UMAX=> Supplier's name for CCD module
ICT-INSERT SHAFTI	ICT= Iron Cutting
IPR-BRK SCAN BD	IPR=Iron Press BRK=Bracket BD= Board
CBF SIGNAL-CCD FFC	CCD = Charge Coupled Device FFC =Flexible Flat Cable
COVER-M-OPE	M=Mold OPE=Operation Panel(Control Panel)
KEY-M-COPY	M=Mold
PLATE-M-ALPHA KEY	M=Molde ALPHA=Alphabet
PMO-GUIDE DP SIDE	DP=Duplex
RING-CS	CS= Compress
GEAR-MP/DUP DRV	MP =Multi-Purpose (Bypass) tray DUP DRV = Duplex Driver
IPR-BRKT G DUPI	PR=Iron Press BRKT=BRACKET G= Ground DUP=Duplex
PMO-BUSHING TX(B4)	TX=Transmit
PMO-TRAY CASE, MP	MP=Multi-Purpose tray(Bypass tray)

ACRONYM	EXPLANATION
SPRING CS RE	CS=Compress RE=Rear
SPRING CS FR	CS=Compress FR=Front
PMO-BUSHING FINGER, F	F=Front
ICT-SHAFT-EXIT LOWER ID	ID=Idler
SPRING-EXIT ROLL FD	FD=Face Down
PMO-BUSHING_P/U,MP	P/U=Pickup MP =Multi-Purpose (Bypass) tray
PMO-HOLDER CAM MPF	MPF=Multi-Purpose Feeder(=MP)
PMO-GEAR P/U MPF	P/U=Pickup
MFP =Multi-Functional Peripheral	
RPR-RUBBER PICK UP,MP	RPR=Rubber Press
PBA SUB-MP SEN	PBA SUB-MP-SEN =>Sub Printed circuit Board Assembly for the MP-SEN(= Multi-Purpose (Bypass) tray-Sensor)
A/S MATERAL-PICKUP,MP	
FOOT-ML80	
HOLDER CATCH CST MC2	MC2=>McKInley2 (Samsung Project code name)
IPR-GROUND PLATE A(OPC)	OPC=Organic Photo-Conductive
ELA M/M-AUD SPEAKER	ELA M/M => Electrical Assembly M/M AUD=Audio
CBF HARNESS-OPC GND	OPC GNG=Organic Photo-Conductive-Ground
IPR-GROUND PLATE SCF	SCF=Second Cassette Feeder(Tray2)
PBA SUB-PTL	PBA SUB-PTL=>Sub Printed circuit Board Assembly for the PTL(= Pre Transfer Lamp)
PBA SUB-FEED+P.EMP SEN.	PBA SUB-FEED=>Sub Printed circuit Board Assembly for the feeder EMP SEN=Empty Sensor
MOTOR STEP-MCK2(MAIN)	
GEAR-EXIT/U	EXIT/U=EXIT/Upper
GEAR-RDCN FEED INNER	RDCN=Reduction
CBF-HARNESS-MAIN-THV WIRE	THV =Transfer High Voltage
CBF-HARNESS-MAIN-MHV WIRE	MHV= High Voltage(Charge Voltage)

ACRONYM	EXPLANATION
GEAR-EXIT/U,ID	U=Upper ID=Idler
IPR-TERMINAL FU	FU=Fuser
PMO-BEARING H/R-F	H/R-F=Heat Roller - Front
BEARING-H/R L	H/R-L=Heat Roller -Left
PEX-ROLLER EXIT F_UP	PEX= Processing Extrude F_UP=Face Up
SPRING ETC-P/R	P/R=Pressure Roller
SPRING(R)-CAU-HOT-FU	CAU-HOT-FU = Caution Hot -Fuser
PMO-ARM ACTUATOR	PMO-ARM= Processing Mold Arm
LABEL(R)-HV FUSER	HV=High Voltage (220V)
LABEL(R)-LV FUSER	LV=Low Voltage (110V)
PPR-SPONG SHEET	PPR=Plastic Press
IPR-P_PINCH(SCAN)I	PR-P = Iron Press
ROLLER-REGI	REGI=Registration
PBA SUB-REGI	PBA SUB-REGI => Sub Printed circuit Board Assembly for the Registration
GROUND-P_SCAN ROLLER	GROUND-P =Ground-Press
IPR-GUARD C/O S/W	C/O = Cover Open S/W= Switch
MEA UNIT-TX STACKER	TX =Transmit
IPR-WASHER SPRING CU	CU=Curve

13.3 The Sample Pattern for the Test

The sample pattern shown in below is the standard pattern used in the factory. The life of the toner cartridge and the printing speed are measured using the pattern shown below. (The image is 70% of the actual A4 size).

13.3.1 A4 ISO 19752 Standard Pattern

This test page is reproduced at 70% of the normal A4 size

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	23 January 2004
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13.4 Wireless LAN

• This product uses a printing function with a wireless LAN, which is an option.

- The wireless LAN function uses a frequency instead of connecting LAN cable to connect data to an access point for print.
- For a wireless LAN connection, an AP is needed, It is possible to use wireless LAN onnection with wired LAN. Also, if AP is installed in an office or at home, the wireless LAN function can be simply used.
- Types of desk top PC (or Lap top) that uses the wireless LAN.

Division	Basic type	Recommend type
CPU	Over PENTIUM 233M	PENTIUM 300MHz
MEMORY	Over 64MB	Over 128MB
VIDEO CARD	Over 800X600	Over 1024X768
OS	Over WINDOWS 98	Over WINDOWS ME
INTERFACE CARD	A product has a certificated mark of Wi-Fi™	

• About the certificated mark of Wi-Fi™



- The Wi-Fi[™] is a registered trademark of WECA (Wireless Ethernet Compatibility Alliance). Over 50 of a wireless LAN companies are member of it. The most of main wireless networking companies are attending and the main companies are Lucent technologies, Cisco, Intel/Symbol, 3Com, Enterasys (Cabletron), Compaq, IBM, Nokia, Dell, Philips, Samsung electronic, Sony, Intersil, and so on. This mark certifies mutual compatibility among product has Wi-Fi[™] (IEEE 802.1) and it is certified as a standard of a wireless LAN market.

13.5 Selecting a location

Select a level, stable place with adequate space for air circulation. Allow extra space for opening covers and trays.

The area should be well-ventilated and away from direct sunlight or sources of heat, cold, and humidity. Do not set the machine close to the edge of your desk or table.

Clearance space

- Front: 482.6 mm (enough space so that the paper tray can be removed)
- Back: 100 mm (enough space for ventilation)
- Right: 300 mm (enough space for ventilation)
- Left: 100 mm (enough space for ventilation)

