

SAMSUNG

DIGITAL LASER MFP SCX-5835_5935 Series

SERVICE *Manual*

DIGITAL LASER MFP



The keynote of Product

- 33 ppm(A4) Network-ready MFP
- Toner cartridge
 - : Initial : 4K / Sales : 4K,10K
- Machine Life : 300K or 5 Years
- Paper handling
 - : 500 sheets Standard cassette
 - : 500 sheets Optional cassette
 - : 50 sheets DADF
- 80 GB HDD
- High Performance CCDM
- Easy to install (CRU & Option)
- Color Graphic Touch-Screen LCD (7")
- Low Cost per Page
- Direct USB

TONER

www.tonerplus.com.ua





ELECTRONICS

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TONER
The logo for Toner Plus, featuring the word "TONER" in a large, bold, sans-serif font. To the right of "TONER" is a stylized blue "X" shape. Below "TONER" is a blue horizontal bar containing the website address "www.tonerplus.com.ua".

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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

(1) 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 hazards.

(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 GE...FFNET.
NICHT DEM STRAHL AUSSETZEN.

ATTENTION - RAYONNEMENT LASER INVISIBLE EN CAS
D'OUVERTURE. EXPOSITION DANGEREUSE
AU FAISCEAU.

ATTENZIONE - RADIAZIONE LASER INVISIBLE IN CASO DI
APERTURA. EVITARE L'ESPOSIZIONE AL
FASCIO.

PRECAUCION - RADIACION LASER IVISIBLE CUANDO SE ABRE.
EVITAR EXPONERSE AL RAYO.

ADVARSEL - USYNLIG LASERSTRALNING VED BNING, NR
SIKKERHEDSBRYDERE ER UDE AF FUNKTION.
UNDG UDSAETTELSE FOR STRALNING.

ADVARSEL - USYNLIG LASERSTRALNING NR DEKSEL
PNES. STIRR IKKE INN I STRLEN.
UNNG EKSPONERING FOR STRLEN.

VARNING - OSYNLIG LASERSTRALNING NR DENNA DEL
R...PPNAD OCH SPRREN R URKOPPLAD.
BETRAKTA EJ STRLEN. STRLEN R FARLIG.

VARO! - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA
OLET ALTIINA NKYMTT...MLLE LASER-
STEILYLLE L KATSO STEESEEN.

注 意 - 严禁揭开此盖, 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 otherwise 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 an 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 is 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 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 the OPC Drum Unit. If the green surface of the Drum Cartridge is scratched or touched the print quality will be compromised.

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 be sure to hold the positions as shown in the reference chapter.
The equipment is quite heavy and weighs approximately 23.1Kg (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/220V power 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 10cm (3.9" on the left, 10 cm (3.9") on the right and 10 cm (3.9") 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.
9. 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.

2. Product spec and feature

2.1 Product Overview

2.1.1 Product Summary

Premium LMFP with High Reliability and Quality
Target user : 10 Persons N/W Small Workgroup



- 33 ppm(A4) Network-ready MFP
- Toner cartridge
 - : Initial : 4K / Sales : 4K,10K
- Machine Life : 300K or 5 Years
- Paper handling
 - : 500 sheets Standard cassette
 - : 500 sheets Optional cassette
 - : 50 sheets DADF
- 80 GB HDD
- High Performance CCDM
- Easy to install (CRU & Option)
- Color Graphic Touch-Screen LCD (7")
- Low Cost per Page
- Direct USB

2.1.2 Specifications

- Product Specifications are subject to change without notice. See below for product specifications.

2.1.2.1 General Print Engine

Item		Description
Engine Speed	Simplex	Up to 33 ppm in A4 (35 ppm in Letter)
	Duplex	Up to 17 ipm in A4 (18 ipm in Letter)
FPOT	From Ready	Less than 8.5 sec
	From Power Save	Less than 25 sec
Resolution	Optical	600 x 600 dpi
	Enhanced	Addressible 1200 dpi
Printer Languages		PCL6, PostScript3, PDF 1.4, TIFF ,EPSON/IBM Pro (Israel only)
Fonts		PCL:45 scalable, 1 bitmap , PS:136
Downloadable Fonts		Yes (PCL & PS3 S/W Font)

2.1.2.2 Controller & S/W

Item		Description
Processor		Chorus3 360Mhz
DRAM	Std.	256 MB
	Max.	512 MB
Memory Expansion		1 DDR1 SODIMM Slots(Option Memory: 256MB DDR1)
Storage(Std.)		80GB HDD
Printer driver	Supporting OS	[Windows] - Windows 2000/XP(32/64bit)/2003(32/64bit)/Vista(32/64bit)/2008(32/64bit)
		[Linux] - RedHat 8.0 ~ 9.0 - Fedora Core 1~4 - Madrake 9.2 ~ 10.1 - SuSE 8.2 ~ 9.2
		[Mac] - Mac OS X 10.3~10.5
Default Driver		PCL6 (For Windows), PS (for Mac, Linux)

Item		Description
Printer driver (Continue..)	Driver feature	[Windows] - Watermark, Overlay, N-up printing, Poster printing - Duplex, Quality, Color mode (Color, Gray scale) - Support Color spec., Device color, color management [Mac/Linux] - N-up printing, Duplex, Quality - Color mode (Color, Gray scale)
	WHQL	Windows 2000/XP(include 64bit)/2003/Vista
	Language Localization	English, French, German, Italian, Spanish, Korean, Russian, Brazilian Portuguese
Scan driver	TWAIN	Yes (N/W and USB)
	WIA	Yes (USB Only)
	Supporting OS	[Windows] - Windows 2000/XP(32/64bit)/2003/Vista(32/64bit) [Linux] - RedHat 8 ~ 9 - Fedora Core 1~4 - Madrake 9.2 ~ 10.1 - SuSE 8.2 ~ 9.2 [Mac] - Mac OS 10.3~10.5
Application	PC-FAX	Yes
	NW-FAX	Yes (Supported through SmarThru Office)
	OCR	ReadIRIS
	Smart Panel	Yes (Install default: Windows, Linux, Mac)
	Network Management	Set IP, SWAS 4.0 & SWS SWAS Plug-In - Job Accounting, Storage management, Cloning, Remote Install * Supported Web Browser: - IE 5.5 or higher - FireFox 1.5 or higher - Safari 1.3 or higher
	HDD File Management S/W	N/A
	SmarThru	Smarthru Office v1.0, SmarThru Workflow v1.0 (Workflow is optional)

Item		Description
Interface	Parallel (IEEE 1284)	No
	USB	Hi-Speed USB 2.0 Host (2 channel) * Use: • Front - Scan to USB - USB direct printing - F/W down load for system upgrade • Rear - Card Reader w/ Jscribe
		Hi-Speed USB 2.0 Peripheral (1Channel)
	Wired LAN	Ethernet 10/100 Base TX
	Foreign Device Interface (FDI)	Optional
Network Interface	Network OS	[Windows] - Microsoft Windows 2000/XP(32/64bits)/2003(32/64bits)/Vista(32/64bits) [Mac] - Mac OS 10.3~10.5 [Linux] - RedHat 8 ~ 9 - Fedora Core 1~4 - Madrake 9.2 ~ 10.1 - SuSE 8.2 ~ 9.2 [Novell] - Netware 5.x, 6.x(TCP/IP Only) [Others] - Unix(HP-UX,Solaris,SunOS, SCO)
	Protocol	* TCP/IP : TCP/IPv4, HTTP, SNMPv1/v2c/V3, LDAP, SMTP, SSL/TLS, IPSec
	IP Addressing	Static IP, Auto IP, BOOTP, DHCP
	SNMP/MIB Access	Host Resource MIB(RFC 2790), Printer MIB(RFC 3805) Finisher MIB(RFC(3806), Samsung private MIB, SNMP Trap
User Interface	LCD	800 x 480 7 WVGA Color graphic LCD with Touch-Screen, 16bit color

2.1.2.3 Scan

Item		Description
Scan method		Color CCDM
Compatibility		TWAIN(USB & N/W), WIA(Only for USB)
Color Mode		Mono / Gray / Color
Scan Speed	Color/Mono. Gray	0.73msec/line @600*600dpi
	Mono Binary	0.365msec/line @300*300dpi
Resolution	Optical	600 x 600ppi
	Enhanced	4,800 x 4,800ppi
Gray Scale		256 levels
Scan Size	Max. Document Width	Max.216mm(8.5)
	Effective Scan Width	Max 208mm(8.2inch)
	Max. Document Length	Max.356mm (Legal)
Scan Depth	Color	Internal : 36 bits External : 24 bits
	Mono	- 1bit for Linearity & Halftone - 8Bits for Gray scale
Image Compression		PDF,JPEG,BMP,TIFF

2.1.2.4 Copy

Item		Description
Copy Speed (DADF)	SDMC (Single Document Multiple Copy)	Simplex: up to 33 cpm in A4 (35 cpm in Letter) Duplex : up to 17 cpm in A4 (18 cpm in Letter)
	MDSC (Multiple Document Single Copy)	Simplex: up to 29 cpm in A4 (30 cpm in Letter) Duplex : up to 12 cpm in A4 (13 cpm in Letter)
FCOT	From Ready	Platen : Less than 9.5 sec DADF : Less than 11.5 sec
Zoom Range		25% ~ 400% in 1% increments (Platen) 25% ~ 200% in 1% increments (DADF)
Multi Copy		1~999
Original Type	Text	Platen: Scan 600x600dpi , Printing 600x600dpi DADF: Scan 300x300dpi, Printing 600x600dpi
	Text/Photo	Platen: Scan 600x600dpi, Printing 600x600dpi DADF: Scan 300x300dpi, Printing 600x600dpi
	Photo	Platen: Scan 600x600dpi, Printing 1200x1200dpi DADF: Scan 300x300dpi, Printing 600x600dpi
Reduce & Enlarge		* Zoom Range : 25% to 400% in Platen, 25% to 200% in ADF * Preset [Original(100%)] [Auto Fit] [A4 → A5(71%)] [LGL→LTR(78%)] [LGL→A4(83%)] [A4→LTR(94%)] [EXE→LTR(104%)] [A5 → A4(141%)] 25%, 50%, 150%, 200%, 400% [Custom:25-400%]
Duplex Copy		Using Platen - 1 → 1Sided - 1 → 2Sided Using DADF - 1 → 1Sided - 1 → 2Sided Short, - 1 → 2Sided Long, - 2 → 1Sided - 2 → 1Sided, Rotate Side2 - 2 → 2Sided Short - 2 → 2Sided Long

2.1.2.5 Fax

Item		Description
Compatibility		ITU-T G3
Communication System		PSTN/PABX
Modem Speed		33.6Kbps
TX Speed		3sec (Mono/Standard/ECM-MMR, ITU-T G3 No.1 Chart)
Compression		MH/MR/MMR/JBIG/JPEG
Color Fax		Yes (TX only)
ECM		Yes
Resolution (Mono)	Std	203*98dpi
	Fine	203*196dpi
	S.Fine	300*300dpi
Resolution (Color)	Std	200*200dpi (TX Only)
	Fine	200*200dpi (TX Only)
	S.Fine	200*200dpi (TX Only)
Scan speed	Platen	0.365msec/line at 300*300dpi
	DADF	0.365msec/line at 300*300dpi
Telephone Features	Speed Dial	200 Locations
	One touch dial	NONE
	Chain Dial	NONE
	Manual Dial	Yes
	Last Number Redial	Yes
	Automatic Redial Transmission	Yes
	Pause	Yes
	Flash	No
	Handset & Cradle	NONE
	Ringer Volume	OFF. LOW, MEDIUM, HIGH
	Tone/Pulse Select	Selectable in Tech Mode
VoIP Support		Yes. (The communication in VoIP network is supported, but the fax quality may be fallen. Beacause the purpose of VoIP network is not fax but Internet network for voice.)

2.1.2.6 Paper Handling

Item		Description
Bypass Tray	Capacity	Plain paper : 50 sheets Transparency : 5 sheets Envelopes : 5 sheets
	Media sizes	76.2x127 mm(3x5) ~ 215.9x355.6mm (8.5x14.0) Banner Size Printing : 216mm x 900mm
	Media type	Printer Default, Plain Paper, Thick Paper, Thin Paper, Bond Paper, Color Paper, CardStock, Labels, Transparency, Envelope, Preprinted, Cotton, Recycled Paper, Archive
	Media weight	16~43lb (60 to 163g/m ²)
Standard Cassette Tray	Capacity	500 sheets @ 20lb (80g/m ²)
	Media sizes	Letter, Legal, Oficio, Folio, A4, JIS B5, ISO B5, Executive, A5
	Media types	Plain Paper, Thin Paper, Pre-Printed, Recycled, Thick, Archive
	Media weight	Plain Paper : 75~90 g/m ² Thin Paper : 60~70 g/m ² Thick Paper : 90~105 g/m ² Pre-Printed : 75~90 g/m ² Recycled : 60~90 g/m ² Duplex : 75~90 g/m ²
Optional Cassette Tray(SCF)	Capacity	500 sheets @ 20lb (80g/m ²), drawer type
	Media sizes	Letter, Legal, Oficio, Folio, A4, JIS B5, ISO B5, Executive, A5
	Media types	Plain Paper, Thin Paper, Pre-Printed, Recycled, Thick, Archive
Optional Cassette Tray(SCF) (Continue..)	Media weight	Plain Paper : 75~90 g/m ² Thin Paper : 60~70 g/m ² Thick Paper : 90~105 g/m ² Pre-Printed : 75~90 g/m ² Recycled : 60~90 g/m ² Duplex : 75~90 g/m ²
Output Stacking		250 sheets @ 20lb (80g/m ²)
DADF	Capacity	50 sheets (20lb, 80g/m ²)
	2-sided Document Scanning	Yes (Reversing)
	Document Size	Width: 145 ~ 216mm (5.7~8.5) Length : 145 ~ 356mm (5.7 ~ 14.0) for Single page scan 145 ~ 400mm (5.7 ~ 15.7) for Multi pages scan Bank Check Scan : 69.6mm x 152.4mm
	Document Weight	12.5~28lb

2.1.2.7 Consumables (CRU)

Item		Description
Toner Cartridge	MLT-D208S	Average Continuous Black Cartridge Yield: 4,000* standard pages * Declared yield value in accordance with ISO/IEC 19752
	MLT-D208L	Average Continuous Black Cartridge Yield: 10,000* standard pages * Declared yield value in accordance with ISO/IEC 19752

2.1.2.8 Consumables (FRU)

Item	Description
DADF Rubber Pad	50,000 feeds
DADF Pick-up Assembly	200,000 feeds
Pick up roller	150,000 feeds
Transfer Roller	100,000 images
Fuser Unit	100,000 images

2.1.2.9 Service & Environment

Item		Description
AMPV		2500 pages/month (A4 size, IDC 5% coverage)
Max Monthly Duty		75,000 pages/month (A4 size, IDC 5% coverage)
MPBF (Mean Page Between Failure)		50,000 pages
MTTR (mean time to repari)		30 minutes
SET Life Cycle		300,000 pages or 5 years, whichever comes first (A4 size, IDC 5% coverage)
Temperature	Operating	10°C ~ 32°C
	Storage	-20°C ~ 40°C
Humidity	Operating	20~80% RH
	Storage	10~90% RH
Input Voltage		AC 110-127V or AC 220-240V
Noise	Printing Simplex / Duplex	52 dB
	Copying Simplex / Duplex	54 dB
	Standby	39 dB
Power Consumption	Ready	Less than 100W
	AVG.	Less than 750W
	Power save	Less than 25W
	Power off	0W
Dimensions (WxDxH)		500x465x547 mm
Weight (with consumables)		23.1Kg

2.1.2.10 Options

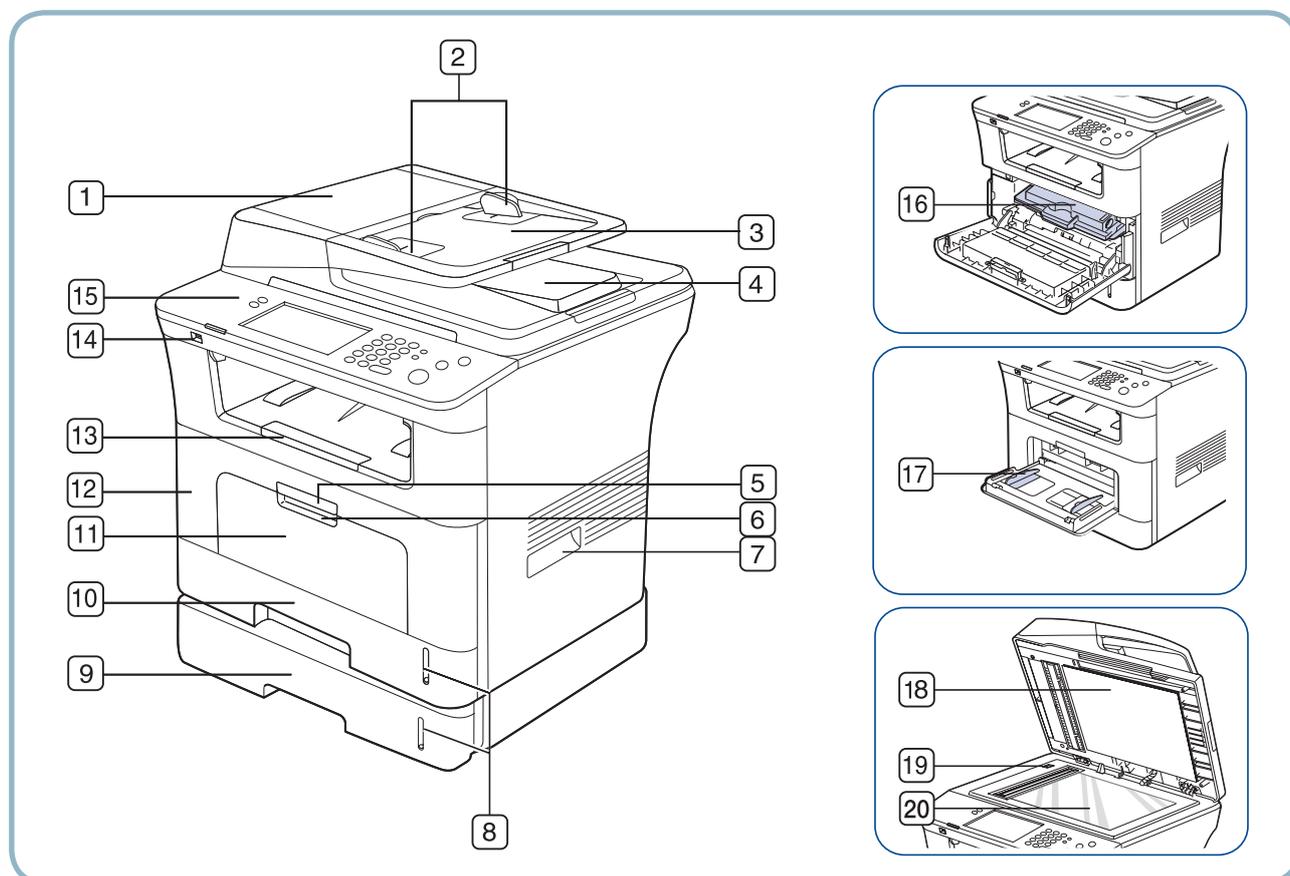
Item		Description
Optional Tray (SCF)	SCX-S5835A	500 sheets feeder
Memory	CLP-MEM202	256 MB
Jscribe	SCX-KIT10J	JScript Related S/W Enabler

2.1.3 Model Comparison

		SAMSUNG SCX-5835FN SCX-5935FN	HP LJ M3035	Lexmark X642e	Lexmark New 4dte
Image					
Printer	Speed (A4/Ltr.)	33ppm/35ppm	33ppm/35ppm	43ppm/45ppm	38ppm/40ppm
	Copy size	A4	A4	Legal	Legal
	Resolution	1,200 x 1,200 dpi	1,200 x 1,200 dpi	1,200 x 1,200 dpi	1,200 x 1,200 dpi
	Emulation	PCL5e, PCL6, PS, PDF1.5	PCL5, PCL6, PS, PDF1.5	PCL5, PCL6, PS, PDF1.5	PCL5, PCL6, PS, PDF1.5
	Duplex Print	Standard	Standard	Option	Standard
Copy	Speed	35cpm	35cpm	35cpm	35cpm (Estimated)
	Resolution	600dpi	600 dpi	600 dpi	600 dpi (Estimated)
	Zoom	25 – 400%	25 – 400%	25 – 400%	25 – 400% (Estimated)
Scan	Resolution	600dpi	600dpi	600dpi	600dpi (Estimated)
Fax	Modem Speed	33.6 Kbps	LJ-M3035xs Only	33.6 Kbps	33.6 Kbps
	Memory	HDD Backup	HDD Backup (LJ-M3035xs Only)	-	HDD Backup
Paper Handling	DADF	50sh.	50 sh	50sh.	50sh.
	Input Tray(Std.)	500 sh. Tray 50 sh. MP	500 sh. Tray 100 sh. MP	500 sh. Tray 100 sh. MP	2 x 250 sh. Tray 50 sh. MP
General	Memory Std.(Max)	256MB(512MB)	128MB(640MB)	256MB(?)	
	Toner	4K, 10K	Q7551x (13,000 sh.)	10K, 21K	9K, 15K

2.2 System Overview

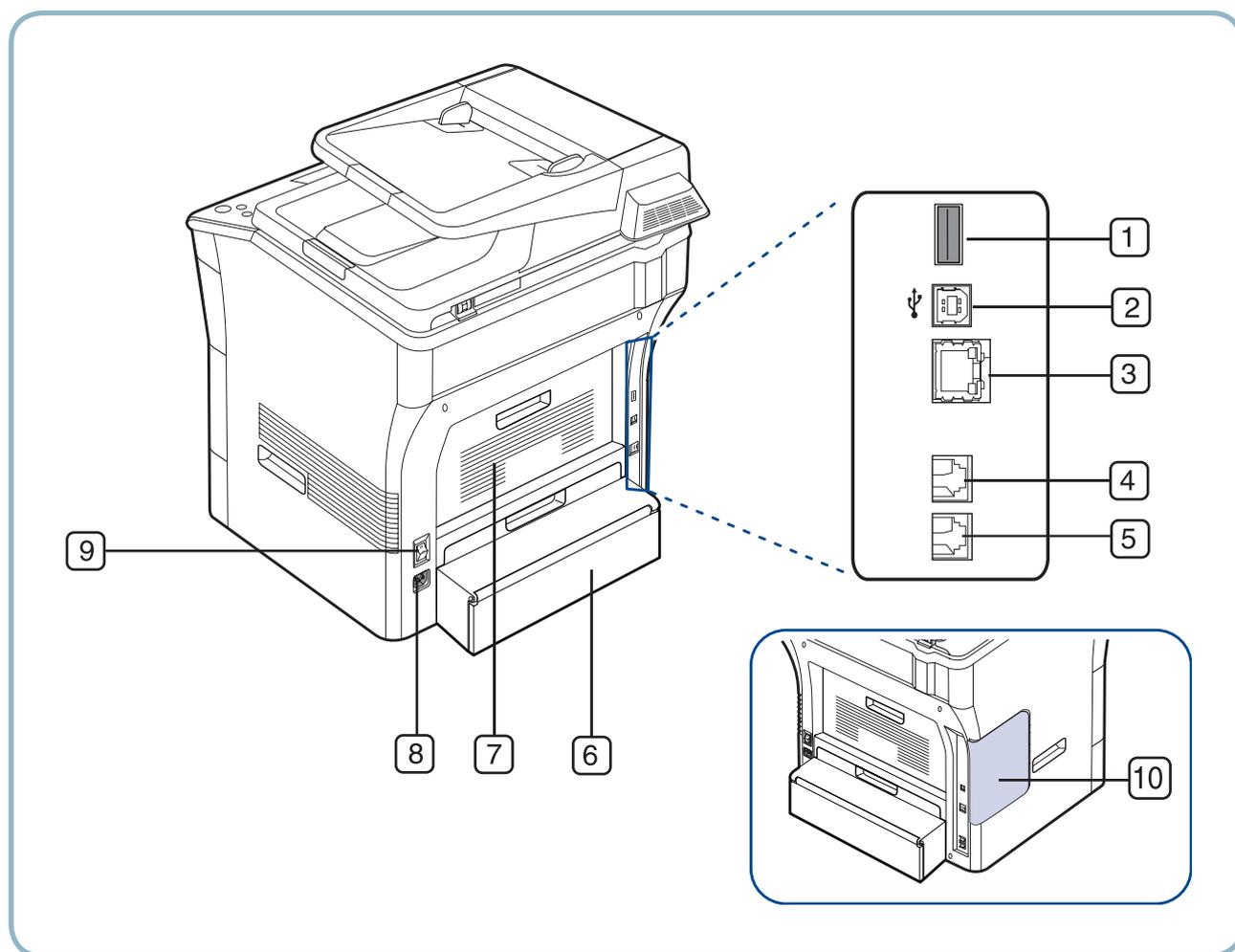
■ Front View



1	Document feeder cover	11	Multi-purpose tray
2	Document feeder width guides	12	Front cover
3	Document feeder input tray	13	Document output tray
4	Document feeder output tray	14	USB memory port
5	Front cover handle	15	Control panel
6	Multi-purpose tray handle	16	Toner cartridge
7	Handle	17	Multi-purpose tray paper width guides
8	Paper level indicator	18	Scanner lid
9	Optional tray 2 ^[a]	19	Scanner lock switch
10	Tray 1	20	Scanner glass

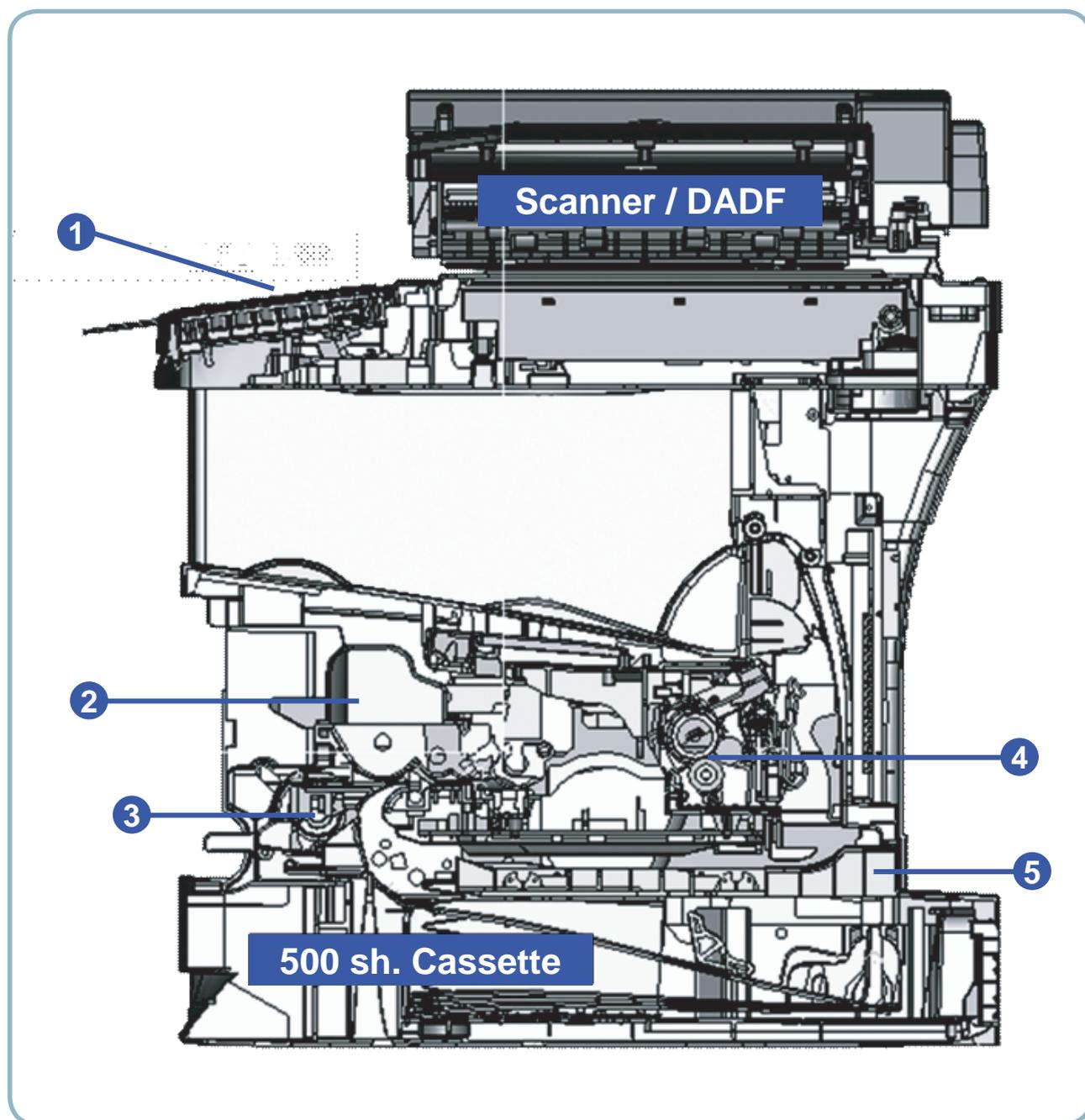
[a] Optional device.

■ Rear View



1	USB host port	6	Duplex unit
2	USB port	7	Rear cover
3	Network port	8	Power receptacle
4	Telephone line socket	9	Power-switch
5	Extension telephone socket (EXT)	10	Control board cover

■ System Layout



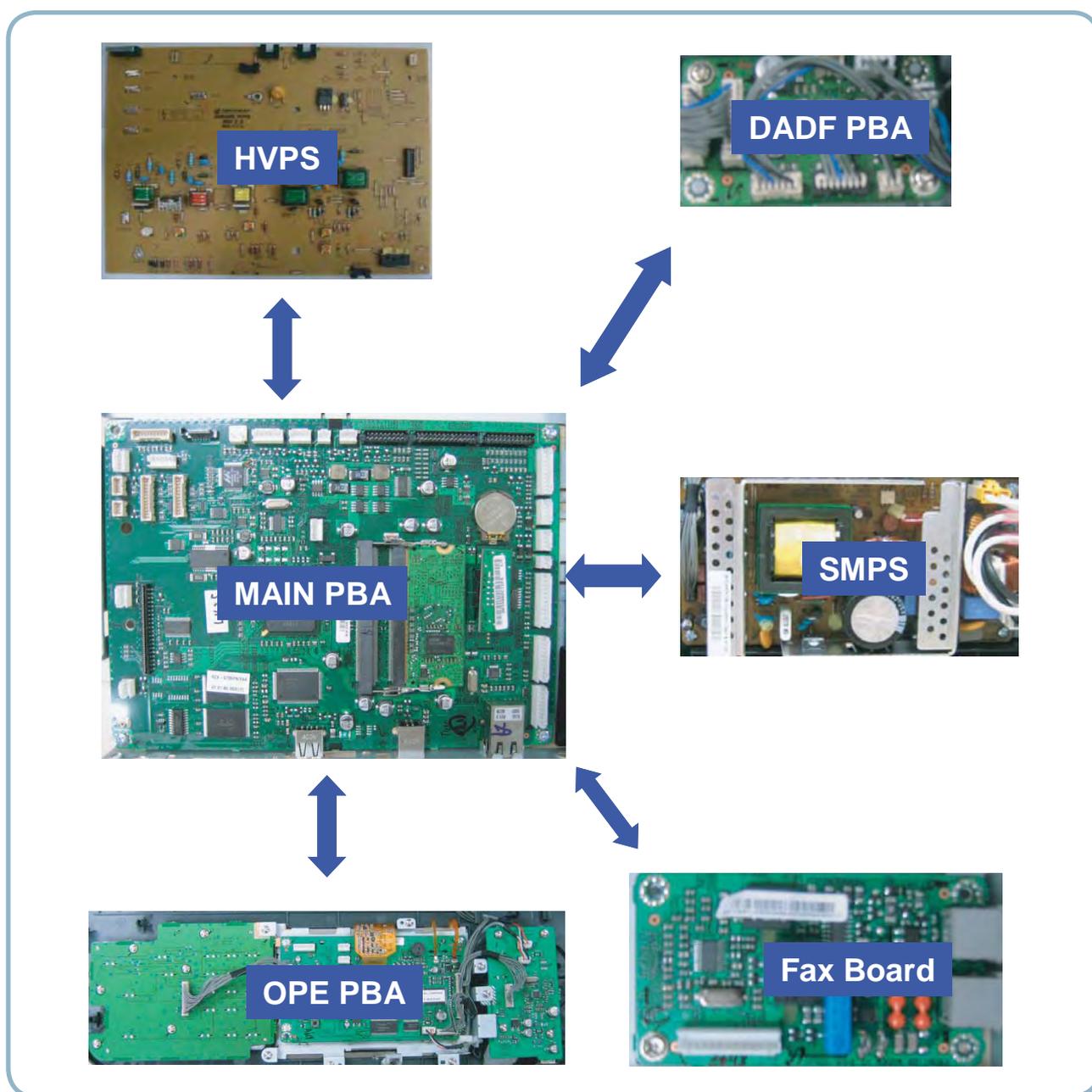
1	OP Panel / 7 " LCD Touch Screen
2	Toner Cartridge
3	MP Roller
4	Fuser Unit
5	Duplex Unit

2.2.1 System Configuration

SCX-5835_5935 Series consist of Main Control Part, Operation Panel Part, Scanner Part, Line Interface Part ,Power Part and Optional DIMM(Dual-In-Memory Module) for Scan-To-Email.

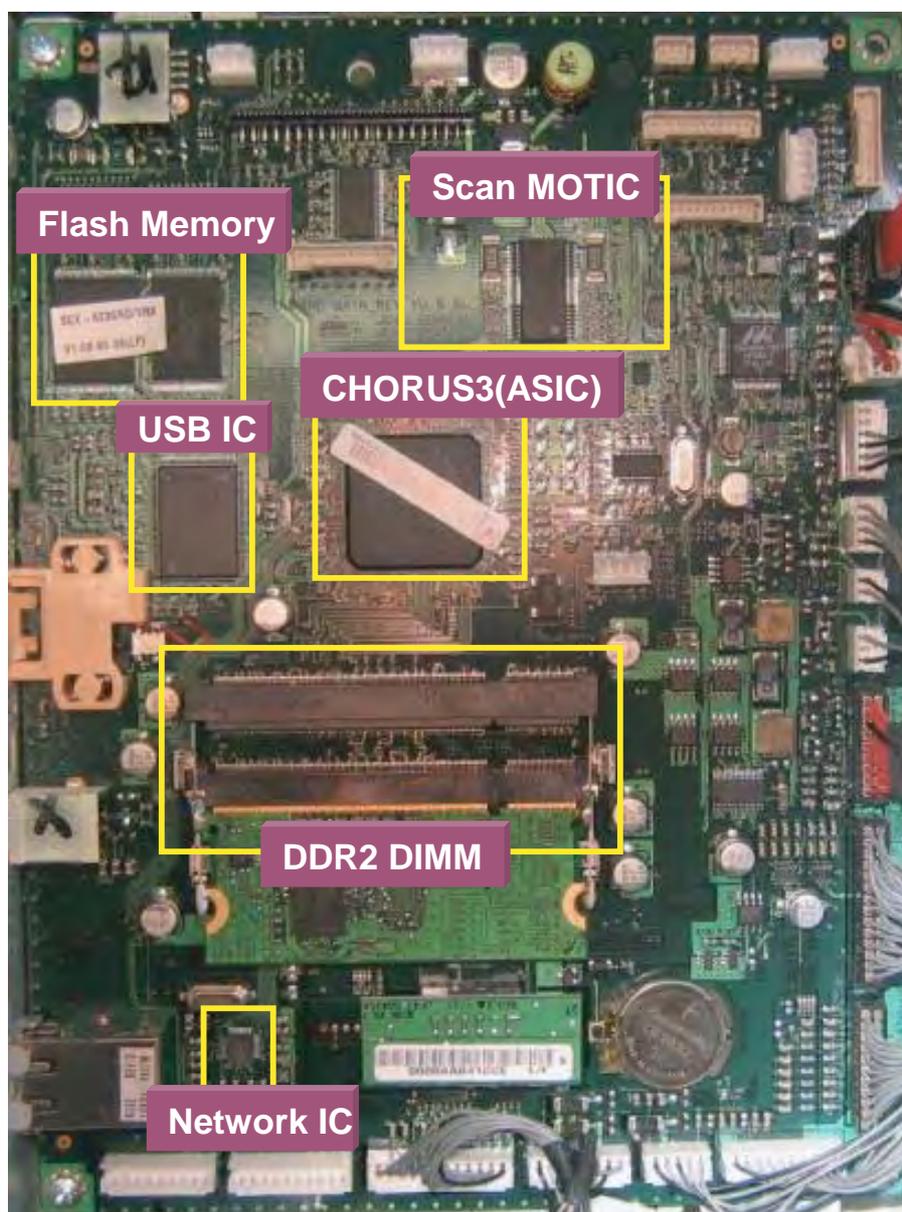
Main Controller is commonly applied in all products, SCX-5835_5935 Series, and in case of necessary a part of components or Module is selectively adopted in accordance with required feature of each model.

2.2.2 Hardware Configuration



2.2.2.1 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 DADF& CCD and connected with Main board through Harness.



CPU (CHORUS3)

It uses the ARM 926EJS, 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 926EJS Core.
- ▶ LSU Interface Module for Interfacing PVC or HPVC with LSU
- ▶ Dual Memory Bus Architecture
 - Operation Frequency : AHB Bus: 133MHz, Internal System Bus: 120MHz
 - Operation Power : 3.3V / 1.0V(core)

Flash Memory

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

- Capacity: 32M Byte
- Access Time : 80 nsec

System Memory (DDR2)

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

- System memory: 256MB Capacity
- Max Frequency: 120 MHz

System Data Memory (EEPROM + Flash Memory)

This memory, which is for storing the operation variable & the setting parameter of Elbert2, keeps the information.

Optional Memory (DIMM)

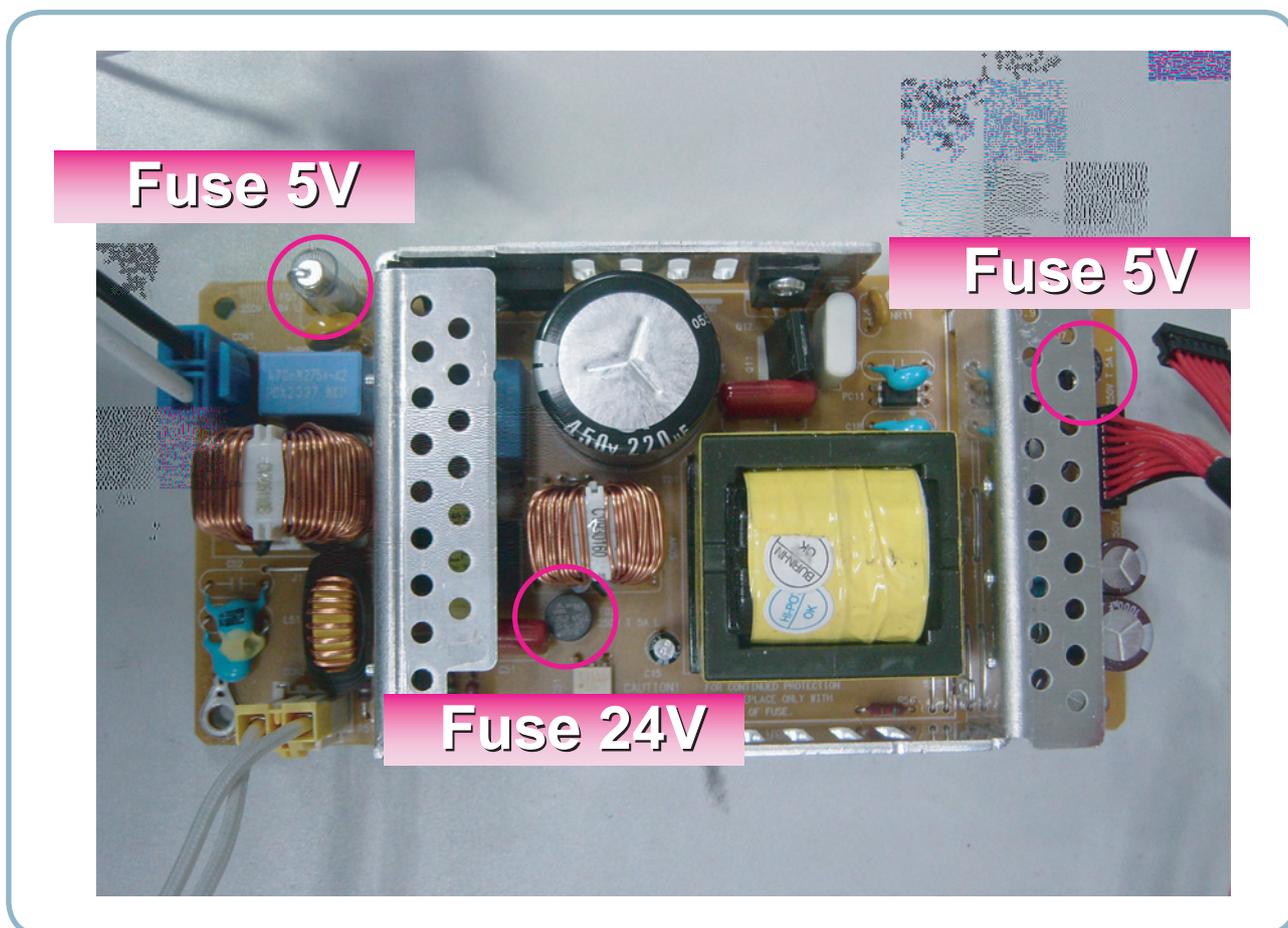
SCX-5835_5935 Series provide one (1) Extension Slot for extending Memory. The RAM Extension Slot can be used for:

General Memory Extension

256 MB Optional Memory is available.

2.2.2.2 SMPS board

SMPS(Switching Mode Power Supply) Board 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.



DC Output Connector(CON3)					
Description	PIN NO	PIN ASSIGN		PIN NO	Description
Fuser ON (Active High)	Fuser_On	1	2	24VS	Power (Photo Triac Bias)
Power	+24V	3	4	GND	+24V Ground
Power	+24V	5	6	GND	+24V Ground
Power	+24V	7	8	GND	+24V Ground
Power	+24V	9	10	GND	+24V Ground
Power	+5V	11	12	GND	+5V Ground
Power	+5V	13	14	GND	+5V Ground
Power	+5V	15	16	OFF/SINK	+24V On/OFF

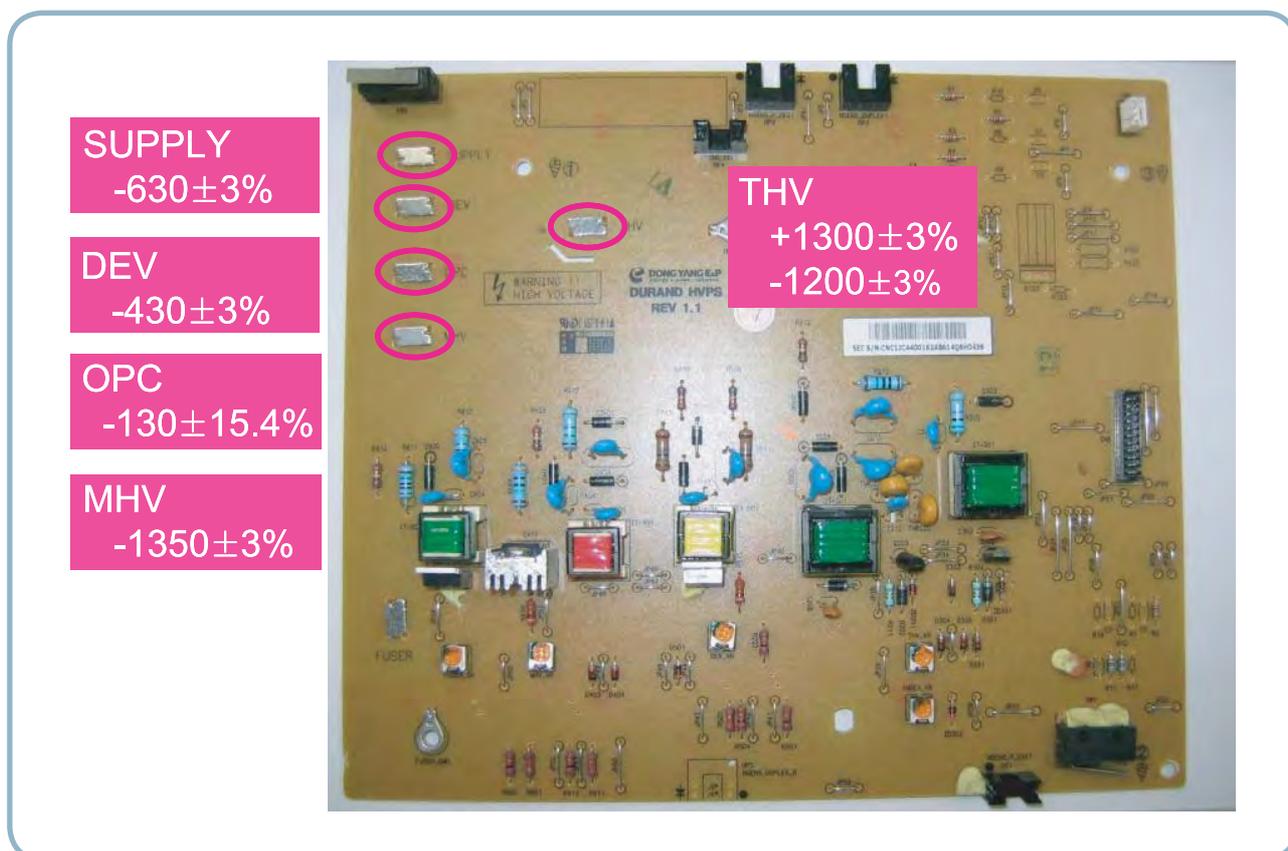
AC Input Connector(CON1)		
PIN ASSIGN	PIN NO	Description
1	AC_L	AC Input
2	AC_N	

SMPS → Heater Controller(CON2)		
PIN ASSIGN	PIN NO	Description
1	AC_L	AC Output for Heater
2	AC_N	

2.2.2.3 HVPS board

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.



2.2.2.4 FAX Board

Specifications

- LINE CONNECTION: PSTN or PABX (RJ-11)
- Compatibility: ITU-T G3, Super G3
- Communication System: PSTN/PABX
- Modem Speed: 33.6Kbps
- TX Speed: 3 sec
- * Standard Resolution, MMR, 33,6Kbps
- * Phase "C" by ITU-T No.1 Chart in Memory transmission with ECM
- Scan Speed
 - Platen -> 2 sec / A4
 - ADF -> 5.5 sec / A4
- * Scan time: 2 sec/A4 @ 203x98dpi * Scan setup time : 3.5 sec
- Receive Mode: Fax, TEL, ANS/FAX
- Compression: MH/MR/MMR/JBIG/JPEG
- ECM: Yes
- Resolution Std: 203*98dpi
 - Fine: 203*196dpi
 - S.Fine: 300*300dpi
- Contrast: Adsustable 5 levels
- Fax Memory: 32MB (in HDD)



2.2.3 Mechanic Configuration

2.2.3.1 Feeding Section

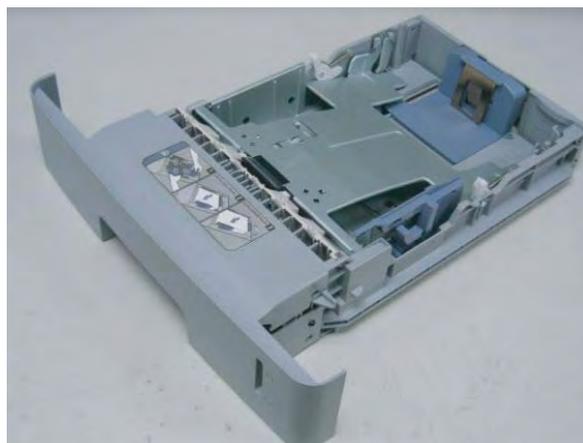
1) Cassette

It stores and automatically feeds print paper.

Pick-up Roller picks up paper, controls drive, feeds paper, removes static electricity, and so on.

> Spec.

- * Feeding Method : Cassette Type
- * Feeding Standard : Center Loading
- * Feeding Capacity : Cassette 500 Sheets
(80g/ , 20lb Paper Standard)
- * Paper Detecting Sensor : Photo Sensor
(Empty, Registration, Exit)
- * Paper Size Sensor : None



2) MPF

> Spec.

- * Capacity : Plain paper : 50 sheets
Transparency : 5 sheets
Envelopes : 5 sheets
- * Media sizes : 76.2x127mm(3"x5")
~215.9x355.6mm(8.5"x14.0")
- * Media weight : 16~43lb(60 to 163 g/m²)



2.2.3.2 Drive Unit

Drive Unit is used for image process.

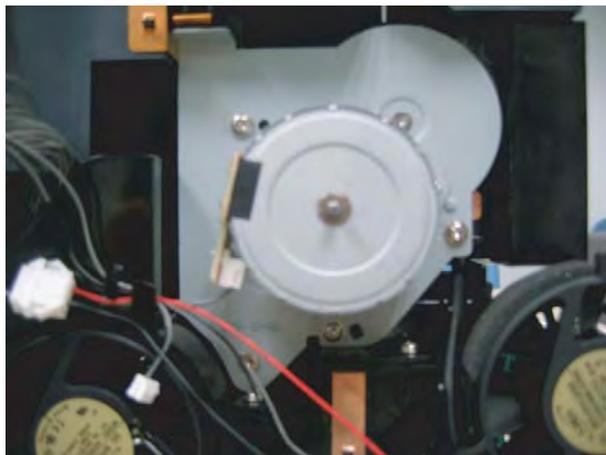
Main Drive Unit is for Paper path(Pick up, Feeding, Registration).

Fuser Drive unit is for Fuser Driving, Exit roller

Duplex Drive unit is for Duplex feeding.



[Main Drive Unit]



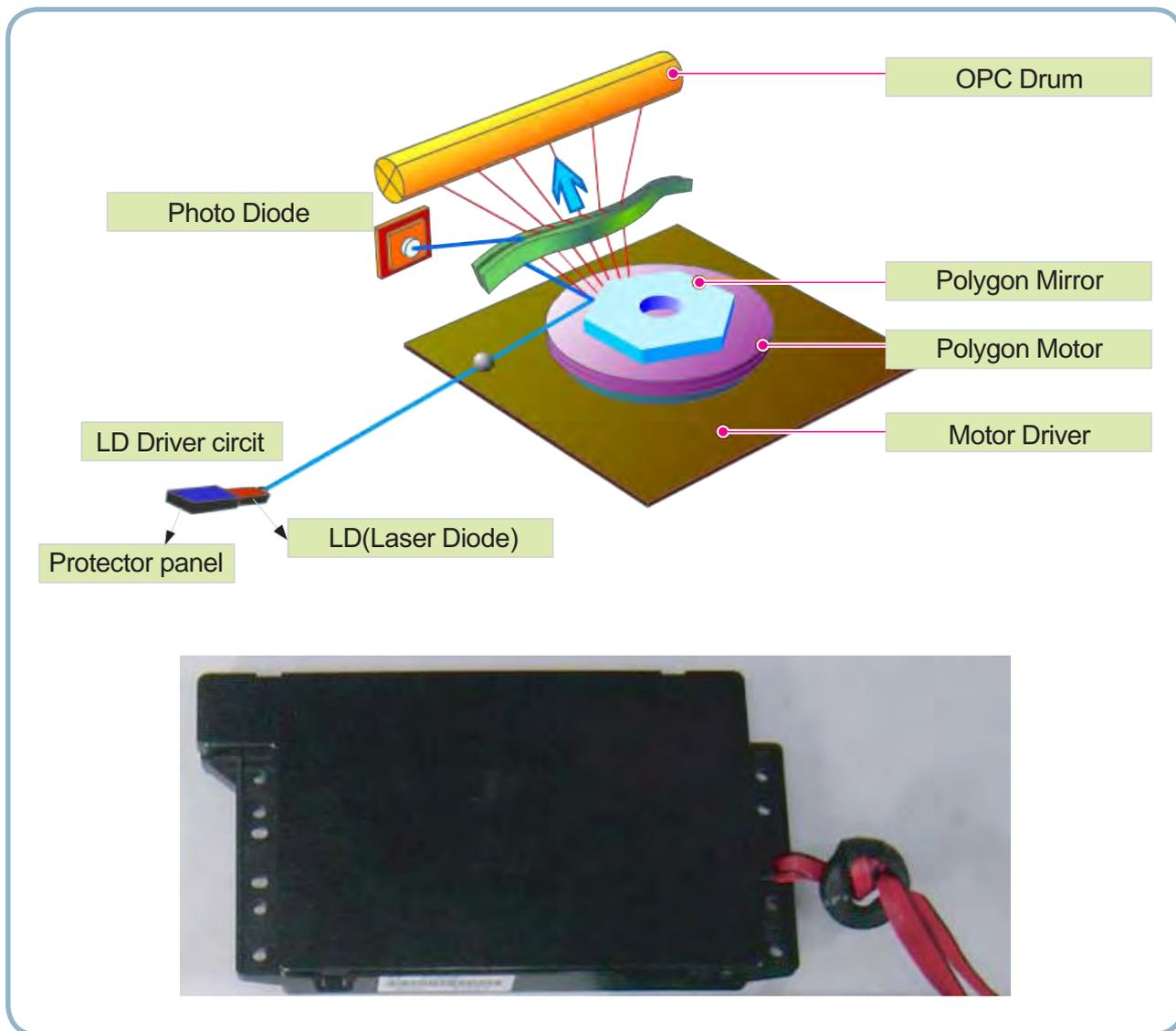
[Fuser]



[Duplex Drive Unit]

2.2.3.3 LSU (Laser scanning unit)

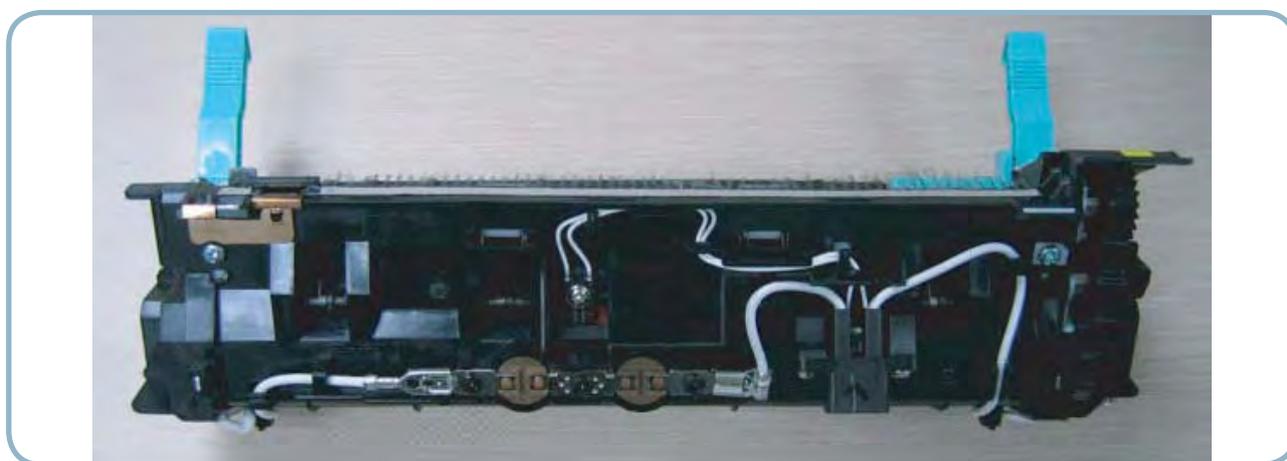
LSU consists of LD(Laser Diode) and polygon motor control. For realizing Color Image, it is controlled by 4 LD. When the controller generate the printing signal, LD will turn on and Polygon motor starts. If the receiving part in LSU detect the beam , Hsync is generated. When the rotation of polygon motor is steady, it is time of LSU ready status for printing. If either of two condition is not satisfied, LSU error is expected.



2.2.3.4 Fuser Unit

This unit consists of IH-HEAT ROLLER, Thermostats and a Thermistor. It melts and fuses the toner, transferred by the transfer roller onto the paper, by applying pressure and high temperature to complete printing job.

- Fusing type : Thermal fixing with a couple of one heat roller and two pressure rollers
- Heat roller : $\varnothing 28.3$, Anodized, single halogen lamp, thick brown color coating
- Pressure roller 1 : $\varnothing 16.0$: PFA tube, Electrically conductive
- Pressure roller 2 : $\varnothing 20.0$: LSR+PFA, Electrically conductive
- Single thermistor and a pair of thermostat
- A ball bearing at each end of heat roller (total amount; two)
- Jam removal lever / Fuser door open for jam removal
- Life span : 80,000 pages



① **Thermostat**

When a heat lamp is overheated, a Thermostat cuts off the main power to prevent over-heating.
 - Non-Contact type Thermostat

② **Heat roller**

The heat roller transfers the heat from the lamp to apply a heat on the paper. The surface of a heat roller is coated with Teflon, so toner does not stick to the surface.

③ **Pressure roller**

A pressure roller mounted under a heat roller is made of a silicon resin, and the surface also is coated with Teflon. When a paper passes between a heat roller and a pressure roller, toner adheres to the surface of a paper permanently.

Trouble	Temperature Control concept
Open Heat Error	85°C below for 20 sec after power on
Over Heat Error (Fuser High Error)	- 220°C over for 20sec - 230°C over for 3sec
Low Heat Error (Fuser Low Error)	10°C below than target Temp. for 10 sec. At Warm up 20°C below than target Temp. for 10 sec. At Printing 20°C below than target Temp. for 10 sec. At stand-by 16°C below than target Temp. for 10 sec. At pick up

2.2.3.5 Scanner Section

- 1) Optical System: Lens Reduction type All-In-One (Scanning Lamp + Lens + CCD Image sensor).
- 2) Light Source: White LED(Light Emitting Diode)
- 3) Scanning method:
 - Platen: Optical Moving
 - DADF: Document Moving

* Scanning Area

Maximum Document Width: 216mm
Effective Scanning Width: 208mm

* Source Document Specification (DADF)

- 1) DADF capacity : 50 sheets of 20lbs /80gsm paper
- 2) Specification

Item	Specification	Item	Specification
Length	145~356mm	Weight	12.5lb ~ 28lb
Width	142~216mm	Thickness	0.075mm ~ 0.13mm
Curl	Below 5mm	-	This machine must be able to feed the documents in Normal Environment / Standard Paper (20lb/80gsm)

3. Disassembly and Reassembly

3.1 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.

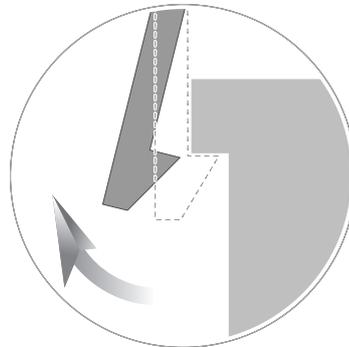
Whenever servicing the machine, you must perform as follows:

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.

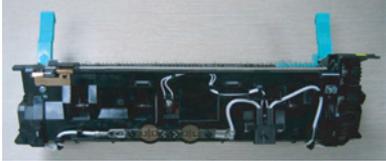
Releasing Plastic Latches

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.



3.2 Maintenance Parts

Sec_Code	Description	Life	Image
JC97-02441C	MEA-ROLLER PICK UP	150K	
JC66-01181A	ROLLER-TRANSFER	100K	
JC96-05064A(220V)	ELA UNIT-FUSER	100K	
JC97-03070A	MEA UNIT-PICK UP DADF	100K	
JC97-03069A	MEA UNIT-DADF RUBBER	50K	
JC97-03249A	MEA UNIT-HOLDER PAD (Cassette friction pad)	100K	

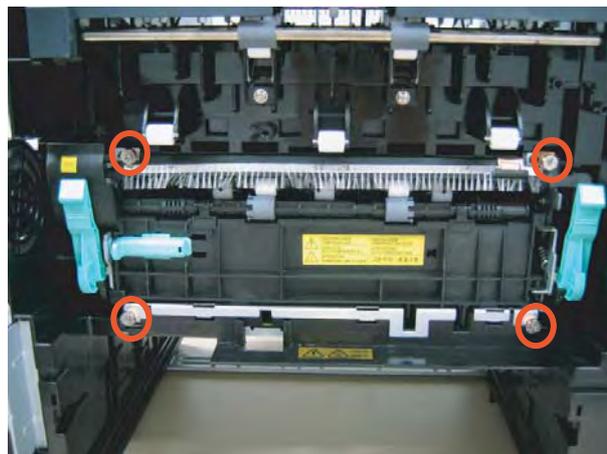
3.3 General Disassembly

3.3.1 Fuser Unit

1. Open the Rear Cover.

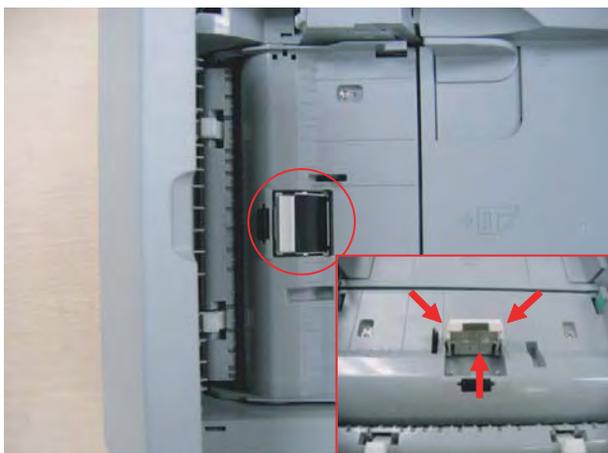


2. Remove the Fuser unit after remove the 4 screws.

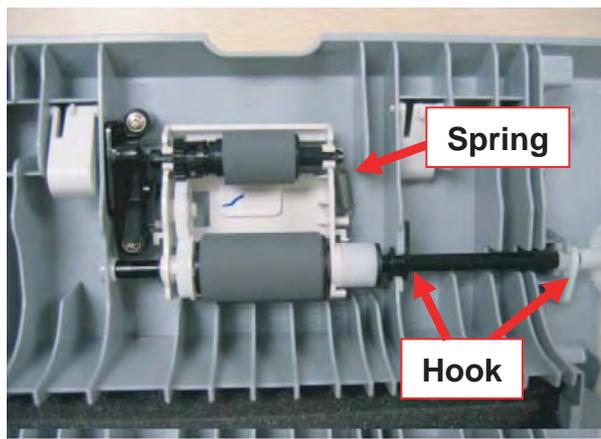


3.3.2 DADF Pick up unit and rubber pad

1. Open the DADF Cover. Remove the DADF rubber pad by removing both side hook.



2. Remove the DADF pick up unit by removing the spring.

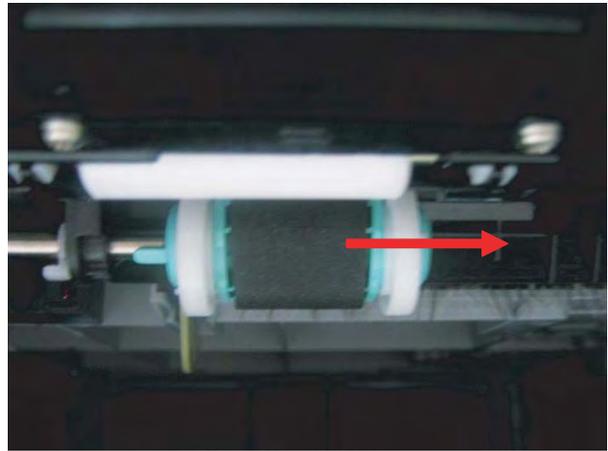


3.3.3 Pick up roller

1. Remove the Cassette.

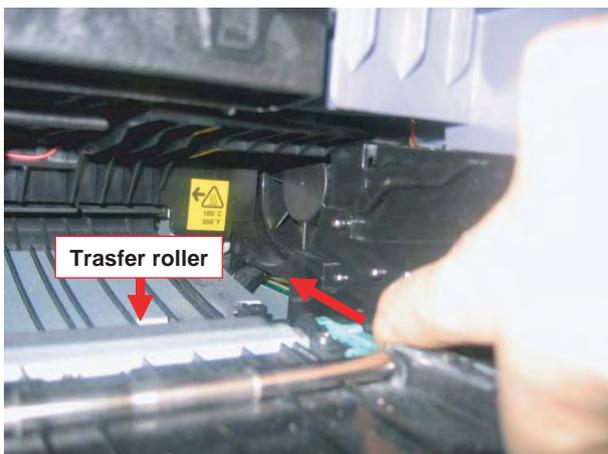


2. Pull the Pick up roller to the direction of arrow from the bottom of SET.



3.3.4 Transfer roller

1. Open the front cover and remove the toner cartridge. To remove the Transfer roller, Push the lever to the direction of arrow.

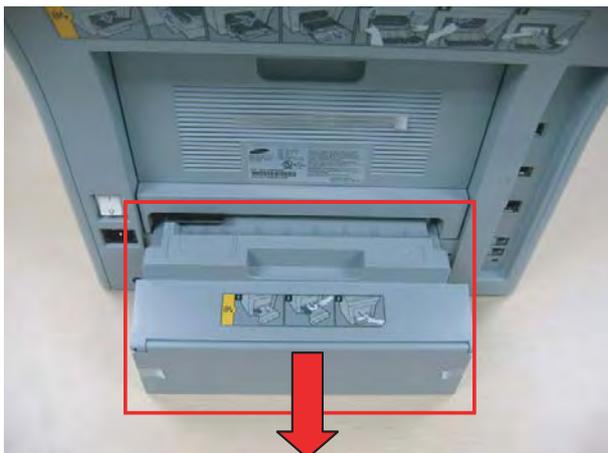


3.3.5 Cover

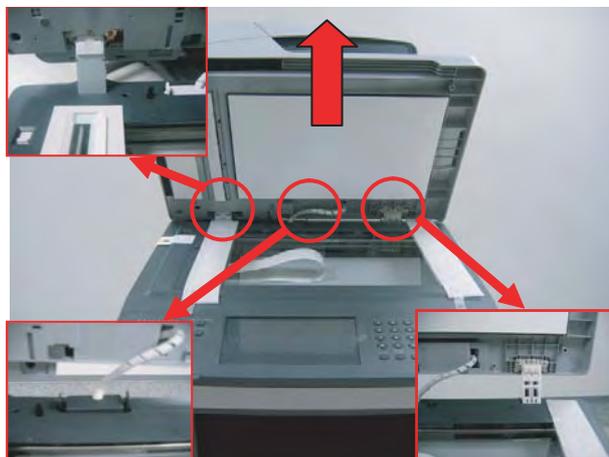
1. Remove the Cassette.



2. Remove the Duplex Unit from the rear.



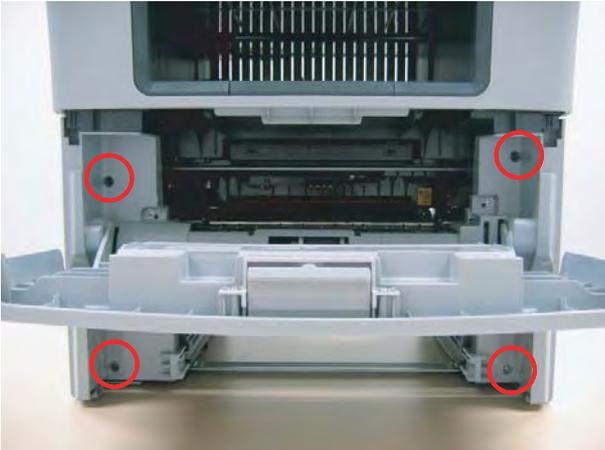
3. Open the DADF back. And Lift it up after remove the connector.



4. Remove the 4 screws from the rear.



5. Open the Front cover. And remove the 4 screws.



7. Remove the Right Side Cover.

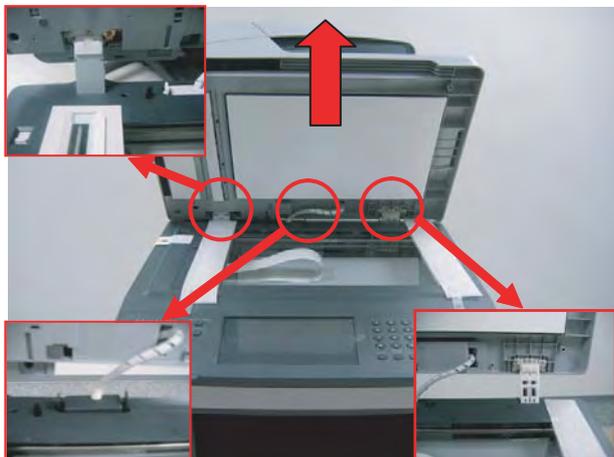


6. Remove the Left Side Cover.



3.3.6 DADF Board

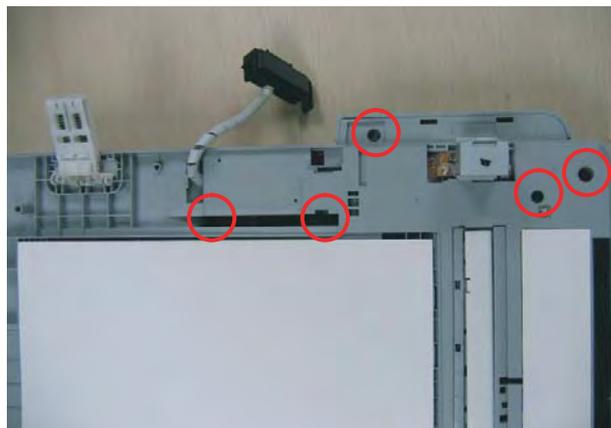
1. Open the DADF back. And Lift it up after remove the connector.



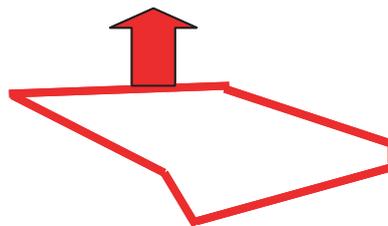
4. Remove the 3 screws from the bottom of DADF. And remove the COVER-DADF-FRONT/REAR.



2. Remove the 5 screws from the bottom of DADF.



5. Disassemble the Stacker.



3. Remove the Sponge.



6. Remove all harness and 2 screws.

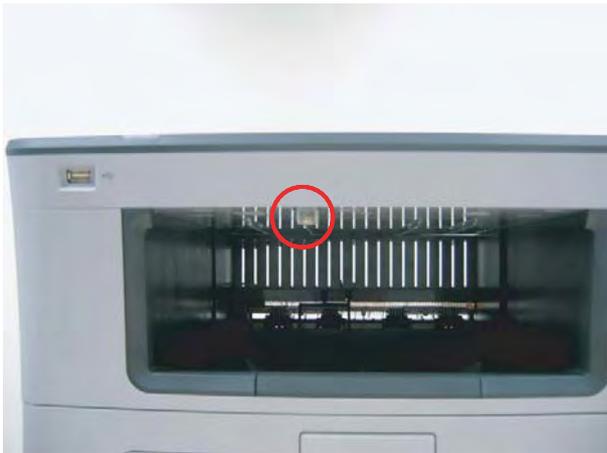


3.3.7 Scan Assy

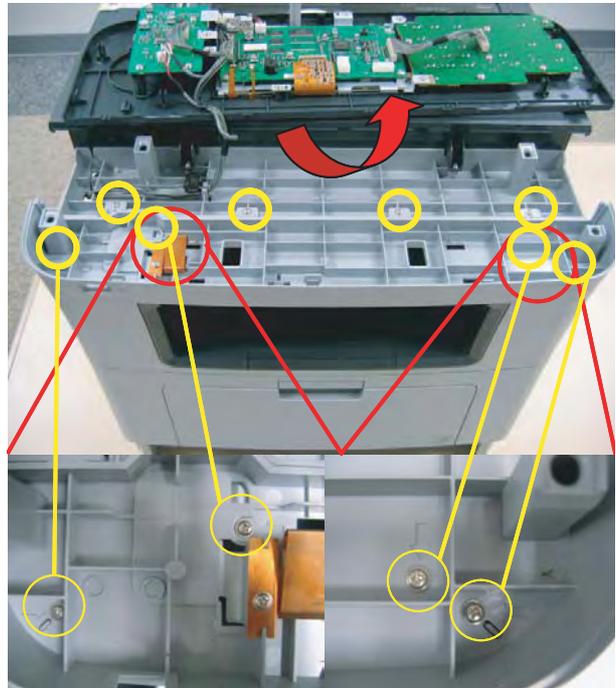
1. Remove the COVER-DECO UPPER.



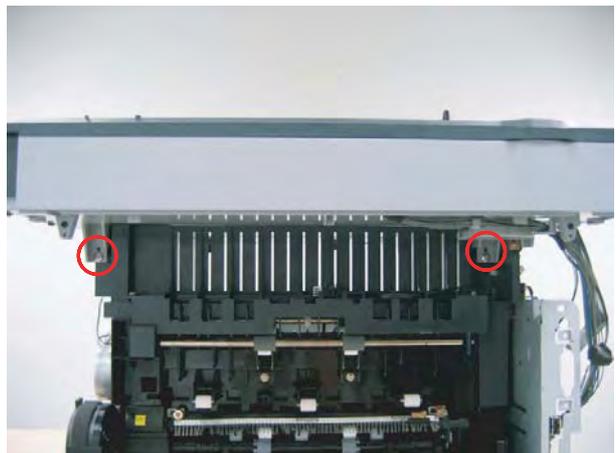
2. Remove the 1 screw.



3. Turn up the OPE unit. And remove the 8 screws.



4. Remove the 2 screws from the rear.



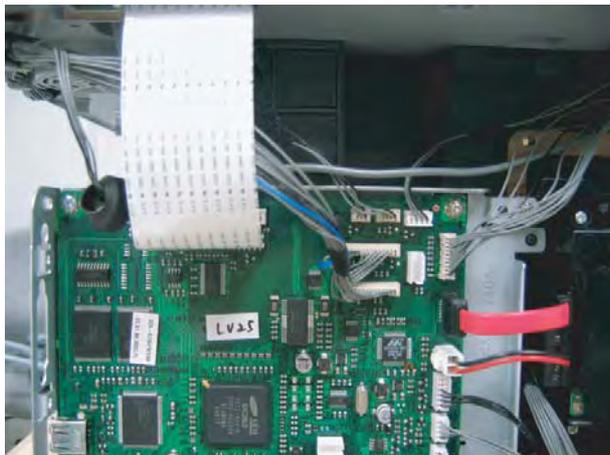
5. Remove the 1 screw.



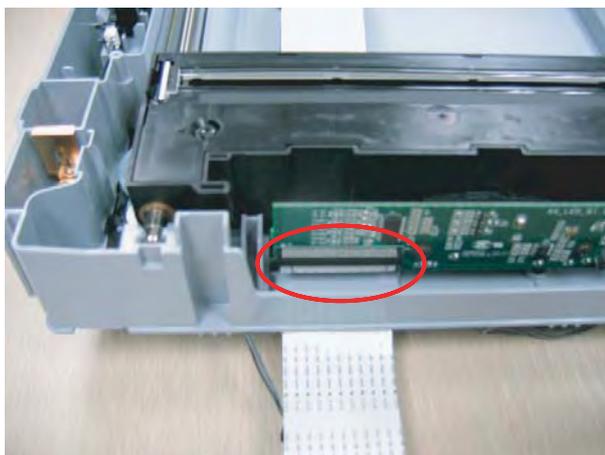
8. Remove the Scan Upper from the Scan Lower.



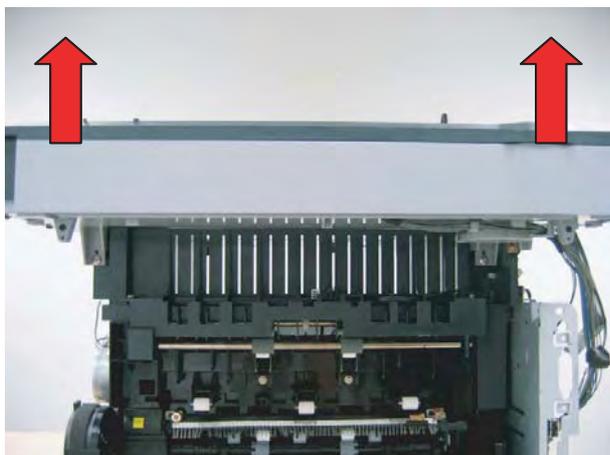
6. Remove all harness connecting the Scan Assy.



9. Remove the flat cable.



7. Lift the Scan Assy up.

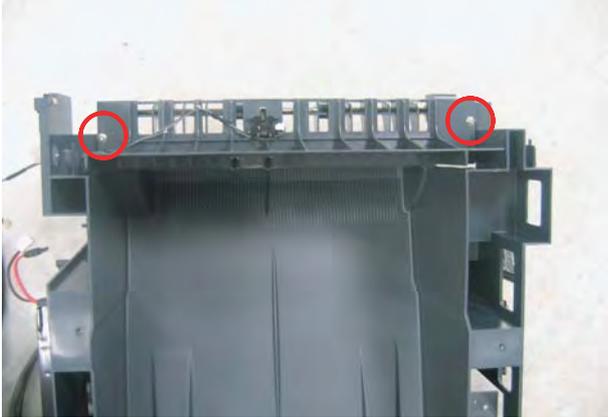


10. Remove the CCDM module after remove the belt unit.



3.3.8 Middle Cover

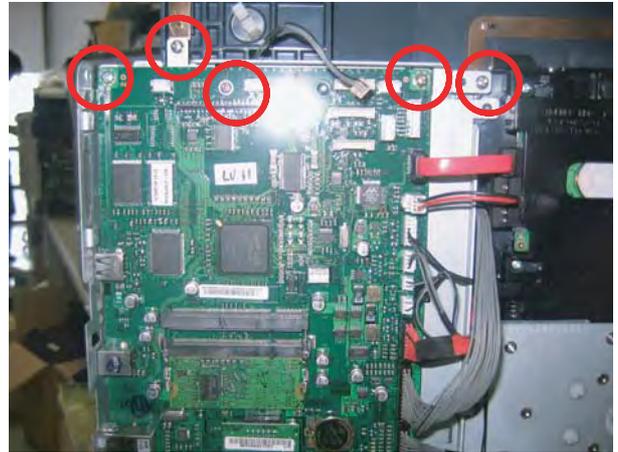
1. Remove the 2 screws.



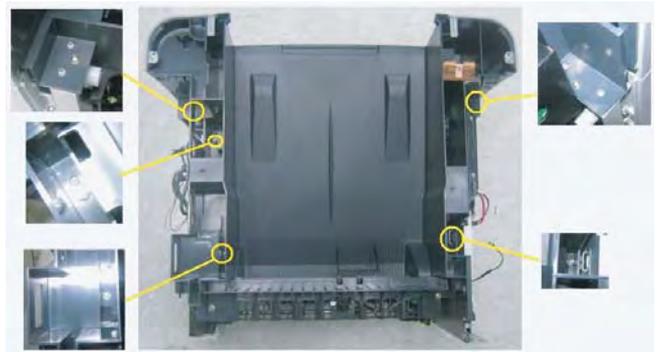
2. Remove all harness.



3. Remove the 5 screws and all harness.

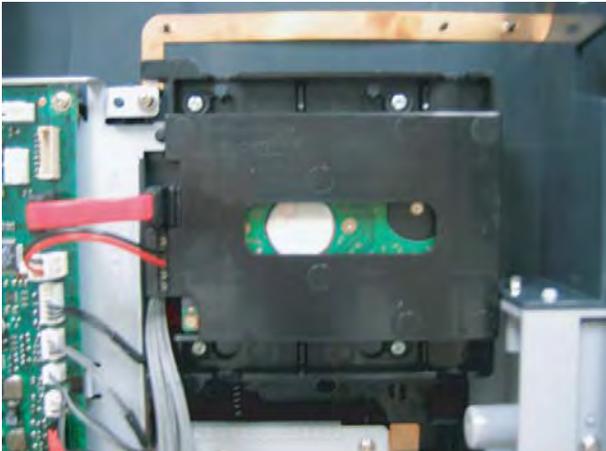


4. Remove the 1 screw.



3.3.9 HDD/ Main PBA/ Fax board

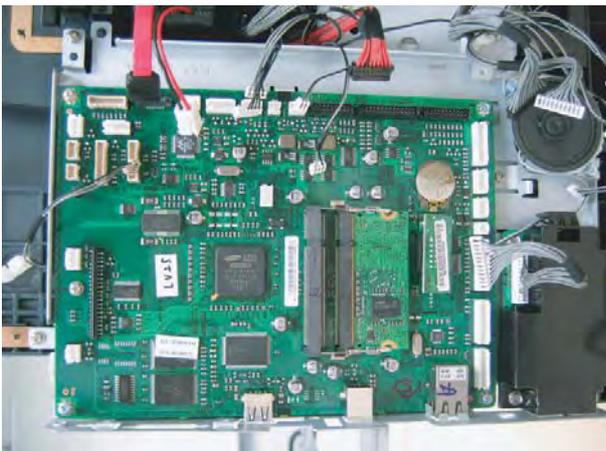
1. Remove the 4 screws and harness. Remove the HDD Assy.



3. Remove the fax board cover after remove the 2 screws.



2. Remove all harness and 5 screws.



4. Remove the 1 screw.



3.3.10 SMPS board

1. Remove the Cover-SMPS.

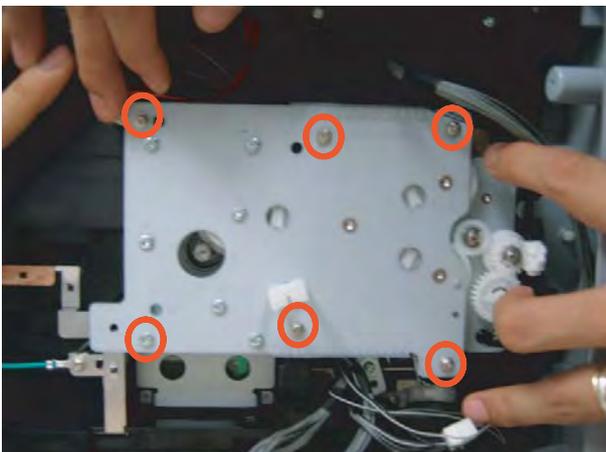


2. Remove the SMPS Shield after remove the 2 screws.



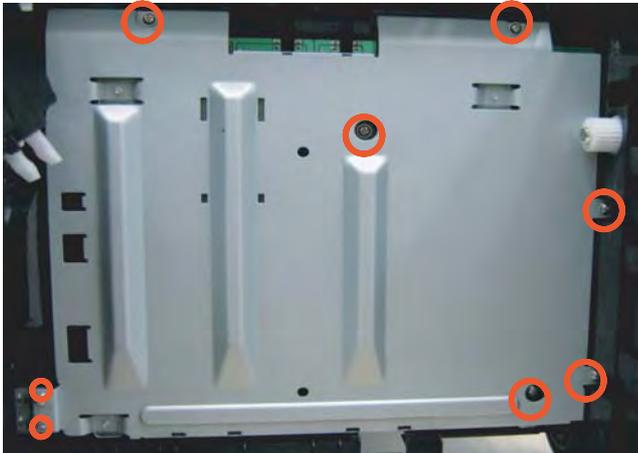
3.3.11 Main Drive unit

1. Remove the Drive unit after remove the 6 screws.



3.3.12 HVPS board

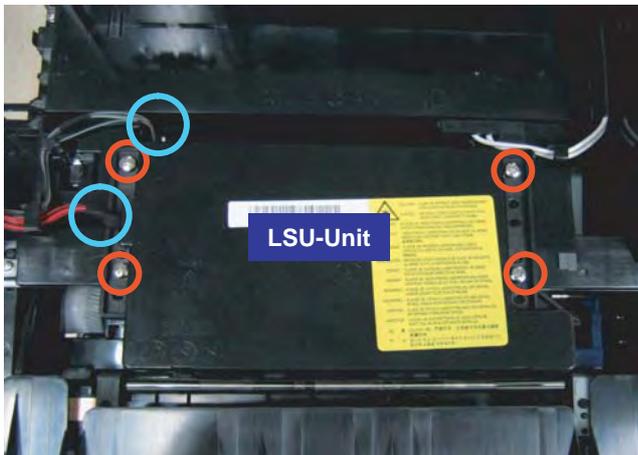
1. Separate the HVPS Shield after remove the 8 screws.

**Caution**

When disassembling and assembling the HVPS Shield, be careful the harness of the Cassette Sensor.

3.3.13 LSU Unit

1. Remove the LSU unit after the 2 harness and 4 screws.

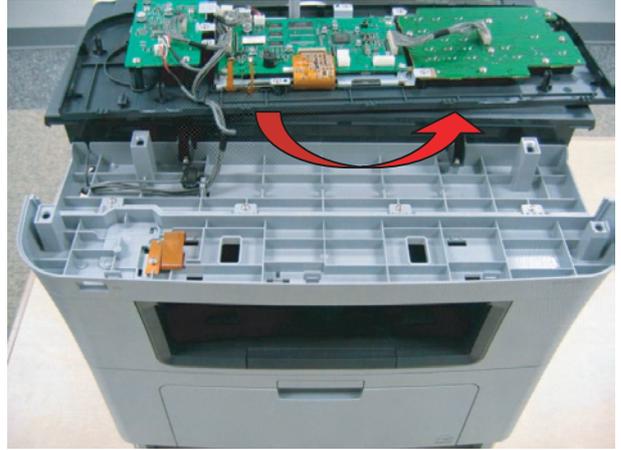


3.3.14 USB port

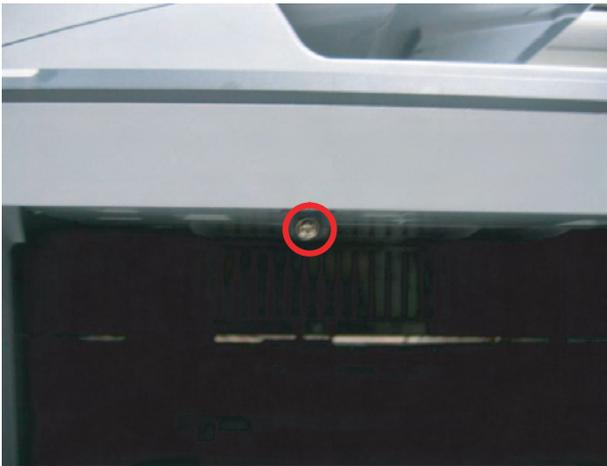
1. Remove the COVER-DECO UPPER



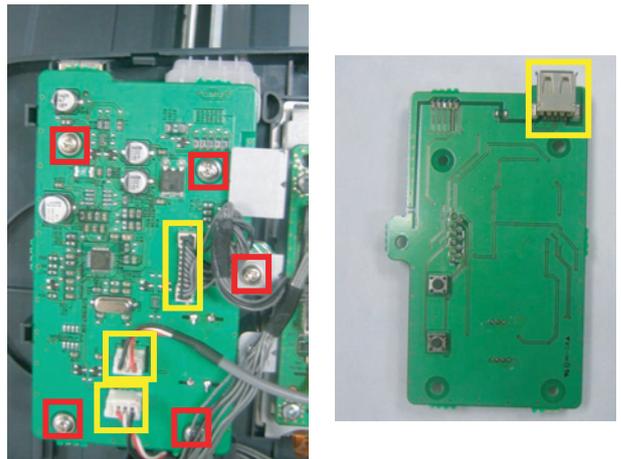
3. Turn up the OPE unit



2. Remove the 1 SCREW.



4. Remove the 5 screw, 3 harness.



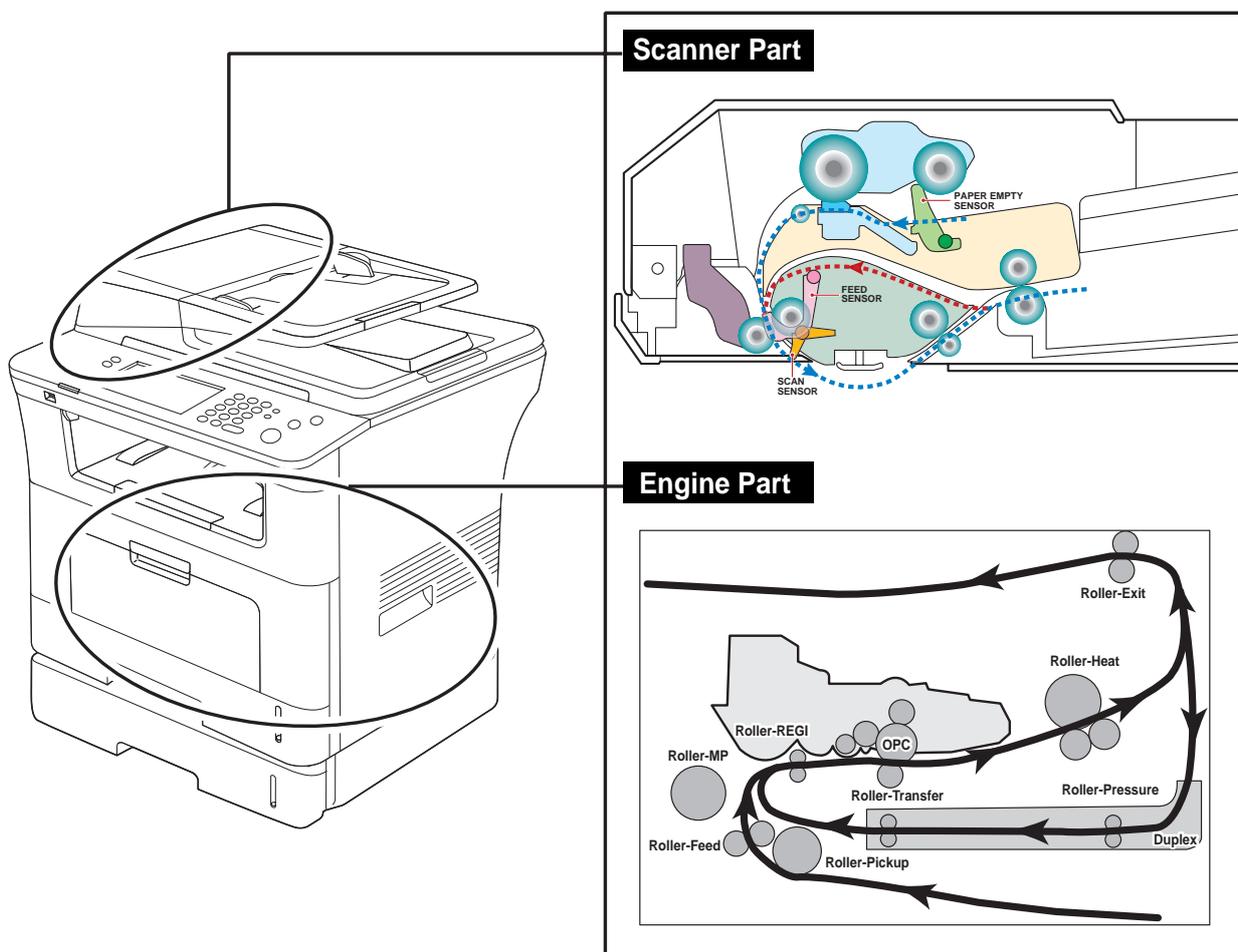
4. Alignment & Troubleshooting

This chapter describes some of the main service procedures including;

- Clearing paper jams
- Using the Diagnostic mode
- How to firmware upgrade
- Troubleshooting. etc.

4.1 Alignment and Adjustments

4.1.1 Paper path



4.1.2 Clearing Paper Jams

Occasionally, paper can be jammed during a print job. Some of the causes include:

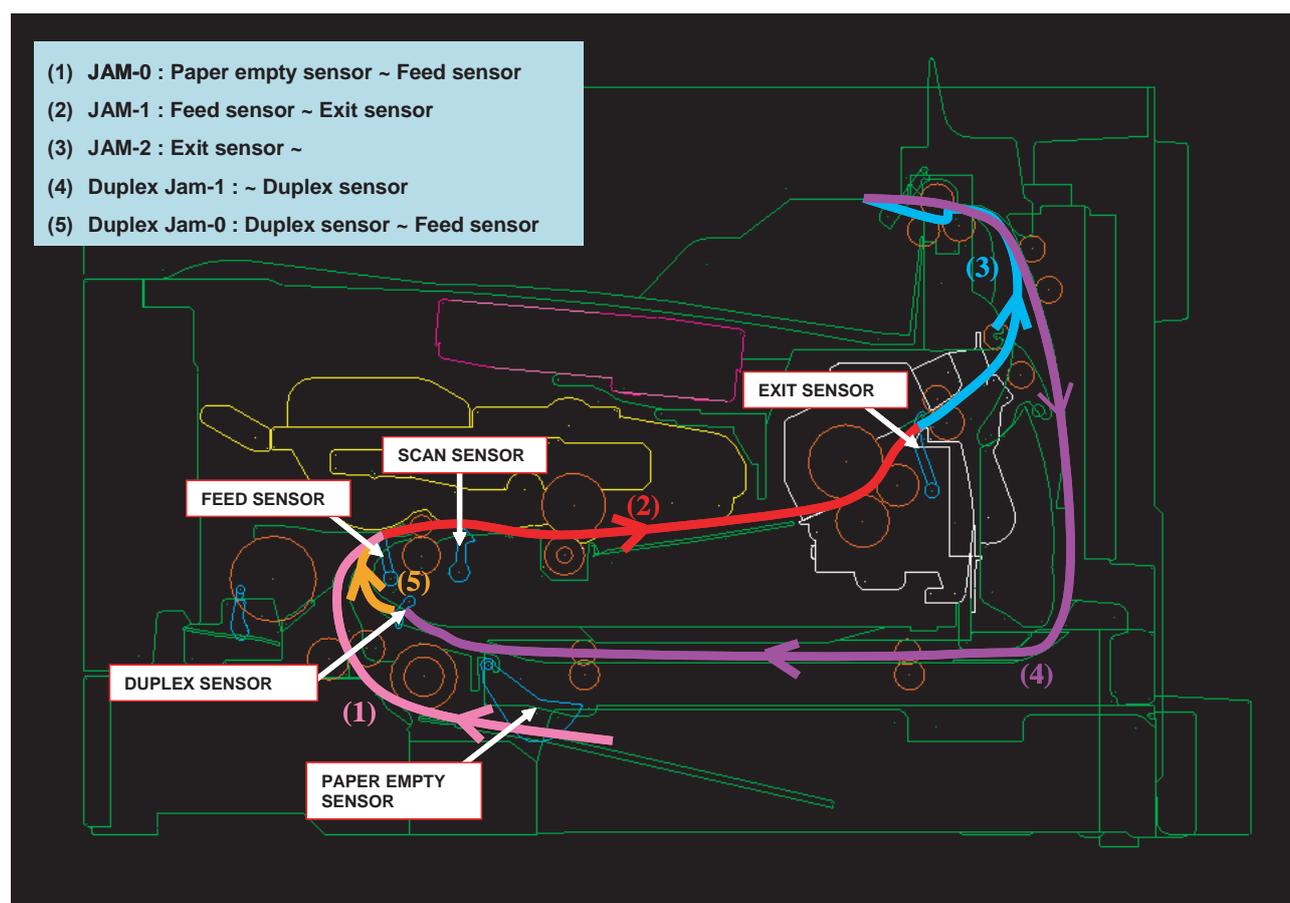
- The tray is loaded improperly or overfilled.
- The tray has been pulled out during a print job.
- The front cover has been opened during a print job.
- Paper was used that does not meet paper specifications.
- Paper that is outside of the supported size range was used.

If a paper jam occurs, LCD window will show it's speeds. Find and remove the jammed paper. If you don't see the paper, open the covers.

Do not use a pinset or a sharp metal tool when removing a jam.

The covering of a metal part can be removed which can cause an electric leakage.

■ Description of ENGINE JAM type (Layout)



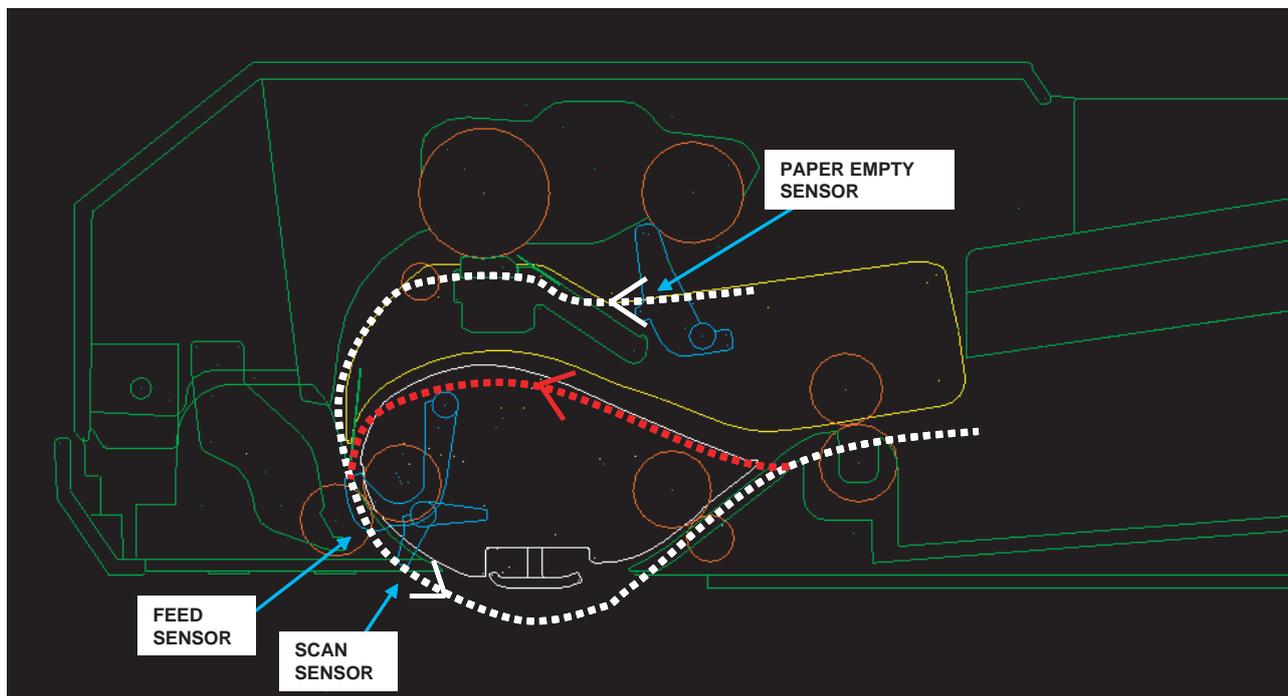
■ Description of ENGINE JAM type (Simplex)

Type	Case	Jam Removal	Jam Layout
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)	<ol style="list-style-type: none"> 1. Pull out cassette 2. Remove jammed paper 	
Jam 1	Leading edge of media does not arrive at Exit Sensor within a certain time after registration	<ol style="list-style-type: none"> 1. Open front cover 2. Pull out toner cartridge 3. Remove jammed paper 	
Jam 2	Trailing edge of media does not leave Exit Sensor within a certain time after touching registration	<ol style="list-style-type: none"> 1. Open rear cover 2. Pull down jam lever on fuser unit and open fuser cover) 3. Remove jammed paper from exit 	

■ Description of ENGINE JAM type (Duplex)

Type	Case	Jam Removal	Jam Layout
Duplex Jam 1	Trailing edge of media leaves Exit Sensor, and does not arrive at Duplex Sensor	<ol style="list-style-type: none"> 1. Open rear cover 2. Remove jammed paper <p>OR</p> <ol style="list-style-type: none"> 1. Pull out duplex unit 2. Remove jammed paper from duplex unit 	
Duplex Jam 0	Leading edge of media does not arrive at registration within a certain time after touching Duplex Sensor	<ol style="list-style-type: none"> 1. Open rear cover 2. Remove jammed paper <p>OR</p> <ol style="list-style-type: none"> 1. Pull out duplex unit 2. Remove jammed paper from duplex unit 	

■ Description of DADF JAM type

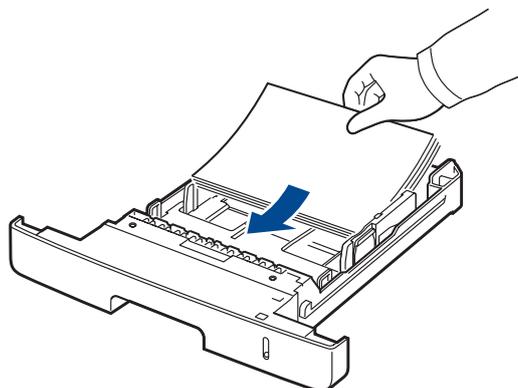


Type	Case	Jam Removal
Document Jam	All case of DADF Jam	1. Open DADF open cover 2. Remove jammed paper OR 1. Open DADF open cover and Lift up DADF middle cover 2. Remove jammed paper

4.1.2.1 Tips for avoiding paper jams

By selecting the correct media types, most paper jams can be avoided. When a paper jam occurs, follow the steps outlined on page 98.

- Ensure that the adjustable guides are positioned correctly.
Do not overload the tray. Ensure that the paper level is below the paper capacity mark on the inside of the tray.
- Do not remove paper from the tray while your machine is printing.
- Flex, fan, and straighten paper before loading.
- Do not use creased, damp, or highly curled paper.
- Do not mix paper types in a tray.
- Use only recommended print media.
- Ensure that the recommended side of the print media is facing down in the tray, or facing down in the multi-purpose tray.
- If paper jams occur frequently when you print on A5/B5-sized paper: Load the paper into the tray with the long edge facing the front of the tray. If load the paper this way, printing both sides of the paper (Duplex) is not supported.

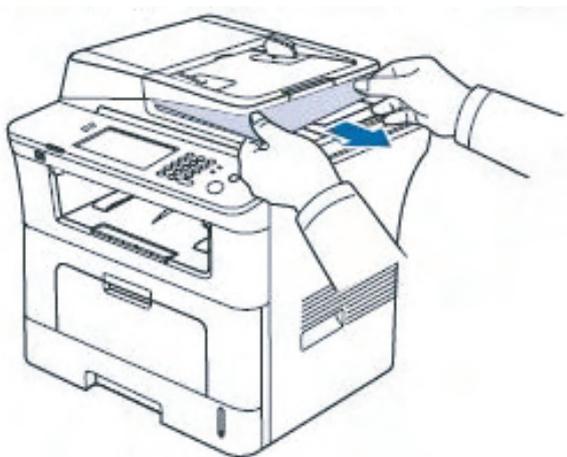


In the Printer Preferences window, set the page orientation to be rotated 90 degrees.

4.1.2.2 Clearing Original Document Jams

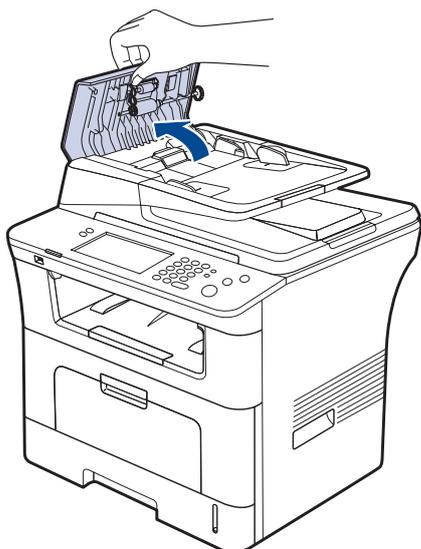
When an original jams while passing through the document feeder, a warning message appears on the display screen.

1. Remove any remaining pages from the document feeder.
2. Seize the misfeed paper, and remove the paper from the document output tray by carefully pulling it to the right using both hands.
4. Gently remove the jammed paper from the document feeder.



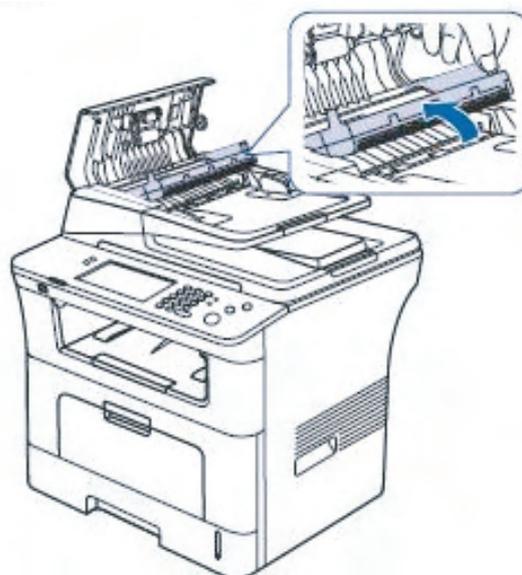
If you see no paper in this area, go to the next step.

3. Open the document feeder cover.

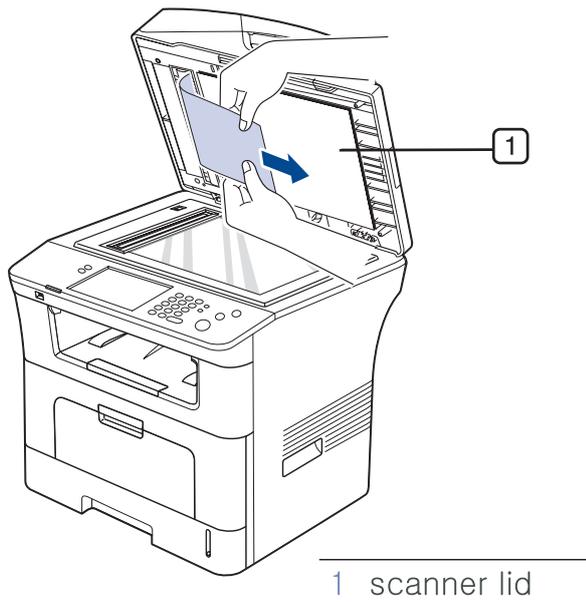


If you see no paper in this area, go to the next step.

5. Open the document feeder cover. Gently remove the jammed paper.



6. Close the document feeder cover. Reload the pages you removed, if any, in the document feeder.
7. Open the scanner lid.
8. Grasp the misfeed paper and, using both hands, remove the paper from the feed area by carefully pulling it to the right.



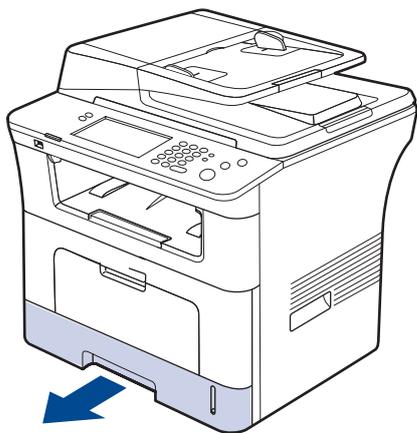
9. Close the scanner lid. Load the removed pages back into the document feeder.

4.1.2.3 Clearing paper jams

When a paper jam occurs, a warning message appears on the display screen. Refer to the table below to locate and clear the paper jam.

In tray 1

1. Open and close the front cover. The jammed paper is automatically ejected from the machine. If the paper does not exit, go to the next step.
2. Pull out tray 1.



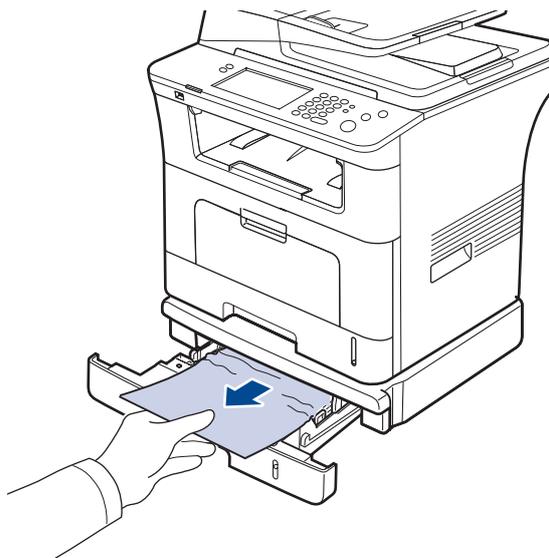
3. Remove the jammed paper by gently pulling it straight out.

If the paper does not move when you pull, or if you do not see the paper in this area, check the fuser area around the toner cartridge.

4. Insert tray 1 back into the machine until it snaps into place. Printing automatically resumes.

In optional tray 2

1. Pull out optional tray 2 open.
2. Remove the jammed paper from the machine.



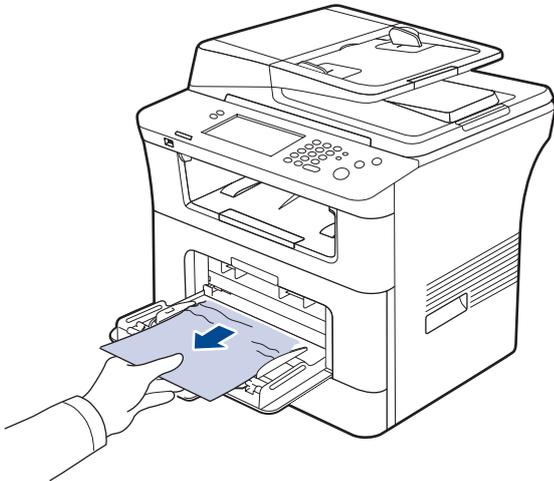
If the paper does not move when you pull or if you do not see the paper in this area, stop and go to step

3. Pull tray 1 half-way out.
4. Pull the paper straight up and out.

5. Insert the trays back into the machine. Printing automatically resumes.

In the multi-purpose tray

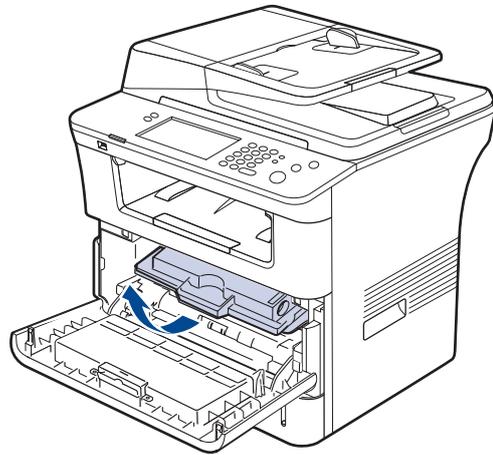
1. If the paper is not feeding properly, pull the paper out of the machine.



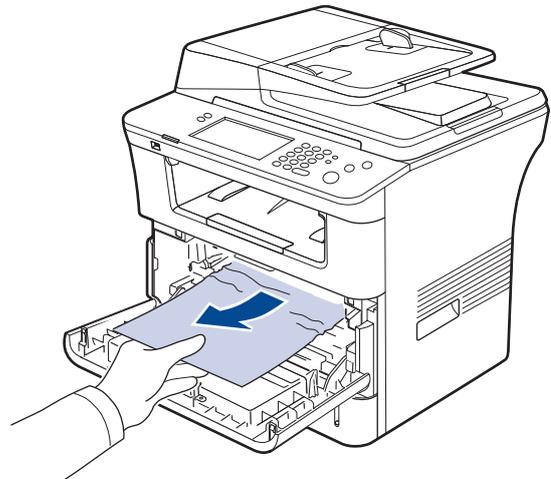
2. Open and close the front cover to resume printing.

Inside the machine

1. Open the front cover and pull the toner cartridge out, lightly pushing it down.



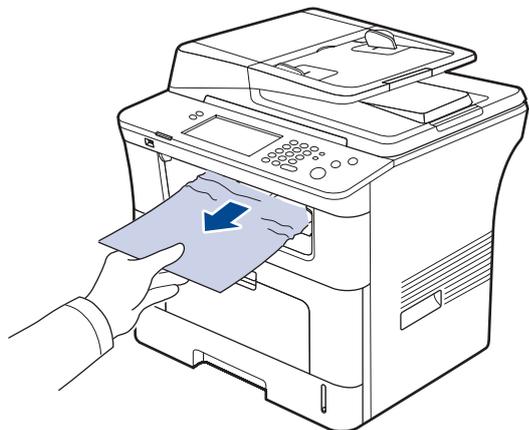
2. Remove the jammed paper by gently pulling it straight out.



3. Replace the toner cartridge and close the front cover. Printing automatically resumes.

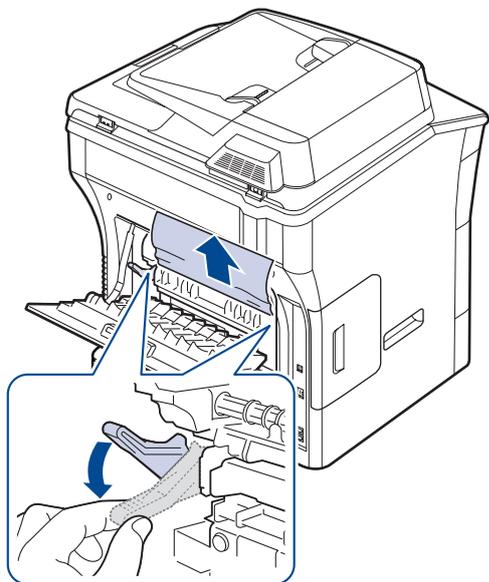
In exit area

1. Open and close the front cover. The jammed paper is automatically ejected from the machine.
2. Gently pull the paper out of the output tray.



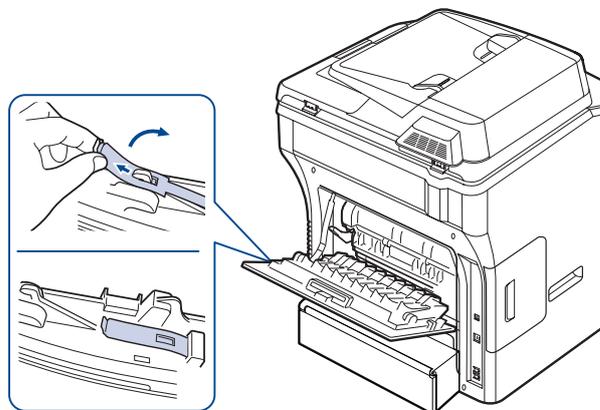
If you do not see the jammed paper or if there is any resistance when you pull, stop and go to the next step.

3. Open the rear cover.
4. If you see the jammed paper, push the pressure lever on each side up and remove the paper. Skip to step 9.

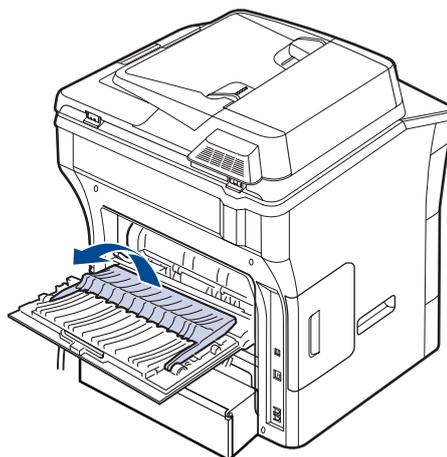


If you still do not see the paper, go to the next step.

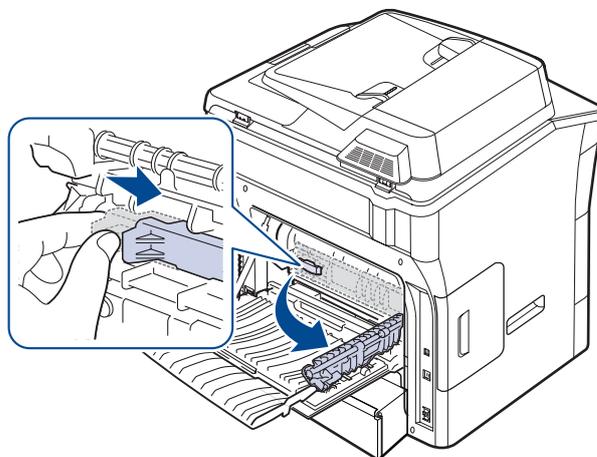
5. Release the white strip, the rear cover stopper, and fully open the rear cover, as shown.



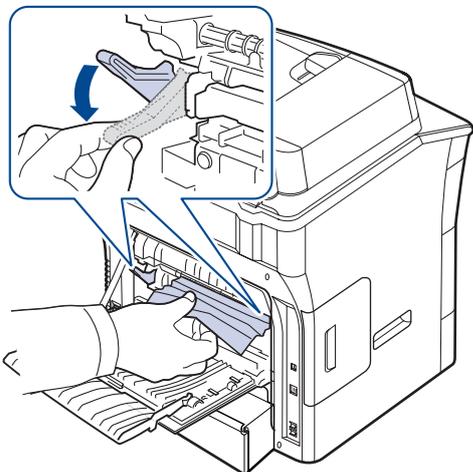
6. Unfold the duplex guide fully.



7. While pushing the fuser lever to the right, open the fuser door.



- Pull the jammed paper out. If the jammed paper does not move when you pull, push the pressure lever on each side up to loosen the paper, and then remove it.

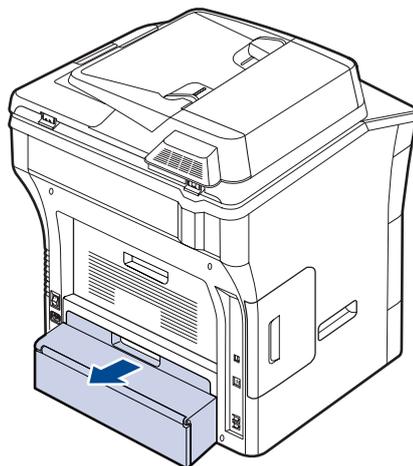


- Return the lever, door, stopper, and guide to their original position.
- Close the rear cover. Printing automatically resumes.

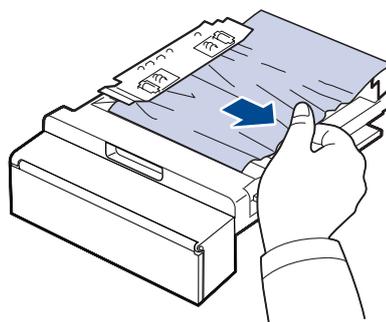
In the duplex unit area

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

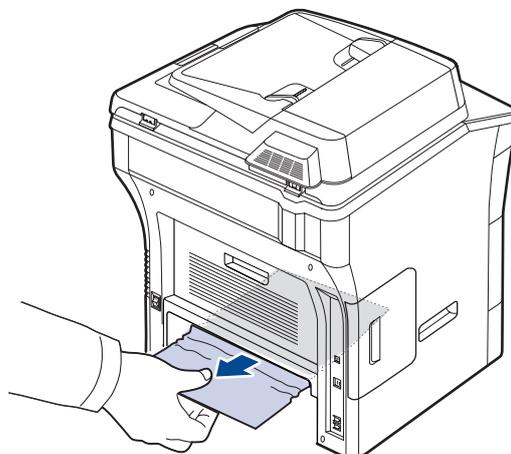
- Pull the duplex unit out of the machine.



- Remove the jammed paper from the duplex unit.

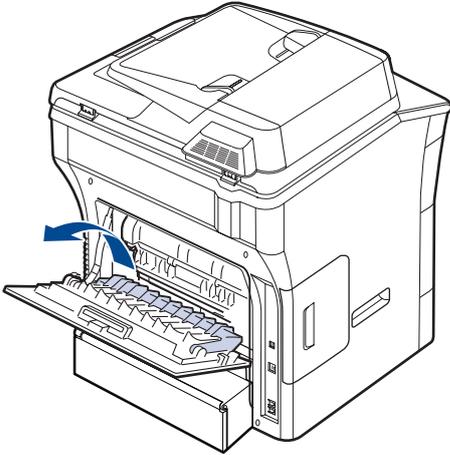


If the paper does not come out with the duplex unit, remove the paper from the bottom of the machine.

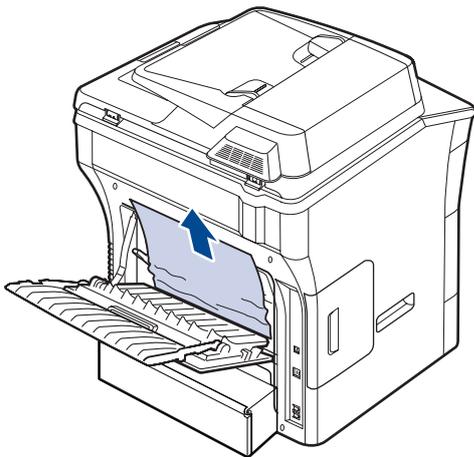


If you still do not see the paper, go to the next step.

3. Open the rear cover.
4. Unfold the duplex guide fully.

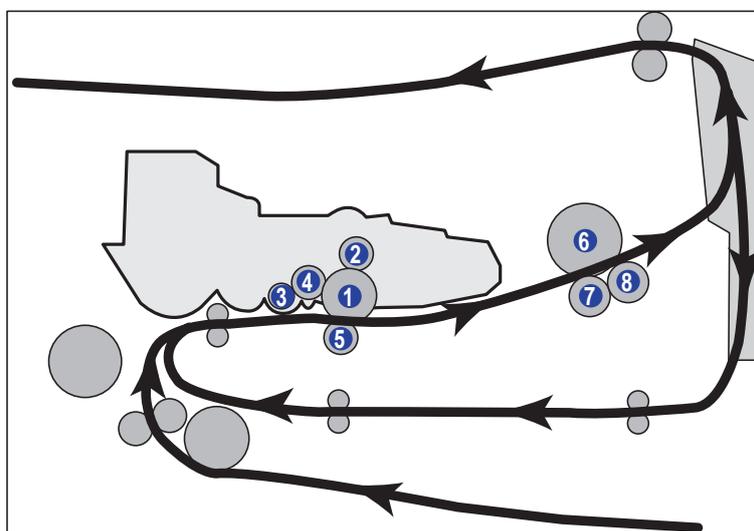


5. Pull the jammed paper out.



4.1.3 Abnormal Image Printing and Defective Roller

If abnormal image prints periodically, check the parts shown below.



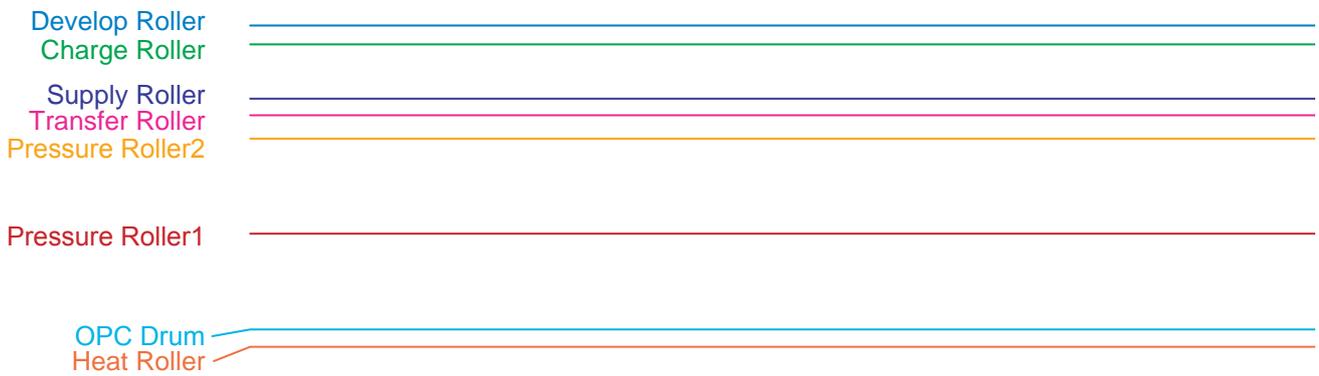
- ① OPC Drum
- ② Charge Roller
- ③ Supply Roller
- ④ Developing Roller
- ⑤ Transfer Roller
- ⑥ Heat Roller
- ⑦ Pressure Roller1
- ⑧ Pressure Roller2

No	Roller	Abnormal image period	Kind of abnormal image
1	OPC Drum	75.5mm	White spot, Block spot
2	Charge Roller	37.7mm	Black spot
3	Supply Roller	44.9mm	Horizontal density band
4	Develop Roller	35.2mm	Horizontal density band
5	Transfer Roller	47.1mm	Black side contamination/transfer fault
6	Heat Roller	77.8mm	Black spot and fuser ghost
7	Pressure Roller1	62.8mm	Black side contamination
8	Pressure Roller2	50.2mm	Black side contamination

■ Repetitive defect Image check page

Print this page. Align the this page and the printed defect image and find the defective roller.

Start line _____



4.1.4 Control Panel overview



1	Machine Setup	Guides you to the machine setup and advanced settings.
2	Job Status	Shows jobs currently running, queued jobs and completed.
3	Status	Shows the status of your machine.
4	Display screen	Displays machine's current status and prompts during an operation. Set menus easily using the touch screen.
5	Numeric keypad	Dials fax number, and enters the number value for document copies or other options.
6	Clear:	Deletes characters in the edit area.
7	Redial/Pause	In standby mode, redials the last number; or in edit mode, inserts a pause into a fax number.
8	On Hook Dial	Engages the telephone line.
9	Interrupt	Stops a job in process to do an urgent copy job.
10	Clear All	Reverts the current settings to default values.
11	Power Saver	Sends the machine into power saver mode. You can also turn the power on and off with this button.
12	Stop	Stops an operation at any time. The pop-up window appears on the screen showing the current job that the user can stop or resume.
13	Start	Starts a job.

4.1.4.1 Introducing the touch screen and useful buttons

Touch screen

The touch screen allows for user-friendly operation of the machine. Once you press the home icon () 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.
- Stored Documents: Enters the Stored Documents menu.
- USB: When USB memory is inserted into the USB memory port on your machine, USB icon shows on the display screen.
- SmarThru Workflow: Enters the SmarThru Workflow menu. (Optional)
- Toner Info.: Shows amount of toner used.
- LCD Brightness: Adjusts the brightness of the touch screen.
-  : You can change the display language.
-  : Guides you to remove the USB memory devices from the machine. Follow the instruction on the LCD. This icon appears only when you connect an USB memory module.
- Logout: Logs out from the currently logged in account.

Machine Setup button

When you press Machine Setup button, you can browse current machine settings or change machine values.



-  This button allows you to move to Copy, Fax, Scan, Stored Documents menu directly.
- Machine Status: Shows the current status of the machine.
- Admin Setting: Allows an administrator to set up the machine.
- Usage Page Report: You can print the report on the amount of printouts depending on the paper size and type.

Job Status button

When you press Job Status button, the screen shows the lists of currently running jobs, queued jobs and completed jobs.



- Current Job tab: Shows the list of jobs in progress and pending.
- Completed Job tab: Provides the list of completed jobs.
- Active Notice tab: Displays any error codes that have occurred.
- No.: Gives the order of jobs.
- 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.
- Detail: Shows the detailed information of the selected option on the Current Job, Completed Job and Active Notice list.
- Delete: Removes the selected job from the list.
- Delete All: Removes all the jobs from the list.
- Close: Closes the job status window and switches to previous view.

Power Saver button

When the machine is not in use, save electricity with the provided power save mode. Pressing this button puts the machine into power save mode. If you press Power Saver button for more than two seconds, a window appears, requesting that you turn the power off. If you choose Yes, the power is turned off.

This button can also be used to turn the button on.

Status		Description
Off		<ul style="list-style-type: none"> • The machine is not in the power save mode. • The machine is in the low power save mode.
Blue	On	machine is in the power save mode.
	Blink	The machine is in the ready power save mode.

Interrupt button

When you press Interrupt button, the machine goes into interrupt mode which means it stops a printing job for urgent copy job. When the urgent copy job completes, the previous printing job continues.

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

4.1.5 Understanding The Status LED

The color of the Status LED indicates the machine's current status.

Status		Description
Off		<ul style="list-style-type: none"> The machine is powered off-line. The machine is in power save mode. When data is received, or any button is pressed, it switches to on-line automatically.
Green	Blinking	<ul style="list-style-type: none"> When the backlight slowly blinks, the machine is receiving data from the computer. When the backlight blinks rapidly, the machine is printing data.
	On	<ul style="list-style-type: none"> The machine is powered on and can be used.
Red	Blinking	<ul style="list-style-type: none"> A minor error has occurred and the machine is waiting for the error to be cleared. Check the display message. When the problem is cleared, the machine resumes. The toner cartridge is near the end of its life. Order a new toner cartridge. You can temporarily improve print quality by redistributing the toner.
	On	<ul style="list-style-type: none"> The toner cartridge is totally empty. Remove the old toner cartridge and install a new one. A paper jam has occurred. The cover is opened. Close the cover. There is no paper in the tray. Load paper in the tray. The machine has stopped due to a major error. Check the display message.

4.1.6 Menu overview

4.1.6.1 Menu Map

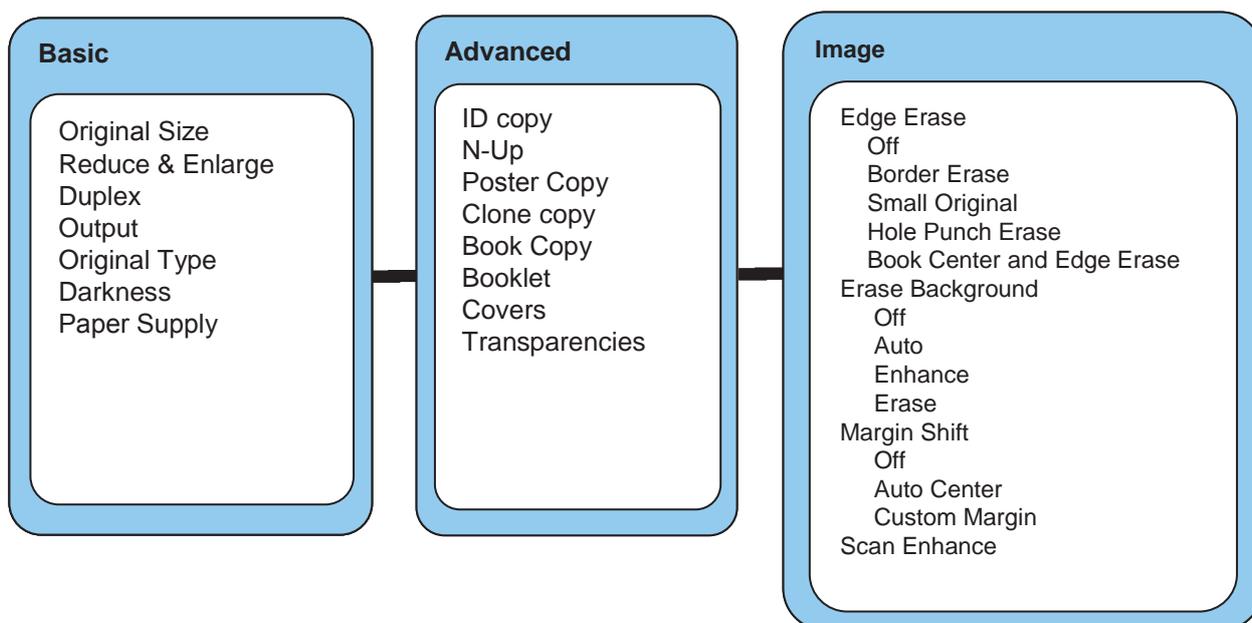
The control panel provides access to various menus to set up the machine or use the machine's functions. These menus can be accessed by pressing Machine Setup, Job Status, or touching menus on the display screen. Refer to the following table.

NOTE - Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine.

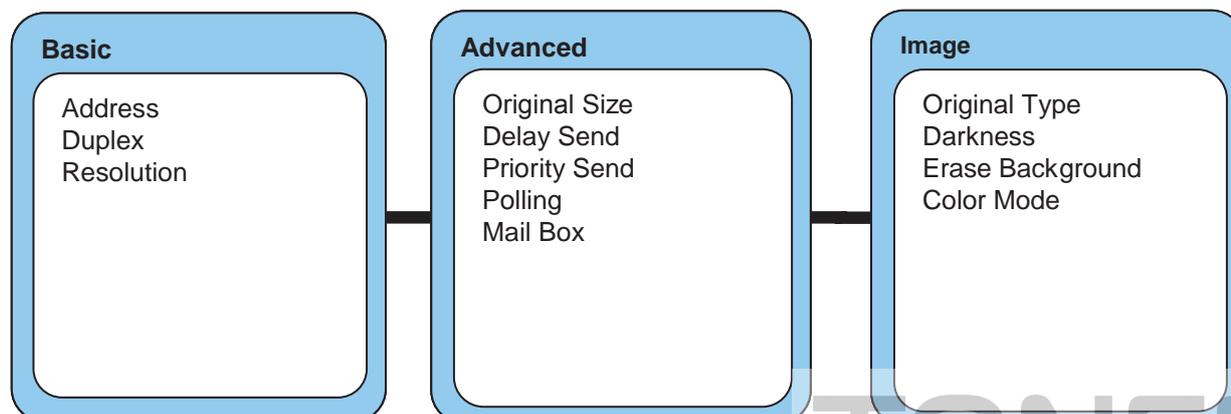
Main screen

The main screen is shown on the display screen on the control panel. Some menus are grayed out depending on your model.

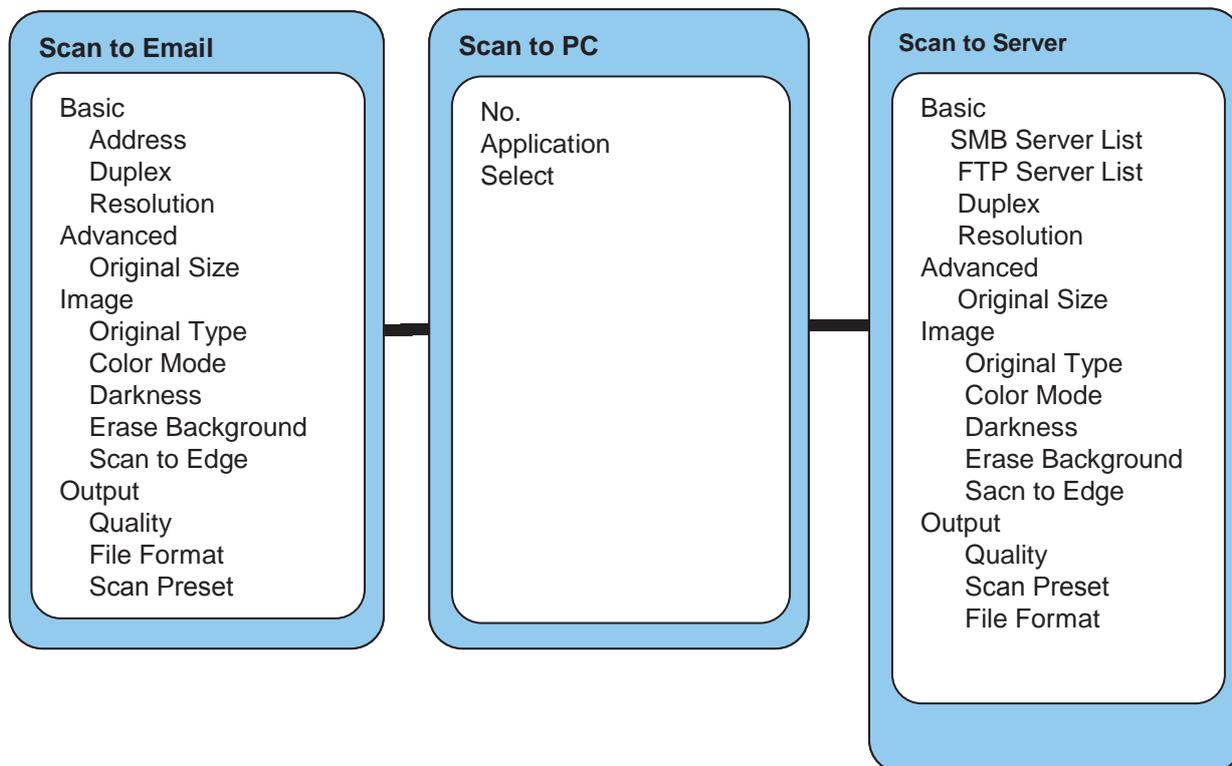
Copy Menu Map



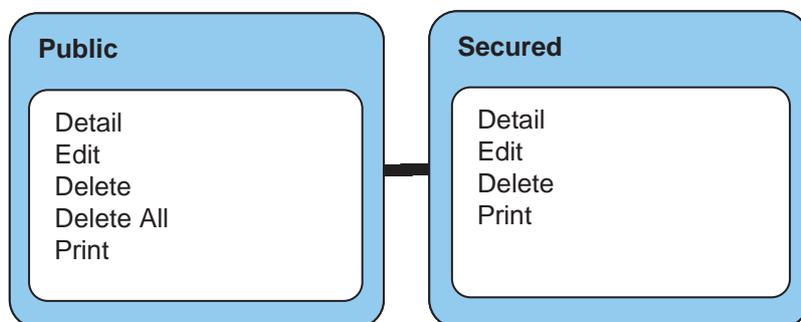
Fax Menu Map



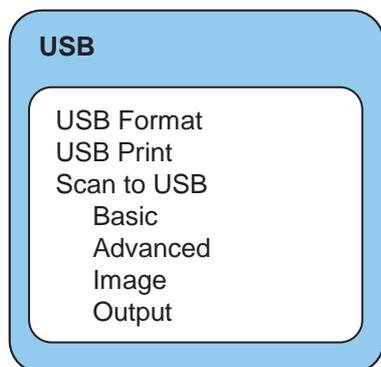
Scan Menu Map



Stored Documents Menu Map

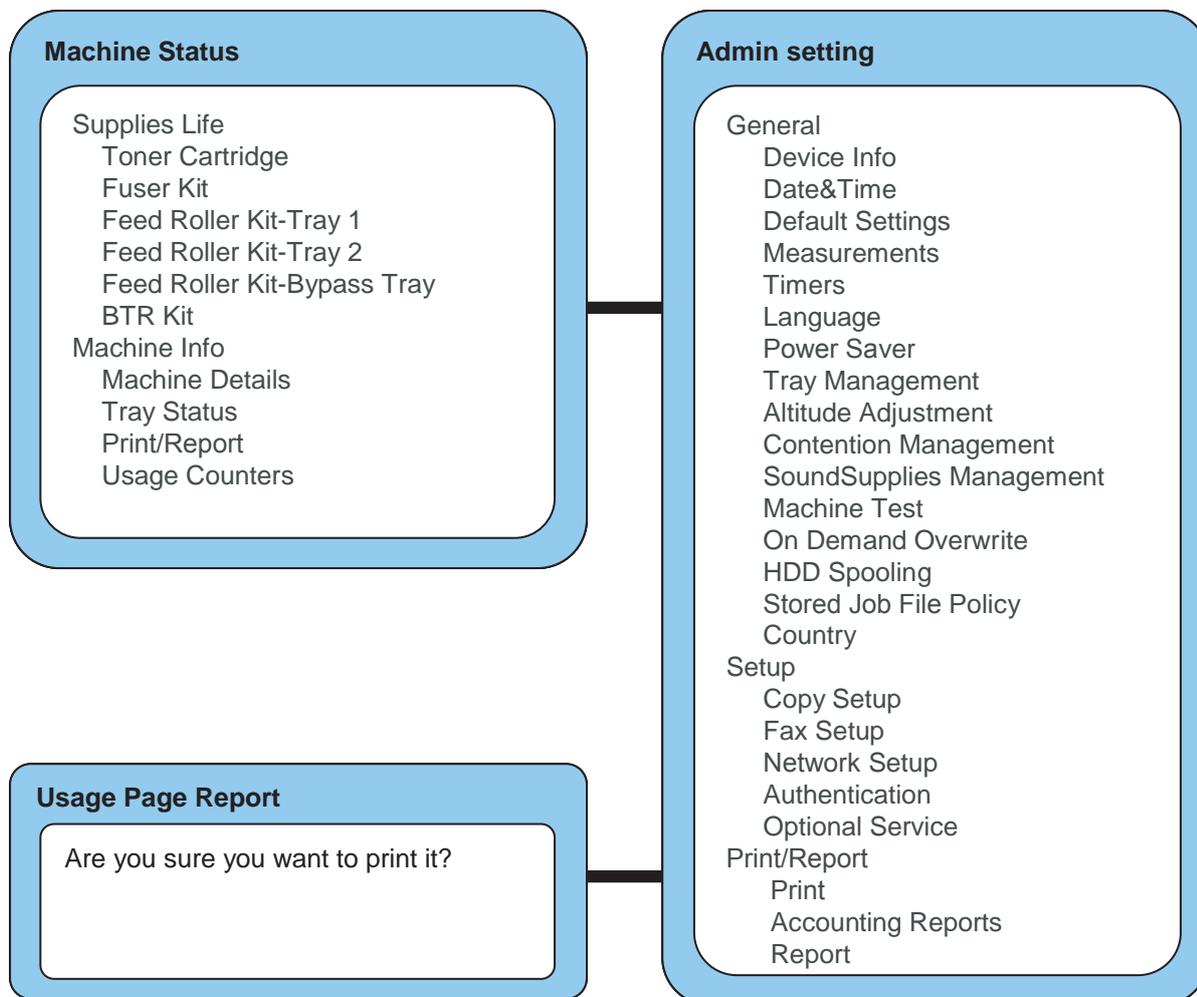


USB Menu Map



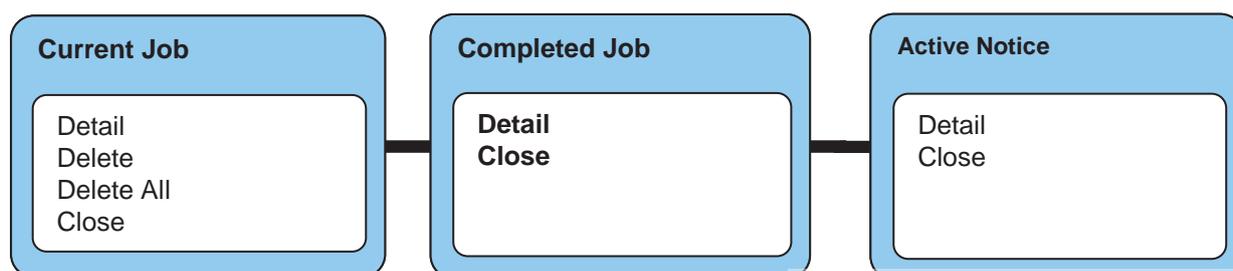
Machine Setup button

When you press the Machine Setup button on the control panel, the screen displays two menus. Machine Status shows the supplies life, billing, counters and reports. Admin Setting lets you set the advanced setup to use your machine in depth and conveniently. Usage Page Report prints a report on the number of printouts based on the paper size and type.



Job Status button

This menu shows the job in process, jobs waiting and, in completed, and error messages.



4.1.6.2 Understanding the Copy screen

When you press Copy on the Main screen, the Copy screen appears which has several tabs and lots of copying options. All the options are grouped by features so that you can configure your selections easily. If the screen displays another menu, press Home button to go to the Main screen. If you want to know more information for copy screen, please consult the user manual.

Basic Tab



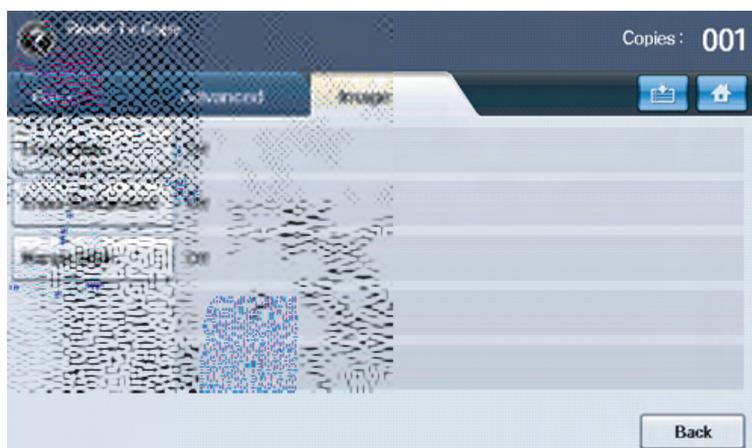
- Original Size : Selects the size of the originals.
- Reduce/Enlarge : Reduces or enlarges the size of a copied image.
- Duplex : Sets the machine to print copies on both sides of the paper.
- Output : Selects Collated or Uncollated copy options.
- Original Type : Improves the copy quality by selecting the document type for the current copy job.
- Light, Dark : Adjusts the brightness level to make a copy that is easier to read, when the original contains faint markings and dark images.
- Paper Supply : Selects the paper supply tray.
- Erase Edge : Allows you to erase punch holes, staple marks, and fold creases along any of the four documents edges.

Advanced Tab



- ID Copy: Prints 2-sided originals on one sheet of paper. This feature is helpful for copying a small-sized item, such as a business card.
- N-Up: Prints 2 or 4 original images, reduced to fit onto one sheet of paper.
- Poster Copy: Prints a large image into divided 9 pages.
- Clone Copy: Prints multiple image copies from the original document on a single page.
- Book Copy: Allows you to copy an entire book.
- Booklet: Creates booklets from a sequential set of either 1-sided or 2-sided originals.
- Covers: Automatically adds covers to your copied set using stock taken from a different tray.
- Transparencies: Adds a blank or printed divider between transparencies within a set.

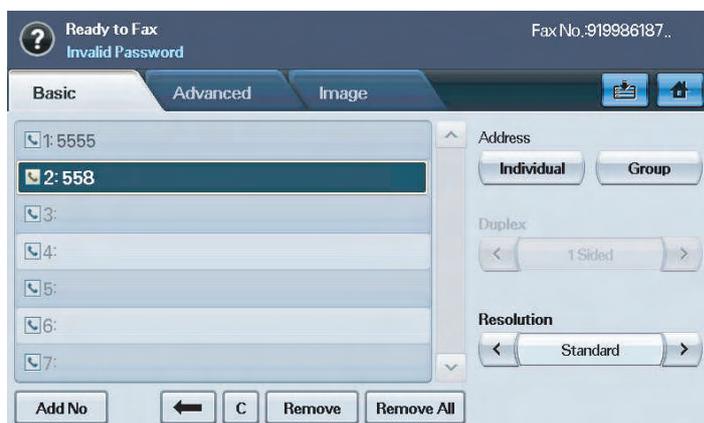
Image Tab



- Erase Edge: Allows you to erase punch holes, staple marks, and fold creases along any of the four documents edges.
- Erase Background: Prints an image with no background.
- Margin Shift: Creates a binding edge for the document.

4.1.6.3 Understanding the FAX screen

When you press Fax on the Main screen, the Fax screen appears which has several tabs and lots of fax options. All the options are grouped by features so that you can configure your selections easily. If the screen displays an other menu, press Home button to go to the Main screen. If you want to know more information for Fax screen, please consult the user manual.



Basic Tab

- Fax number input area : Shows the recipient's fax number using the number keypad on the control panel. If you configured the phone book, press Individual or Group.
- Add No : Lets you add more destinations.
- ← : Deletes the last digit entered.
- C : Removes all digits of the selected entry.
- Remove : Removes the selected fax number entry.
- Remove All : Removes all the fax numbers in the input area.
- Address : Picks up the frequently used fax numbers directly from your machine or from SyncThru Web Service.
- Duplex : Selects whether the machine send faxes one side of the original, both sides of the original.
- Resolution : Adjusts the resolution options.

Advanced Tab

- Original Size: Selects the size of the original document. Press OK to update current setting.
- Delay Send: Sets the machine to send a fax at a later time without your intervention.
- Priority Send: Sends an urgent fax before reserved operations.
- Polling: Used when the receiver requests the document to be faxed remotely at sender's absence or vice versa. In order to use the polling function, the originals must be previously stored in the machine.
- Mailbox: Used to store a received fax or originals in the machine memory which are ready to be polled. You can use a mailbox on the same machine you are using, or the one on a remote machine. Each mailbox has a corresponding mailbox number, name and password.
- Back: Returns to the Basic tab.

Image Tab

- Original Type: Enhances the fax quality based on the type of the original document being scanned.
- Darkness: Adjusts the level of lightness or darkness of the fax.
- Erase Background: Reduces dark backgrounds or paper patterns as in newspaper originals.
- Color Mode: Selects whether the user sends the fax in mono or color.
- Back: Returns to the Basic tab.

4.1.6.4 Understanding the SCAN screen

To use the scanning feature, press Scan on the Main screen. If the screen displays an other menu, press home button to go to the Main screen.

If the message asking Auth. ID and Password, it means the network administrator has set the authentication in SyncThru Web Service.



Press Scan to Email, Scan to PC Scan to Server.



- Scan to Email: Scans and sends the scanned output to the destination by email.
- Scan to PC : Scans and sends the scanned output to your PC.
- Scan to Server: Scans and sends the scanned output to the destination with SMB and FTP.

Basic tab

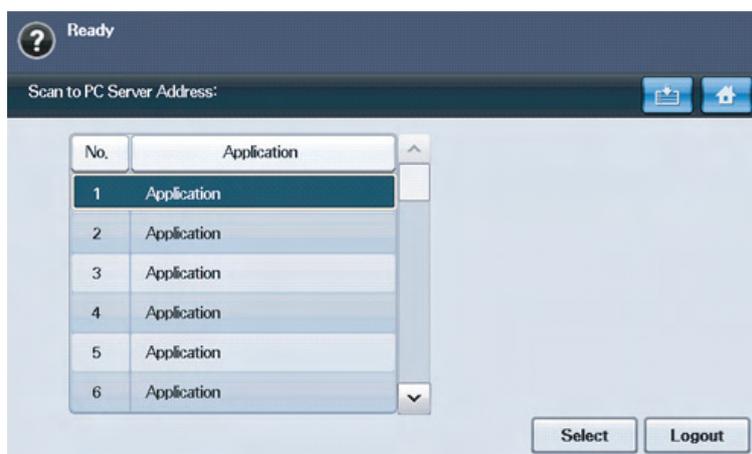
This section explains the Basic tab of Scan to Email and Scan to Server, and NetScan's basic screen.

- Scan to Email



- From: Sender's email address.
- To/Cc/Bcc: Recipients' addresses. Cc is for copies to an additional recipient and Bcc is for the same as Cc but without their name be displayed.
- Subject/Message: Subject and message of the email.
- Remove All: Erases everything in the input area.
- Address: Inputs the recipient's address just by pressing stored addresses. You can store frequently used email addresses from your computer using the SyncThru Web Service.
- Duplex: Selects whether the machine scans on one side of the paper (1 Sided), both sides of the paper (2 Sided), or both sides of paper but back is rotated 180 degrees (2 Sided, Rotate Side 2).
- Resolution: Selects the scanning resolution value.
- Back: Returns to the previous screen. If the network authentication is enabled, the log off confirmation message popes up and closes Scan to Email.

- Scan to PC



If the authentication for network appears, you have to enter user name and password to enter the Scan to PC screen.

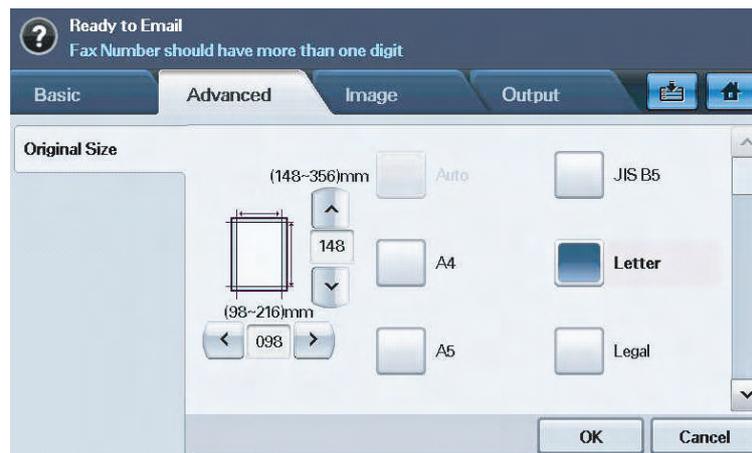
- No.: Lists the number in order for application programs.
- Application: Shows the available application programs from your computer.
- Select: Moves to the application program you have selected.

- Scan to Server



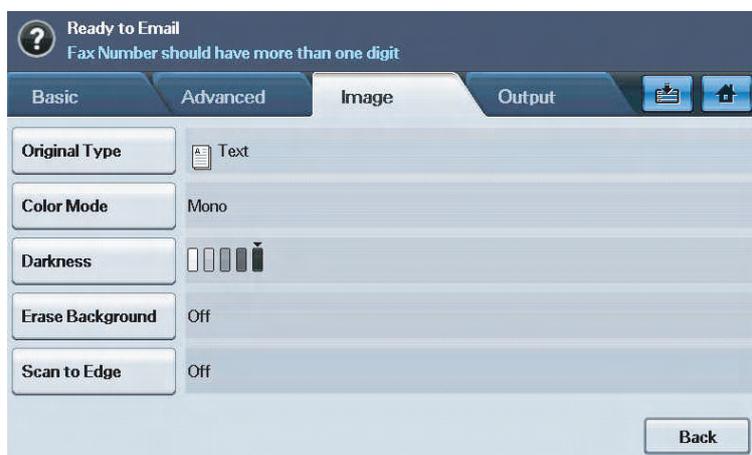
- SMB: Sends the scanned file to SMB. Press SMB for that option.
- FTP: Sends the scanned file to FTP. Press FTP for that option.
- No.: Index number which you entered in SyncThru Web Service.
- Server: Alias name which you entered in SyncThru Web Service.
- Duplex: Selects whether the machine scans on one side of the paper (1 Sided), both sides of the paper (2 Sided), or both sides of paper but back is rotated 180 degrees (2 Sided, Rotate Side 2).
- Resolution: Selects the scanning resolution value.
- Back: Returns to the previous screen.
- Quality: Adjusts the display quality of the scan output.
- File Format: Selects the file format of the scan output.
- Scan Preset: Automatically changes some scan options such as file format, resolution, and more. You can adjust options to fit each specific purpose.
- Back: Returns to the previous screen.

Advanced tab



- Original Size: Sets the originals to a specific fixed size.
- Back: Returns to the previous screen.

Image tab



- Original Type: Selects whether the original is text or photo.
- Color Mode: Adjusts the color options of the scan output. If the original is color and you want to scan in color, press Color Mode.
- Darkness: Adjusts the degree of darkness of the scan output. Use left/right arrow to adjust the values.
- Erase Background: Erases backgrounds like paper patterns.
- Scan to Edge: Scans originals from edge-to-edge.
- Back: Returns to the previous screen.

Output tab



- Quality: Adjusts the display quality of the scan output.
- File Format: Selects the file format of the scan output.
- Scan Preset: Automatically changes some scan options such as file format, resolution, and more. You can adjust options to fit each specific purpose.
- Back: Returns to the previous screen.

4.1.6.5 Understanding the Stored Documents screen



User Name	File Name	Date	Page
Value 1111	FirstRoww	2001/2/3	1
Value 1111	FirstRoww	2001/2/3	3
Value 1111	FirstRoww	2001/2/3	5
Value 1111	FirstRoww	2001/2/3	7
Value 1111	FirstRoww	2001/2/3	9
Value 2222	Second Roww	2011/2/3	2

1/2 Page Total : 1 **Detail** **Edit** **Delete** **Delete All** **Print**

- Public tab : Shows the job list of delay print and store print job.
- Secured tab : Shows the job list of secure print, secure receive, and secure store print job.
- User Name : Shows the user name who registered the job.
- File Name : Shows the job name which is registered as the job information. For the computer printing, the file name shows.
- Date : Shows the date of the job registered.
- Page : Shows the total page number of the job.
- Detail : Pops the separate message showing the basic job information with the file size, the paper size and the paper type, as well.
- Edit : Lets you to modify the file name.
- Delete : Deletes the selected list.
- Delete All : Deletes all the list.
- Print : Prints the selected list.

4.1.6.6 Understanding the USB screen

When USB memory is inserted into the USB memory port on your machine, USB icon shows on the display



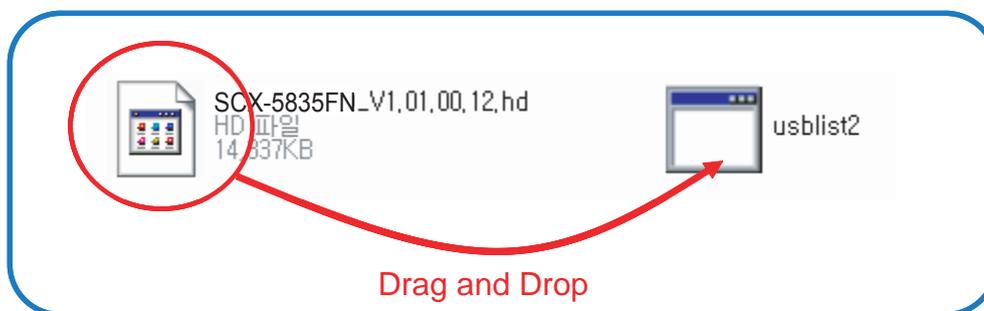
- **USB Format:** You can delete image files stored on an USB memory device one by one or all at once by reformatting the device.
- **USB Print:** You can directly print files stored on an USB memory device. You can print TIFF, BMP, JPEG, PDF, and PRN files.
- **Scan to USB:** You can specify image size, file format, or color mode for each scanning to USB job.

4.1.7 Firmware Upgrade

- USB and Network port are used to F/W upgrade.
- Network applications (SWAS, SWS) can be used for network port upgrade.

4.1.7.1. Using the common method

- ① Download the firmware file in the temporary folder. And unzip the file.
- ② Delete all current jobs from Job Status window
- ③ Connect USB cable in the machine (idle state)
- ④ Send firmware file(*.hd) by usblist2
 - Drag the f/w file and Drop down on the usbprn2.exe. And then f/w update will be started automatically.

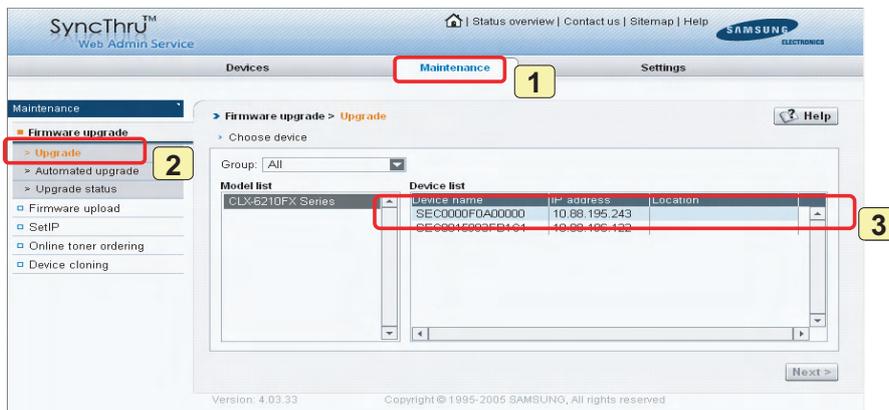


- ⑤ Please wait until end reboot.

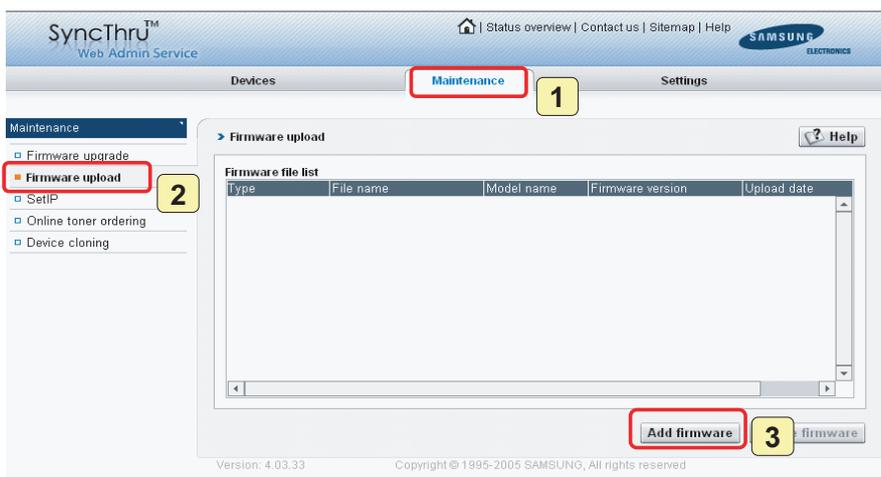
4.1.7.2. F/W upgrade using SWAS (SyncThru Web Admin Service)

- Start the SWAS program.
 (Windows Start menu > Programs > Samsung Network Printer Utilities > SyncThru Web Admin Service)

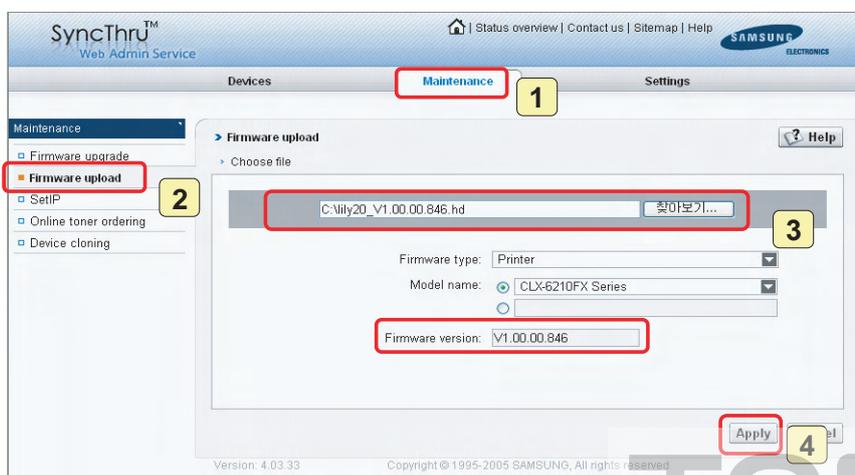
① Firmware Upgrade → Upgrade (check device using IP address)



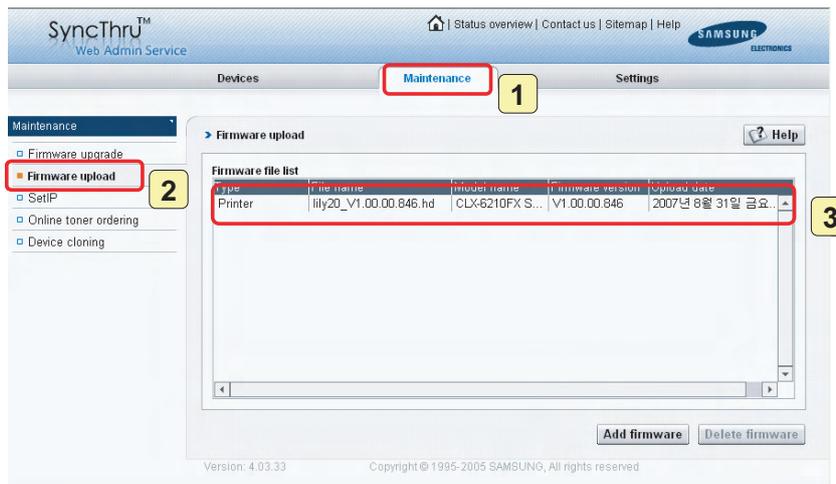
② Maintenance → Firmware upload (register firmware)



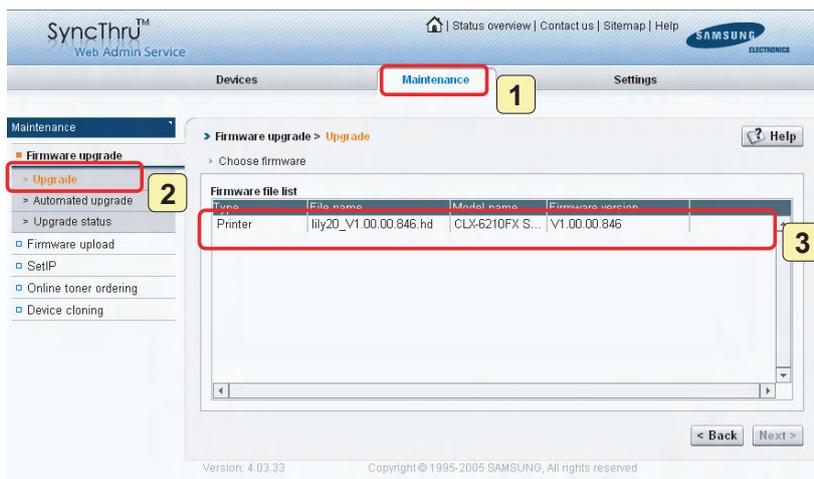
③ Maintenance → Firmware Upload (upload firmware)



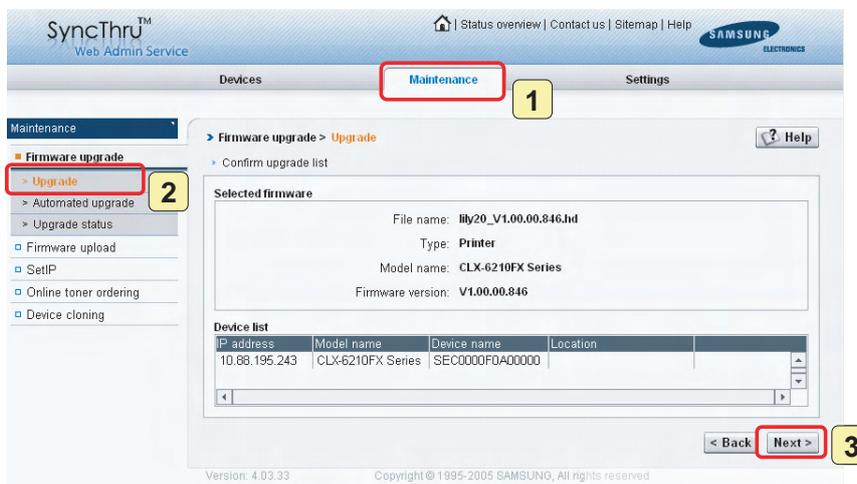
④ Maintenance → Firmware Upload (confirm uploaded firmware)



⑤ Maintenance → Firmware Upgrade → Upgrade (choose firmware)



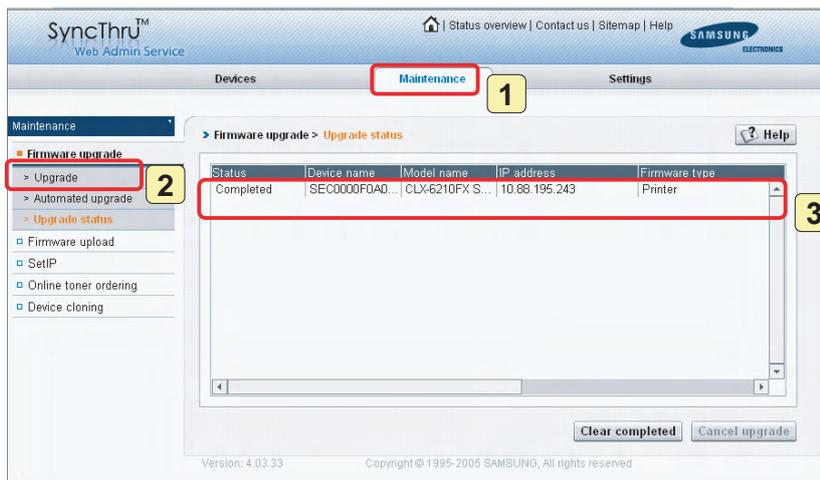
⑥ Maintenance → Firmware Upgrade → Upgrade (choose firmware)



⑦ Maintenance → Firmware Upgrade → Upgrade



⑧ Maintenance → Firmware Upgrade → Upgrade (Done)



4.1.8 Diagnostics

4.1.8.1 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.

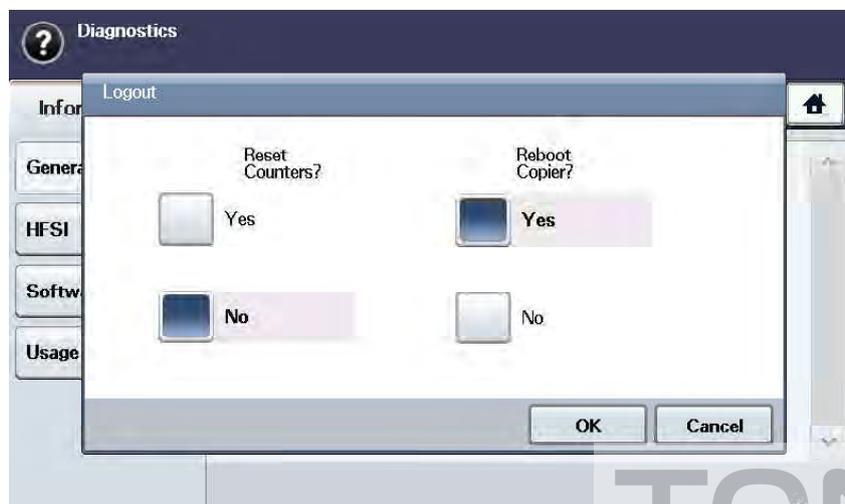
4.1.8.2 How to enter diagnostics mode

1. Press (1,2,3) key on dial pad simultaneously.
2. Enter password(1934).
3. Press 'OK' button.

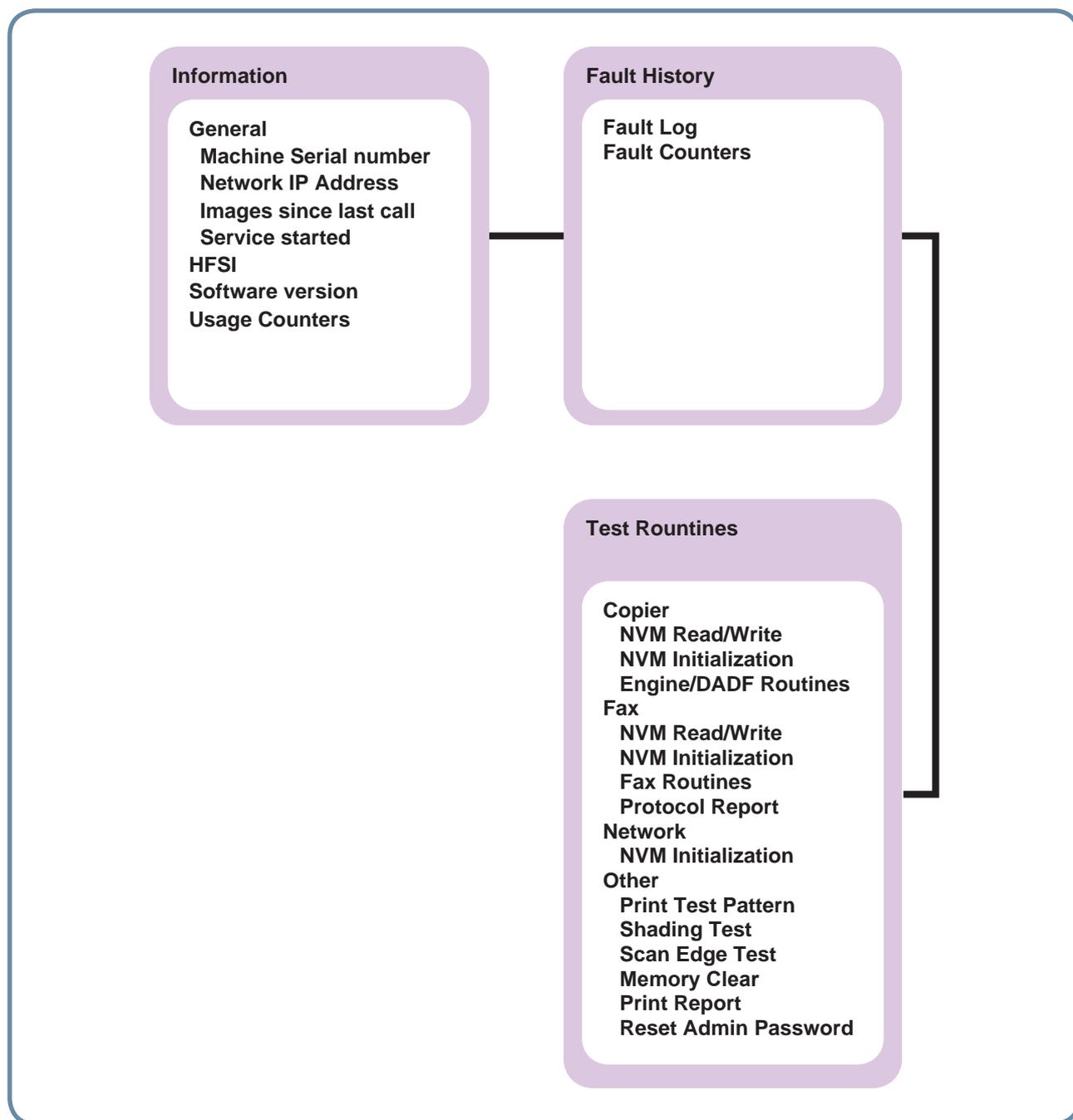


4.1.8.3 How to exit diagnostics mode

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.



4.1.8.4 Diagnostics Menu Map



4.1.8.5 Information Tab

Information tab provides detail information of the machine.

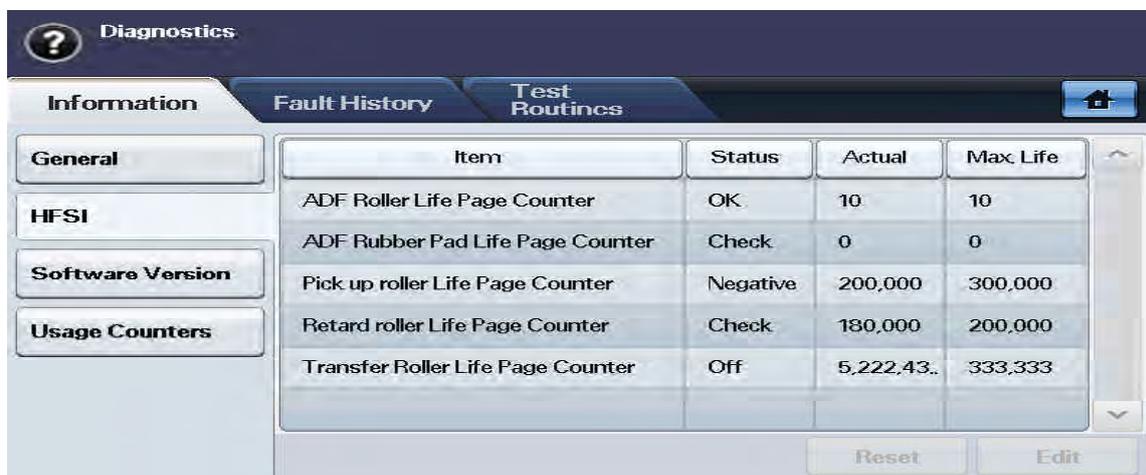
General

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



HFSI (High Frequency Service Items)

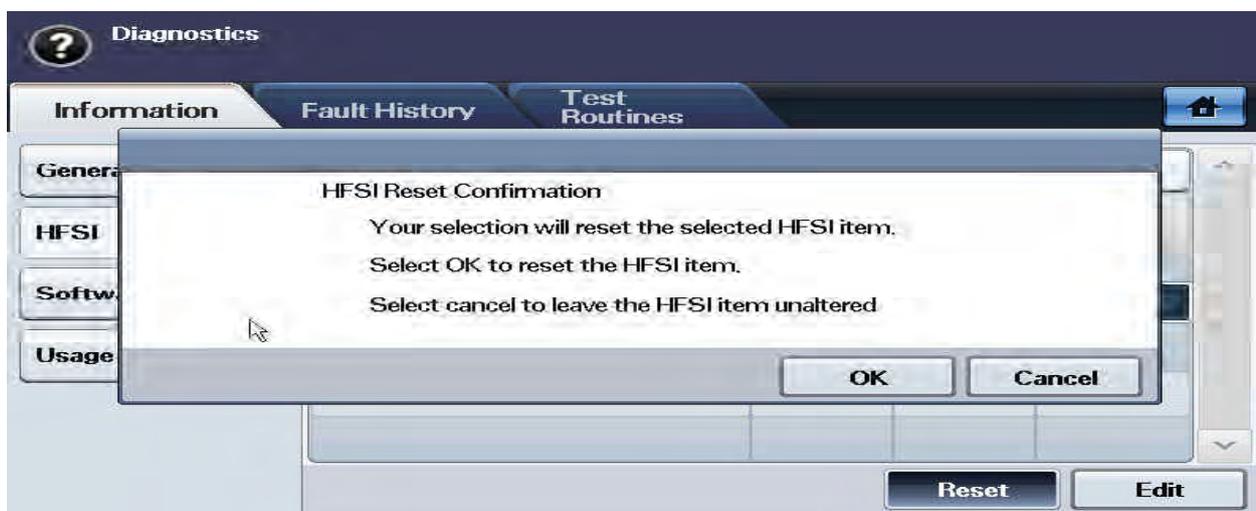
- Diagnostics>Information>HFSI
- When user selects General, OP displays the list of HFSI(High Frequency Service Items) read from the MCB. In the list, there are " Item", "Status", "Actual", and "Max Life".



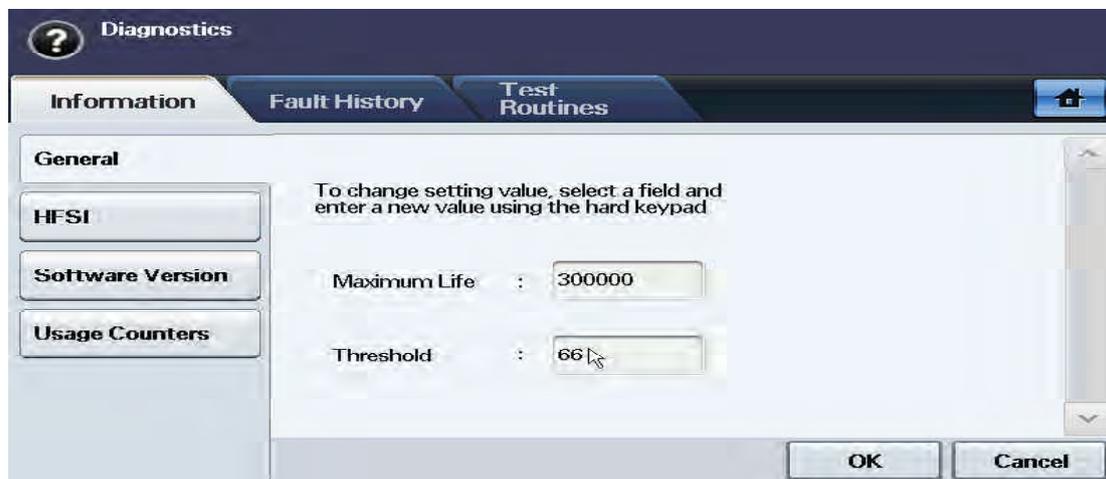
- User Behavior
 - User can select one item in the list to reset the counter using “Reset” button or to edit the Max.Life and threshold value using “Edit” button.
- Items in this column are:
 - DADF Roller / Rubber Pad Life Page
 - T1/T2/T3 P-up Roller Life Page
 - Retard Roller Life Page
 - Bypass Rubber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

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



- Edit
 “Edit” button is disabled until user select 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’.



Each data field 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 field. By selecting 'Cancel', window moves back to HSF I window without saving user's setting. By selecting 'OK' button, window moves back to HSF I window saving user's setting. Threshold value shall not be greater than Maximum Life.

Software Version

- Diagnostics>Information>Software Version
- When user selects Software version, OP displays the version of the Main Controller, Image Output Terminal, User Interface, Network Controller, Document Feeder, Tray 2 Firmware, Tray 3 Firmware



Usage Counter

- Diagnostics>Information>Usage Counter
- When user selects Usage Counter, OP displays the amount of the Items shown below.

Item	Amount
Total Impressions	0
Black Impressions	0
Black Copied Impressions	0
Black Printed Impressions	0
Sheets	0
Copied Sheets	0

- 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

4.1.8.6 Fault History Tab

Fault History provides an error information occurred.

Fault Log

- Diagnostics>Fault History>Fault Log
- Fault log window shall display errors occurred while the product was operating.



The screenshot shows the 'Diagnostics' menu with 'Fault History' selected. The 'Fault Log' tab is active, displaying a table of error logs. The table has columns for Code, Date, Time, and Description. A 'Clear' button is visible at the bottom right of the table area.

Code	Date	Time	Description
06-001	12/13/06	21:44:23	Toner Empty
08-004	07/11/04	01:06:25	DADF Duplex Feeding Jam
12-000	06/17/03	02:24:23	Tray 1 Mismatch
13-006	05/18/02	22:04:22	DHCP Server Error
21-018	10/23/01	12:43:02	Tray 2 Paper Empty

- Diagnostics>Fault History>Fault Log>Clear
- When selecting "Clear" button, Pop-up will be displayed. If you want to delete the Fault history, touch the "OK" button.



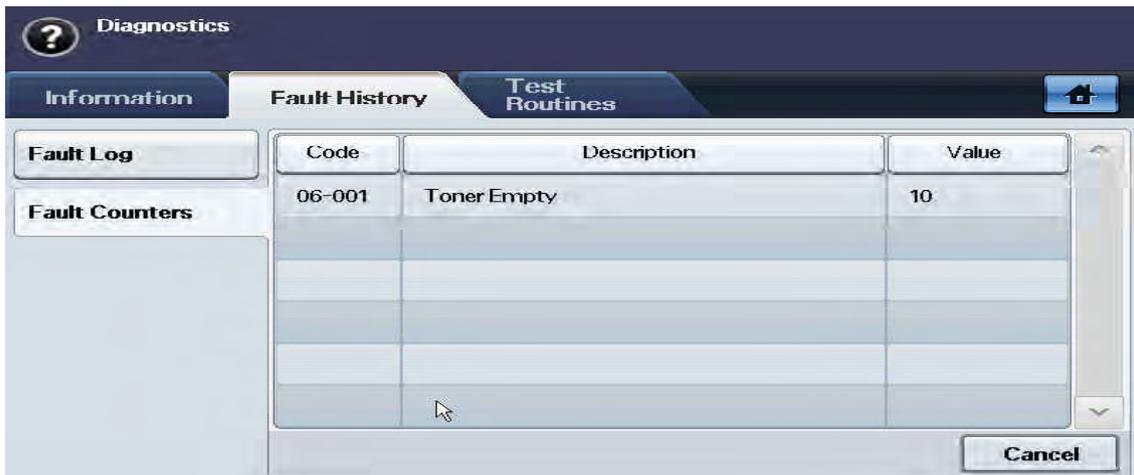
Fault Counters

- Diagnostics>Fault History>Fault Counters
- 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



User shall select one item in the list at a time and multiple selection shall not supported. User can select 'Non Zero' or 'All'. By default, 'Non Zero' shall be selected. When press 'OK', Fault Counters Detail Window shall be displayed.



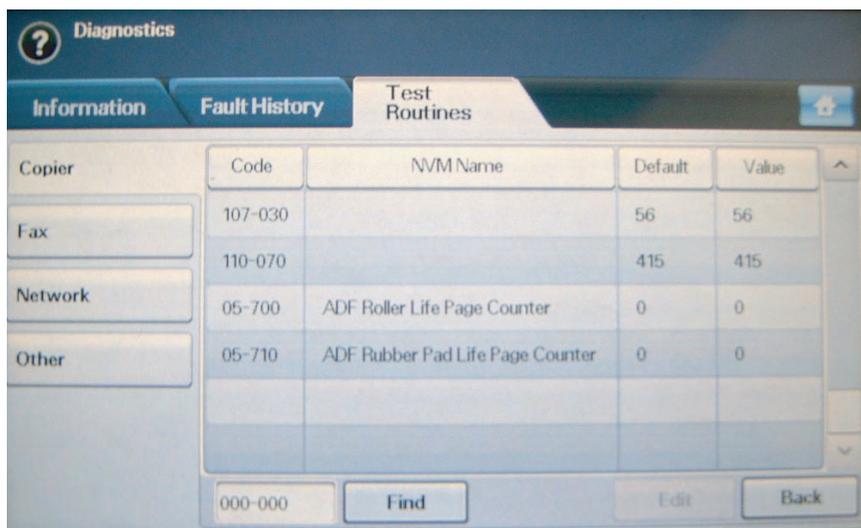
Fault Counters Detail window shall display Fault code, description and value (counter) among the selected Fault Group. Items of displayed Fault codes are different based on the selection of 'Non Zero' or 'All'. When selected 'Non Zero', Fault codes in the selected Fault Group having non zero counter shall be displayed. When selected 'All', all Fault codes in the selected Fault Group shall be displayed. Display order of Fault code is upward.

4.1.8.7 Test Routines Tab

4.1.8.7(a) Copier

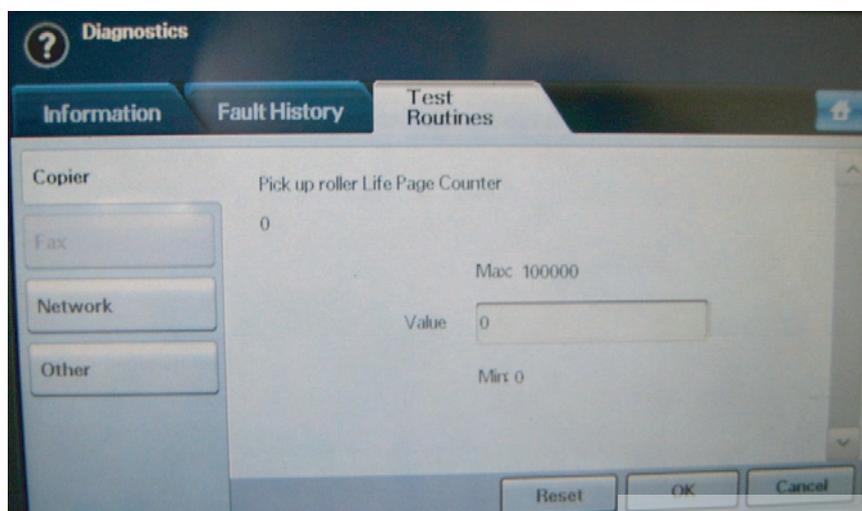
NVM Read/Write

- Diagnostics>Test Routines>Copier>NVM Read/Write



“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. (Refer to NVM Read/Write table) 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.

- Diagnostics>Test Routines>Copier>NVM Read/Write>Edit

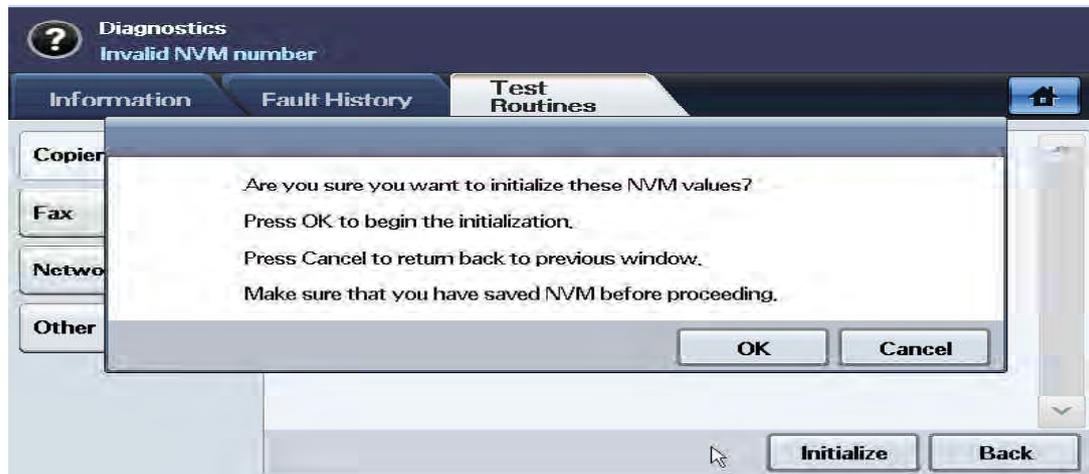


NVM Initialization

- Diagnostics>Test Routines>Copier>NVM Initialization
- By default, none of items is selected and Initialize button shall be disabled. There shall be Back button.



- Diagnostics>Test Routines>Copier>NVM Initialization>Initialize



- If you want to initialize the NVM values, press OK button.
 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 the result is finished, the pop up window will disappear.

Engine/DADF Test Routines

- Diagnostics>Test Routines>Copier>Engine/DADF Test Routines.



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.



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.

4.1.8.7(b) Fax

NVM Read/Write

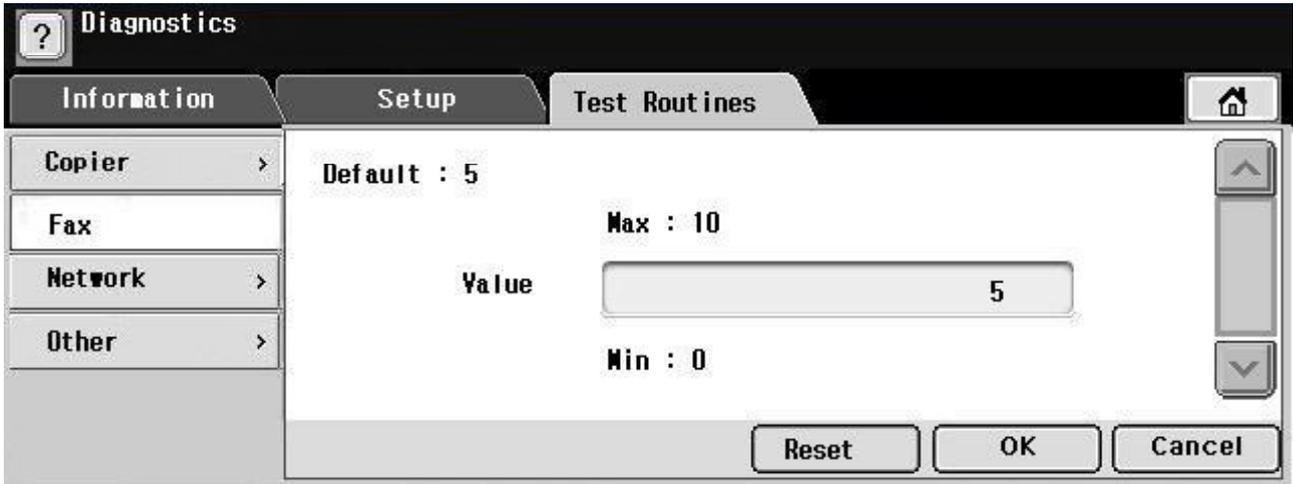
- Diagnostics>Test Routines>Fax>NVM Read/Write



For the behavior, refer to Copier-NVM Read/Write.



For the behavior, refer to Copier-NVM Read/Write-Edit.

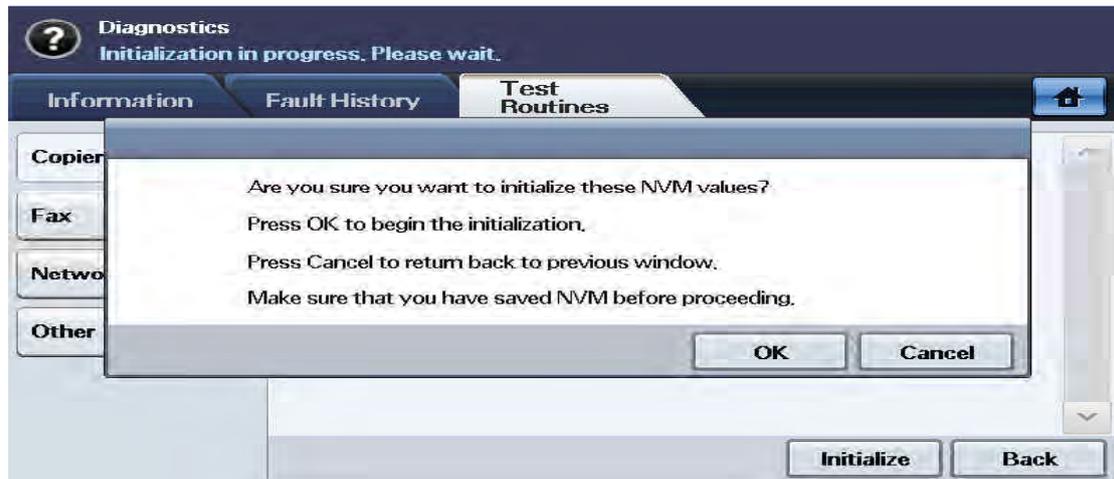


NVM Initialization

- Diagnostics>Test Routines>Fax>NVM Initialization
- By default, none of items is selected and Initialize button shall be disabled. There shall be Back button.



- Diagnostics>Test Routines>Fax>NVM Initialization>Initialize



If you want to initialize the NVM values, press OK button.
 When press OK button, SR shall show the initialization progress status and result.
 When the result is get, pop up window shall be disappeared.

Protocol Report

- Diagnostics>Test Routines>Fax>Protocol Report
- When selecting Protocol Report, the sub-item will be displayed. By pressing the print, you can print the protocol report.



Fax Routines

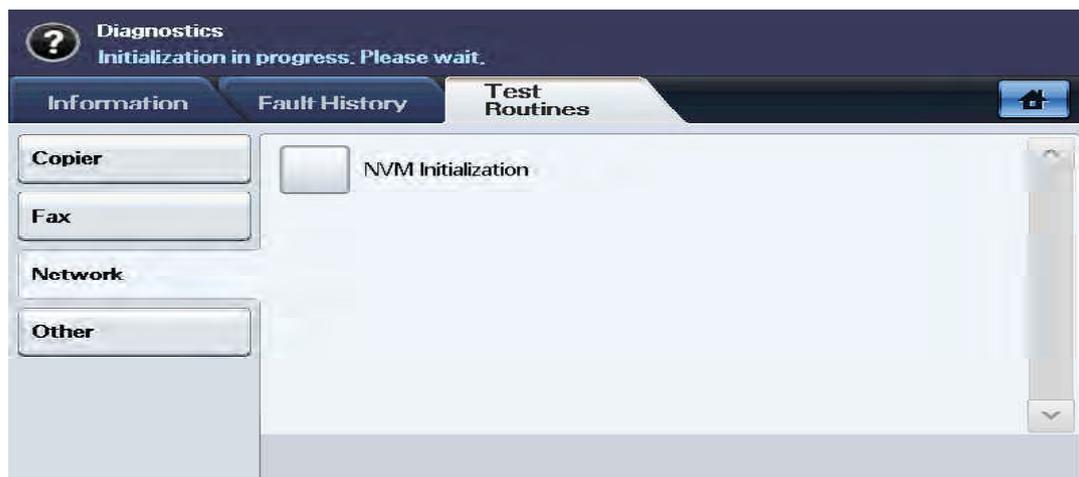
- Diagnostics>Test Routines>Fax> Fax Routines
- For the behavior, refer to Engine/DADF Test Routines



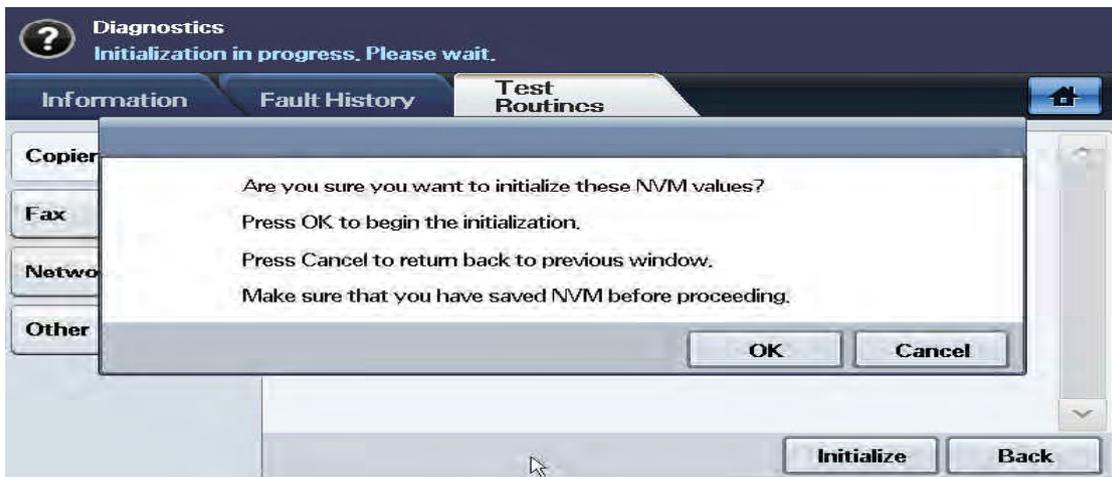
4.1.8.7(c) Network

NVM Initialization

- Diagnostics>Test Routines>Network>NVM Initialization



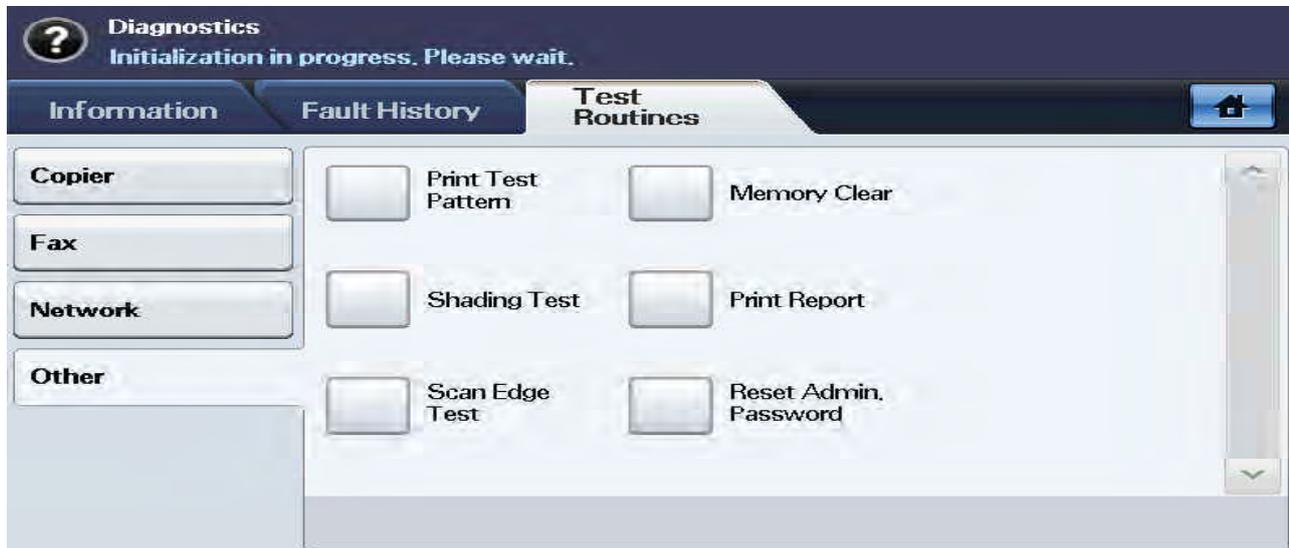
- Diagnostics>Test Routines>Network>NVM Initialization>Initialize



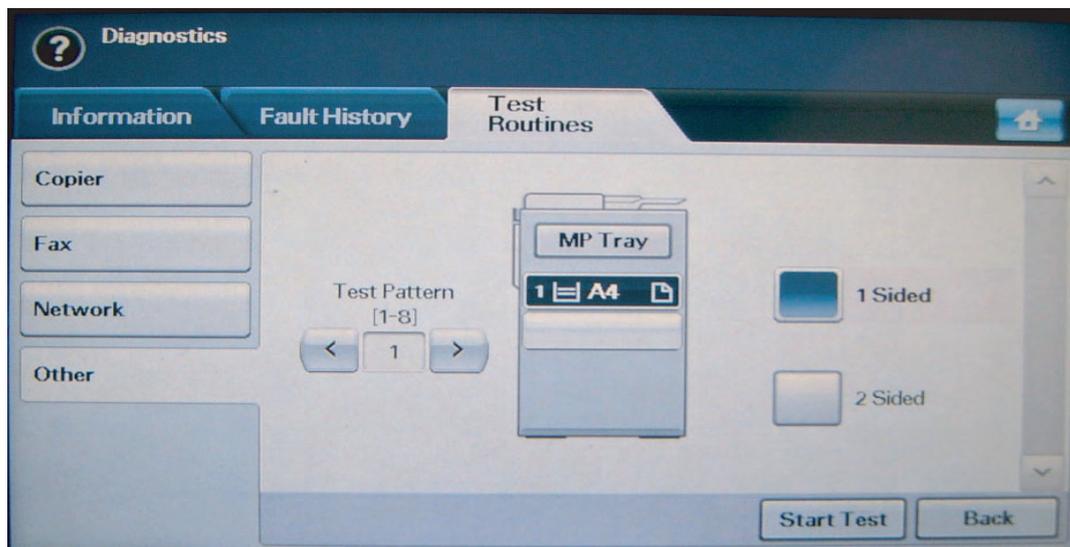
If you want to initialize the NVM values, press OK button.
When press OK button, SR shall show the initialization progress status and result.
When the result is get, pop up window shall be disappeared.

4.1.8.7(d) Other

- Diagnostics>Test Routines>Other



- Diagnostics>Test Routines>Other>Print Test Pattern



You can print the test pattern by pressing the start test button.

By default, Test Pattern number shall be 1.

You can select paper source by selecting tray of the image.

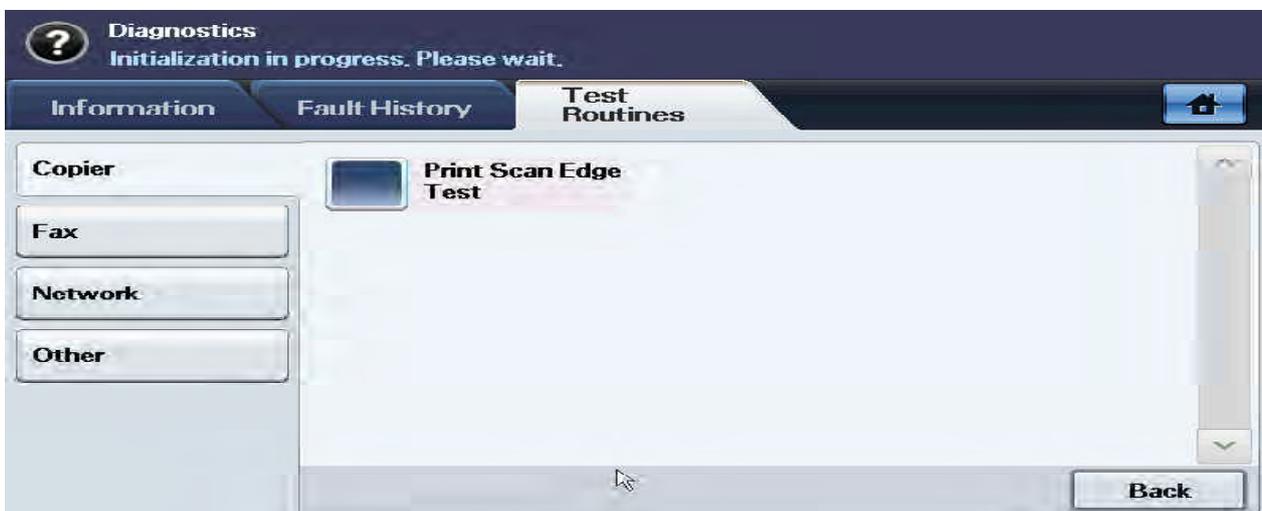
You can select simplex/duplex printing option by selecting 1 sided /2 sided button.

- Diagnostics>Test Routines>Other>Shading Test



The function is used to set the optimum scan quality determined by the specific characteristics of the CCD (Charge Coupled Device). If copy image quality is poor perform this function to check the condition of the CCD unit.

- Diagnostics>Test Routines>Other>Scan Edge Test



- Diagnostics>Test Routines>Other>Memory Clear



The function resets the system to factory default settings. This function is used to reset the system to the initial value. All the values are returned to the default values, and all the information which was set by the user will be erased. When select memory clear, user can select the country.

- Diagnostics>Test Routines>Other>Print Report



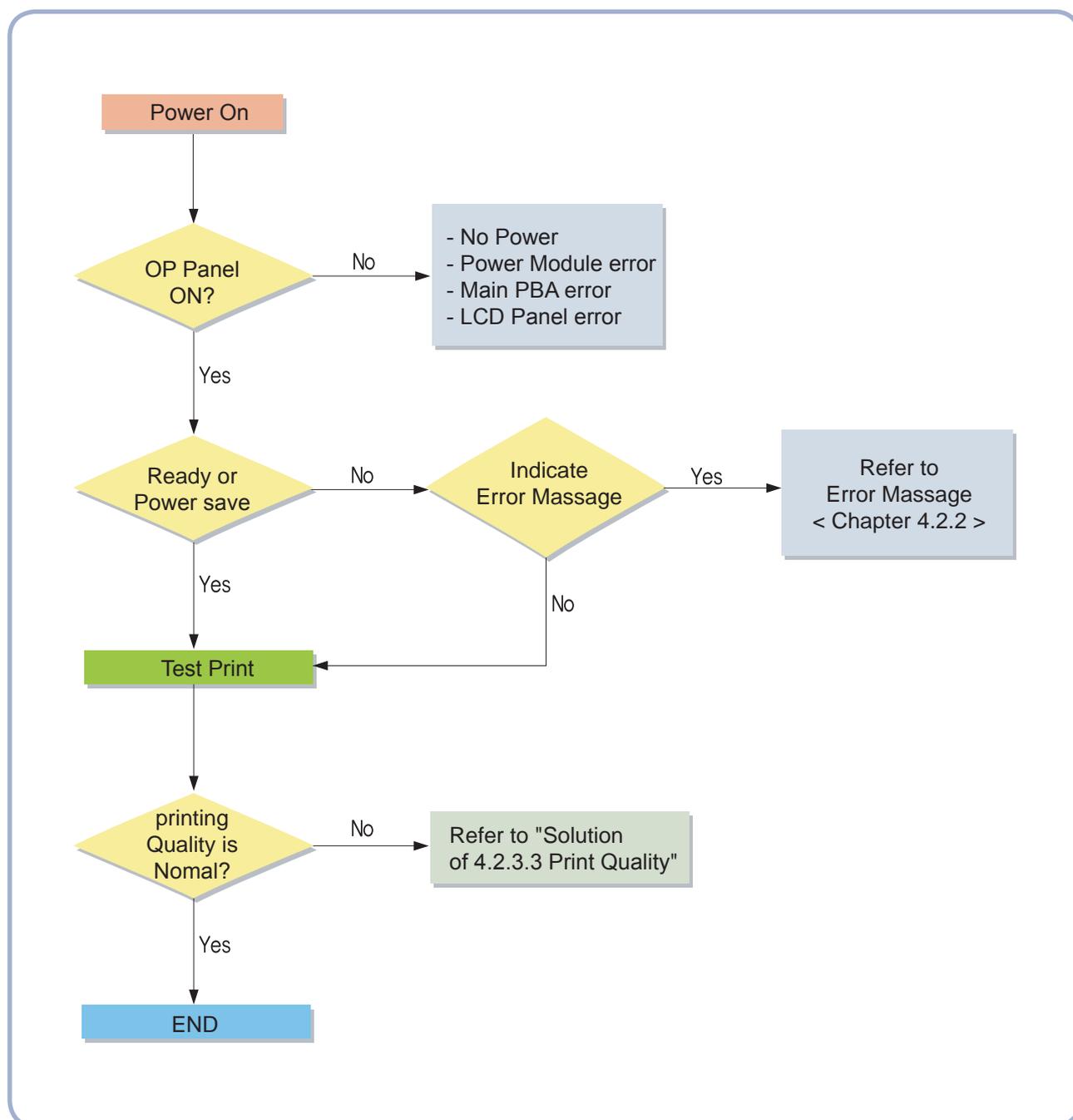
- Diagnostics>Test Routines>Other>Reset Admin. password



4.2 Troubleshooting

4.2.1 Procedure of Checking the Symptoms

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



4.2.2 USING THE SMART PANEL PROGRAM

Smart Panel is a program that monitors and informs you of the machine status, and allows you to customize the machine's settings. Smart Panel is installed automatically when you install the machine software.

To use this program, you need the following:

- Windows. Check for windows operating system(s) compatible with your machine.
- Mac OS X 10.3 or higher
- Linux. Check for Linux systems that are compatible with your machine.
- Internet Explorer version 5.0 or higher for flash animation in HTML Help.

Understanding Smart Panel

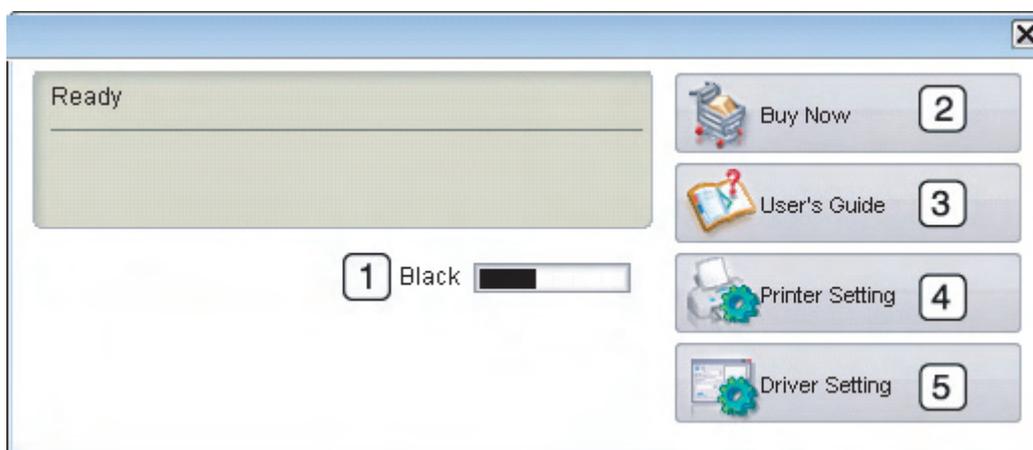
If an error occurs while printing, Smart Panel appears automatically, showing the error. You can also launch Smart Panel manually. Double-click the Smart Panel icon on the Windows task bar (in Windows), or Notification Area (in Linux). You can also click it on the status bar (in Mac OS X).

Windows		Double-click this icon in Windows.
Macintosh		Click this icon in Mac OS X.
Linux		Click this icon in Linux.

If you are a Windows user, from the Start menu, select **Programs or All Programs > your printer driver name > Smart Panel**.

- If you have already installed more than one Samsung machine, first select the correct machine model you want in order to access the corresponding Smart Panel.
- Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select your machine.
- The Smart Panel window and its contents shown in this user's guide may differ depending on the machine or operating system in use.

The Smart Panel program displays the current status of the machine, the level of toner remaining in the toner cartridge(s), and various other types of information. You can also change settings.



1	Toner Level	View the level of toner remaining in the toner cartridge(s). The machine and the number of toner cartridge(s) shown in the above window may differ depending on the machine in use. Some machines do not have this feature.
2	Buy Now	Order replacement toner cartridge(s) online.
3	User's Guide	This button changes to Troubleshooting Guide when error occurs. You can directly open troubleshooting section in the user's guide.
4	Printer setting	Configure various machine settings in the Printer Settings Utility window. Some machines do not have this feature. If you connect your machine to a network, the SyncThru™ Web Service window appears instead of the Printer Settings Utility window.
5	Driver Setting	Set all of the machine options you need in the Printer Preferences window. This feature is available only for Windows

Opening the Troubleshooting Guide

Find solutions for error status problems by using the troubleshooting guide. Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select Troubleshooting Guide.

Using Printer Settings Utility

Using the Printer Settings Utility, you can configure and check print settings.

1. Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select Printer Setting.
2. Change the settings.
3. To send the changes to the machine, click the Apply.

If your machine is connected to a network, the SyncThru™ Web Service window appears instead of the Printer Settings Utility window.

Using On screen Help File

For more information about Printer Settings Utility, click

4.2.3 Error Message

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

[zzz] indicates the error code. When you contact the service center, this error code help to handle the problem.

Message	Description	Suggested solutions
Fax memory is almost full. Print or remove received fax Job./ Fax memory is full. Print or remove received fax Job.	There is no more available fax memory. No more fax data can be received.	Delete the received fax data in the memory to secure memory.
Fuser error: [zzz]. Please turn off then on	<ol style="list-style-type: none"> 1. At warm up, the temperature keep up the lower temperature for regular time. 2. In case that the temperature has not reached warm up temperature after warm-up time. 3. At ready, Less than target temperature and for more than 10 sec. 4. At printing, Less than printing Ref. temp and for more than 10 sec. 	<ol style="list-style-type: none"> 1. Check the Thermostat. If it is defective, replace it. 2. Check the Lamp. If it is defective , replace it. 3. Check the fuser connector. Reconnect it. 4. In case of printer input voltage lower than standard voltage. 5. Check the Thermistor. 6. If the Heat On signal is not occurred from Power supply, replace it.
Fuser unit is not installed correctly. Install it.	The fuser unit is not installed or correctly	Disassemble and reassemble the fuser unit.
LSU error: [zzz]. Please turn off then on	<ol style="list-style-type: none"> 1. LSU motor does not operate. 2. After LD on, the Laser beam detect signal is not occurred or irregular. 3. LSU motor does not operate or the drive signal is abnormal. 	<p>* Case 1,3 : After checking the LSU motor rotation noise, check the motor signal.</p> <p>* Case 2 :</p> <ol style="list-style-type: none"> 1. Check the Beam Detect signal. If there is a BD signal, replace the Main board. If or not, check the LD control signal. 2. Check the LD Power is normal. 3. If it is normal, check the light receiving part.
Original paper jam in front of scanner duplex path	Paper has jammed during duplex printing in the DADF.	Remove the jammed paper in DADF
Original paper jam in front of scanner	The originals are jammed in DADF	Remove the jammed paper in DADF

Message	Description	Suggested solutions
Original paper jam inside of scanner duplex path	<ol style="list-style-type: none"> 1. The lead edge of the document failed to actuate the reverse stack sensor within the correct time after actuating the gate sensor. 2. The edge of the document failed to actuate the reverse stack sensor. 	Open the DADF cover and remove the jammed paper
Original paper jam inside of scanner	<p>The lead edge of the document failed to actuate the gate sensor within the correct time after actuating the scan sensor.</p> <p>When the machine is on, jammed paper is detected in the DADF.</p>	Remove the jammed paper in DADF
Original paper jam while reversing paper in scanner	The lead edge of the document failed to actuate the duplex sensor within the correct time when the document was fed the wrong way.	Remove the jammed paper in DADF
Paper Jam at the bottom of duplex path	Paper has jammed during duplex printing.	<ol style="list-style-type: none"> 1. Open the side door and remove the jammed paper. 2. If there is not jammed paper but the error message is occurred, check the duplex sensor. (Component Test)
Paper Jam at the top of duplex path	Paper has jammed during duplex printing.	<ol style="list-style-type: none"> 1. Open the side door and remove the jammed paper. 2. If there is not jammed paper but the error message is occurred, check the duplex sensor. (Component Test)
Paper Jam in exit area	Paper has jammed in the fuser area.	<ol style="list-style-type: none"> 1. Open the Side door and remove the jammed paper. 2. If there is not jammed paper but the error message is occurred, check the Exit sensor. (Component Test ->Sensor Read -> Ex value)
Paper Jam in MP tray	Paper misfed from multi-purpose tray.	<ol style="list-style-type: none"> 1. If pick up roller does not rotate , check the pick up clutch. 2. If Pickup roller is rotating but the paper is not feeding, replace the pick up rubber. 3. Check the feed sensor. If it is defective, replace it.

Message	Description	Suggested solutions
Paper Jam in tray1	Paper has jammed in the feeding area of the tray.	<ol style="list-style-type: none"> 1. If pick up roller does not rotate , check the pick up clutch. 2. If Pickup roller is rotating but the paper is not feeding, replace the pick up rubber. 3. Check the feed sensor. If it is defective, replace it.
Paper Jam in tray2	Paper has jammed in the feeding area of the tray.	<ol style="list-style-type: none"> 1. Open the side door and Tray2 door and remove the jammed paper. 2. If there is not jammed paper but the error message is occurred, check the Feed sensor or Hardware. 3. If the paper is feeding by rotating the pick up roller, check the clutch and clutch signal.
Paper Jam inside of duplex path	Paper has jammed during duplex printing.	<ol style="list-style-type: none"> 1. Open the side door and remove the jammed paper. 2. If there is not jammed paper but the error message is occurred, check the duplex sensor. (Component Test)
Paper Jam inside of machine	Paper has jammed in the registration area	<ol style="list-style-type: none"> 1. Open the Side door and remove the jammed paper. 2. If there is not jammed paper but the error is occurred, Check the Registration Sensor (Component Test -> Sensor Read -> RG value) 3. If the paper stopped after actuating the Exit sensor, Check the Exit sensor (Component Test -> Sensor Read -> EX value)
Scanner locking switch is locked or another problem occurred.	The CCD lock has been locked.	<ol style="list-style-type: none"> 1. Unlock the CCD Lock 2. Check the CCDM. Is it moving when scanning. Check the FFC cable. If there is defective, change it. 3. If the problem persists after removing the FFC cable, replace the DADF board. 4. Check the Scan-motor. If there is defective, change it.
Sensor Failure [zzz]. Call for service	There is a problem in the sensor signal	Find the defective sensor. And replace the new one.

Message	Description	Suggested solutions
Shake toner cartridge.	The toner supply is low.	Thoroughly roll the new cartridge five or six times to distribute the toner evenly inside the cartridge.
System error: #02-000. Please turn off then on	<ol style="list-style-type: none"> 1. At warm up, the temperature is less than reference temperature for 20 sec. 2. Abnormal ADC has occurred. 3. ZeroCross Signal detect error has occurred. 	<ol style="list-style-type: none"> 1. In case of meaning 1, replace the Fuser unit. 2. In case of meaning 3, replace the Engine control board or Fuser control board or SMPS.
System error: #02-003. Please turn off then on	The communication error of the MEGA88 Micom	<ol style="list-style-type: none"> 1. Open the side cover and close it. 2. Check the envelope pressing device.
System error: #10-004. Please turn off then on	UI error	<ol style="list-style-type: none"> 1. check the UI connector. 2. If the problem persists, replace the OPE board. 3. If ther problem persists, replace the maina board.
This IP address conflicts with an IP address already in use. Check it	The IP address is used in other place elsewhere.	Check the IP address or obtain a new IP address.
Toner cartridge is not compatible. Check user's guide	The toner cartridge you have installed is not for your machine.	Replace the toner cartridge.
Toner cartridge is not installed. Install it.	The toner cartridge is not installed or the CRUM in the cartridge is not properly connected.	Check the connection between the CRUM connector of the toner cartridge and Set.
Toner cartridge is worn. Replace with new one	The color toner cartridge has run out. The machine stops printing.	Replace the toner cartridge.
Toner is empty. Replace toner cartridge	The lifespan of the color toner cartridge which the arrow indicates is reached.	Replace the toner cartridge.
Toner is low. Order new toner cartridge	Toner Cartridge is almost empty.	Replace the toner cartridge.
Too much paper in output bin tray. Remove printed paper	The printed papers are full on the output tray.	<ol style="list-style-type: none"> 1. Remove the paper on outbin tray. 2. Check the Outbin Full Senosr (Component Test -> Sensor Read -> OB value)

4.2.4 Solution

4.2.4.1 Scanner

4.2.4.1(a) COPY

PROBLEM	ITEMS TO BE CHECKED	HOW TO SOLVE
White copy	• Check the Scan-Cover open.	• Room light can transit a thin original.
	• Check shading profile.	• Remake shading profile in the tech mode.
Black copy	• Check the CCD problem in Main PBA.	• Check the CCD harness contact.
	• Check shading profile.	• Remake shading profile in the tech mode.
Defective image quality	• Check shading profile.	• Remake shading profile in the tech mode.
	• Check the gap between original and scanner.	• The gap above 0.5mm can cause a blurred image.
Abnormal noise	• Check printing quality.	• See "Print" troubleshooting.
	• Check the Scanner Motor and any mechanical disturbance.	• Check the right position of the Scanner Motor, and check the any mechanical disturbance in the CCD carrying part.
	• Check the Motor Driver in Driver PBA.	• If any driver is defective, replace it.

4.2.4.1(b) PC-Scan

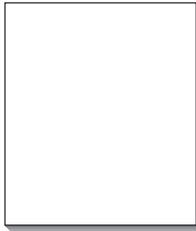
PROBLEM	ITEMS TO BE CHECKED	HOW TO SOLVE
Scanning Error	• Check the printer cable installed.	• Check correct installation, and use standard USB cable.
	• Check how TWAIN driver is installed.	• Remove any other scanner driver. • Reboot after reinstallation of the TWAIN driver.
	• Check the USB signal level.	• If USB signal level is defective, replace Main PBA.
Defective image Quality	• Check shading profile. • Check the gap between original and scanner glass.	• Remake shading profile in the tech mode. • The gap above 0.5mm can cause a blurred image.
	• Check printing quality.	• See "Print" troubleshooting.
Abnormal noise	• Check the Scanner Motor and any mechanical disturbance.	• Check the right position of the Scanner Motor, and check the any mechanical disturbance in the CCD carrying part.
	• Check the Motor Driver in Driver PBA.	• If any driver is defective, replace it.

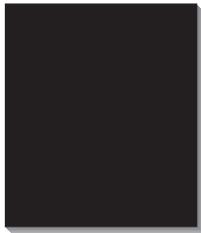
4.2.4.2 FAX

4.2.4.2(a) FAX/TELEPHONE Precautions

PROBLEM	ITEMS TO BE CHECKED	HOW TO SOLVE
TEL LINE CANNOT BE ENGAGED (NO DIAL TONE)	<ul style="list-style-type: none"> When you press "OHD" key: a) Check line cord connection. b) Check MAIN LIU harness, and CN2 of the LIU PBA. 	<ul style="list-style-type: none"> a) insert it correctly into the connection jack called "line". b) Replace defective parts.
Cannot MF dial	<ul style="list-style-type: none"> Check MAIN-LIU harness. 	<ul style="list-style-type: none"> Replace defective parts.
MF dial is possible but not DP dial.	<ul style="list-style-type: none"> Check the LIU PBA. 	<ul style="list-style-type: none"> Replace LIU PBA.
Defective fax transmission	<ul style="list-style-type: none"> Check MAIN LIU harness. Check 'hook off' : Refer to 'TEL LINE CANNOT BE ENGAGED' above. Check transmission path and reception path of the LIU PBA. 	<ul style="list-style-type: none"> Replace defective parts. Refer to 'TEL LINE CANNOT BE ENGAGED' above. Replace main PBA, if abnormal. Replace LIU PBA. Replace main PBA.
Defective automatic fax reception	<ul style="list-style-type: none"> Is the ring checked? Refer to 'Defective Transmission.' 	<ul style="list-style-type: none"> Replace LIU PBA if it cannot be checked. Refer to 'Defective Transmission'.

4.2.4.3 Print Quality

Error Status	Check	Solution
Vertical black line and band 	<ol style="list-style-type: none"> 1. Bad blade of Toner cartridge 2. LSU 3. Bad cleaning blade of drum cartridge. 	<ol style="list-style-type: none"> 1. Change Toner cartridge 2. Replace LSU 3. Replace drum cartridge.
Vertical white line 	<ol style="list-style-type: none"> 1. LSU window contamination 2. Toner cartridge 	<ol style="list-style-type: none"> 1. Clean LSU window 2. If not LSU, change Toner cartridge.
No image 	<ol style="list-style-type: none"> 1. GND OPC is well grounded? 2. LSU running well? 3. Bias voltage is normal? 4. Lower toner? 5. Is there video data from Main PBA 	<ol style="list-style-type: none"> 1. Measure the resistance between frame ground and the ground spring attached frame. Confirm stable ground. Unless bad ground, detach cabinet, check where is bad point 2. Adjust LSU or replace it 3. Normal Dev bias = -450V 4. Shake toner cartridge and print. If a like good, toner is empty 5. Test engine test pattern , replace Main PBA
Light image 	<ol style="list-style-type: none"> 1. LSU light power normal? 2. Enough toner? 3. High charger voltage? 4. Lower bias voltage 5. Contamination of high voltage contact. 6. Transfer volatge and roller. 	<ol style="list-style-type: none"> 1. LSU light power check is difficult. Compare with new one and check. 2. Check toner and the toner cartridge counter 3~4. Measure all high voltage output. 5. Leakage toner cause bad contact and increase contact resistance. Clean contaminated area.

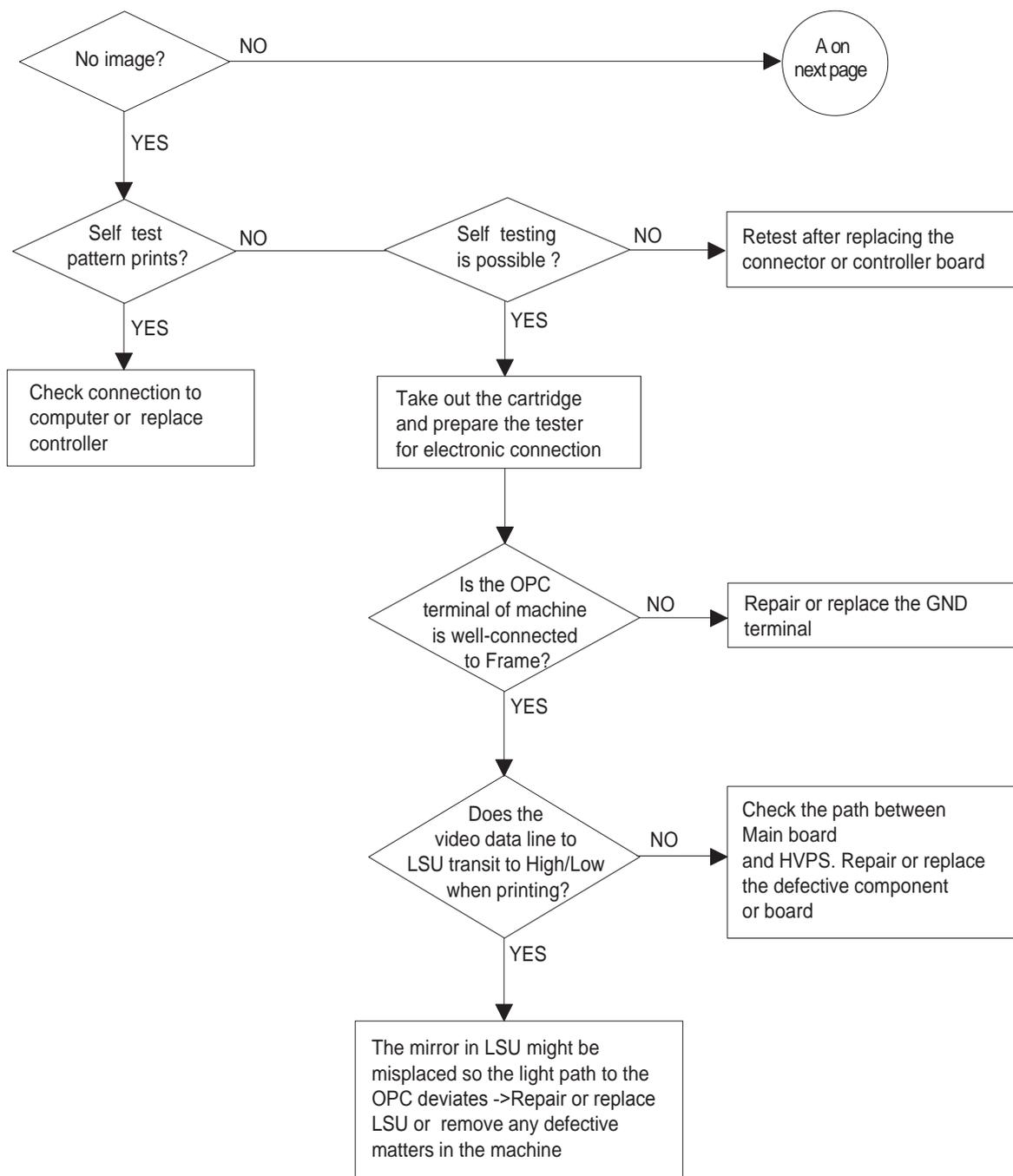
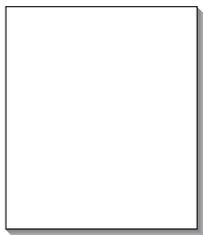
Error Status	Check	Solution
Dark image 	<ol style="list-style-type: none"> 1. LSU light power normal? 2. Bias voltage output is high? 3. Video data is always supplied? 4. Bad high charge voltage contact. 	<ol style="list-style-type: none"> 1. Check the rated level and replace. 2. Set to power rating. 3. Replace defected board. 4. Check the charge voltage or change the drum cartridge.
Background 	<ol style="list-style-type: none"> 1. High voltage output is normal? 2. C/R of drum cartridge is contaminated? 	<ol style="list-style-type: none"> 1. Adjust to the rated status. 2. Replace drum cartridge.
Ghost 	<ol style="list-style-type: none"> 1. High voltage output. 2. Pre-Transfer Lamp. 3. Bad high voltage contact. 	<ol style="list-style-type: none"> 1. Check every high voltage. 2. Check the turn-on PTL, LED crash. 3. Clean the inside machine or replace drum cartridge.
Stains on back of paper	<ol style="list-style-type: none"> 1. Contamination of transfer roller. 2. Stains of paper path. 3. Pressure roller's contamination. 	<ol style="list-style-type: none"> 1. Clean the transfer roller with vacuum cleaner. 2. Clean the area of paper path with cloth or air cleaner. 3. Remove fuser and replace it.
Poor Fusing	<ol style="list-style-type: none"> 1. Use recommended paper? 2. Check fusing temperature. 3. The machine was under the low temperature for a long time? 	<ol style="list-style-type: none"> 1. Should use recommended paper. 2. Check engine controller board. If you have not thermometer, measure the thermistor voltage to CPU, If $2.3V \pm 5\%$ in printing CPU works well. Then, disassemble fuser and check the thermistor contact and thermistor. 3. Re-check after putting the machine in the warm place for certain period.
Partial blank image (not periodic)	<ol style="list-style-type: none"> 1. Toner is low? 2. The toner cartridge is out of position? 	<ol style="list-style-type: none"> 1. Replace Toner cartridge. 2. Check and adjust.

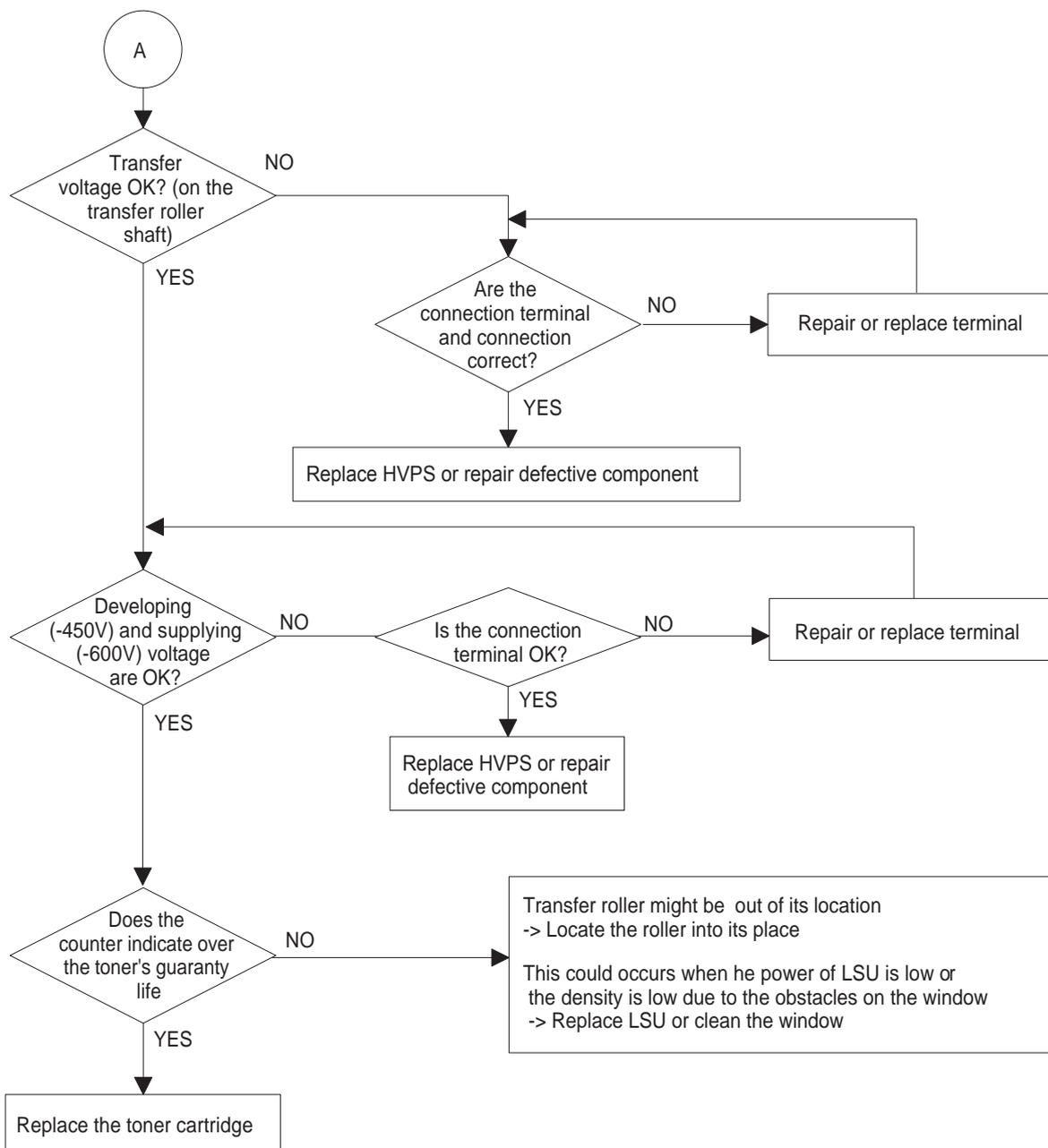
Error Status	Check	Solution
Partial blank image (periodic)	<ol style="list-style-type: none"> 1. Develop roller scar or particle. 2. Scar or particle. (94.3 mm) 3. Transfer roller scar or particle. (56.6 mm) 	<ol style="list-style-type: none"> 1. Replace toner cartridge. 2. Replace drum cartridge. 3. Replace transfer roller.
Different image density (left and right) <div style="border: 1px solid black; padding: 5px; width: fit-content;"> Digital Printer Digital Printer Digital Printer Digital Printer Digital Printer </div>	<ol style="list-style-type: none"> 1. Charge roller's pressure force unbalance 2. Dev. roller and OPC or Dev. roller and blade's pressure force unbalance 3. Transfer roller's pressure force unbalance of each side 	<ol style="list-style-type: none"> 1. Replace drum cartridge. 2. Replace toner cartridge and drum cartridge. 3. Check left and right spring of transfer roller and the spring pressing the toner cartridge inside the machine
Horizonral band <div style="border: 1px solid black; padding: 5px; width: fit-content;"> Digital Printer Digital Printer Digital Printer Digital Printer Digital Printer </div>	<ol style="list-style-type: none"> 1. Unstable high voltage contact 2. Charge roller's contamination 3. Contamination of heat roller 4. Malfunction of LSU 	<ol style="list-style-type: none"> 1. Clean each contact and check good contact 2. Clean charge roller 3. Replace fuser unit 4. Check Main PBA.

Abnormal Image Printing and Defective Roller

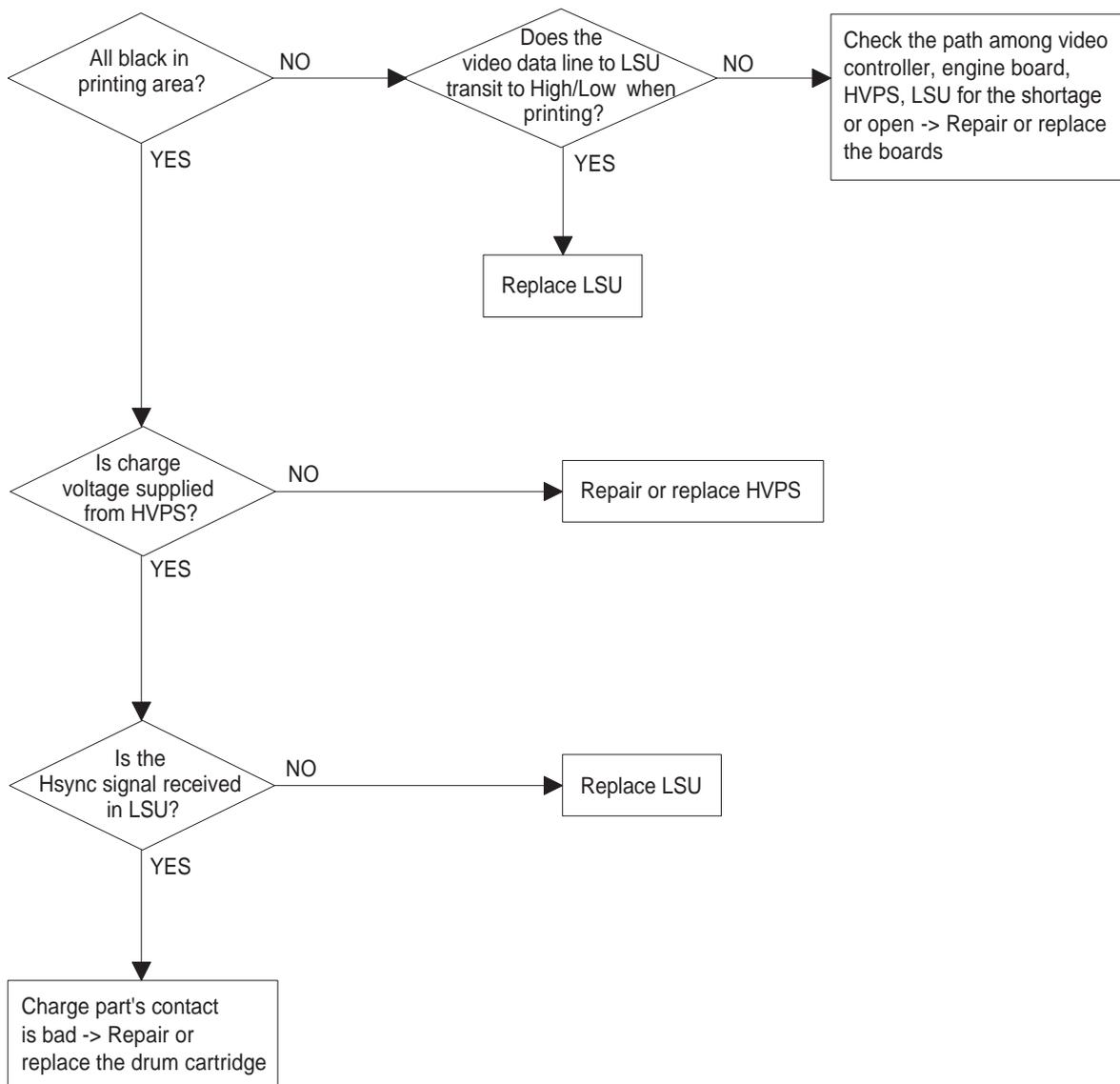
No	Roller	Abnormal image period	Kind of abnormal image
1	OPC Drum	75.5mm	White spot, Block spot
2	Charge Roller	37.7mm	Black spot
3	Supply Roller	44.9mm	Horizontal density band
4	Develop Roller	35.2mm	Horizontal density band
5	Transfer Roller	47.1mm	Black side contamination/transfer fault
6	Heat Roller	77.8mm	Black spot and fuser ghost
7	Pressure Roller1	62.8mm	Black side contamination
8	Pressure Roller2	50.2mm	Black side contamination

No Image



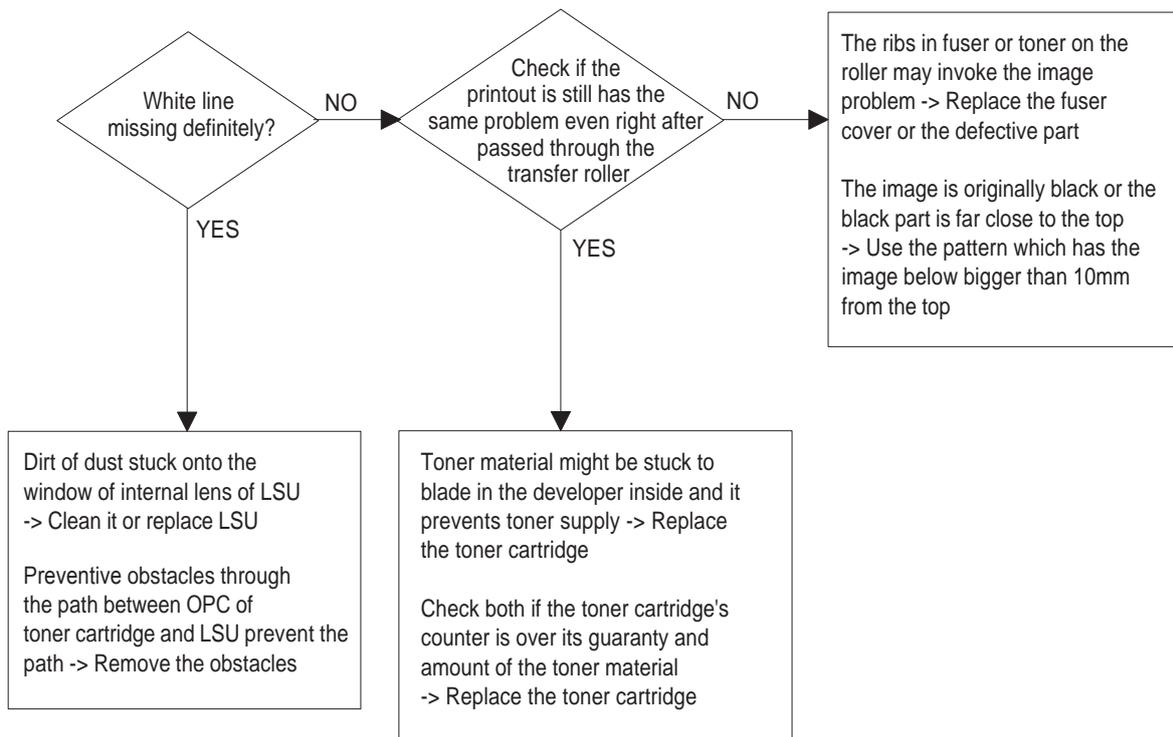


All Black

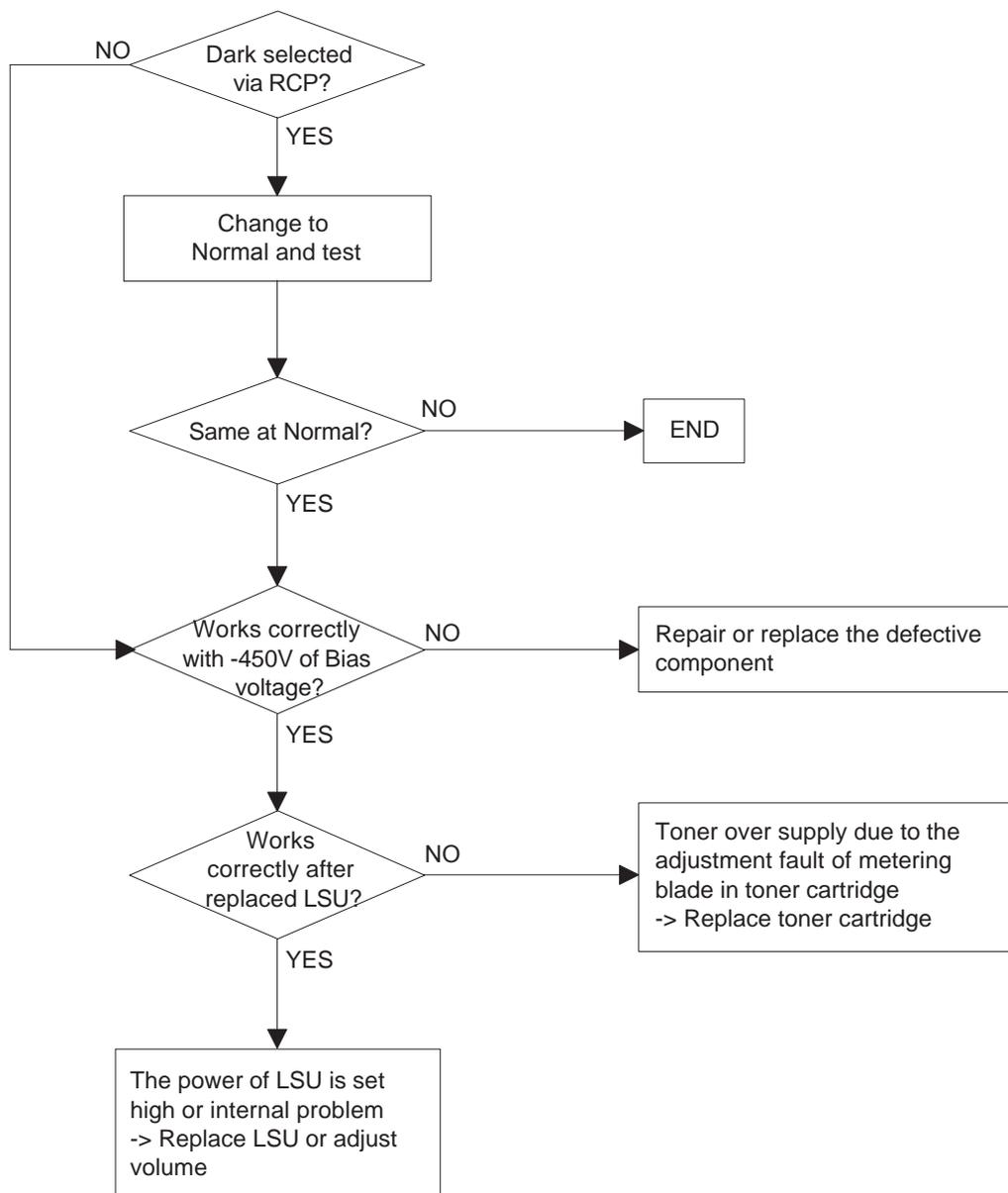
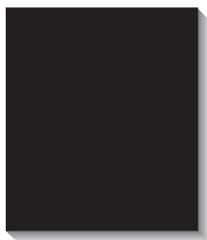


Vertical White Line (Band)

Digital Printer
 Digital Printer
 Digital Printer
 Digital Printer
 Digital Printer

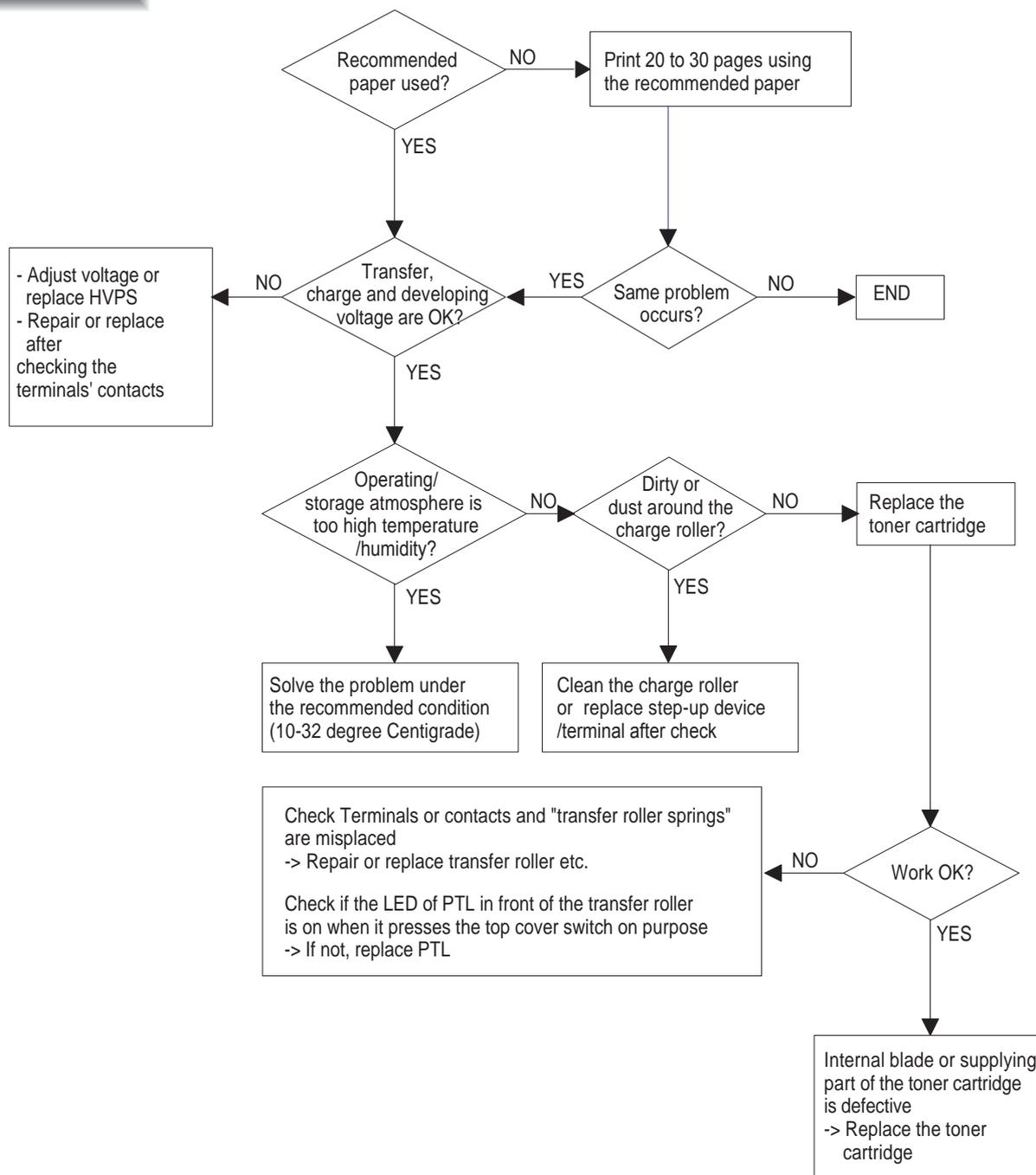


Dark Image



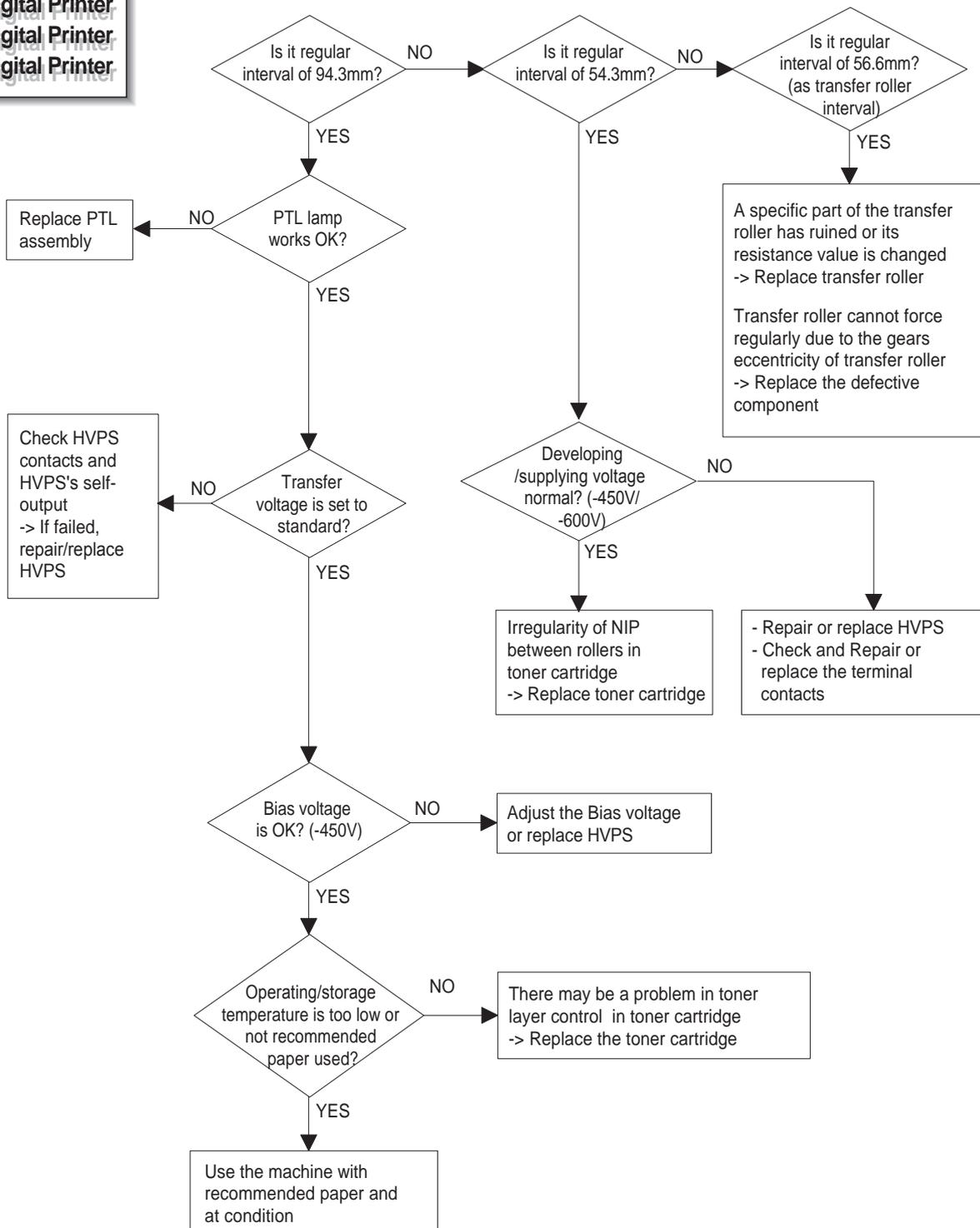
Background

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 Digital Printer
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 Digital Printer
 Digital Printer

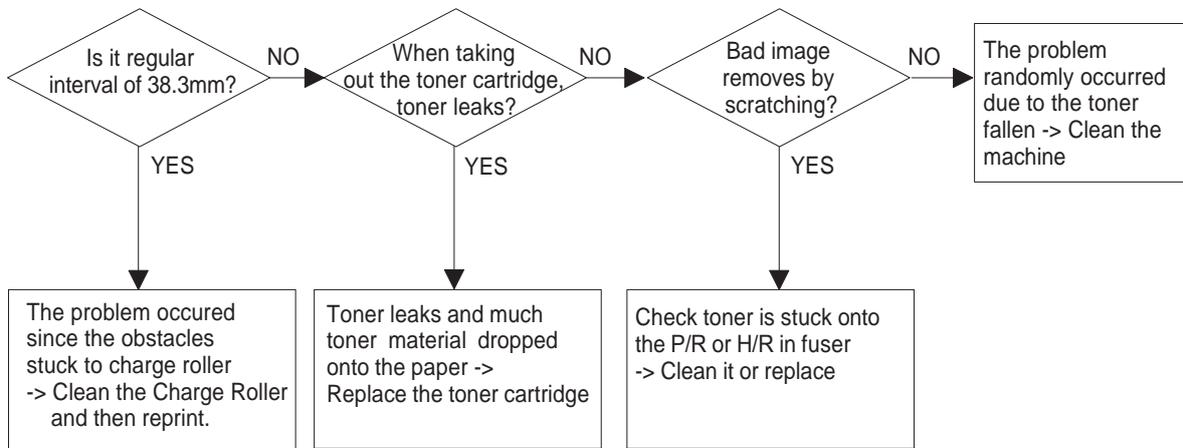


Ghost

Digital Printer
Digital Printer
Digital Printer
Digital Printer
Digital Printer



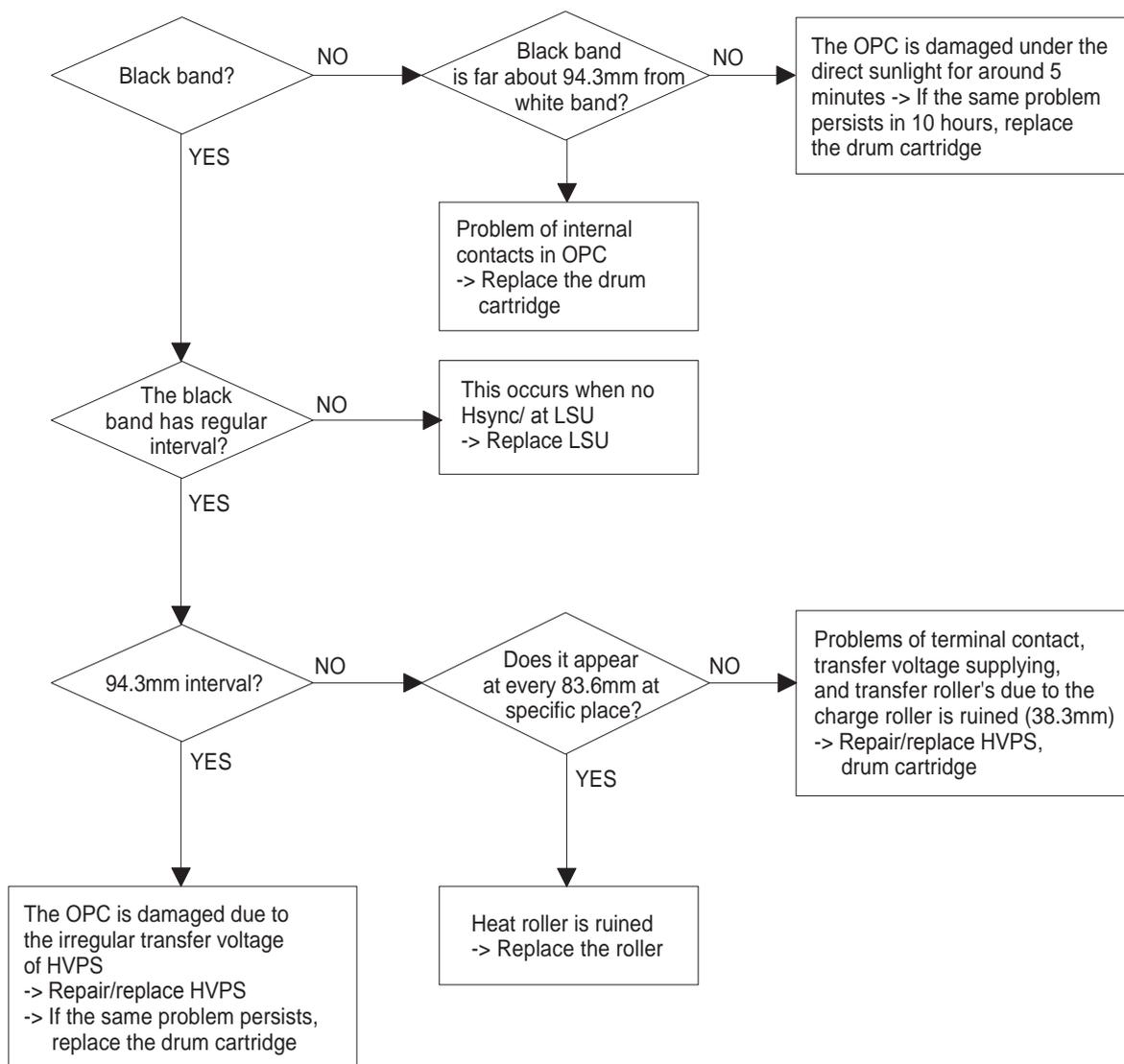
Black Spot



Horizontal Band

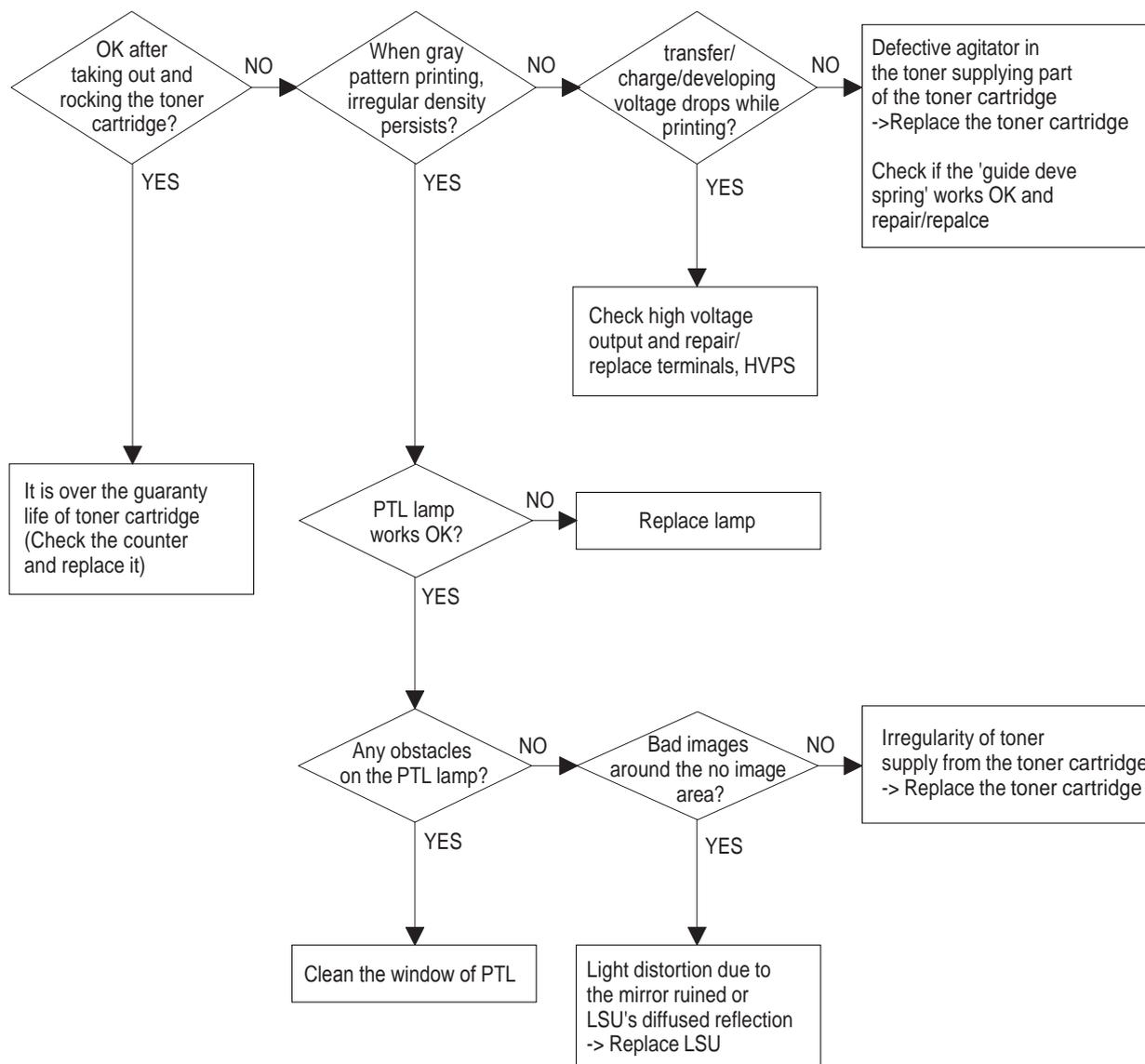
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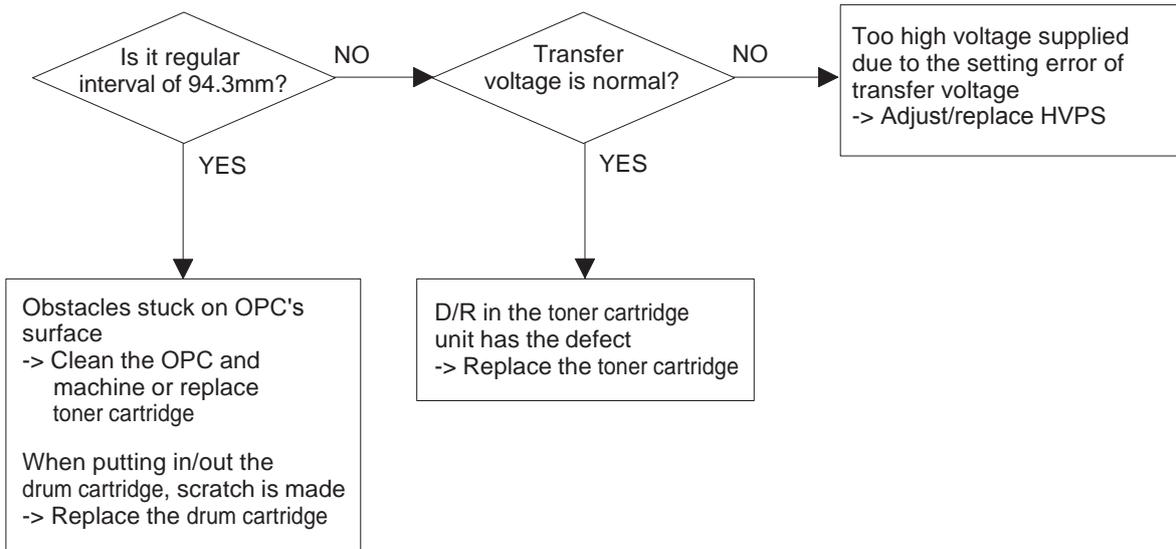
Irregular Density

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 Digital Printer

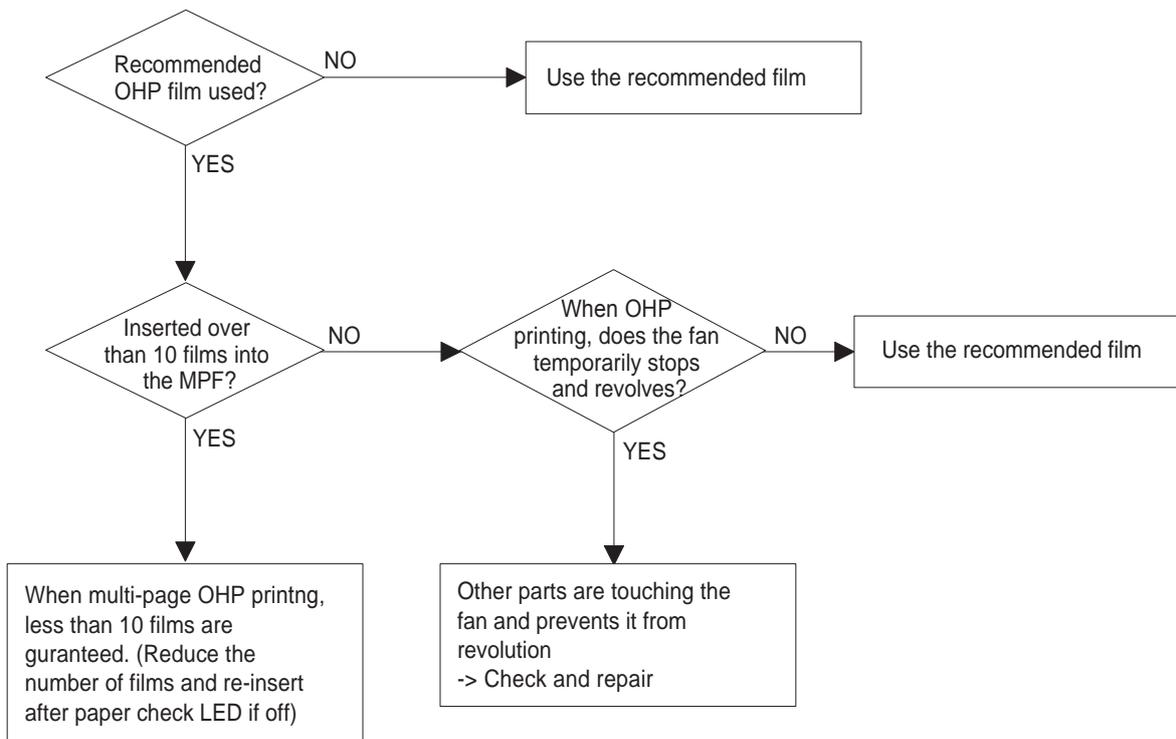


White Spot

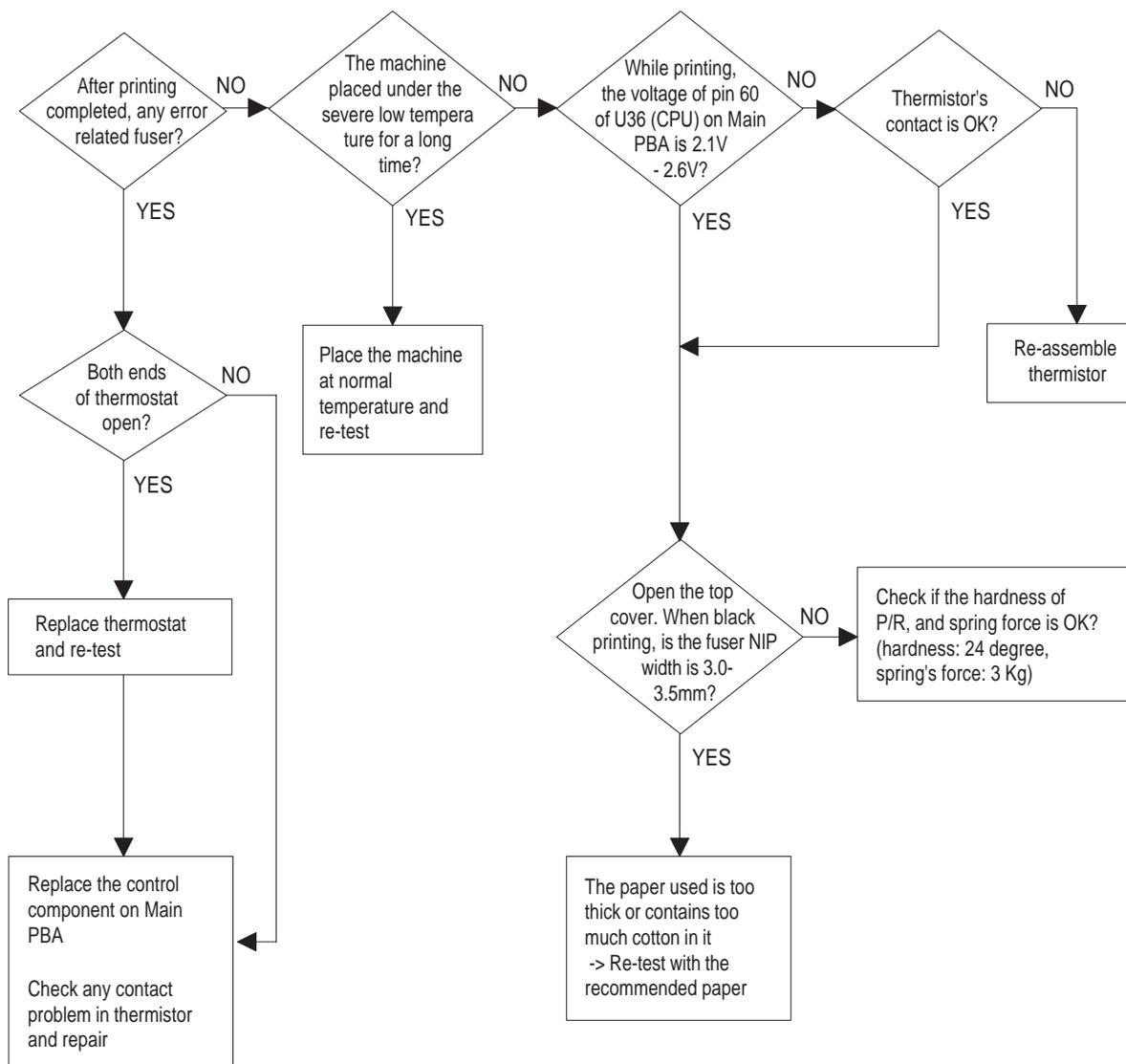
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Digital Printer



Trembling at the End When OHP Printing



Poor Fusing Grade

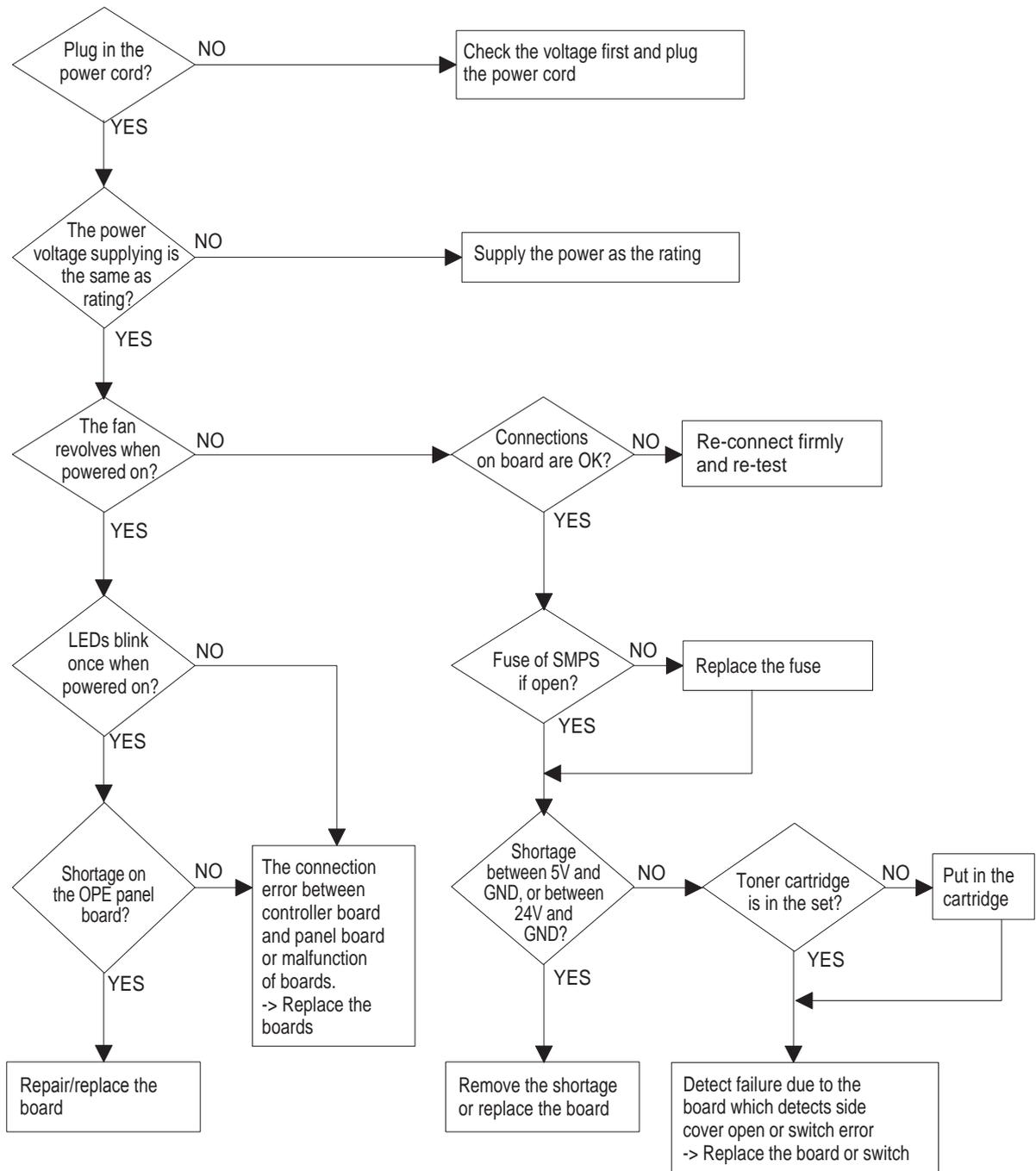


4.2.3.4 Malfunction

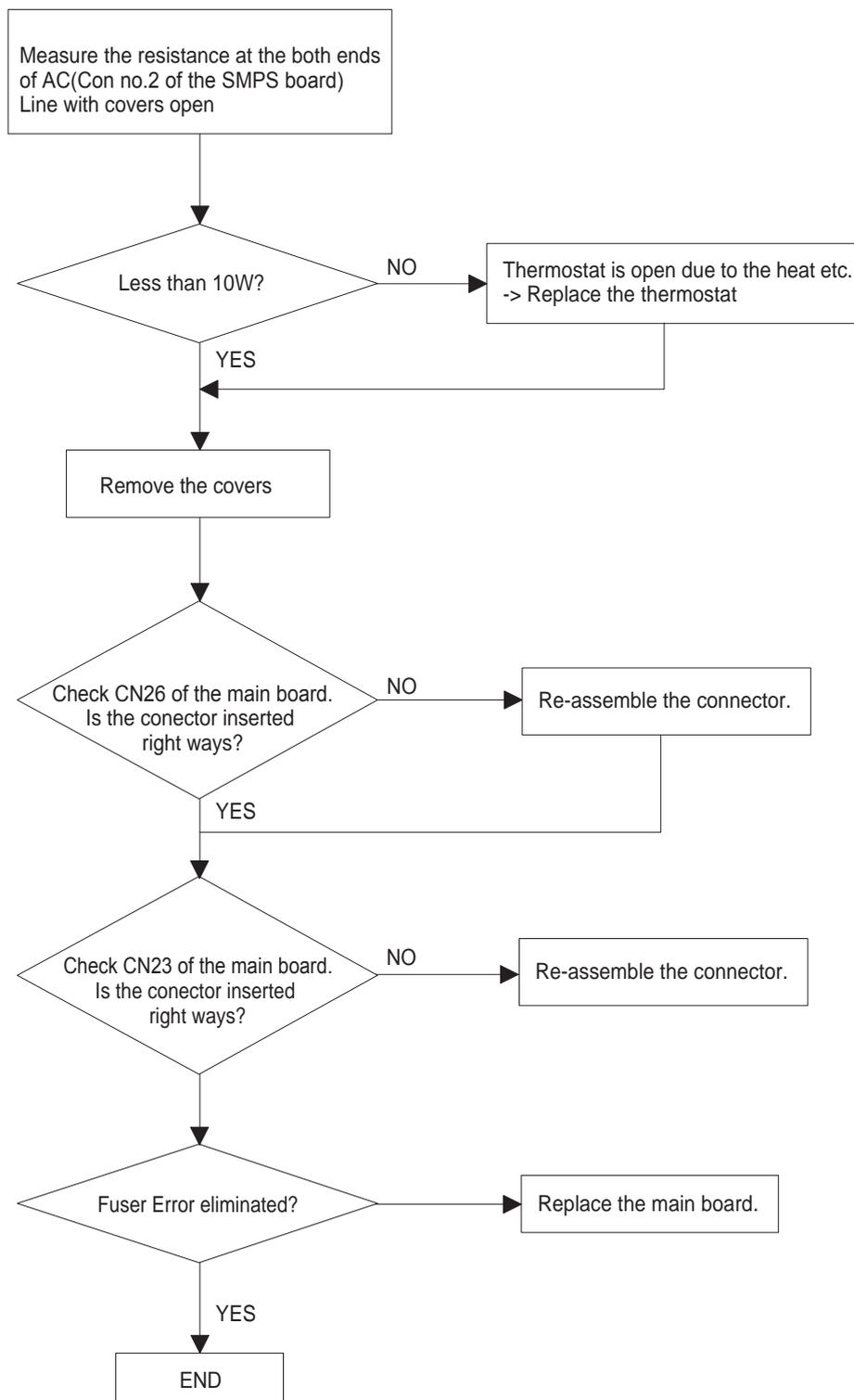
Error Status	Check	Solution
No power	<ol style="list-style-type: none"> 1. Check power is supplying 2. Check fuse F1 open 	<ol style="list-style-type: none"> 1. If supplying power differs from machine's power rating, replace the machine. 2. Replace it.
Fuser Error	<ol style="list-style-type: none"> 1. Thermostat open 2. AC wire open 3. Thermistor wire open 4. Main PBA 	<ol style="list-style-type: none"> 1. Detach AC connector and measure the resistance between pin 1 and 2. If it is megohm, thermostat is open, Replace it. 2. Check bad connector contact or wire is cut. 3. Check thermistor wire and its connection. 4. Replace Main PBA
Cover open	<ol style="list-style-type: none"> 1. When close Side cover, check the lever is pressed 2. Micro switch's contact 3. CPU and related circuit 	<ol style="list-style-type: none"> 1. Open Side cover and press the lever with pen. If Controller detects cover close, there is some mechanical trouble in Side cover and lever's assembly. If not so there is electrical problem.
Jam 0	<p>Check where Jam 0 happens</p> <ol style="list-style-type: none"> 1. Paper is not picked up 2. Paper is located in feed sensor 3. Happened when inserting specific papers such as envelope into the MPF (Multipurpose Paper Feeder)? 4. Happened when inserting specific papers such as envelope into the Manual Feeder? 5. Is the Stacker Extender is folded out? 6. Does not the Guide Adjust distort the papers 	<ol style="list-style-type: none"> 1. Check whether solenoid is working or not by using Engine test mode 2. Check feed sensor malfunction. 3. Re-try inserting a fewer papers. <ul style="list-style-type: none"> • fan the papers and align • take out the loaded papers and insert them reverse direction 4. Take out the loaded papers and insert them reverse direction <ul style="list-style-type: none"> • inserted papers as recommended for Manual Feeding? • When loading, tap the papers until paper detect sensor senses loading 5. When using long papers, use the Stacker Extender 6. Adjust Guide to fit the paper width
Jam 1	<p>Paper is stopped in just after of fuser unit.</p>	<ol style="list-style-type: none"> 1. It is mostly resulted from double feeding. Check paper is well stocked in feeder. 2. Check feed actuator position and actuator's operating. There may be stiff moving or double reflection. If not so, check the operation of feed sensor by Engine test mode. 3. Check exit lever operation. Remove jam and check actuator moving by hand. If actuator is too stiff, paper is wrapped around the heat roller. Remove obstacles or replace.

Error Status	Check	Solution
Jam 2	Check where Jam 2 happens 1. Paper is curled and cannot exit. 2. Paper is curled in the exit cover?	1. Remove paper using pinset or some tool and watch if separate claws have any trouble. Clean around fuser. 2. Check locking works wells. Watch whether the ribs of exit cover have any burr or resistive edge. If they do, remove obstacles or replace.
Jam 2 at face-down tray	1. Then paper is not drawn in because of the stack of papers in the Out tray. 2. Does it curl while coming out?	1. Load recommended quantity of papers 2. Open the Cover Front and check whether roller or spring, which are related to paper out, is not out of position. If so, re-locate or replace.
Clutch error	1. Check the spring of solenoid 2. Check the armature assembly/ cushion 3. Electrical check	1. Check whether the spring is expanded or not. 2. Check armature is well installed. It may be unstable assemble. 3. Remove the Main PBA.
High voltage error	1. Check the terminal output voltage 2. Check HVPS	1. Remove the Toner cartridge and open the cover and press cover open switch lever and measure the voltage with high voltage probe and sending printing data. If the voltage is normal, change the toner cartridge. 2. Disassemble the left side cover, and check HV of the solder side of HVPS and change it.
Feeding obstacles	Does the Plate-knockup prevent the paper loading?	MPF : Turn the power off and on. Open and close the Side cover to return to the original state. Cassette : Adjust Guide to fit the paper width.
Skew	Is the Guide adjust set to the paper width?	Fit the paper width using the Guide adjust.
Stacking	1. Took out the Stacker extender to support long papers? 2. Stacked too many papers more than Stacker can hold?	1. Use extender as per the paper length. 2. The Face-up stacker normally can hold 100 pages when using 75g/m2, however, stacking capacity can be lowered depending on the type of papers.
Engine Error	Check CBF Harness_CN7.(Main PBA to LSU)	Refer to troubleshooting "ENGINE ERROR".
Document Jam	Document is not picked up(in ADF).	1. Check document is well stocked in ADF. 2. Check whether document was been fastened together by staple or clip. 3. Load recommended quantity of papers.
	Document is stopped after it has fed into the ADF.	1. Check whether the Reg. sensor is working or not. 2. Check whether the Feed Roller is working or not.
	Does it curl while coming out?	1. Check the Open Cover whether there are bosses. 2. Check the ADF ass'y is well assemble.

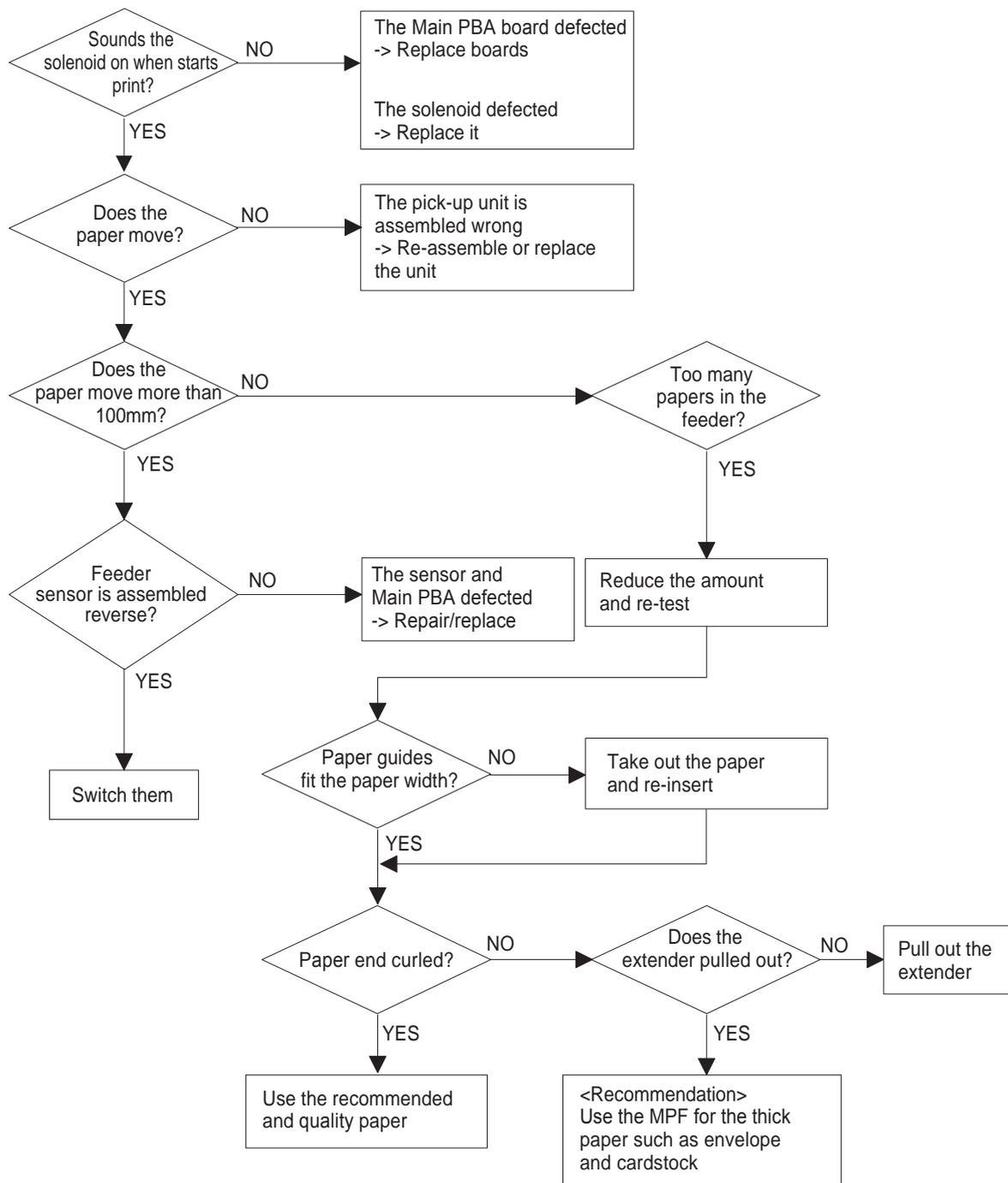
No Power (LCD NO display LED Off)



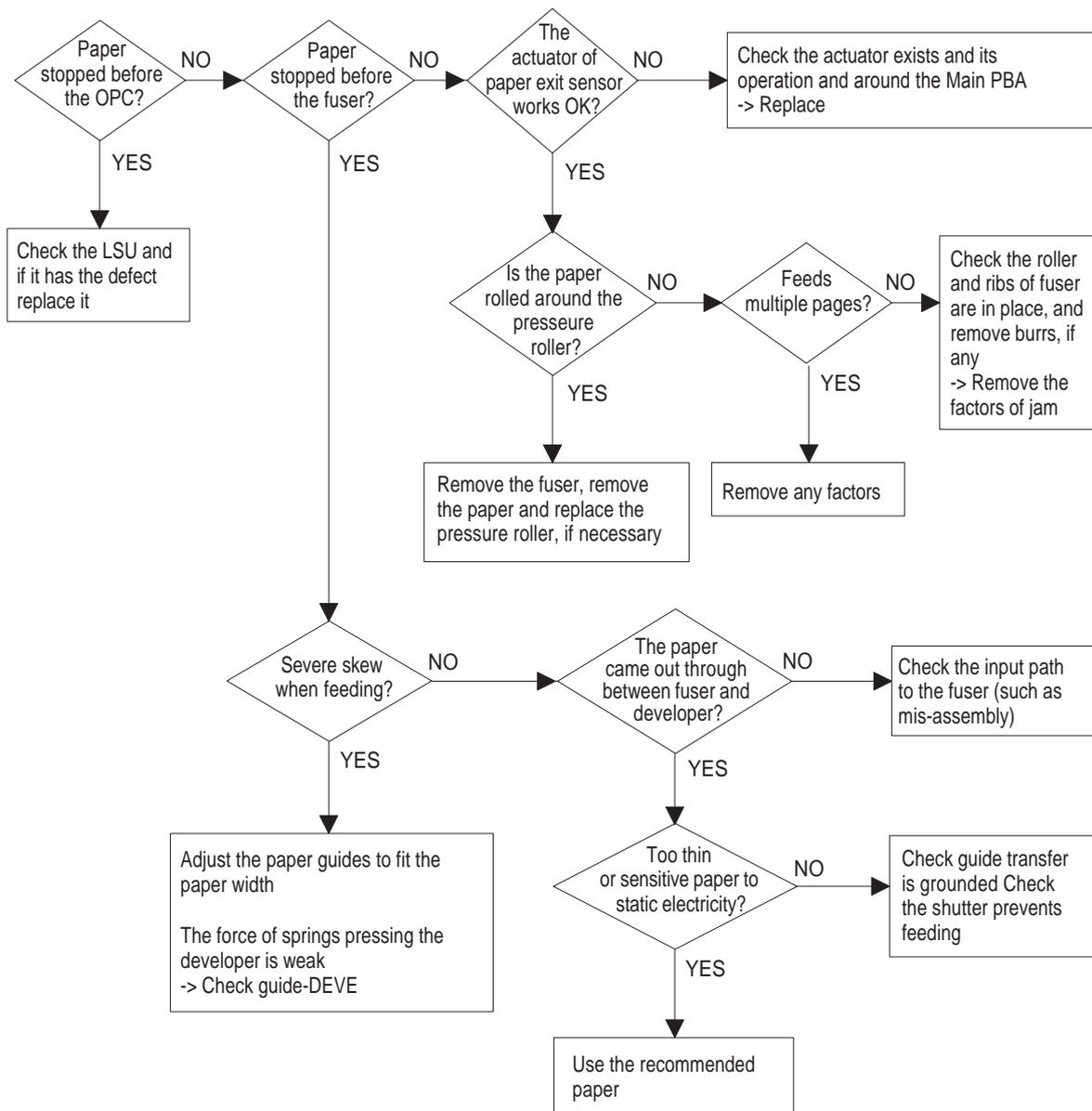
Fuser Error



Paper Jam (Mis-Feeding)



Paper Jam (Jam 1)



4.2.3.5 The cause and solutions of bad environment of the software

NOTE - Always try to an internal page and a copy to be sure that the machines is working and the problem is related to SW.

4.2.3.5(a) The printer is not working (1)

Description : While Power turned on, the printer is not working in the printing mode.

Check and Cause	Solution
<ol style="list-style-type: none"> 1. Check if the PC and the printer is properly connected and the toner cartridge installed. 2. Printing is nor working in the Windows. 3. Check if the printer cable is directly connected to peripheral devices 	<ol style="list-style-type: none"> 1. Replace the printer cable. If the problems not solved even after the cable replaced, check the amount of the remaining tone. 2. Check if the connection between PC and printer port is proper. If you use windows, check if the printer driver in the controller is set up. If the printer driver is properly set up, check in which program the printing is not working. The best way to find out is to open the memo pad to check the function of printing. If it is not working in a certain program, adjust the setup the program requires. Sometimes, the printout is normal within the Windows basic programs, but it's not working in a particular program. In such case, install the new driver again. If not working in the Windows basic program, Check the setup of the port of CMOS is on ECP. And check the address of IRQ 7 and 378 3. If the scanner needs to be connected to the printer, first the remove the scanner from the PC to see if the printer is properly working alone.

4.2.3.5(b) The printer is not working (2)

Description : After receiving the printing order, no response at all or the low speed of printing occurs due to wrong setup of the environment rather than malfunction of the printer itself.

Check and Cause	Solution
<ol style="list-style-type: none"> 1. Secure more space of the hard disk. 2. Printing error occurs even if there is enough space in the hard disk. 3. Check the parallel-port-related items in the CMOS Setup. 4. Reboot the system to print. 	<ol style="list-style-type: none"> 1. Not working with the message 'insufficient printer memory' means hard disk space problem rather than the RAM problem. In this case, provide more space for the hard disk. Secure more space using the disk utilities program. 2. The connection of the cable and printer port is not proper. Check if the connection is properly done and if the parallel port in CMOS is rightly set up. 3. As a printer port, Select ECP or SPP among SPP(Normal), ECP, and EPP modes(increase printing speed) SPP normal mode support 8-bit data transfer, while ECP Mode transfer the 12-bit data. 4. If the regular font is not printing, the cable or the printer driver may be defective. Turn the PC and printer off, and reboot the system to print again. If not solved, double-click the printer in my computer If the regular fonts are not printed this time again. the cable must be defective so replace the cable with new one.

4.2.3.5(c) Abnormal Printing

Description : The printing is not working properly even when the cable has no problem. (even after the cable is replaced) If the printer won't work at all or the strange fonts are repeated, the printer driver may be defective or wrong setup in the CMOS Setup.

Check and Cause	Solution
<ol style="list-style-type: none"> 1. Set up the parallel port in the CMOS SETUP. 2. Printer Driver Error. 3. Error message from insufficient memory. (The printing job sometimes stops or due to insufficient virtual memory, but it actually comes from the insufficient space of the hard disk.) 	<ol style="list-style-type: none"> 1. Select SPP(Normal) or ECP LPT Port the among ECP, EPP or SPP in the CMOS Setup. 2. Check the printer in My Computer.(to see if the printer driver is compatible to the present driver or delete the old driver, if defective and reinstall the new driver) 3. Delete the unnecessary files to secure enough space of the hard disk and start printing job again.

4.2.3.5(d) SPOOL Error

Description : To spool which stands for “simultaneous peripheral operations online” a computer document or task list (or “job”) is to read it in and store it, usually on a hard disk or larger storage medium so that it can be printed or otherwise processed at a more convenient time (for example, when a printer is finished printing its current document).

Check and Cause	Solution
<ol style="list-style-type: none"> 1. Insufficient space of the hard disk in the directory assigned for the basic spool. 2. If the previous printing error not solved. 3. When expected to collide with other program. 4. When an application program or the printer driver is damaged. 5. When some files related to OS are damaged or virus infected. 6. Memory is less than suggested one. 	<ol style="list-style-type: none"> 1. Delete the unnecessary files to provide more space to start printing job. 2. If there are some files with the extension name of ****.jnl, Delete them and Reboot the Windows to restart printing job. 3. Shut down all other programs except the current one, if possible. 4. Delete the printer driver completely and reinstall it. 5. After rebooting the computer, check for viruses, restore the damaged files and reinstall the program to do the printing job. 6. Add up enough memory to the PC.

How to delete the data in the spool manager.

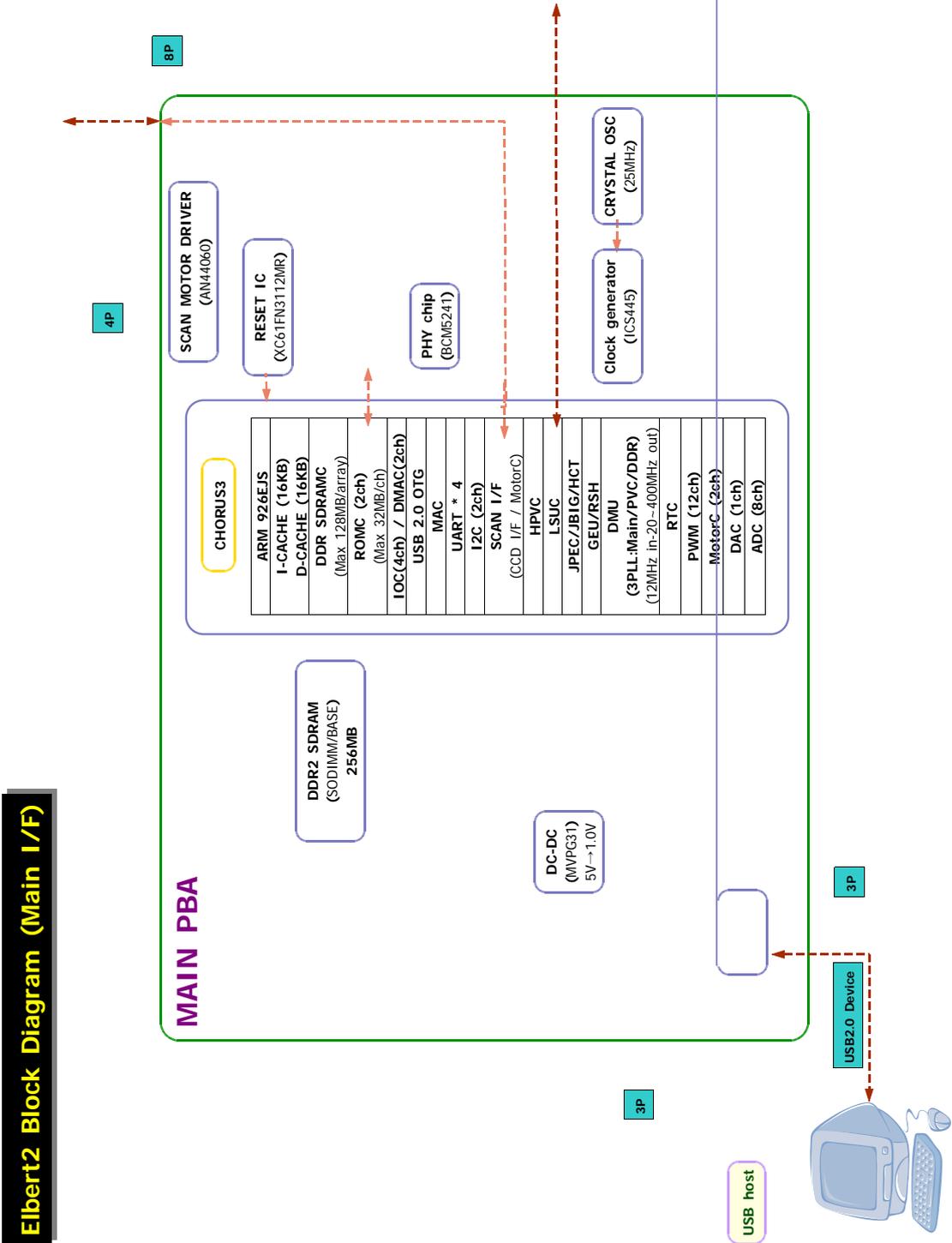
In the spool manager, the installed drivers and the list of the documents waiting to be printed are shown. Select the document to be deleted and check the delete menu.

If you intend to delete the current document being printed, the data being transferred to the printer will be put out and then the document is removed. Before choosing the document, the menu is still inactive.

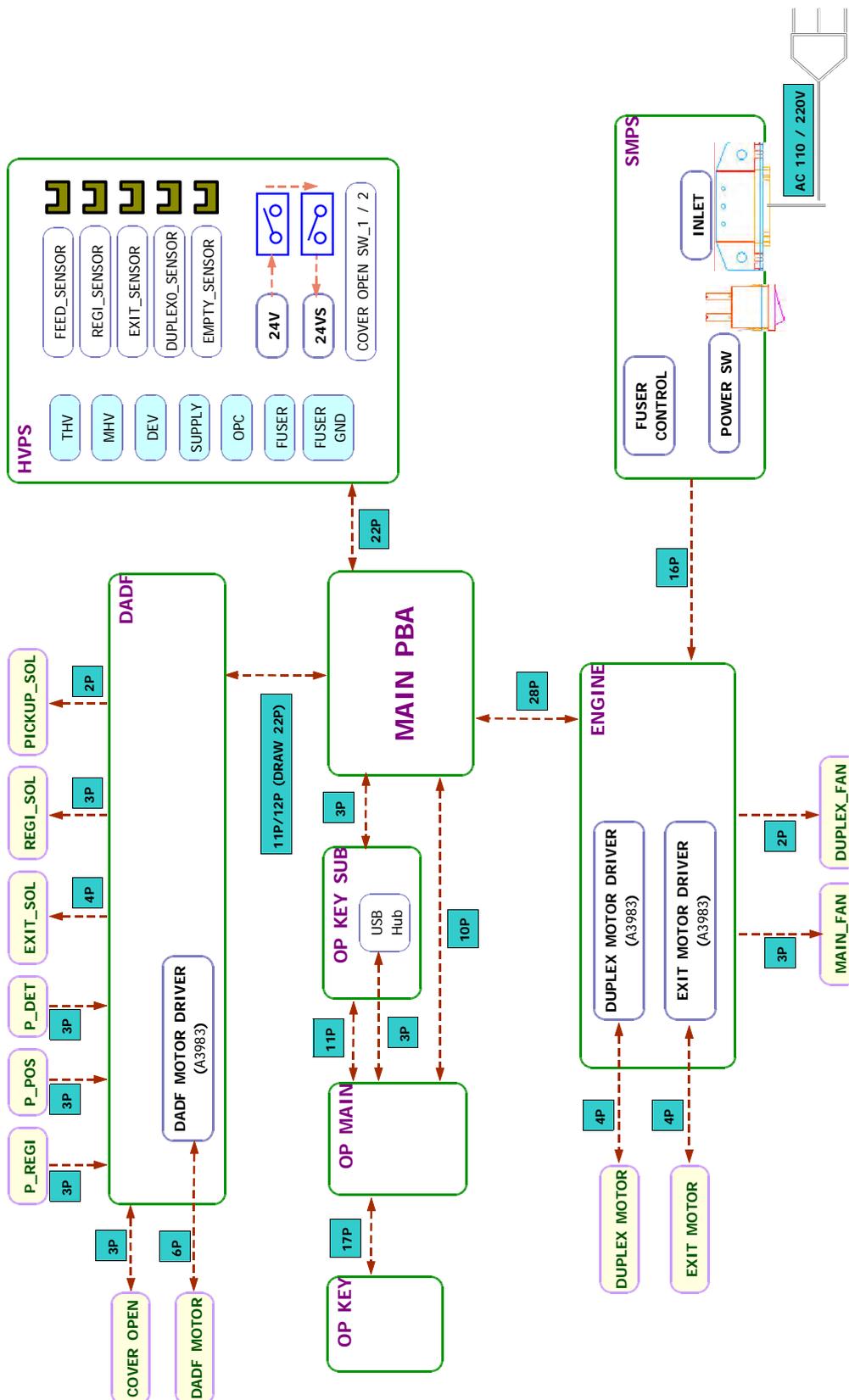
Or put the document out of the list and repeat the routine as in the above or finish the spool manager.

5. System Diagram

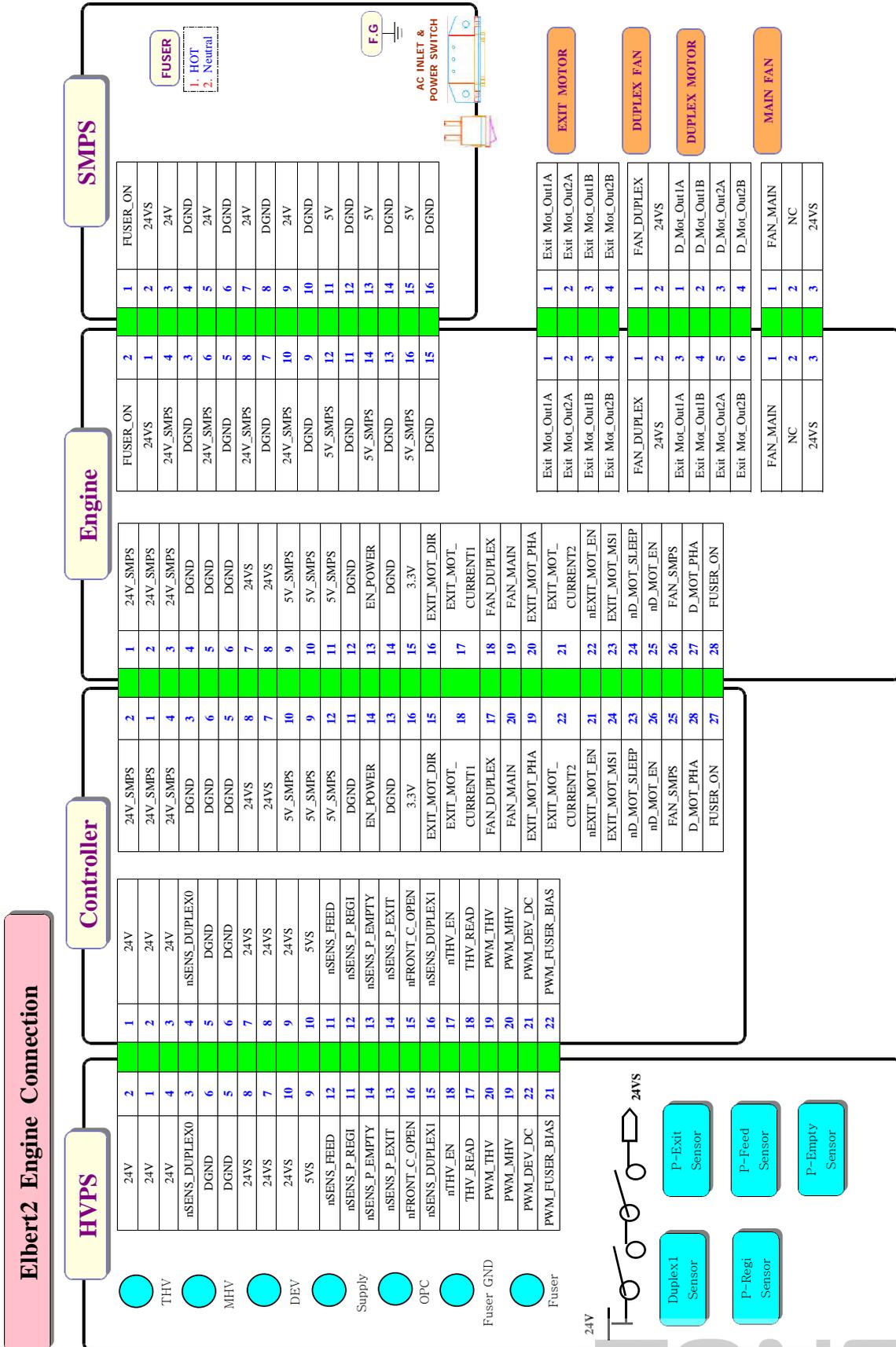
5.1 Block Diagram

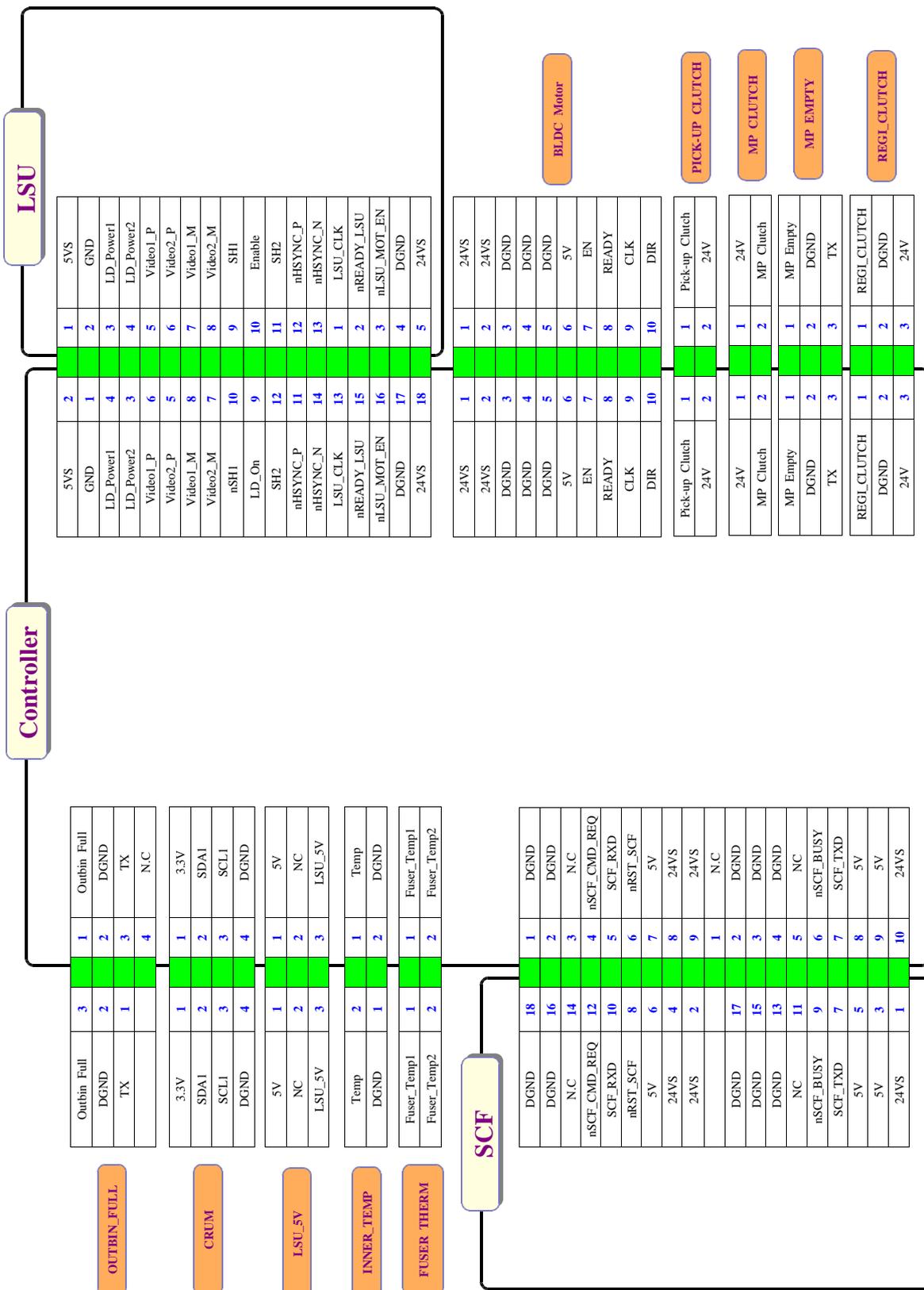


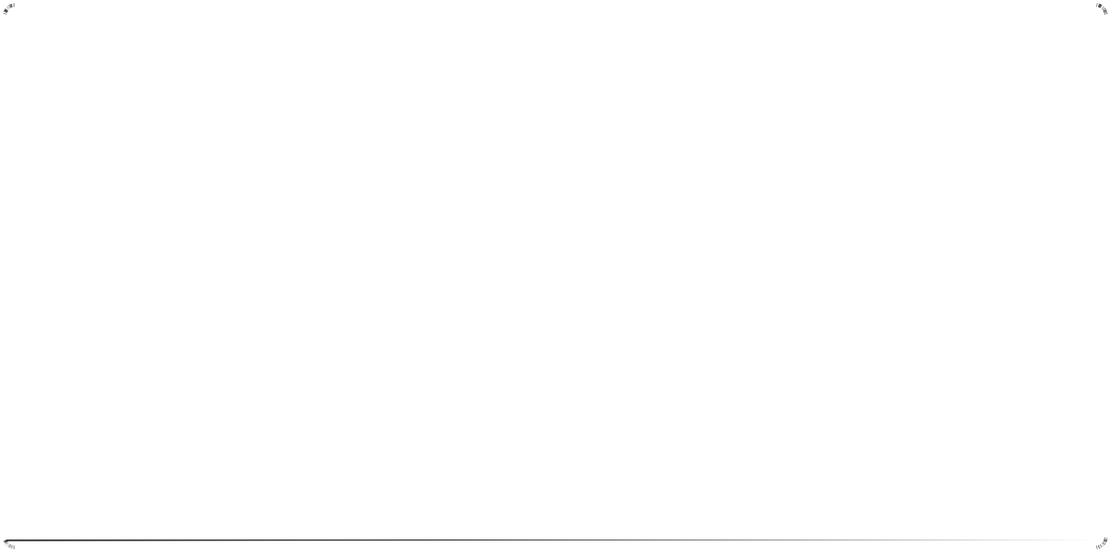
Elbert2 Block Diagram (SUB B'd)

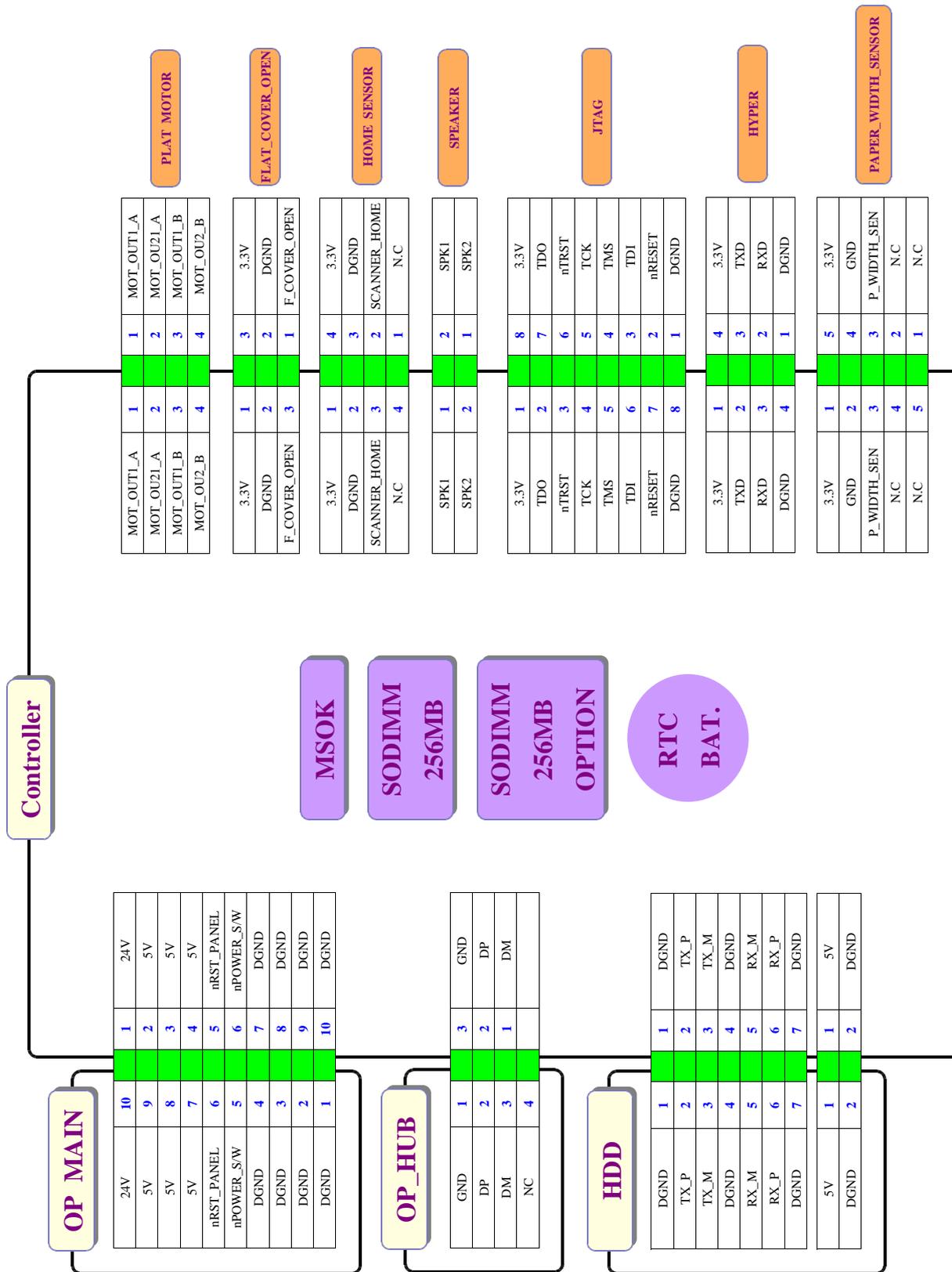


5.2 Connection Diagram









6. Reference Information

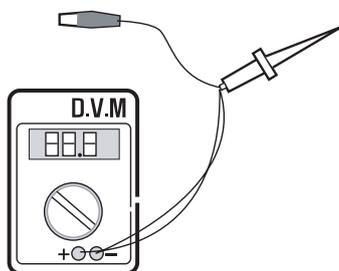
This chapter contains the tools list, list of abbreviations used in this manual, and a guide to the location space required when installing the printer. A definition of test pages and Wireless Network information definition is also included.

6.1 Tool for Troubleshooting

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

- **DVM (Digital Volt Meter)**

Standard : Indicates more than 3 digits.



- **Driver**

Standard : “-” type, “+” type (M3 long, M3 short, M2 long, M2 short).

- **Tweezers**

Standard : For general home use, small type.

- **Cotton Swab**

Standard : For general home use, for medical service.



- **Cleaning Equipments**

Standard : An IPA (Isopropyl Alcohol) dry wipe tissue or a gentle neutral detergent and lint-free cloth.

- **Vacuum Cleaner**



- **Spring Hook**

Standard : For general use

- **Software (Driver) installation CD ROM**

6.2 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.

6.2.1 Acronyms

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

MIB	Management Information Base	RT-OS	Real Time Operating System
MIME	Multipurpose Internet Mail Extensions	RX	Receive
MR	Modified Read (a kind of image data coding method)	S2E	Scan-To-Email
MMR	Modified and Modified Read (a kind of image data coding method)	SAD	Solid Area Density
MN std	Multi-National Standard	SC	Service Call
MSOK	Master SOK(System Operation Key)	SCF	Second Cassette Feeder
MSO	Mixed Size Original	SDSP	Single Document Single Printout
MP	Multi Purpose	SDMP	Single Document Multiple Printout
MPBF	Mean Print Between Failure	SDR	Shut Down Rate
MSI	Multi Sheet Input	SEF	Short Edge Feeding
MTBF	Mean Time Between Failure	SIR	Sacrificed(or Standard) Image Reference
MTTR	Mean Time To Repair	SOK	System Operation Key
NCP	Network Control Protocol	sRGB	Standard RGB (Color Coordinate System)
NIC	Network Interface Card	SNMP	Simple Network Management Protocol
NOS	Network Operating System	TCP/IP	Transmission Control Protocol/Internet Protocol
NN	Normal Temperature, Normal Humidity (Testing Chamber conditions)	TBC(or tbc)	To Be Confirmed
NSDR	Non-Shut Down Rate(=USDR)	TBD(or tbd)	To Be Determined
NW	Network	TIFF	(Adobe & Aldus) Tagged Image File Format
OD	Optical Density	TRIM	Technical Retrofit Interim Maintenance
OHD	On Hook Dial	TTM	Time to Market
OSOK	Optional SOK(System Operation Key)	TX	Transmit
OP	Operational Procedure	UI	User Interface
PCL	Printer Control Language	UMC	Unit Manufacturing Cost
PDF	(Adobe) Portable Document Format	UMR	Unscheduled Maintenance Ratio
PPM	Pages Per Minutes	UPnP	Universal Plug and Play
PQ	Print Quality	USB	Universal Serial Bus
PS/3	PostScript Level-3	USDR	Un-Shut Down Rate(=NSDR)
PVC	Printing Video Controller in the SPGPm(Graphic Processor for Printer)	XCMI	Samsung's Management Information Base
QCD	Quality, Cost, and Delivery	WA	Warranty Action
RCP	Remote Control Panel	W x D x H	Width x Depth x Height

6.2.2 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
PMO-CAM JAM REMOVE	PMO-CAM= Processing Mold-CAM
PMO-LOCKER DEVE	DEVE=Developer

ACRONYM	EXPLANATION
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(LLEGAL)	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 UP=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 MATERIAL-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)

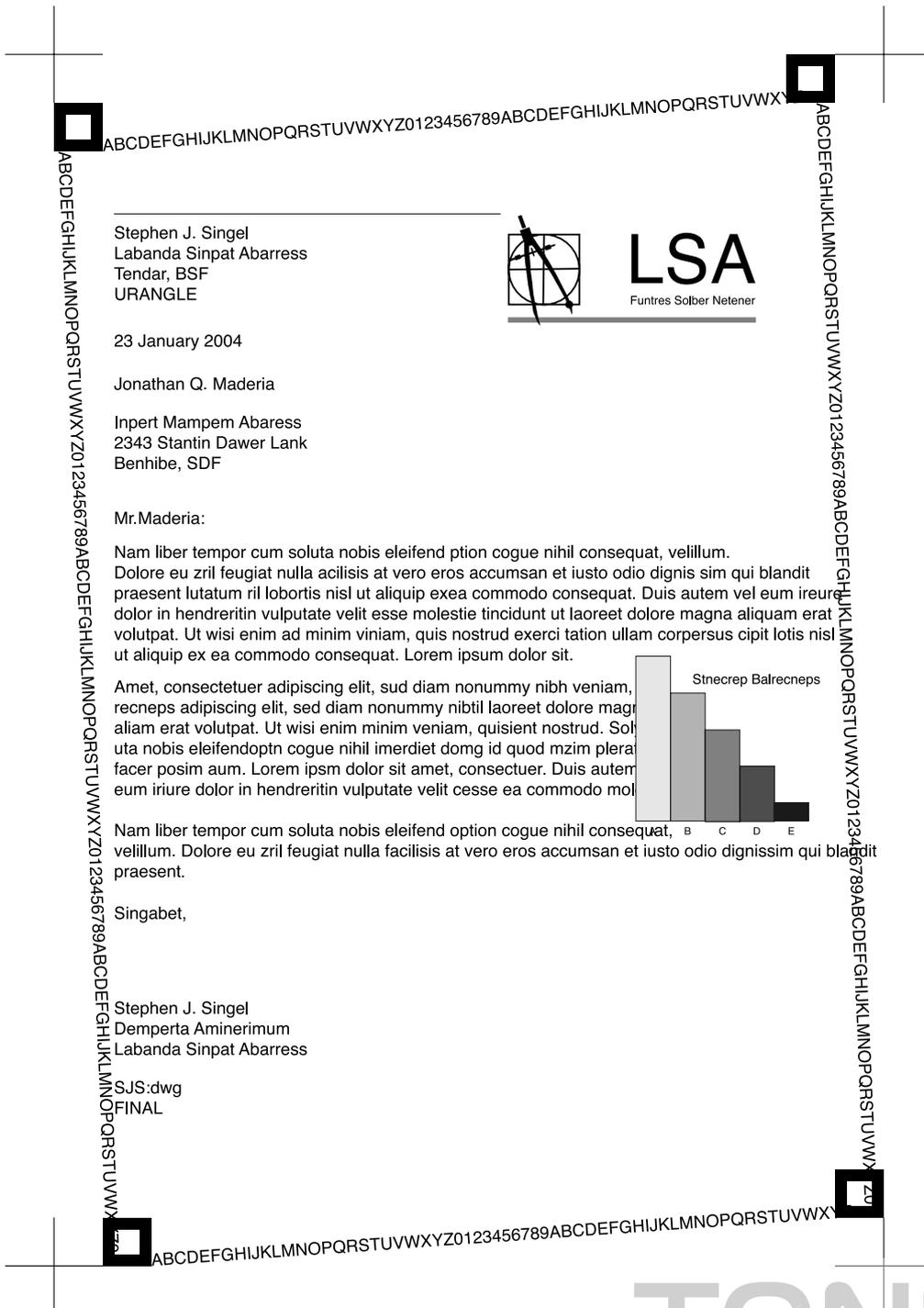
ACRONYM	EXPLANATION
GEAR-EXIT/U,ID	U=Upper ID=Idler
IPR-TERMINAL FU	FU=Fuser
PMO-BEARING H/R-F	H/R-F=Heat Roller - Front
BEARING-H/R L	H/R-L=Heat Roller -Left
PEX-ROLLER EXIT F_UP	PEX= Processing Extrude F_UP=Face Up
SPRING ETC-P/R	P/R=Pressure Roller
SPRING(R)-CAU-HOT-FU	CAU-HOT-FU = Caution Hot -Fuser
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

6.3 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).

6.3.1 A4 ISO 19752 Standard Pattern

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



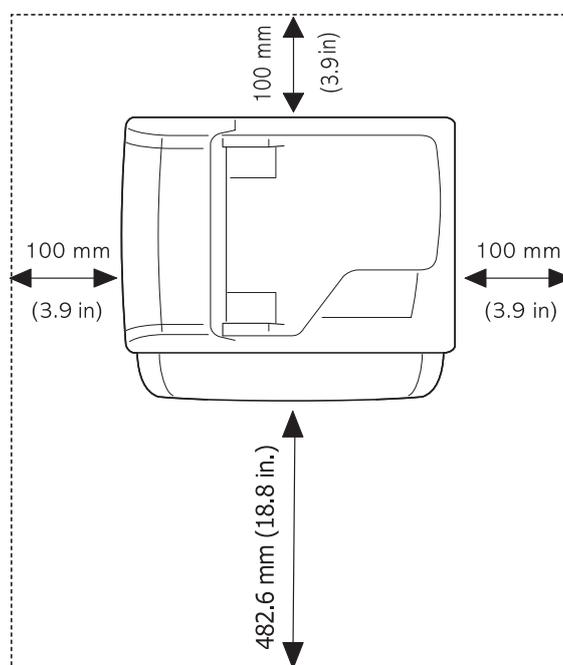
6.4 Selecting a location

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: 180 mm (enough space for ventilation)
- Right: 100 mm (enough space for ventilation)
- Left: 100 mm (enough space for ventilation)





Parts Catalog - SCX-5835_5935 Series



- 33 ppm(A4) Network-ready MFP
- Toner cartridge
 - : Initial : 4K / Sales : 4K,10K
- Machine Life : 300K or 5 Years

- Paper handling
 - : 500 sheets Standard cassette
 - : 500 sheets Optional cassette
 - : 50 sheets DADF
- 80 GB HDD

- High Performance CCDM
- Easy to install (CRU & Option)
- Color Graphic Touch-Screen LCD (7")
- Low Cost per Page
- Direct USB

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The logo for Toner Plus, featuring a stylized blue 'X' shape to the right of the text.

ExplodedView and Parts List

Ver. 1.00

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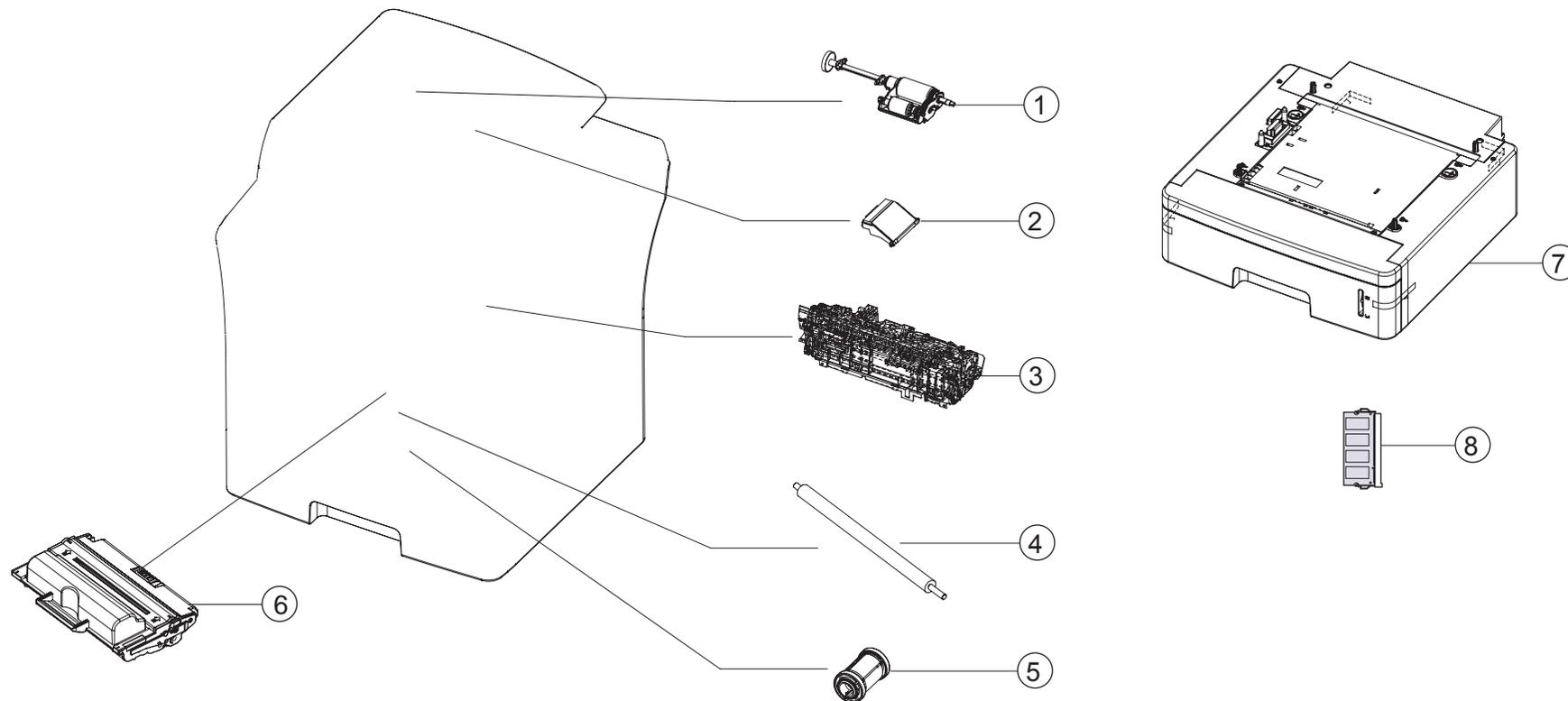
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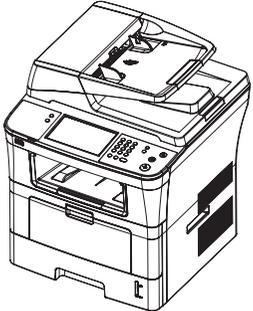
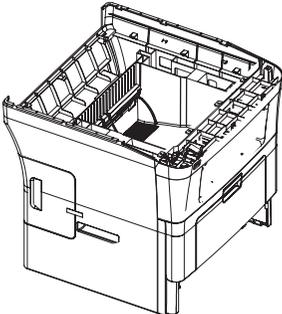
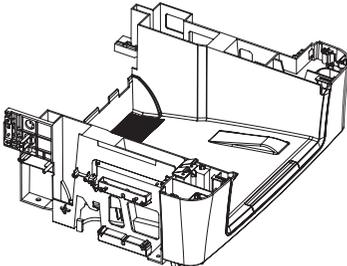
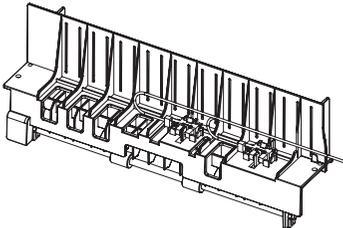
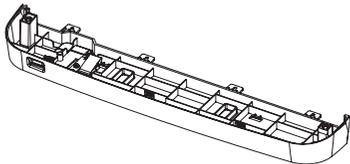
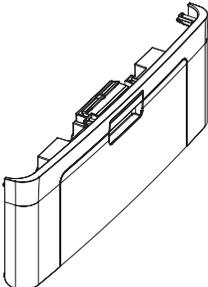
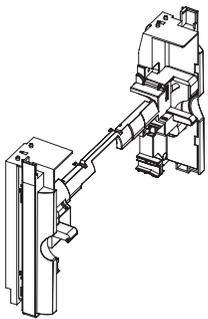
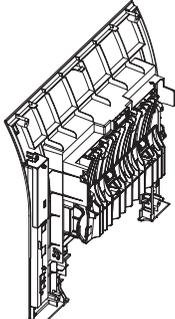
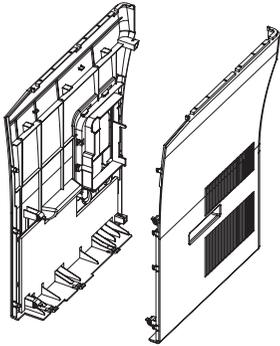
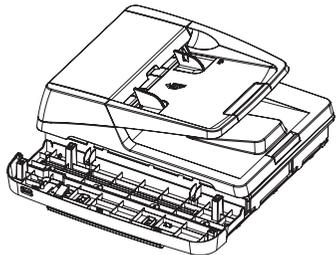
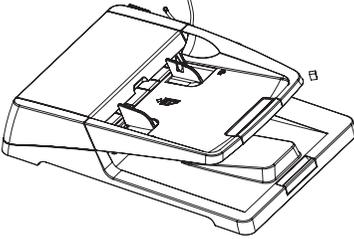
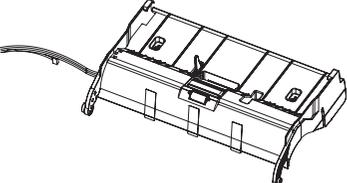
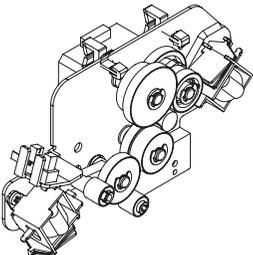
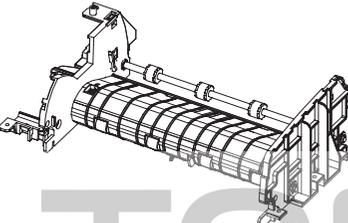
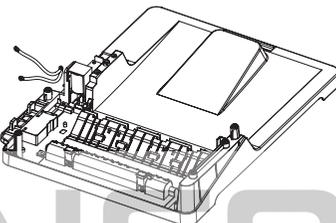


No.	Sec Code (Model Name)	Description	Life	Remark
1	JC97-03070A	MEA UNIT-PICK UP DADF	100K	FRU
2	JC97-03069A	MEA UNIT-DADF RUBBER	50K	FRU
3	JC96-05064A(220V) JC96-05063A(110V)	ELA UNIT-FUSER	100K	FRU
4	JC66-01181A	ROLLER-TRANSFER	100K	FRU
5	JC97-02441C	MEA-ROLLER PICK UP	150K	FRU

No.	Sec Code (Model Name)	Description	Life	Remark
6	MLT-D208S/MLT-D2082S	CARTRIDGE TONER	4K	CRU
	MLT-D208L/MLT-D2082L		10K	CRU
7	SCX-S5835A	SCF	-	520 sheets / Option
8	CLP-MEM202	MEMORY	-	256 MB SDRAM / Option

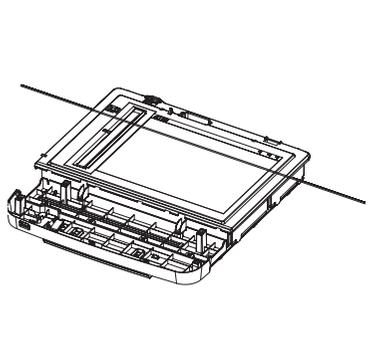
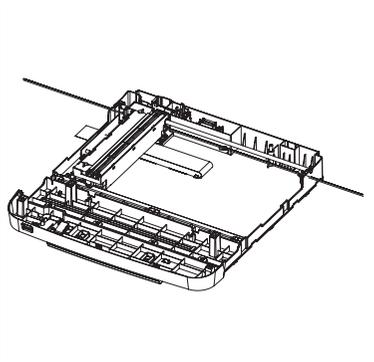
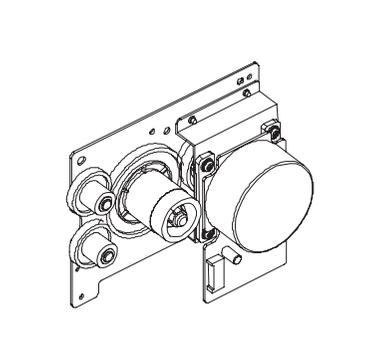
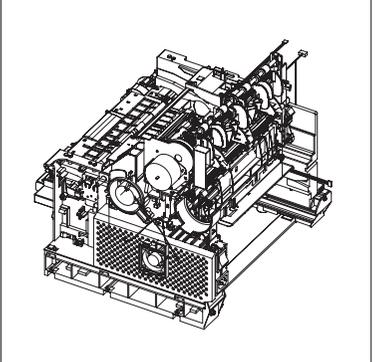
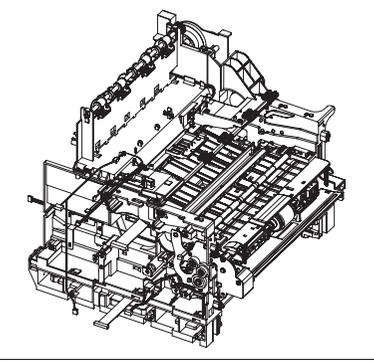
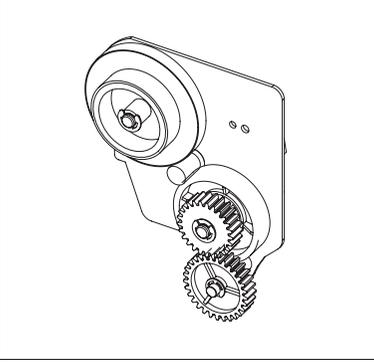
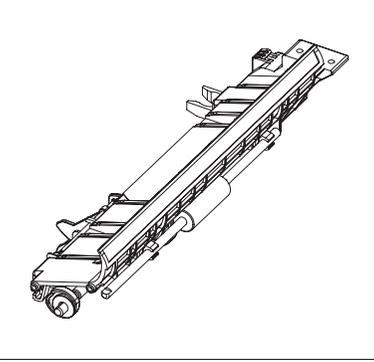
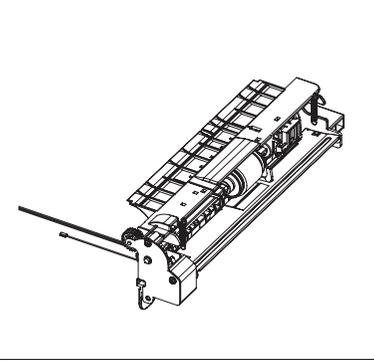
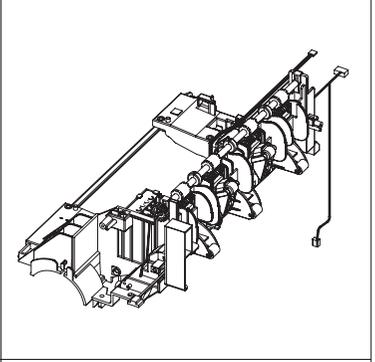
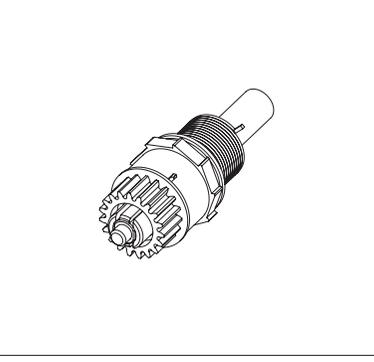
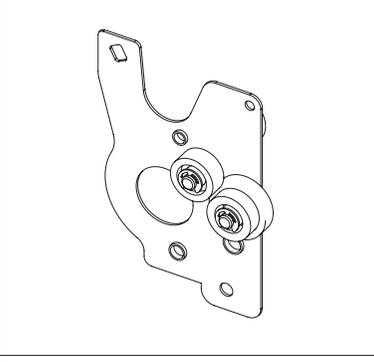
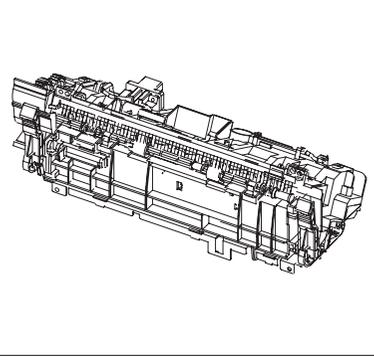
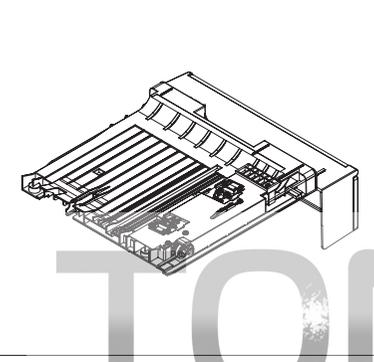
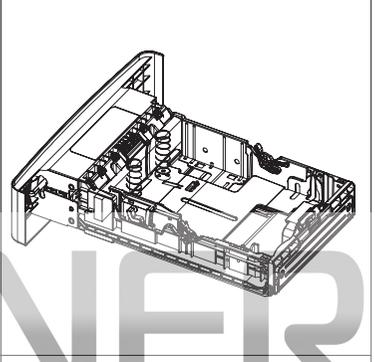
TONER

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<p>1. Main</p>	<p>2. Cover</p>	<p>3. ELA HOU COVER MID</p>	<p>4. ELA HOU-COVER REAR UP</p>	<p>5. ELA HOU-LOWER DUMMY</p>
				
<p>6. MEA COVER FRONT</p>	<p>7. MEA COVER MID FRONT</p>	<p>8. MEA COVER REAR</p>	<p>9. MEA COVER SIDE R_L</p>	<p>10. ELA HOU SCAN</p>
				
<p>11. ELA HOU DADF</p>	<p>12. ELA HOU-DADF UPPER</p>	<p>13. ELA HOU-DADF DRV</p>	<p>14. ELA_HOU_DADF_LOWER</p>	<p>15. ELA_HOU_COVER_PLATEN</p>

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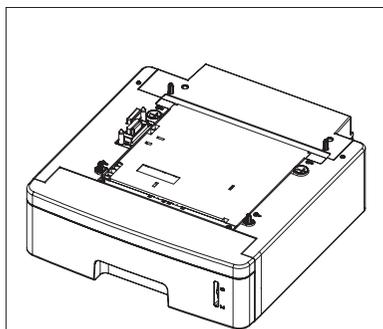
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16. ELA HOU-PLATEN	17. ELA HOU-SCAN LOWER	18. ELA HOU-OPE	19. ELA UNIT-MAIN DRIVE	20. ELA HOU-FRAME
				
21. ELA HOU-FRAME ETC	22. ELA HOU-FUSER DRIVE	23. ELA HOU-GUIDE DUP	24. ELA HOU-MPF	25. ELA_HOU_FRAME_EXIT
				
26. MEA UNIT-CLUTCH	27. MEA UNIT-BRACKET FEED	28. ELA UNIT-FUSER	29. MEA UNIT-DUPLEX	30. MEA UNIT-CASSETTE

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Tumbnail 3

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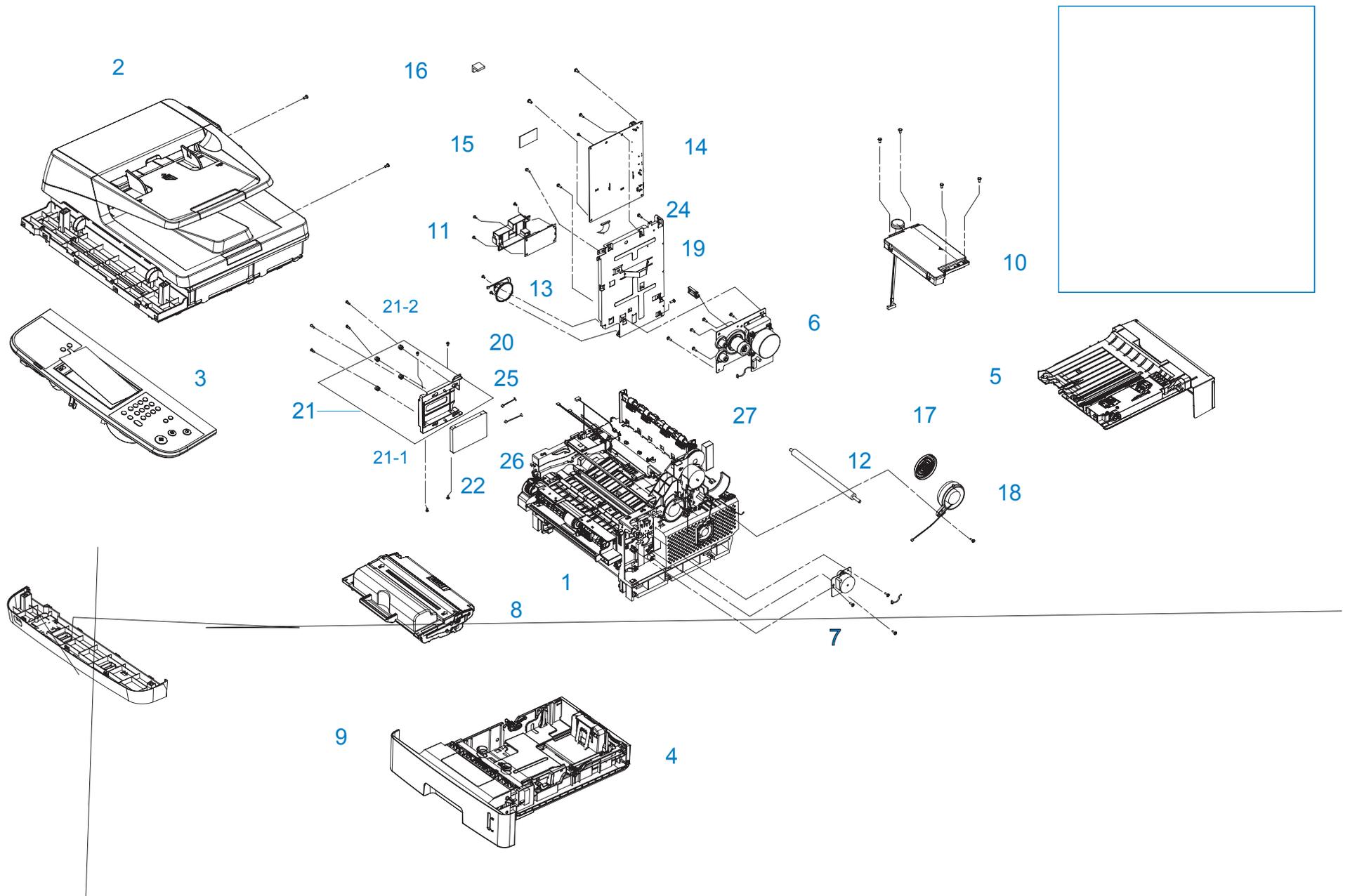


31. ELA HOU-SCF

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1. Main



Main Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	SCX-5x35FN	SET	1			
1	JC96-04916C	ELA HOU-FRAME	1	SNA	B	110V
1	JC96-04916D	ELA HOU-FRAME	1	SNA	B	220V
2	JC96-05376A	ELA HOU-SCAN	1	SNA	A	
3	JC96-05372B	ELA HOU-OPE	1	SNA	A	
4	JC97-03494A	MEA UNIT-CASSETTE	1	SA	A	
5	JC97-03127B	MEA UNIT-DUPLEX	1	SA	A	
6	JC96-03761B	ELA UNIT-MAIN DRIVE	1	SA	A	
7	JC96-03762B	ELA UNIT-DUPLEX DRIVE	1	SA	B	
8	JC96-04964W	CARTRIDGE-TONER	1	SNA	B	
9	JC96-05384A	ELA HOU-COVER	1	SNA	A	
10	JC59-00027A	UNIT-LSU	1	SA	A	
11	JC63-01677A	COVER-FAX	1	SA	A	
12	JC66-01181A	ROLLER-TRANSFER	1	SA	A	
13	JC92-02060B	PBA-FAX CARD	1	SA	A	SEE
13	JC92-02060C	PBA-FAX CARD	1	SA	A	XAA

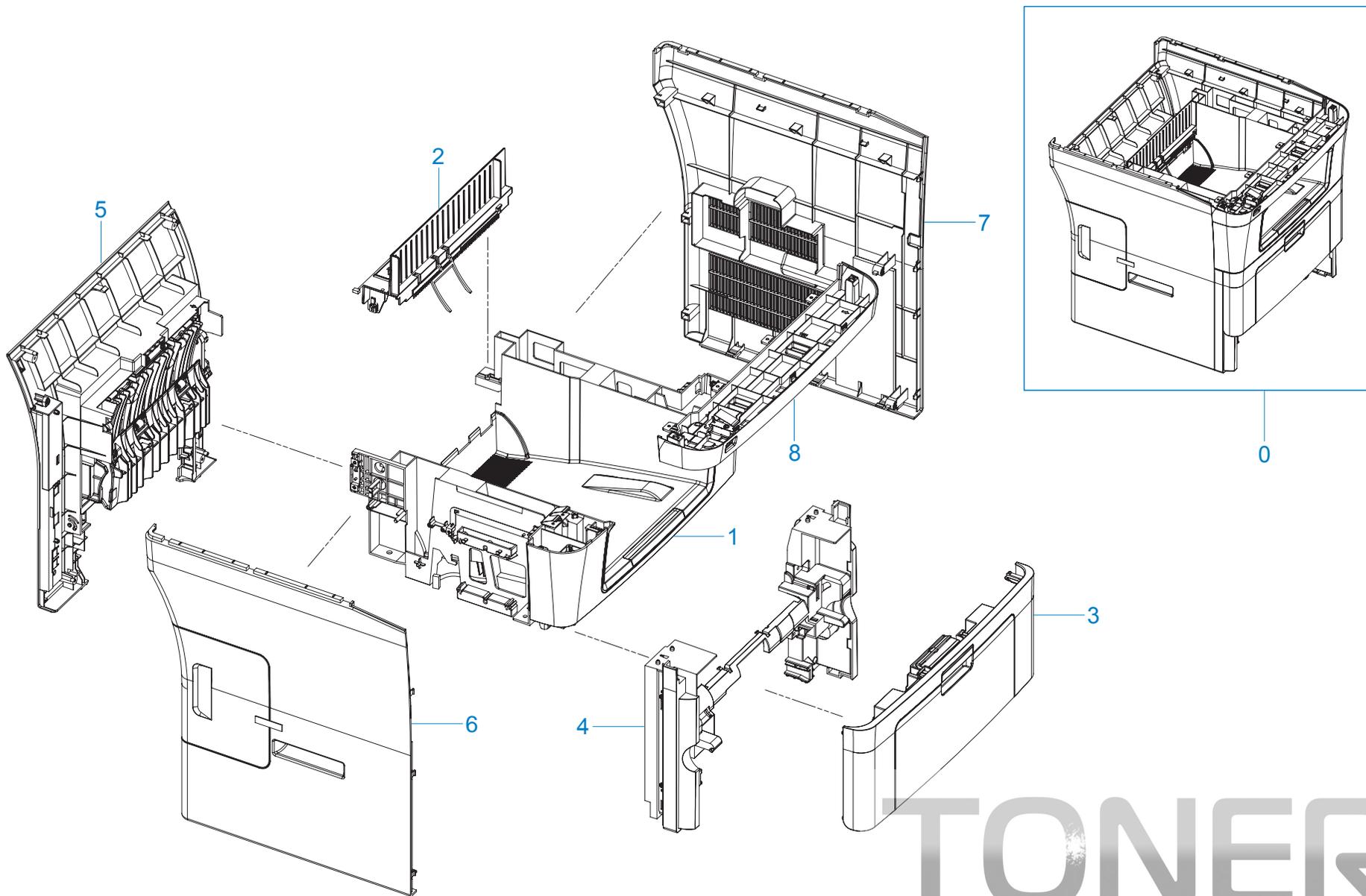
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
14	JC92-02071A	PBA-MAIN	1	SA	B	
15	JC92-01975A	PBA-RAM DIMM	1	SA	B	
16	JC92-01946C	PBA-MSOK	1	SNA	A	
17	JC63-01778A	COVER-FAN DC	1	SA	A	
18	JC31-00087A	FAN-DC	1	SA	A	
19	6502-001093	CABLE CLAMP	1	SA	B	
20	3001-002262	SPEAKER	1	SA	A	
21	JC97-02276A	MEA UNIT-HOLDER HDD	1	SA	B	
21-1	JC61-01389A	HOLDER-M_HDD	1	SNA	B	
21-2	JC73-00215A	RUBBER-DAMPER HDD	4	SA	B	
22	JC59-00028A	HDD	1	SA	A	
23	JC39-01003A	HARNESS-DUPLEX_MOTOR	1	SA	A	
24	JC39-00883A	HARNESS-FAX	1	SA	B	
25	JC39-00754A	HARNESS-SATA_SIGNAL	1	SA	B	
26	JC39-00753A	HARNESS-SATA_POWER	1	SA	A	
27	JC39-00869A	HARNESS-BLDC	1	SA	B	

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2. Cover

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Cover Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05384A	ELA HOU-COVER	1	SNA	A	SCX-5835FN
0	JC96-05384B	ELA HOU-COVER	1	SNA	A	SCX-5935FN
1	JC96-05380A	ELA HOU-COVER MID	1	SA	A	
2	JC96-04921B	ELA HOU-COVER REAR UP	1	SA	A	
3	JC97-03490A	MEA-COVER FRONT	1	SA	A	
4	JC97-03491A	MEA-COVER MID FRONT	1	SA	A	

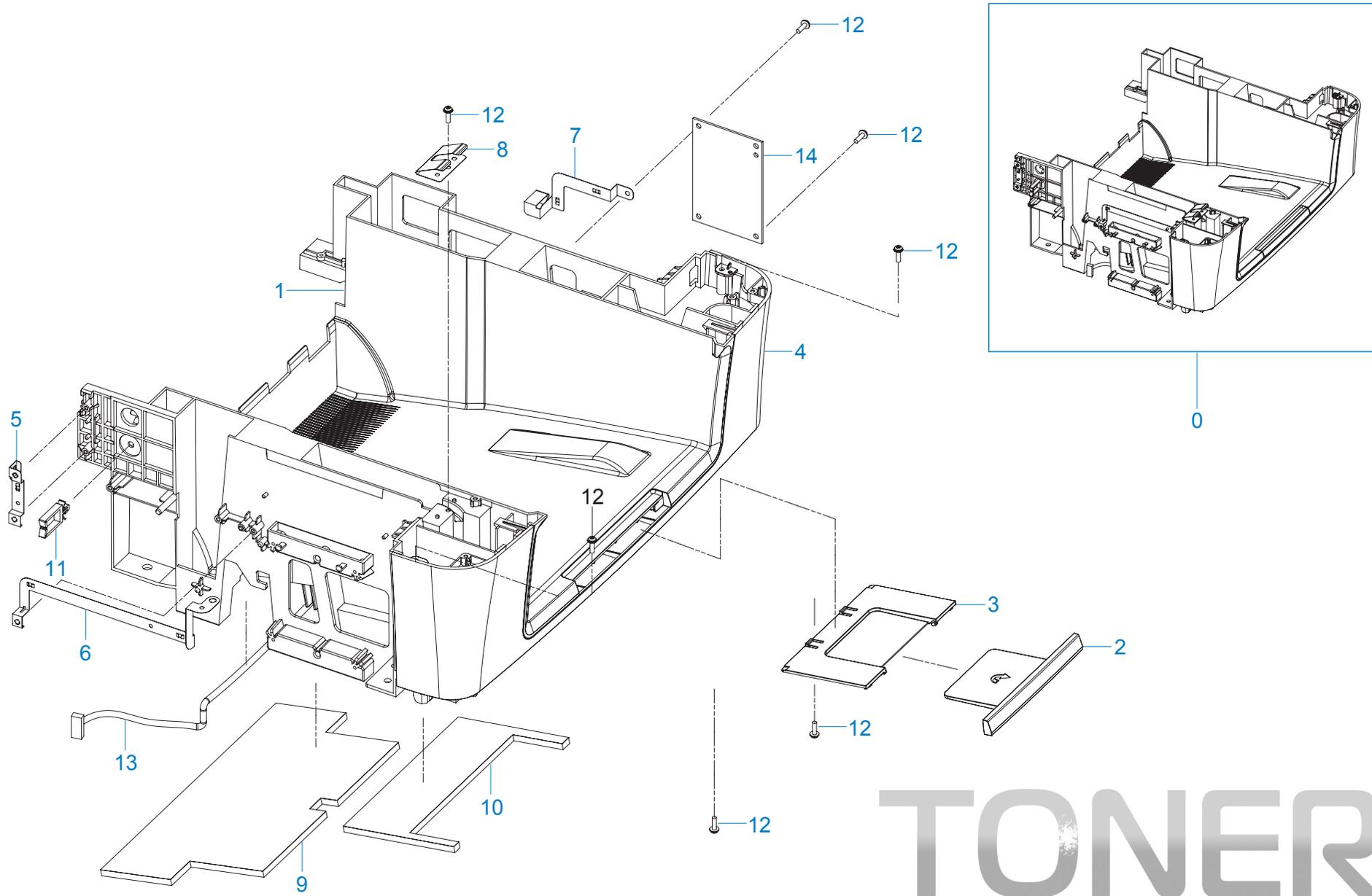
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
5	JC97-03492A	MEA-COVER REAR	1	SA	A	
6	JC97-03116B	MEA-COVER SIDE L	1	SA	A	
7	JC97-03148B	MEA-COVER SIDE R	1	SA	A	
8	JC96-05478A	ELA HOU LOWER DUMMY	1	SA	A	SCX-5835FN
8	JC96-05478B	ELA HOU LOWER DUMMY	1	SA	A	SCX-5935FN

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3. ELA HOU COVER MID

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ELA HOU COVER MID Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05380A	ELA HOU-COVER MID	1	SA	A	
1	JC63-02036A	COVER-MIDDLE	1	SNA	B	
2	JC63-02039A	COVER-STACKER RX	1	SA	B	
3	JC63-02001B	TRAY-ASF OUTPUT	1	SA	B	
4	JC63-02033A	COVER-DECO MIDDLE	1	SNA	B	
5	JC63-01703A	GROUND-SCAN CON	1	SNA	B	
6	JC63-01702A	GROUND-LCD CON	1	SNA	B	
7	JC63-01731A	GROUND-ENGINE SUB	1	SNA	B	

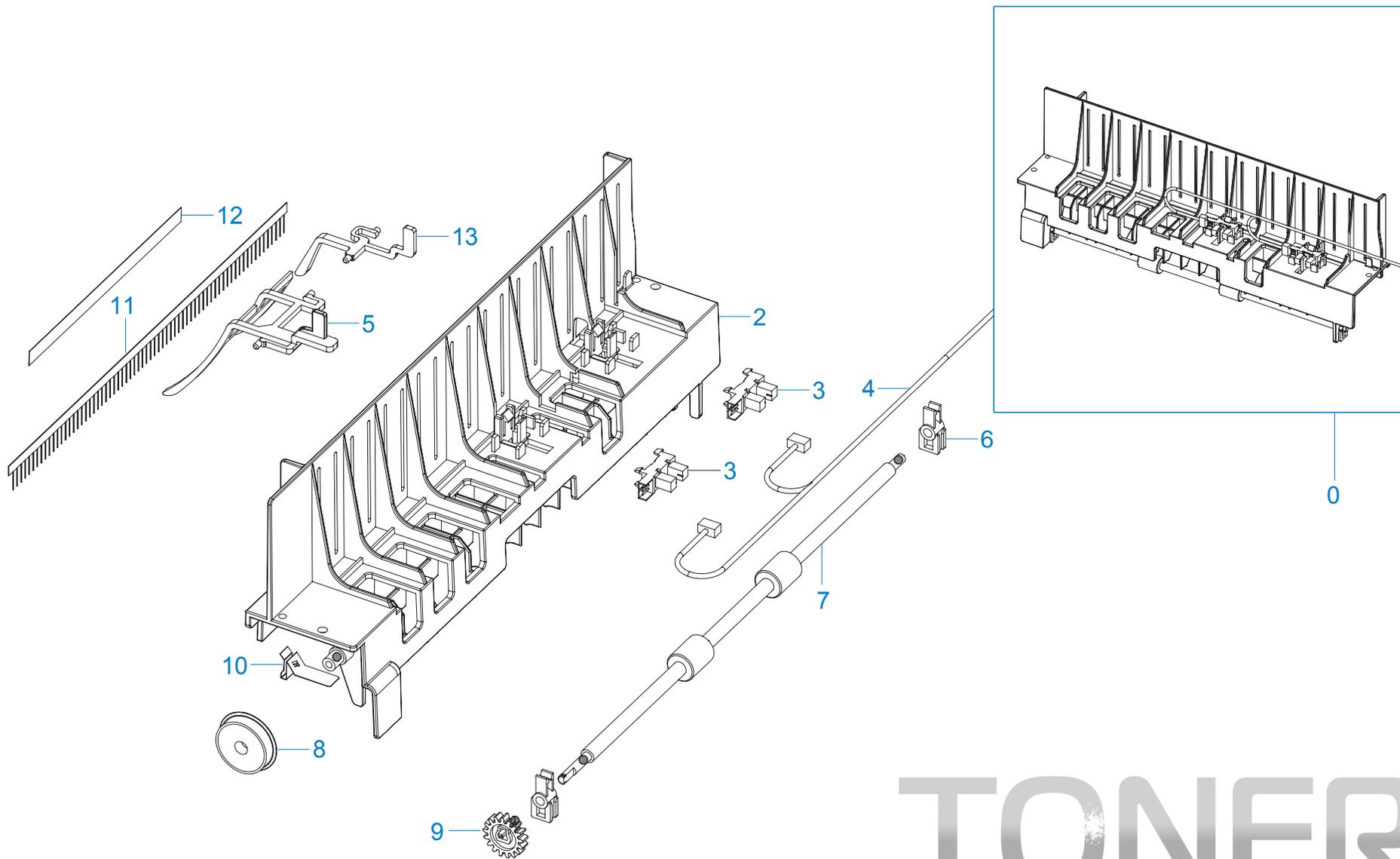
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
8	JC63-00791A	GROUND-P-SPRING SCAN	1	SNA	A	
9	JC72-01430A	SPONGE-TOP1	1	SNA	D	
10	JC72-01431A	SPONGE-TOP2	1	SNA	D	
11	6502-001093	CABLE CLAMP	1	SA	B	
12	6003-000196	SCREW-TAPTITE	7	SA	A	
13	JC39-00863A	HARNESS-ENGINE	1	SA	A	
14	JC92-02096A	PBA-DRIVER	1	SA	A	

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4. ELA HOU-COVER REAR UP

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ELA HOU-COVER REAR UP Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04921B	ELA HOU-COVER REAR UP	1	SA	A	
2	JC63-01690B	COVER-REAR UPPER	1	SNA	B	
3	0604-001095	PHOTO-INTERRUPTER	1	SA	A	
4	JC39-01052A	HARNESS-P_WIDTH	1	SA	D	
5	JC66-01821A	ACTUATOR-BIN FULL	1	SA	D	
6	JC61-00829A	HOLDER-BEARING EXIT F/DOWN	2	SA	A	
7	JC66-01886A	ROLLER-EXIT LOWER	1	SNA	A	

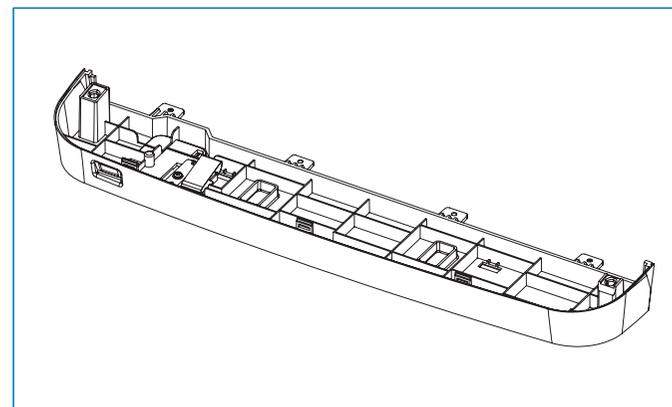
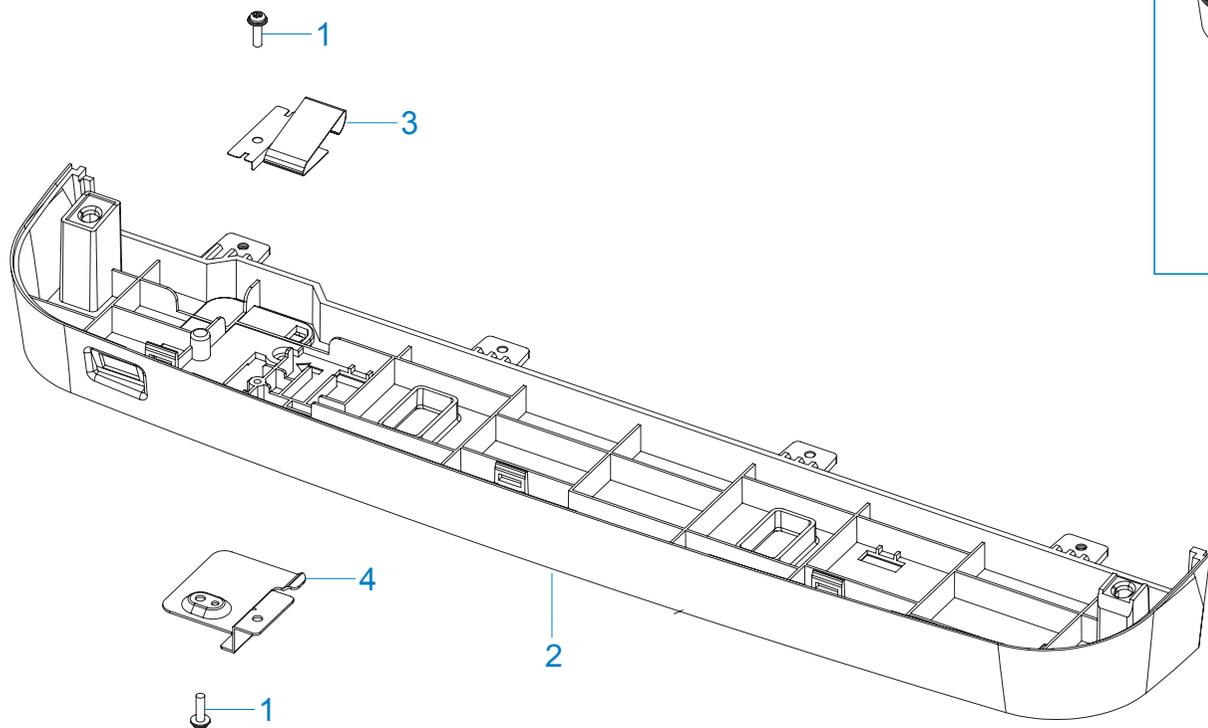
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
8	JC66-01818A	GEAR-EXIT IDLE	1	SNA	B	
9	JC66-40209A	GEAR-EXIT	1	SA	D	
10	JC63-01709A	GROUND-EXIT COVER	1	SNA	B	
11	JC75-00095A	MEC-BRUSH ANTISTATIC	1	SA	B	
12	JC63-01907A	SHEET-BRUSH	1	SNA	B	
13	JC66-02092A	ACTUATOR-PAPER EXIT	1	SA	B	

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5. ELA HOU-LOWER DUMMY

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ELA HOU-LOWER DUMMY Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05478A	ELA HOU-LOWER DUMMY	1	SA	A	SCX-5835FN
0	JC96-05478B	ELA HOU-LOWER DUMMY	1	SA	A	SCX-5935FN
1	6003-000196	SCREW TAPTITE	2	SA	A	
2	JC63-02041A	COVER SCAN LOWER DUMMY	1	SNA	B	SCX-5835FN

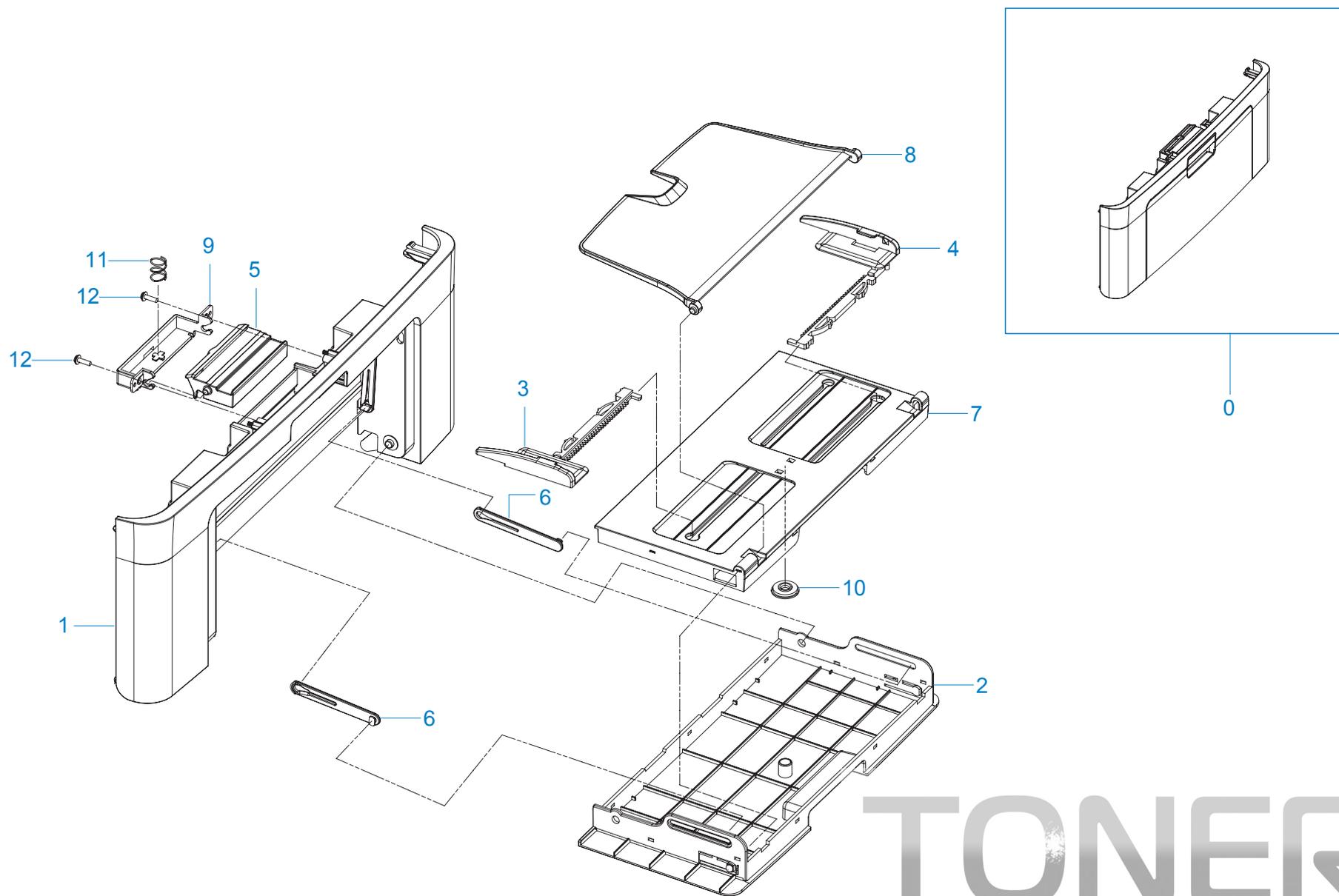
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
2	JC63-02041B	COVER SCAN LOWER DUMMY	1	SNA	B	SCX-5935FN
3	JC63-02044A	GOUND PLATE LCD	1	SNA	B	
4	JC61-02744A	PLATE LCD SUPPORT	1	SNA	A	

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6. MEA COVER FRONT

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MEA COVER FRONT Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC97-03490A	MEA-COVER FRONT	1	SA	A	
1	JC63-02034A	COVER-FRONT	1	SNA	B	
2	JC63-02046A	TRAY-ASF INPUT	1	SNA	B	
3	JC70-00478D	ADJUST-M_MP L	1	SNA	D	
4	JC70-00479D	ADJUST-M_MP R	1	SNA	D	
5	JC64-00439A	LOCKER-FRONT COVER	1	SNA	B	
6	JC63-00444A	TRAY-M-LINK_MP	2	SA	A	

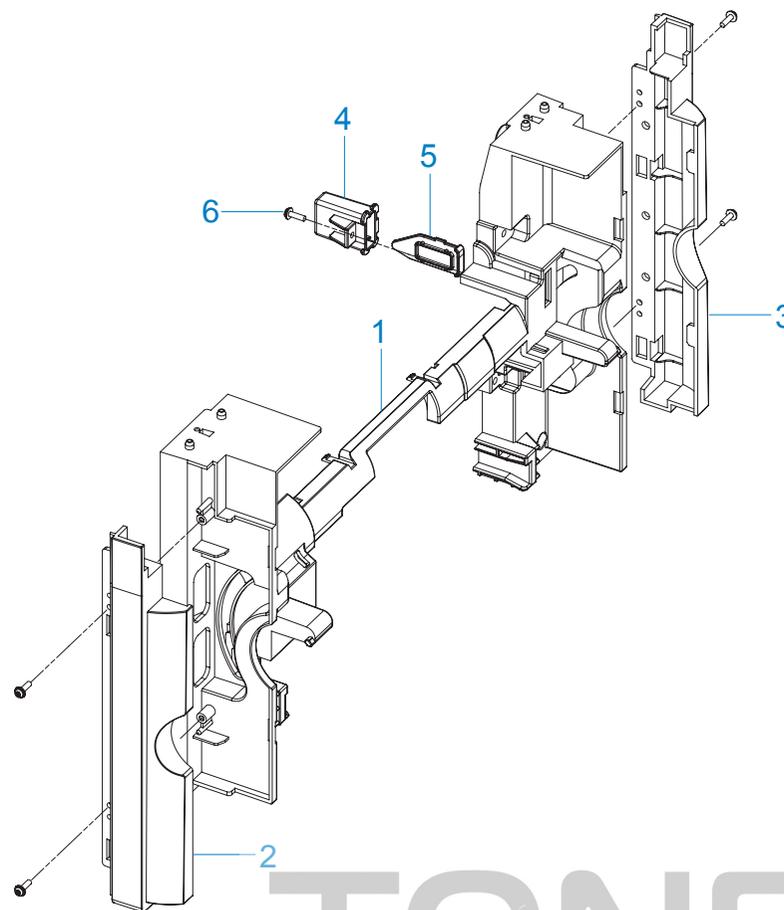
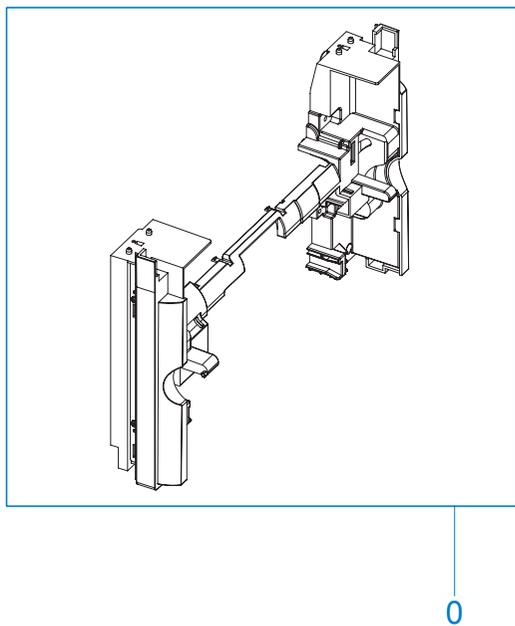
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
7	JC63-00446F	TRAY-COVER_MP	1	SNA	B	
8	JC63-00447F	TRAY-M_EXIT_MP	1	SNA	B	
9	JC61-00953E	HOLDER-LOCKER	1	SA	B	
10	JG66-40003A	GEAR-PINION	1	SA	B	
11	JG61-70549A	SPRING ETC-CIS(C2)	1	SA	B	
12	6003-000196	SCREW-TAPTITE	2	SA	A	

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7. MEA COVER MID FRONT

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MEA COVER MID FRONT Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC97-03491A	MEA-COVER MID FRONT	1	SA	A	
1	JC63-01681B	COVER-MID FRONT	1	SNA	B	
2	JC63-02037A	COVER-SIDE DUMMY L	1	SNA	B	
3	JC63-02038A	COVER-SIDE DUMMY R	1	SNA	B	

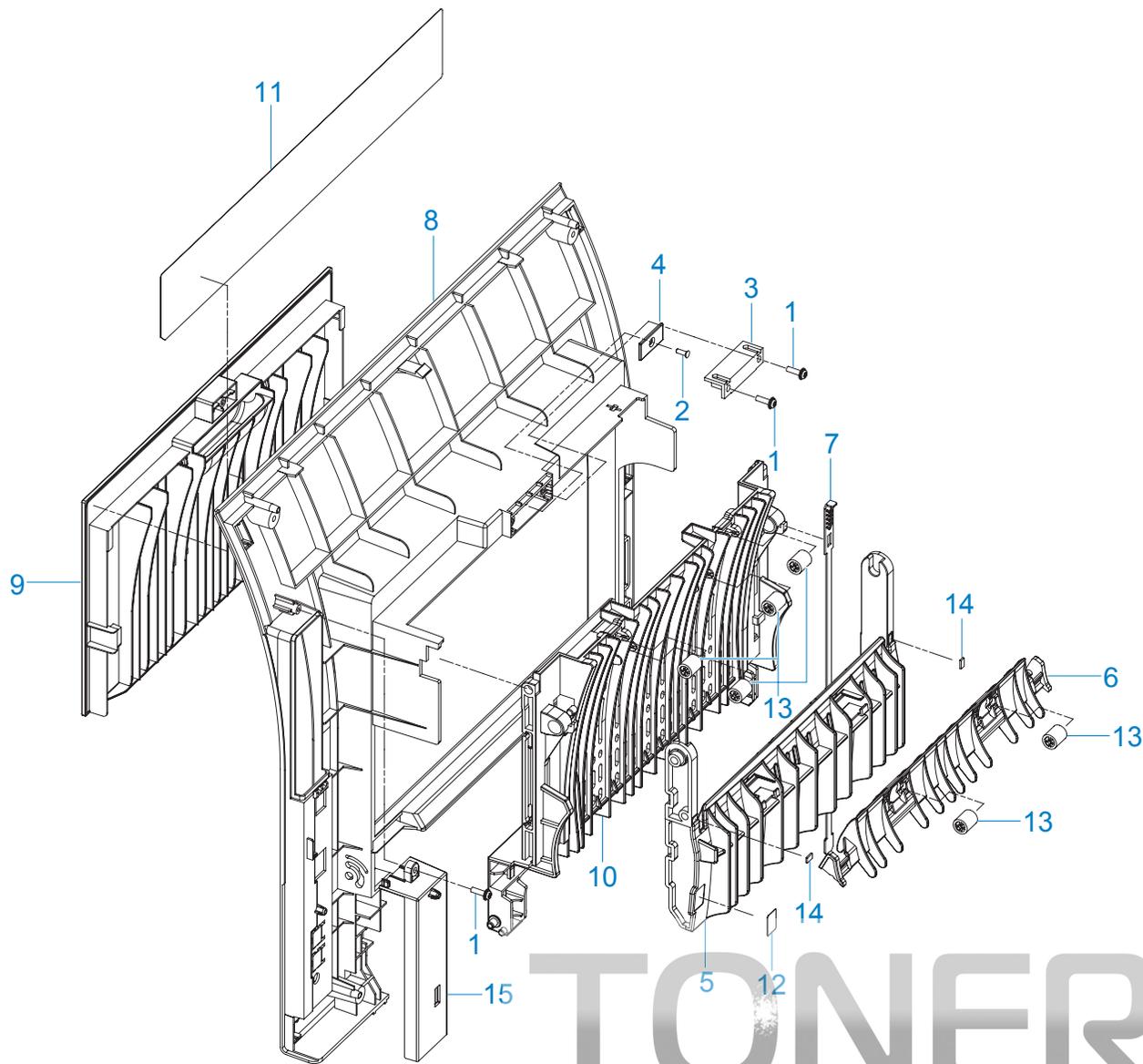
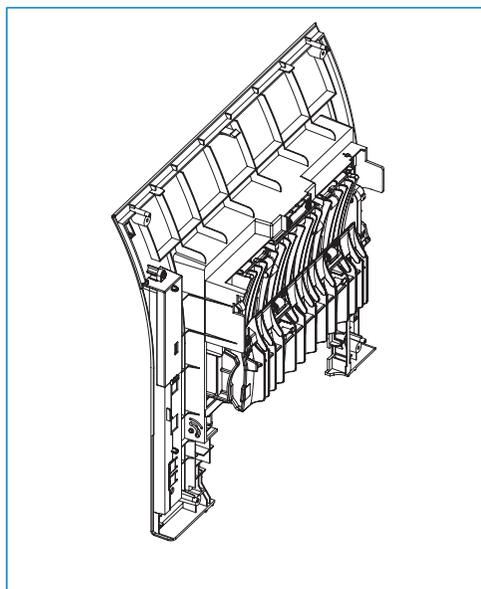
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
4	JC67-00068F	CAP-M-SUB ACTUATOR	1	SNA	B	
5	JC72-01339A	PMO-M-SUB ACTUATOR	1	SNA	D	
6	6003-000196	SCREW-TAPTITE	5	SA	A	

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8. MEA COVER REAR

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MEA COVER REAR Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC97-03492A	MEA-COVER REAR	1	SA	A	
1	6003-000196	SCREW-TAPTITE	3	SA	A	
2	6003-001001	SCREW-TAPTITE	1	SNA	B	
3	JC61-00961A	MAGNET-CATCH DELL	1	SNA	A	
4	JC61-00962A	PLATE-MAGNET CATCH	1	SNA	A	
5	JC61-01583A	GUIDE-OUTPUT FUSER	1	SNA	A	
6	JC61-01944A	GUIDE-OUTPUT F UPPER	1	SNA	B	
7	JC61-01653A	STOPPER-M-STRAP	1	SA	B	

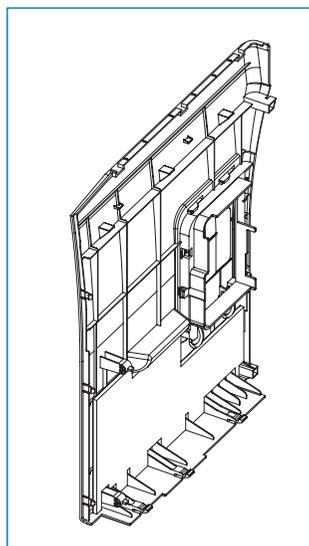
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
8	JC63-01678C	COVER-REAR	1	SNA	B	
9	JC63-00936E	COVER-FACE UP	1	SNA	B	
10	JC63-01691B	COVER-STACKER REAR	1	SNA	B	
11	JC68-02070B	LABEL INFORMATION	1	SA	A	
12	JC68-01669A	LABEL(R)-FUSER	1	SNA	A	
13	JC72-40981A	PMO-ROLLER UPPER DP	6	SA	B	
14	JC72-01403A	SPONGE-GUIDE OUTPUT	2	SNA	B	
15	JC63-02047A	COVER-SUB PANEL	1	SNA	B	

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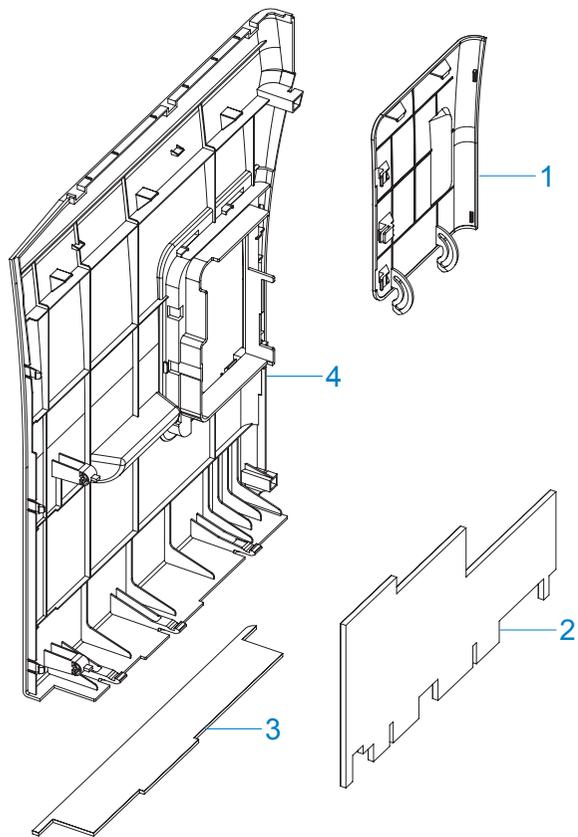
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9. MEA COVER SIDE R_L

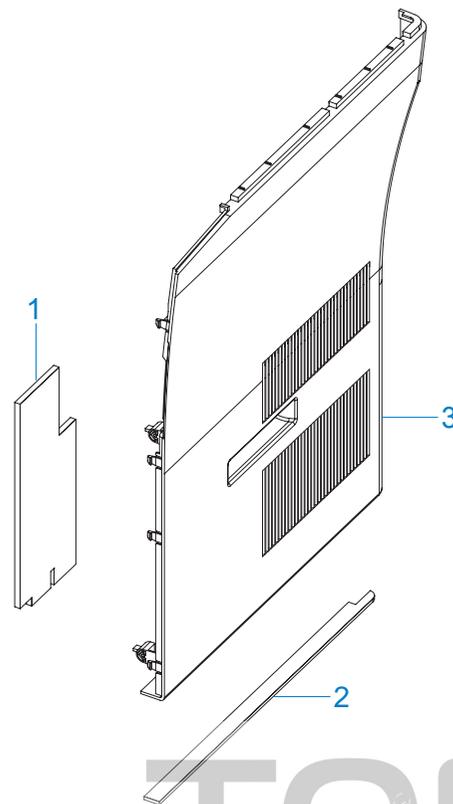
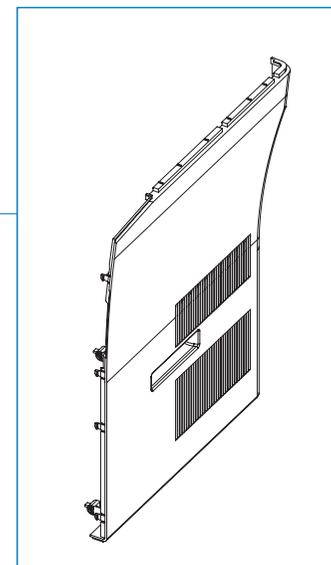
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B



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MEA COVER SIDE R_L Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
A	JC97-03116B	MEA-COVER SIDE L	1	SA	A	
1	JC63-01679B	COVER-DIMM	1	SNA	B	
2	JC72-01434A	SPONGE-SIDE_L1	1	SNA	D	
3	JC72-01435A	SPONGE-SIDE_L2	1	SNA	D	
4	JC63-01680B	COVER SIDE-L	1	SNA	B	

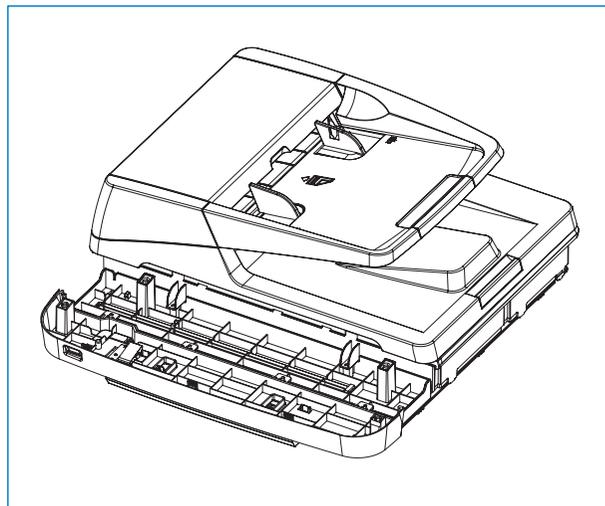
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
B	JC97-03148B	MEA-COVER SIDE R	1	SA	A	
1	JC72-01432A	SPONGE-SIDE R1	1	SNA	D	
2	JC72-01433A	SPONGE-SIDE R2	1	SNA	D	
3	JC63-01685B	COVER SIDE-R	1	SNA	B	

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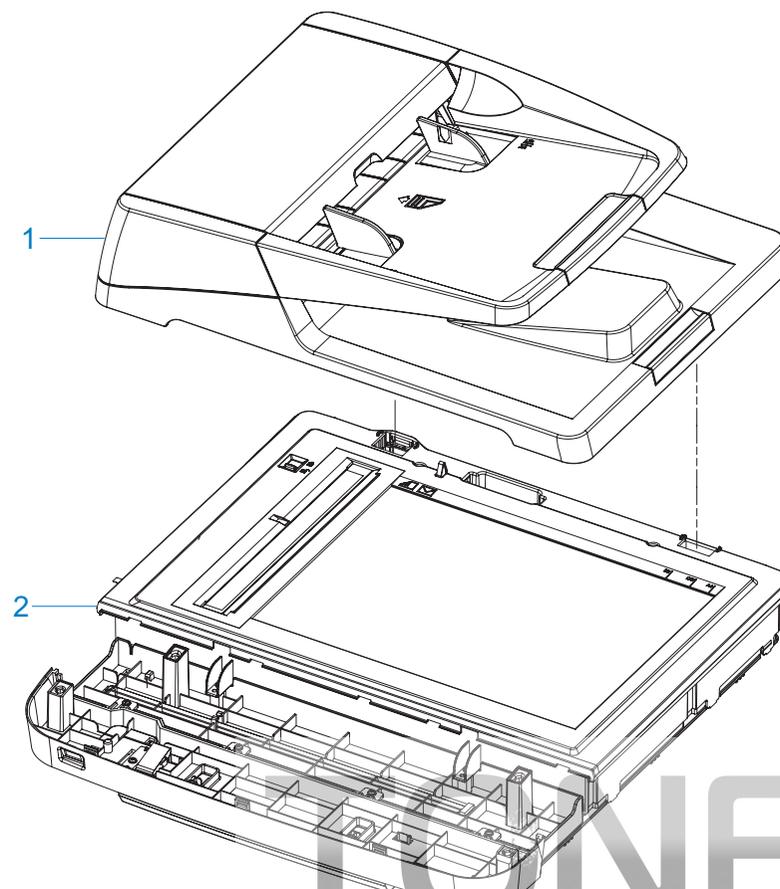
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10. ELA HOU SCAN

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ELA HOU SCAN Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05376A	ELA HOU-SCAN	1	SNA	A	
1	JC96-05378A	ELA HOU-DADF	1	SA	A	

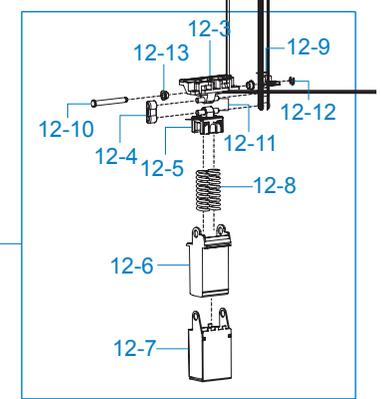
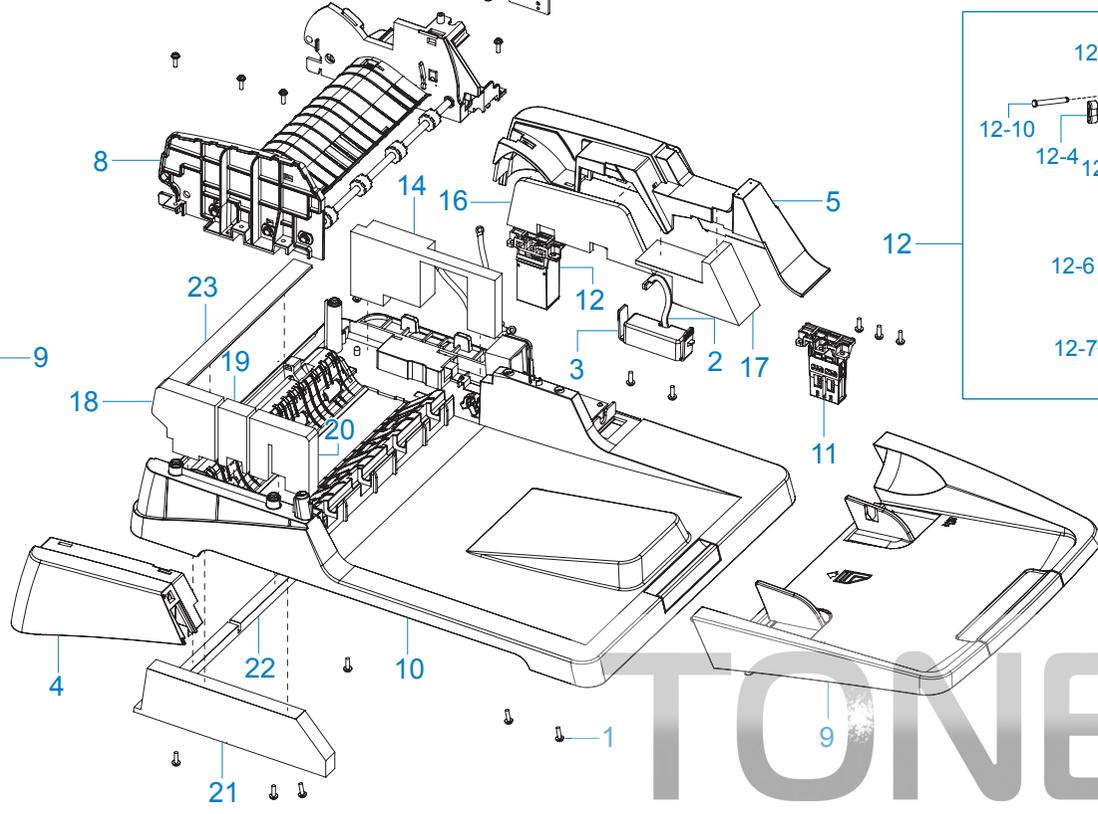
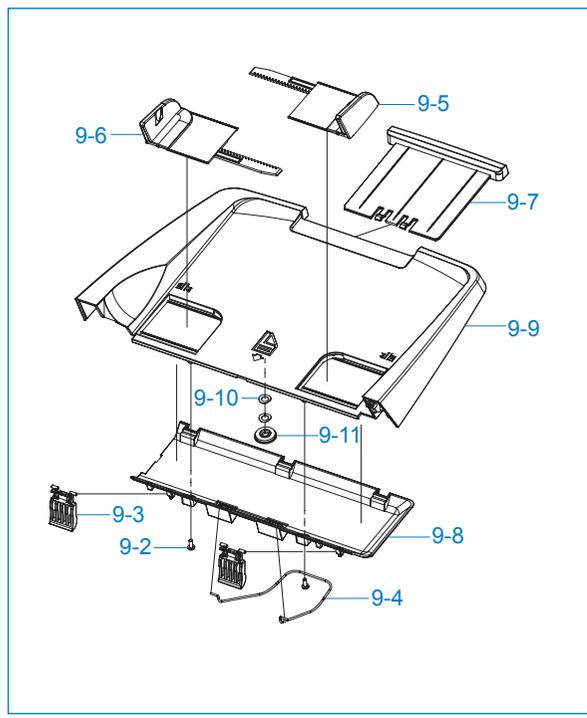
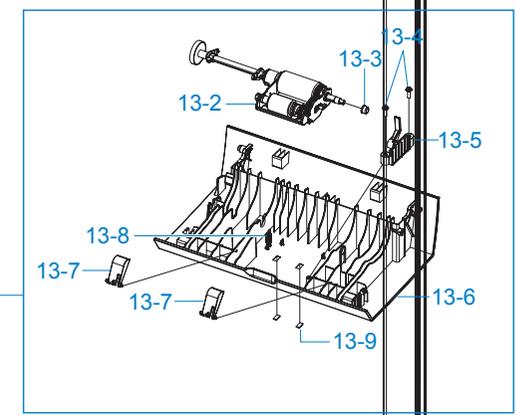
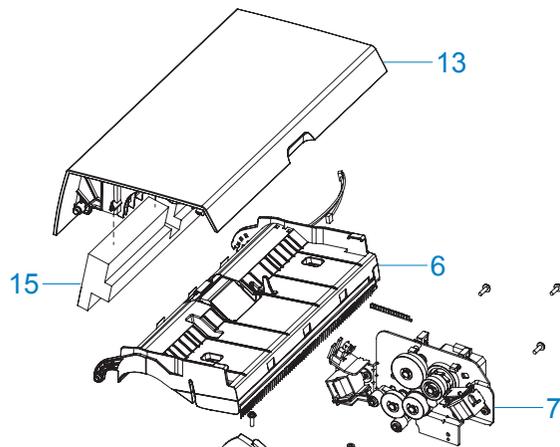
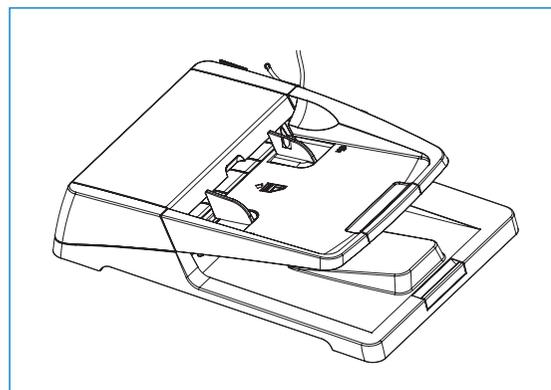
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
2	JC96-05381A	ELA HOU-PLATEN	1	SA	A	

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11. ELA HOU DADF

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ELA HOU DADF Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

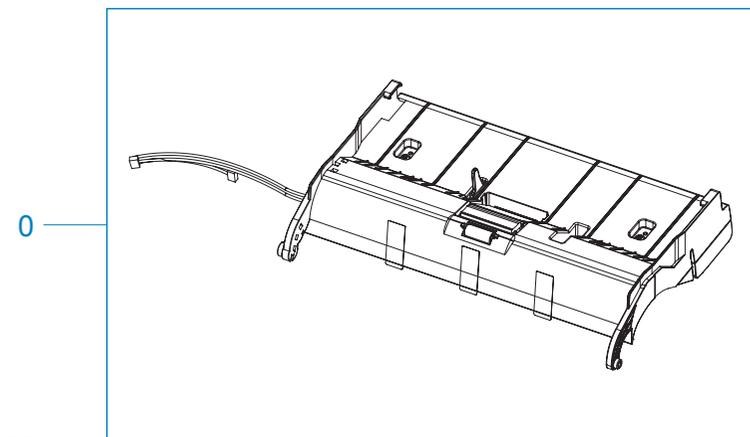
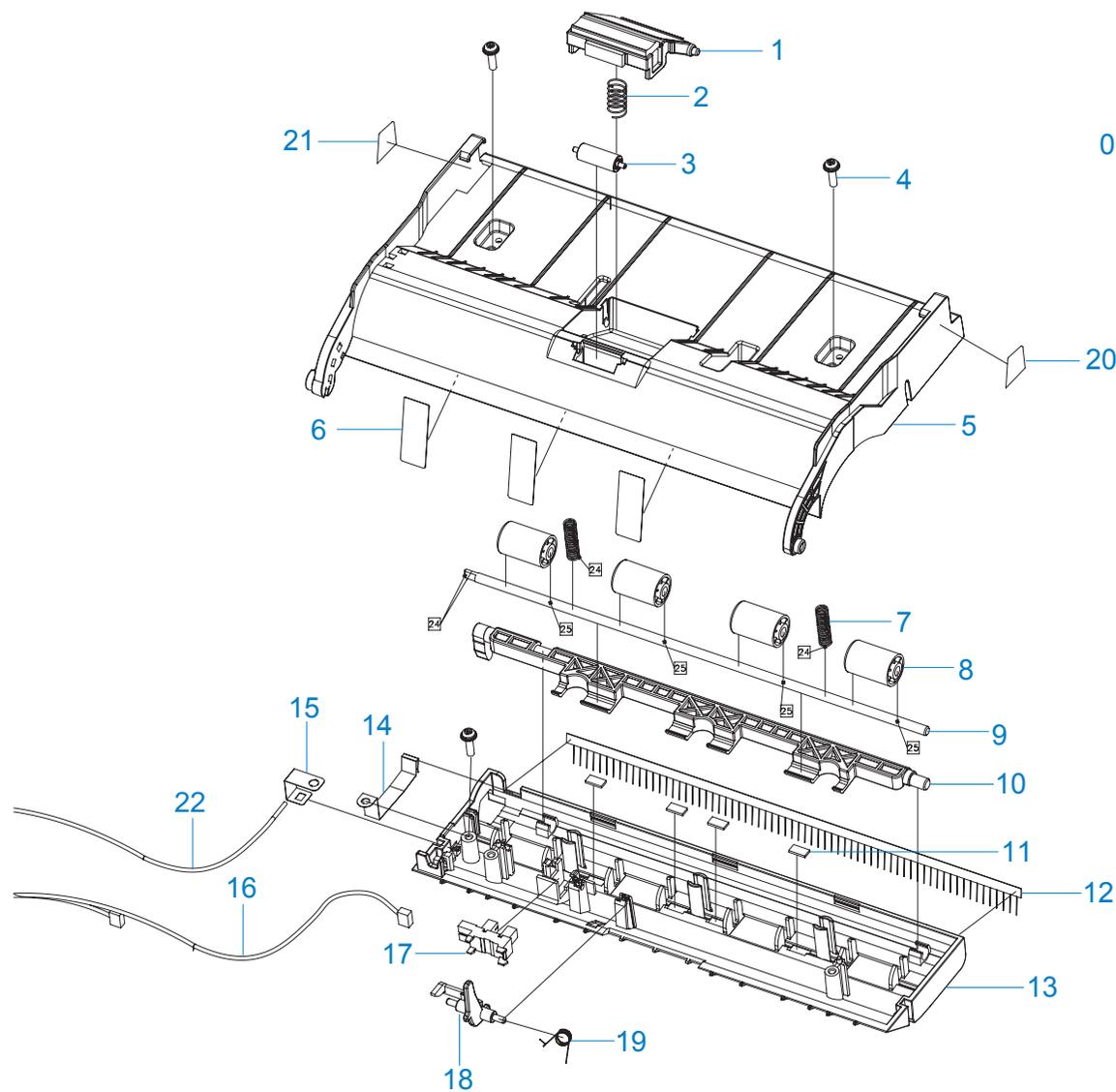
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05378A	ELA HOU-DADF	1	SA	A	
1	6003-000196	SCREW-TAPTITE	24	SA	A	
2	JC39-00851A	HARNESS-DADF UPPER	1	SA	A	
3	JC63-00998D	COVER-ADF CONNECTOR	1	SA	B	
4	JC63-02027A	COVER-DADF FRONT	1	SA	B	
5	JC63-02028A	COVER-DADF REAR	1	SA	B	
6	JC96-04815C	ELA HOU-DADF UPPER	1	SA	A	
7	JC96-04816A	ELA HOU-DADF DRV	1	SA	B	
8	JC96-04818C	ELA HOU-DADF LOWER	1	SA	A	
9	JC96-05377A	ELA HOU-TX STACKER	1	SA	A	
9-2	6003-000282	SCREW-TAPTITE	2	SA	B	
9-3	JC61-02486C	GUIDE-STACKER EXIT	2	SNA	B	
9-4	JC61-02513A	GUIDE-STACKER WIRE	1	SNA	A	
9-5	JC61-02572A	GUIDE-DOC L	1	SNA	A	
9-6	JC61-02573A	GUIDE-DOC R	1	SNA	B	
9-7	JC61-02743A	GUIDE-EXTENSION INPUT	1	SNA	B	
9-8	JC63-02031A	COVER-RACK	1	SNA	B	
9-9	JC63-02032A	COVER-STACKER TX	1	SNA	B	
9-10	JF70-10616A	IPR-WASHER SPRING CU	2	SA	B	
9-11	JG66-40003A	GEAR-PINION	1	SA	B	
10	JC96-05379A	ELA HOU-COVER PLATEN	1	SA	A	
11	JC97-02779A	MEA UNIT-HINGE	1	SA	A	
12	JC97-03038A	MEA UNIT-HINGE_DADF	1	SA	B	
12-3	JC61-02224A	HINGE-PLATEN	1	SNA	B	
12-4	JC61-01432A	HINGE-M_LINK L	2	SNA	A	
12-5	JC61-02223A	HINGE-SLIDER	1	SNA	B	
12-6	JC61-02248A	HINGE-SCAN	1	SNA	B	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
12-7	JC61-02183A	HOUSING-HINGE_SCAN	1	SNA	B	
12-8	6107-001354	SPRING-CS	2	SA	B	
12-9	JC63-01568A	GROUND-HINGE	1	SNA	B	
12-10	JC66-01810A	SHAFT-HINGE	1	SNA	B	
12-11	JC66-01811A	SHAFT-LINK	2	SNA	B	
12-12	6044-000159	RING-C	1	SA	D	
12-13	JC61-01686A	BUSH-4D_FE	2	SNA	B	
13	JC97-03487A	MEA UNIT-COVER OPEN	1	SA	A	
13-2	JC97-03070A	MEA UNIT-PICK UP DADF	1	SA	B	
13-3	JB72-00819A	PMO-BUSH	1	SA	A	
13-4	6003-000196	SCREW-TAPTITE	2	SA	A	
13-5	JC97-03060A	MEA UNIT-STOPPER	1	SA	B	
13-6	JC63-02029A	COVER-OPEN	1	SNA	B	
13-7	JC61-00788A	GUIDE-M_DOC SENSOR	2	SNA	B	
13-8	JC61-02489A	SPRING ETC-PICKUP	1	SA	B	
13-9	JC66-01876A	DAMPER-DADF UPPER	2	SNA	B	
14	JC72-01513A	SPONGE-DADF INNER	1	SNA	D	
15	JC72-01514A	SPONGE-DADF OPEN	1	SNA	D	
16	JC72-01515A	SPONGE-DADF REAR	1	SNA	D	
17	JC72-01516A	SPONGE-DADF REAR DUMMY	1	SNA	D	
18	JC72-01517A	SPONGE-FRONT L	1	SNA	D	
19	JC72-01518A	SPONGE-FRONT M	1	SNA	D	
20	JC72-01519A	SPONGE-FRONT R	1	SNA	D	
21	JC72-01520A	SPONGE-PLATEN FRONT	1	SNA	D	
22	JC72-01521A	SPONGE-PLATEN LOWER	2	SNA	D	
23	JC72-01522A	SPONGE-PLATEN UPPER	1	SNA	D	

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12. ELA HOU-DADF UPPER



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ELA HOU-DADF UPPER Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

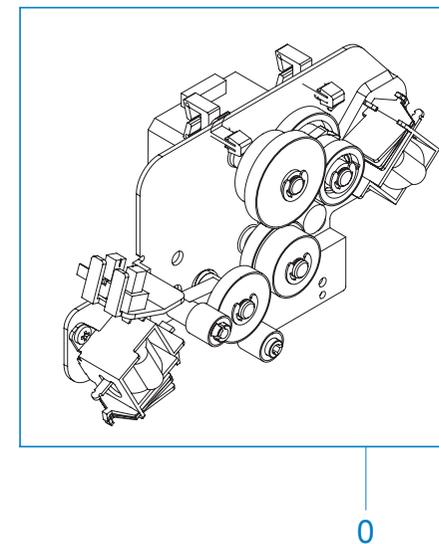
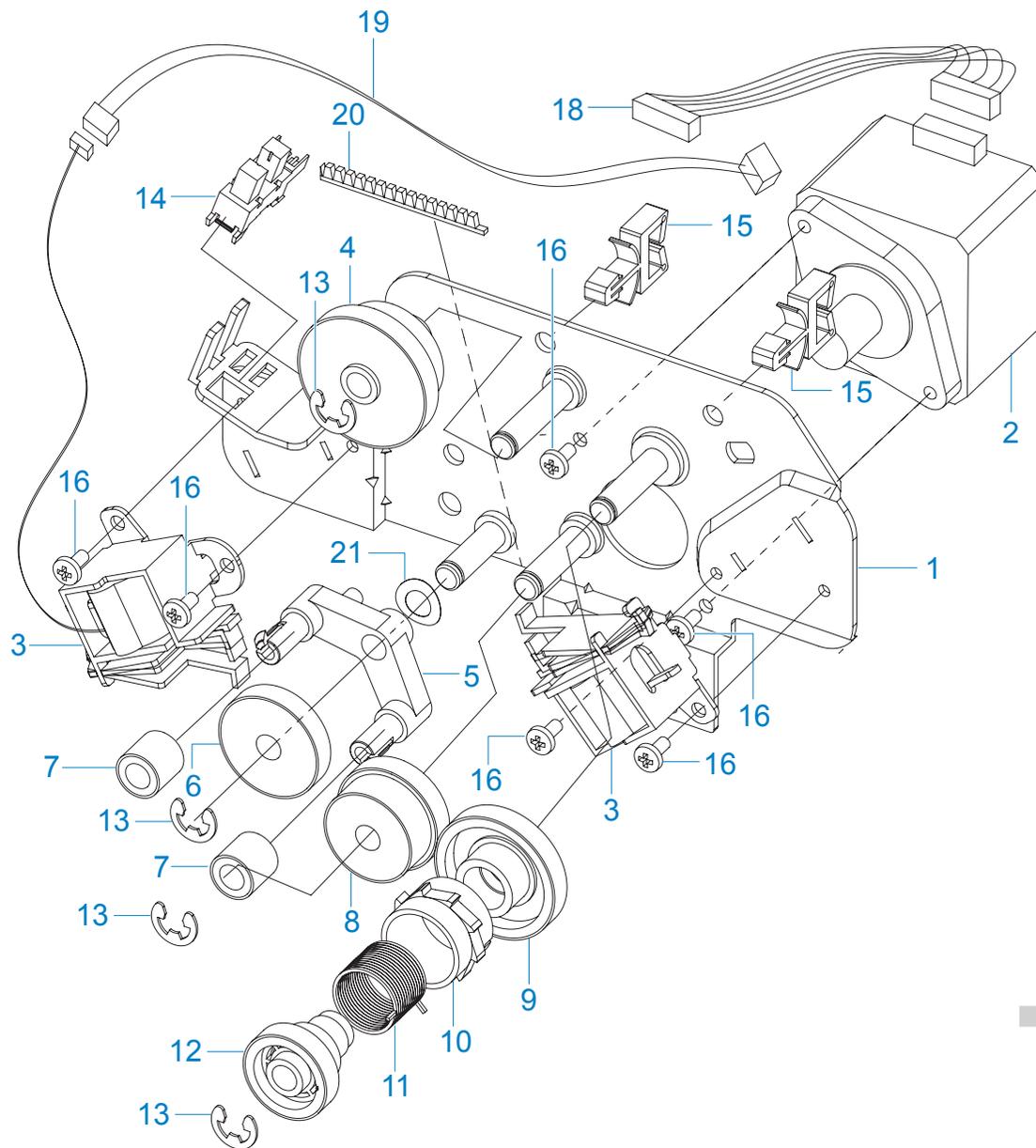
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04815C	ELA HOU-DADF UPPER	1	SA	A	
1	JC97-03069A	MEA UNIT-DADF RUBBER	1	SA	B	
2	JC61-00387A	SPRING ETC-PAD	1	SA	A	
3	JC66-00461A	ROLLER-M-ADF IDLE	1	SA	A	
4	6003-000196	SCREW-TAPTITE	3	SA	A	
5	JC63-01610D	COVER-DADF_UPPER TOP	1	SNA	B	
6	JC63-01776A	SHEET-PATH	3	SA	B	
7	JC61-02428A	SPRING ETC-EXIT IDLE	2	SNA	B	
8	JC66-01022B	ROLLER-M_IDLE SCF	4	SNA	B	
9	JC66-01817A	SHAFT-FEED IDLE	1	SNA	B	
10	JC61-02252A	HOLDER-LIFTING_IDLE	1	SNA	B	
11	JC66-01876A	DAMPER-DADF UPPER	4	SNA	B	
12	JC75-00095A	MEC-BRUSH ANTISTATIC	1	SA	B	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
13	JC63-01622D	COVER-DADF UPPER BT	1	SNA	A	
14	JC63-01664A	GROUND-BRUSH	1	SA	B	
15	JC63-01663A	GROUND-DADF UPPER	1	SA	B	
16	JC39-00854A	HARNESS-DADF SENSOR 2	1	SA	A	
17	0604-001095	PHOTO-INTERRUPTER	1	SA	A	
18	JC66-01765A	ACTUATOR-EMPTY	1	SNA	B	
19	JB61-00076A	SPRING ETC-TORSION DOC(CC2-F)	1	SA	A	
20	JC68-02078A	LABEL-INFORMATION	1	SNA	B	
21	JC68-02079A	LABEL-INFORMATION	1	SNA	B	
22	JC39-00322A	CBF-HARNESS-SCAN GND	1	SNA	A	

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13. ELA HOU-DADF DRV



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ELA HOU-DADF DRV Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

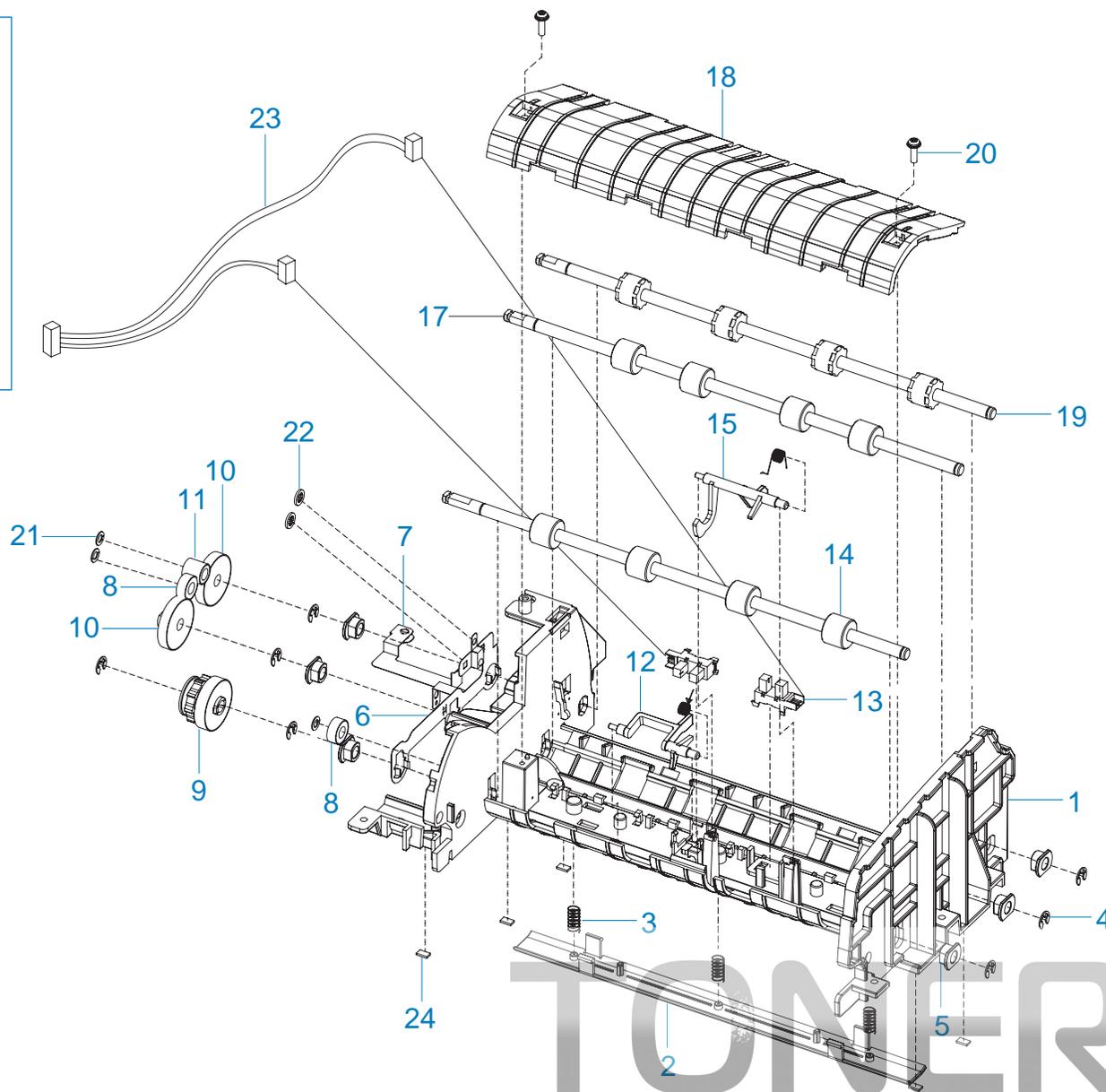
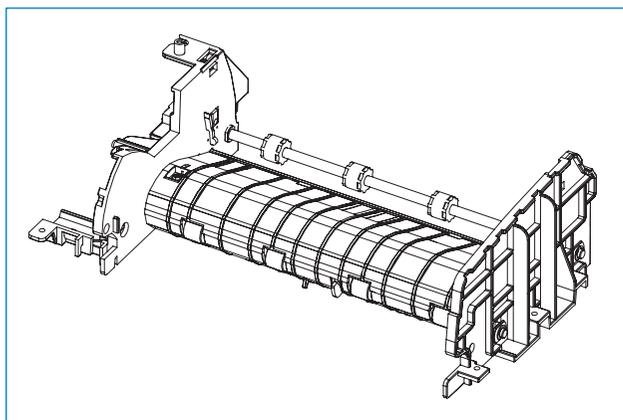
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04816A	ELA HOU-DADF DRV	1	SA	B	
1	JC61-02386A	BRACKET-DRIVE DADF	1	SNA	B	
2	JC31-00096A	MOTOR STEP	1	SA	B	
3	JC33-00030A	SOLENOID-DADF	2	SA	A	
4	JC66-01758A	GEAR-PICKUP IDLE	1	SA	B	
5	JC61-02278A	BRACKET-SWING	1	SNA	B	
6	JC66-01753A	GEAR-FEED IDLE B	1	SA	B	
7	JC66-01754A	GEAR-FEED IDLE C	2	SA	B	
8	JC66-01752A	GEAR-FEED IDLE A	1	SA	B	
9	JC66-01759A	GEAR-PICKUP IDLE LOW	1	SA	B	
10	JC61-02240A	COLLAR-PICKUP	1	SNA	B	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
11	6107-001171	SPRING-TS	1	SA	A	
12	JC66-01760A	GEAR-PICKUP IDLE UPPER	1	SA	B	
13	6044-000125	RING-E	4	SA	A	
14	0604-001095	PHOTO INTERRUPTER	1	SA	A	
15	6502-000132	CABLE CLAMP	2	SA	A	
16	6003-000269	SCREW TAPTITE	6	SA	B	
18	JC39-00852A	HARNESS-DADF MOTOR	1	SA	A	
19	JC39-00855A	HARNESS-DADF REGI SOL	1	SA	A	
20	6302-001056	GASKET	0.13	SNA	A	
21	JF70-10616A	IPR-WASHER SPRING CU	1	SA	B	

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14. ELA_HOU_DADF_LOWER



ELA_HOU_DADF_LOWER Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

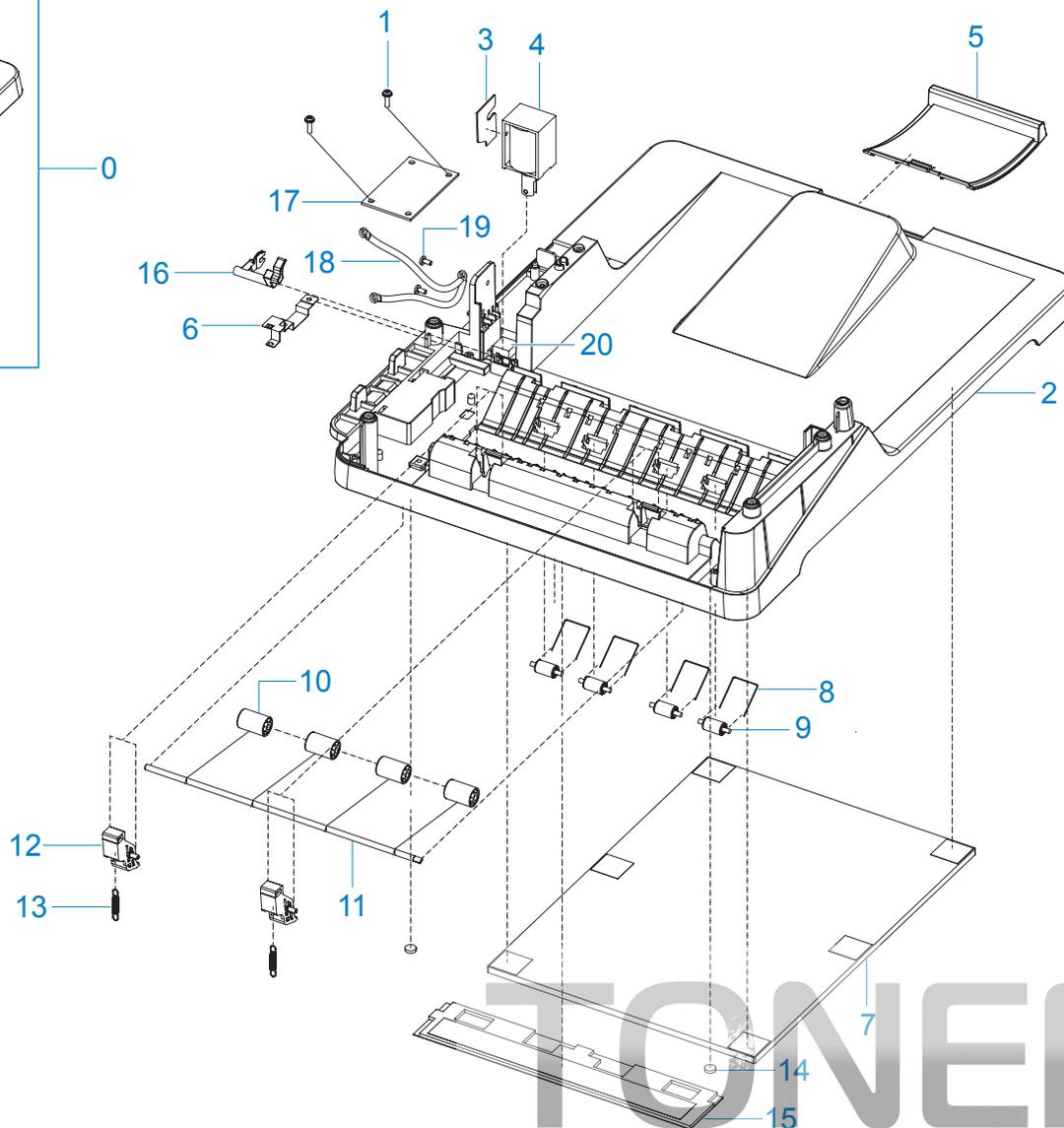
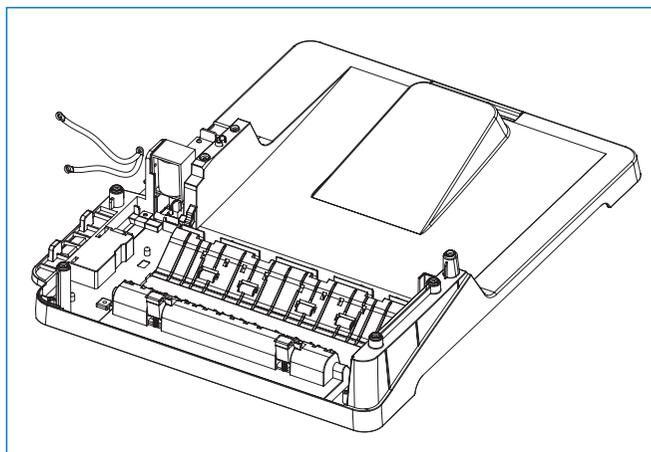
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04818C	ELA HOU-DADF LOWER	1	SA	A	
1	JC63-01589C	COVER-DADF_LOWER	1	SNA	A	
2	JC61-01179A	PLATE-M_WHITE BAR	1	SA	B	
3	6107-001552	SPRING-CS	3	SA	B	
4	6044-000125	RING-E	7	SA	A	
5	JC61-00423A	BUSH-6_D	6	SA	B	
6	JC63-01662A	GROUND-FEED EXIT	1	SA	B	
7	JC63-01661A	GROUND-DADF	1	SA	B	
8	JC66-01755A	GEAR-FEED IDLE D	2	SA	B	
9	JC97-03085A	MEA-GEAR FEED	1	SA	B	
10	JC66-01757A	GEAR-EXIT	2	SA	B	
11	JC66-01754A	GEAR-FEED IDLE C	1	SA	B	
12	JC66-01766A	ACTUATOR-FEED	1	SNA	B	
13	0604-001095	PHOTO-INTERRUPTER	2	SA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
14	JC66-01823A	ROLLER-FEED	1	SA	B	
15	JC66-01762A	ACTUATOR-REGI	1	SNA	B	
16	JB61-00076A	SPRING ETC-TORSION DOC (CC2-F)	2	SA	A	
17	JC66-01822A	ROLLER-MIDDLE	1	SA	A	
18	JC63-01597D	COVER-DADF_MIDDLE	1	SNA	A	
19	JC66-01824A	ROLLER-EXIT	1	SA	A	
20	6003-000196	SCREW-TAPTITE	2	SA	A	
21	6031-001584	WASHER-PLAIN	3	SA	A	
22	6044-000001	RING-CS	2	SNA	A	
23	JC39-00853A	HARNESS-DADF SENSOR 1	1	SA	A	
24	JC72-01403A	SPONGE-GUIDE OUTPUT	5	SNA	B	

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15. ELA_HOU_COVER_PLATEN



ELA_HOU_COVER_PLATEN Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05379A	ELA HOU-COVER PLATEN	1	SA	A	
1	6003-000196	SCREW-TAPTITE	2	SA	A	
2	JC63-02030A	COVER-PLATEN	1	SNA	B	
3	JC69-01327A	PAD-SOLENOID	1	SNA	B	
4	JC33-00031A	SOLENOID-LIFTING	1	SA	A	
5	JC61-02742A	GUIDE-EXTENSION	1	SNA	B	
6	JC63-01660A	GROUND-PLATEN	1	SA	B	
7	JC63-00209A	SHEET-WHITE SPONGE	1	SA	B	
8	JC61-02429A	SPRING ETC-MID IDLE	4	SNA	B	
9	JC66-01764A	ROLLER-IDLE	4	SNA	B	
10	JC66-01022B	ROLLER-M_IDLE SCF	4	SNA	B	

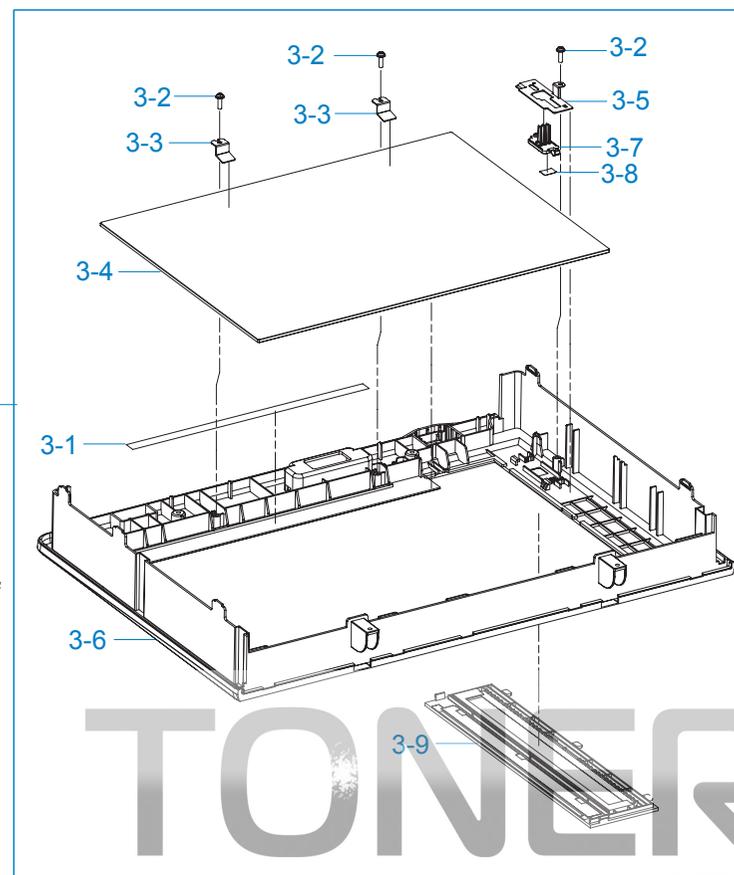
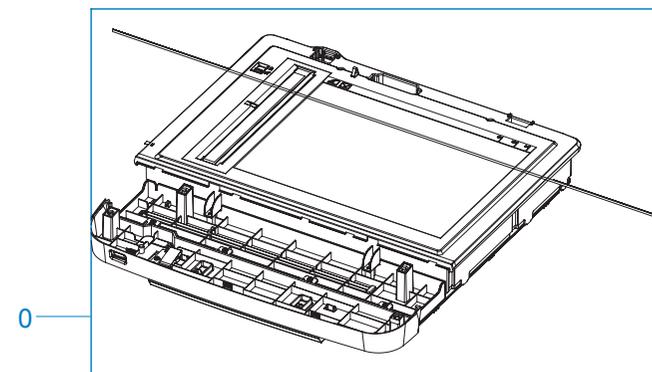
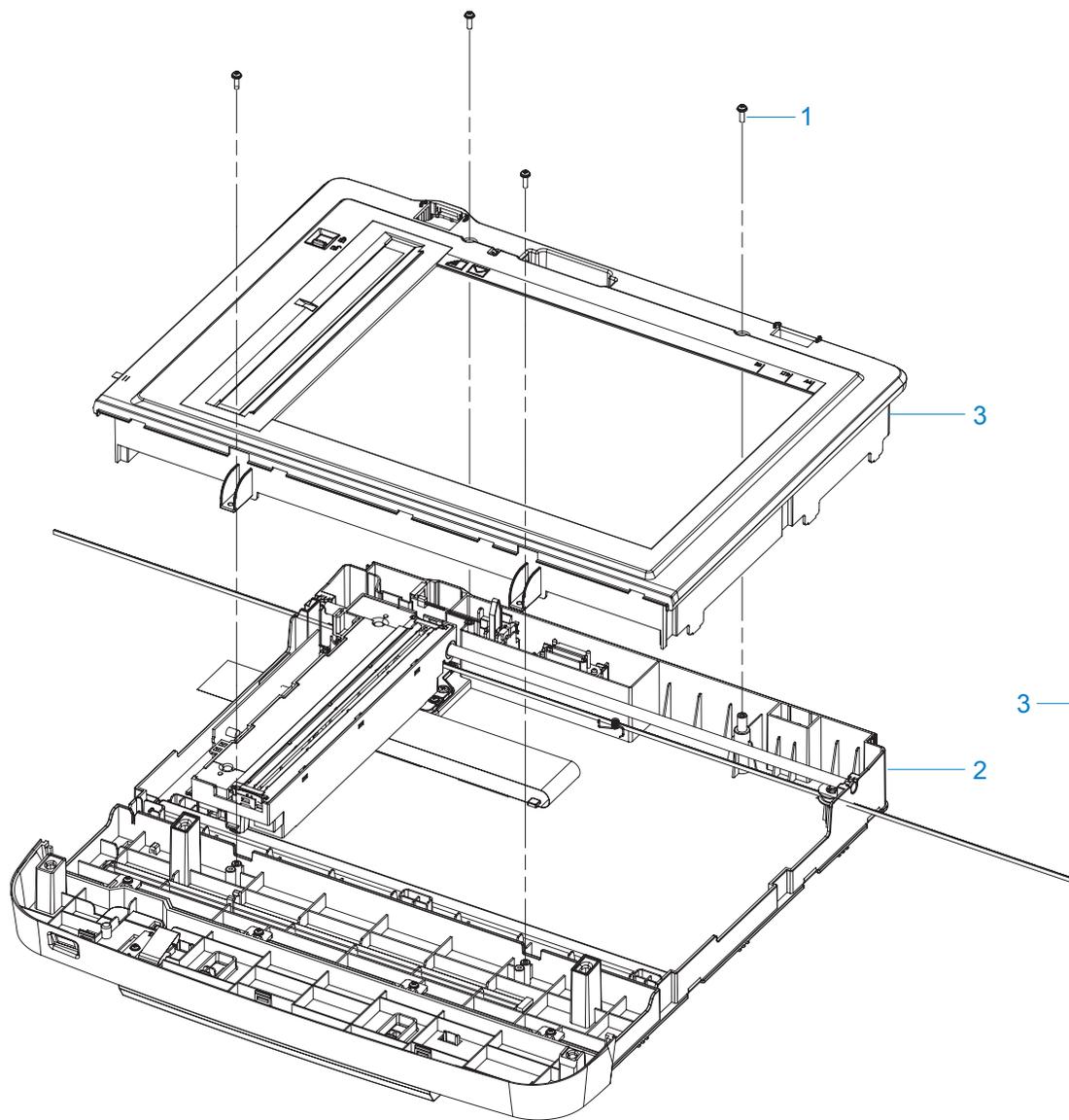
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
11	JC66-01817A	SHAFT-FEED IDLE	1	SNA	B	
12	JC66-01749A	LEVER-JAM_FEED	2	SNA	B	
13	6107-001554	SPRING-ES	2	SNA	B	
14	JC66-02080A	DAMPER-PLATEN	2	SNA	A	
15	JC72-01439A	SPONGE-DADF PLATEN	2	SNA	B	
16	JC66-01774A	LEVER-LIFTING_EXIT	1	SNA	B	
17	JC92-01954A	PBA-DADF	1	SA	B	
18	JC39-00892A	HARNESS-DADF GND	1	SA	A	
19	6001-000130	SCREW-TAPTITE	2	SA	A	
20	JC72-01471A	SPONGE-DADF-LIFTING	1	SNA	B	

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16. ELA HOU-PLATEN

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ELA HOU-PLATEN Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05381A	ELA HOU-PLATEN	1	SA	A	
1	6003-000196	SCREW-TAPTITE	4	SA	A	
2	JC96-05382A	ELA HOU-SCAN LOWER	1	SNA	A	
3	JC97-03488A	MEA-SCAN UPPER	1	SA	A	
3-1	0203-001267	TAPE-DOUBLE FACE	1	SNA	A	
3-2	6003-000196	SCREW-TAPTITE	1	SA	A	
3-3	JB70-00148A	IPR-HOLDER GLASS	1	SA	D	

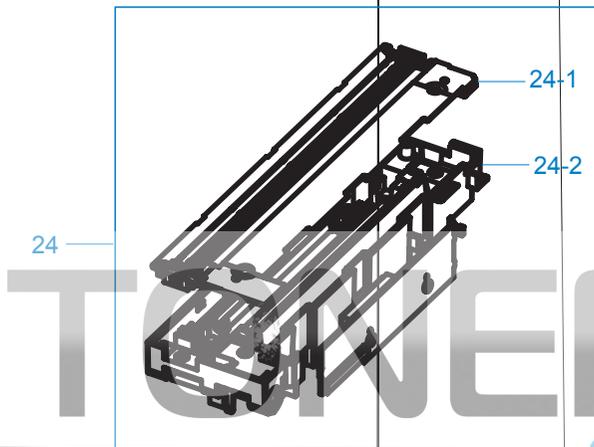
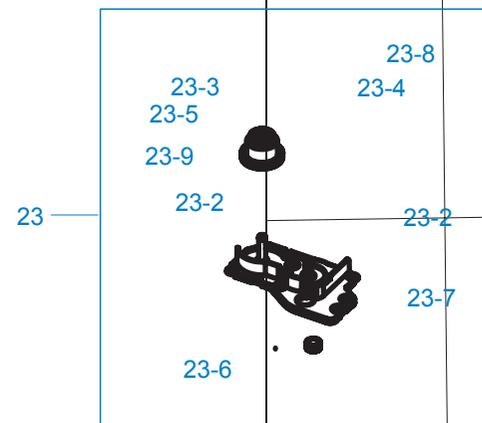
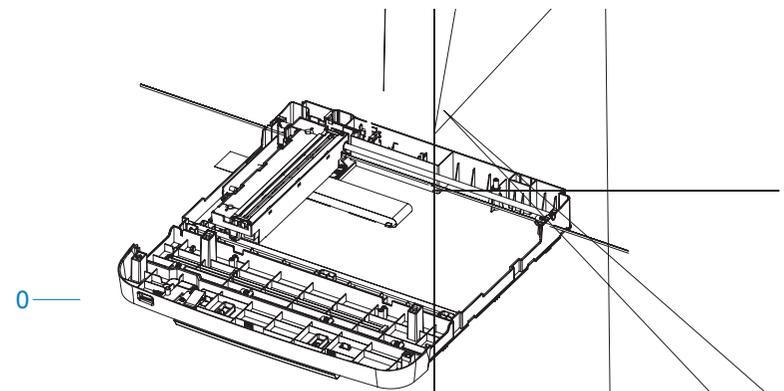
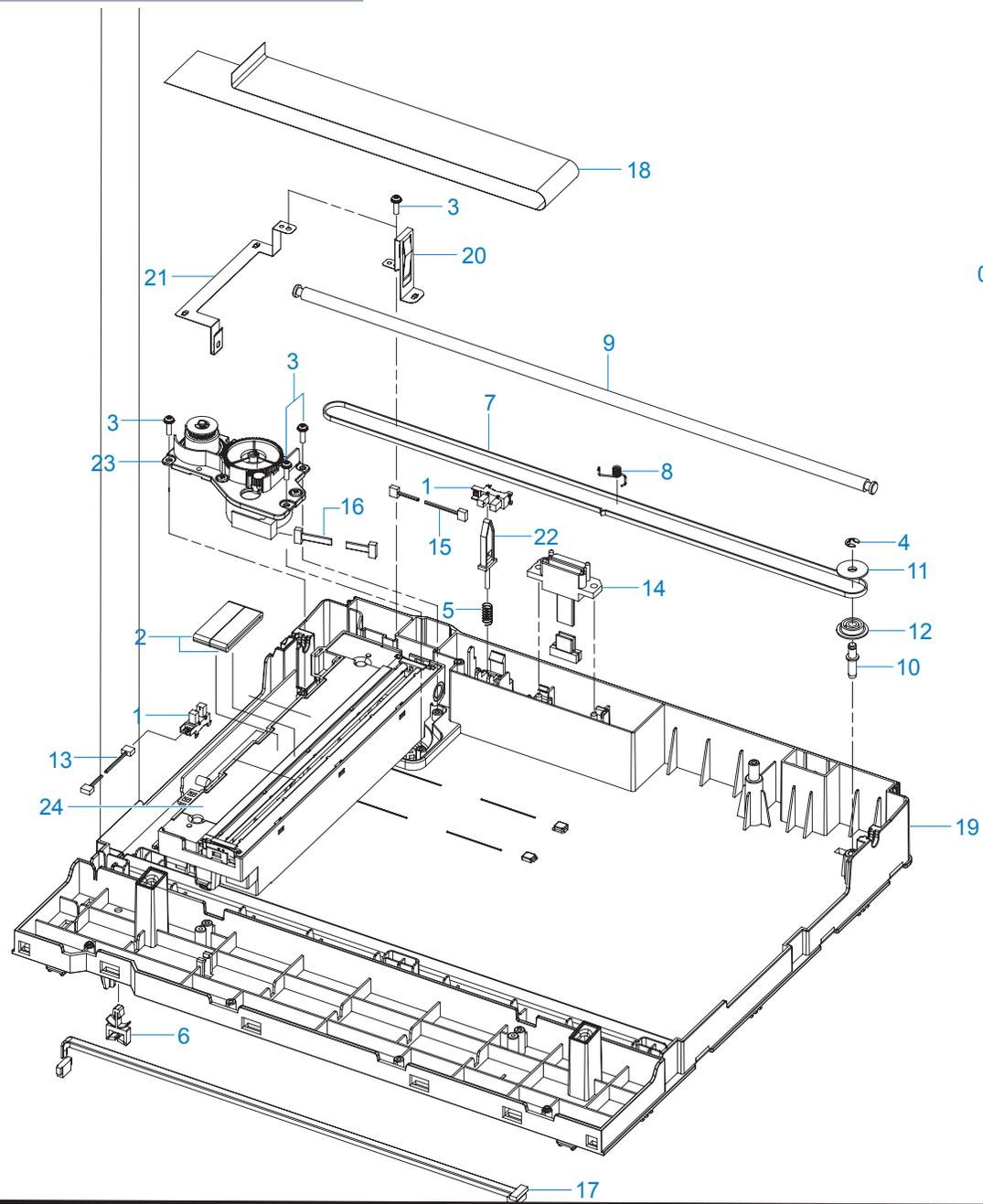
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
3-4	JC01-00001A	GLASS-SCAN	1	SA	B	
3-5	JC61-01987A	BRACKET-LOCKER	1	SNA	B	
3-6	JC63-02042A	COVER-SCAN UPPER	1	SNA	D	
3-7	JC66-01523C	LEVER-LOCKER	1	SNA	D	
3-8	JC68-01991B	LABEL-INFORMATION	1	SNA	A	
3-9	JC97-03489A	MEA-SCAN DUMMY UPPER	1	SA	A	

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17. ELA HOU-SCAN LOWER

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ELA HOU-SCAN LOWER Parts List

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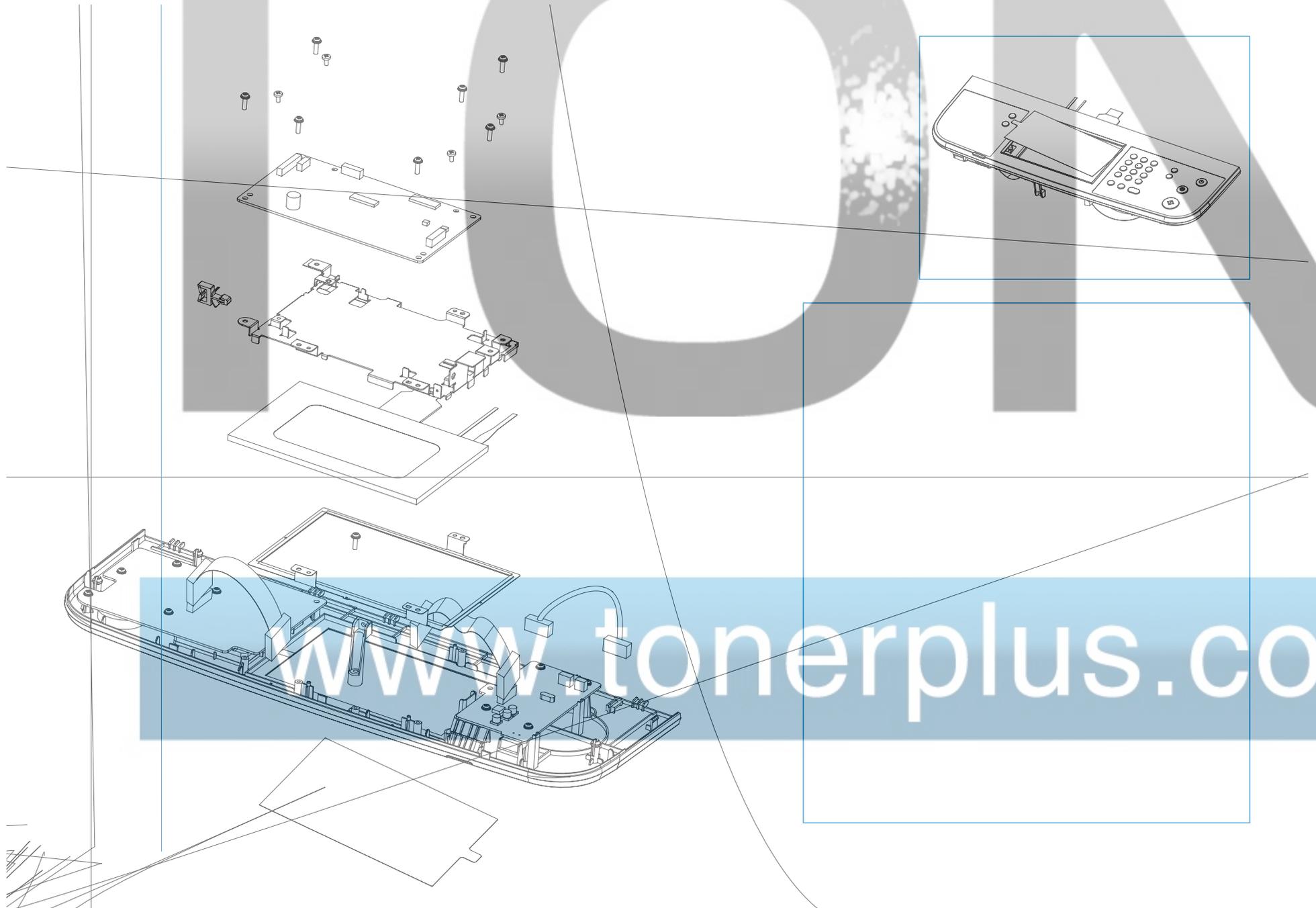
SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05382A	ELA HOU-SCAN LOWER	1	SNA	A	
1	0604-001095	PHOTO-INTERRUPTER	2	SA	A	
2	3301-001900	CORE-FERRITE	2	SNA	B	
3	6003-000196	SCREW-TAPTITE	4	SA	A	
4	6044-000125	RING-E	1	SA	A	
5	6107-001135	SPRING-CS	1	SA	A	
6	6502-000132	CABLE CLAMP	1	SA	A	
7	6602-001067	BELT-TIMING GEAR	1	SA	A	
8	JB61-00059A	SPRING ETC-BELT	1	SA	A	
9	JB70-00145A	ICT-SHAFT CCD	1	SNA	B	
10	JB70-00154A	ICT-INSERT SHAFT	1	SNA	D	
11	JB72-00763A	PMO-PULLEY	1	SA	D	
12	JB72-00764A	PMO-HOLDER BELT	1	SA	D	
13	JC39-00870A	HARNESS-CCD_HOME	1	SA	A	
14	JC39-00871A	HARNESS-DADF_MAIN	1	SA	A	
15	JC39-00887A	HARNESS-F_COVER_OPEN	1	SA	A	
16	JC39-00890A	HARNESS-SCAN MOTOR	1	SA	B	
17	JC39-01033A	HARNESS-OPE_MAIN	1	SA	B	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
18	JC39-01042A	FLAT CABLE	1	SA	D	
19	JC63-01694B	COVER-SCAN LOWER	1	SNA	B	
20	JC63-01704A	GROUND-HINGE SCAN	1	SNA	B	
21	JC63-01707A	GROUND-SCAN LOWER	1	SNA	B	
22	JC72-00755A	PMO-LEVER SENSOR	1	SA	B	
23	JC96-04918A	ELA HOU-SCAN MOTOR	1	SA	A	
23-2	6003-000269	SCREW-TAPTITE	2	SA	B	
23-3	6044-000125	RING-E	1	SA	A	
23-4	JB66-00083A	GEAR-IDLE	1	SA	B	
23-5	JB72-00764A	PMO-HOLDER BELT	1	SA	D	
23-6	JC31-00104A	MOTOR-STEP	1	SA	A	
23-7	JC61-00895A	BRACKET-SCAN MOTOR R2	1	SA	A	
23-8	JC66-00530A	GEAR-REDUCTION 73/37	1	SA	B	
23-9	JC66-00531A	GEAR-TIMING	1	SA	A	
24	JC96-05207A	ELA UNIT-LED MIDDLE VE	1	SA	B	
24-1	JC97-03523A	MEA UNIT-COVER LMVE	1	SNA	A	
24-2	JC97-03525A	MEA UNIT-FRAME ASSY	1	SNA	A	

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ELA HOU-OPE Parts List

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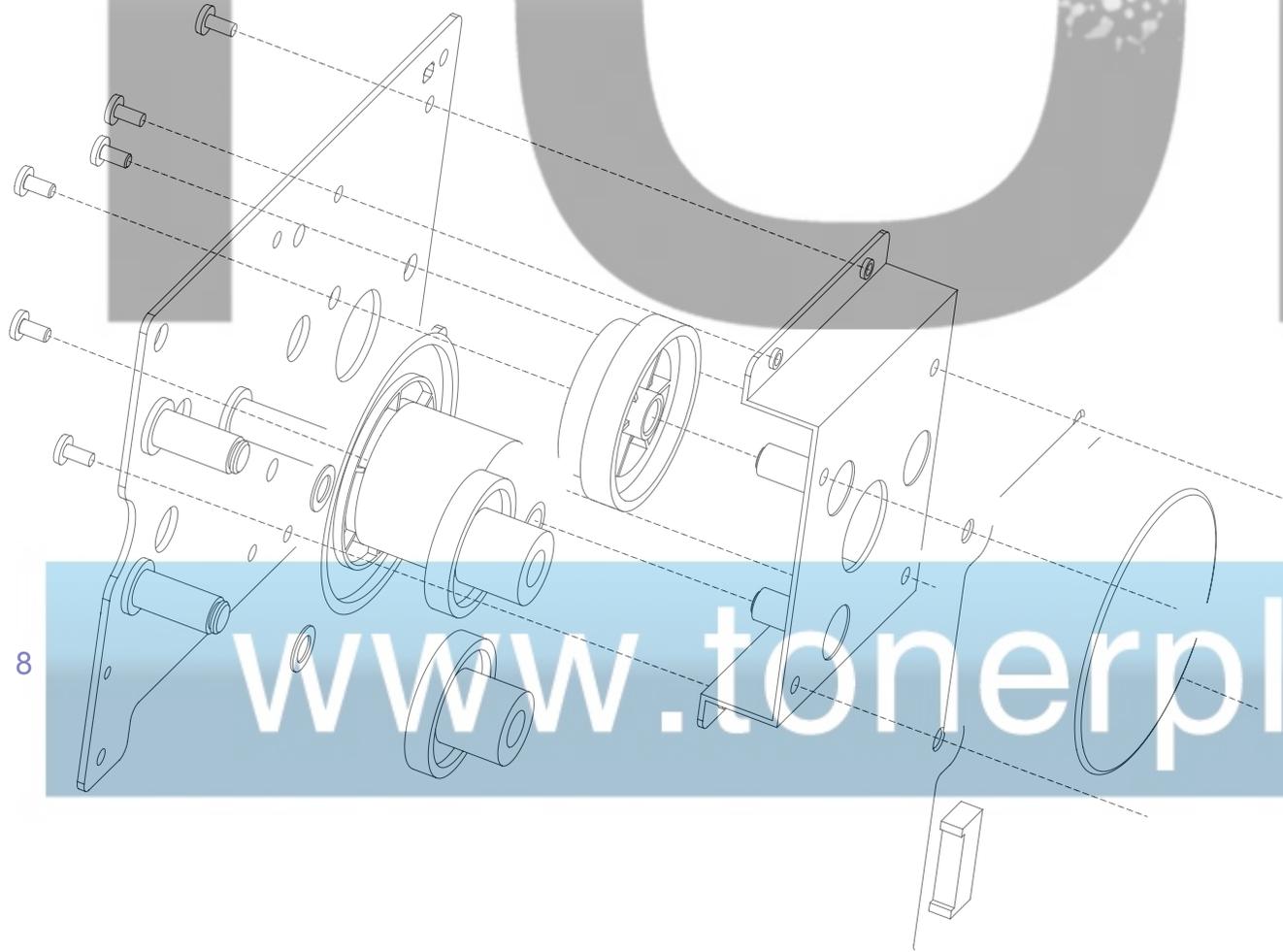
SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05372B	ELA HOU-OPE	1	SNA	A	
1	6003-000196	SCREW-TAPTITE	8	SA	A	
2	6003-000269	SCREW-TAPTITE	4	SA	B	
3	6502-000132	CABLE CLAMP	1	SA	A	
4	JC07-00011A	LCD	1	SA	A	
5	JC39-01043A	HARNESS-OPE HUB	1	SA	B	
6	JC63-01784A	SHEET-LCD	1	SA	D	
7	JC92-02045D	PBA-OPE	1	SA	A	
8	JC96-05373B	ELA HOU-OPE COVER	1	SNA	A	
8-1	6003-000196	SCREW-TAPTITE	11	SA	A	
8-2	JC39-00874A	HARNESS-OPE_KEY	1	SA	A	
8-3	JC39-00875A	HARNESS-OPE_KEY_SUB	1	SA	A	
8-4	JC64-00438A	KEY INTERRUPT	1	SA	B	
8-5	JC63-02043A	COVER-OPE	1	SNA	B	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
8-6	JC64-00436A	KEY-JOB STATUS	1	SNA	B	
8-7	JC64-00437A	KEY-NUMERICAL	1	SNA	B	
8-8	JC64-00335A	KEY-POWER	1	SA	D	
8-9	JC64-00289A	KEY-STOP	1	SA	B	
8-10	JC64-00290A	KEY-START	1	SA	B	
8-11	JC67-00333A	LENS-STATUS	1	SNA	B	
8-12	JC73-00287A	RUBBER-START	1	SA	D	
8-13	JC73-00288A	RUBBER-JOB STATUS	1	SA	D	
8-14	JC92-02072A	PBA-OPE_KEY	1	SA	B	
8-15	JC92-02073A	PBA-OPE_KEY_SUB	1	SA	B	
9	JC97-03138A	MEA UNIT-PLATE LCD	1	SNA	A	
10	JC97-03486A	MEA UNIT-PLATE OPE	1	SNA	A	
11	JC61-02820A	HOLDER-OPE	1	SNA	D	

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ELA UNIT-MAIN DRIVE Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-03761B	ELA UNIT-MAIN DRIVE	1	SA	A	
2	6001-000130	SCREW-MACHINE	3	SA	A	
3	6003-000301	SCREW-TAPTITE	4	SNA	B	
4	6003-000269	SCREW-TAPTITE	4	SA	B	
5	6031-000023	WASHER-PLAIN	2	SA	A	
6	6302-001056	GASKET	0.4	SNA	A	
7	JC31-00101A	MOTOR BLDC	1	SA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
8	JC61-01593A	BRACKET-P-GEAR MAIN	1	SNA	A	
9	JC61-01597A	BRACKET-P-MOTOR MAIN	1	SNA	A	
10	JC66-01156A	GEAR-OPC RDCN 93/61	1	SNA	A	
11	JC66-01157A	GEAR-OPC DRV 113/33	1	SNA	A	
12	JC66-01162A	GEAR-FEED RDCN 55/18	2	SNA	A	

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ELA HOU-FRAME Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04916D	ELA HOU-FRAME	1	SNA	B	
1	6003-000196	SCREW-TAPTITE	5	SA	A	
2	JC64-00224B	HANDLE-M-FUSER_DURAND	4	SA	A	
3	JC96-05152A	ELA HOU-COVER SMPS	1	SNA	A	
3-1	JC31-00108A	FAN	1	SA	A	
3-2	JC39-00911A	HARNESS-SMPS_FAN	1	SA	B	
3-3	JC63-01740A	COVER-SMPS	1	SA	D	
4	JC96-04925B	ELA HOU-FRAME ETC	1	SNA	A	
5	JC39-00862A	HARNESS-SMPS	1	SA	A	
6	JC96-05063A	ELA UNIT-FUSER	1	SA	B	110V

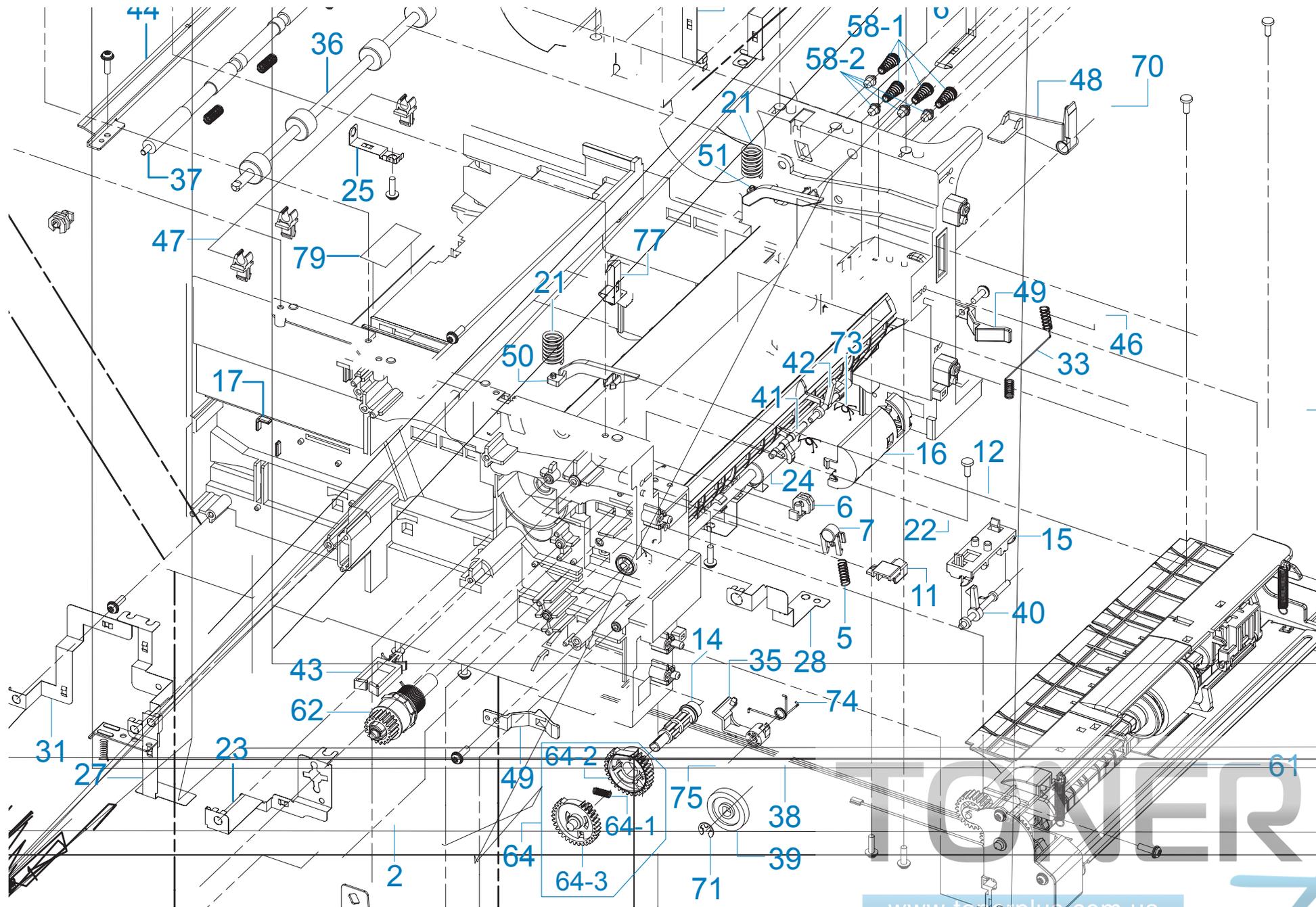
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
6	JC96-05064A	ELA UNIT-FUSER	1	SA	B	220V
7	JC96-05146A	ELA HOU-SMPS	1	SA	A	110V
7	JC96-05147A	ELA HOU-SMPS	1	SA	A	220V
7-1	6003-000301	SCREW-TAPTITE	1	SNA	B	
7-2	6003-000269	SCREW-TAPTITE	4	SA	B	
7-3	JC63-00913A	SHIELD-P-SMPS	1	SNA	A	
7-4	JC63-00960A	SHEET-INSULATOR_SMPS	1	SNA	A	
7-5	JC39-00523A	CBF HARNESS-AC INLET	1	SA	A	
7-6	JC44-00097C	SMPS-V1	1	SA	A	110V
7-6	JC44-00090C	SMPS-V2C	1	SA	A	220V

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ELA HOU-FRAME ETC (Enlargement)

Ver. 1.00



ELA HOU-FRAME ETC Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04925B	ELA HOU-FRAME ETC	1	SNA	A	
1	JC31-00107A	FAN-DC	1	SA	A	
2	JC33-00025B	SOLENOID-MANUAL	1	SA	A	
3	JC33-00027B	SOLENOID-FEED	1	SA	A	
4	JC39-00880A	HARNESS-SOLENOID	1	SA	A	
5	6107-001370	SPRING CS	1	SA	B	
6	JC61-00585A	BUSH-M-FEED IDLE	2	SA	B	
7	JC61-00588A	BUSH-M-TR L	1	SNA	D	
8	JC61-00604B	PLATE-E_SAW	1	SA	A	
9	JC61-01943A	GUIDE-TR	1	SNA	A	
10	JC61-00835A	FOOT-BACK	2	SA	A	
11	JC61-00907A	HOLDER-M-PTL R2	1	SA	D	
12	JC61-00914A	PLATE-P-PUSH BUSHING	2	SA	A	
13	JC61-01584A	HOUSING-M_TERMINAL	1	SNA	A	
14	JC61-01602A	HOLDER-M_PICK UP	1	SNA	A	
15	JC61-01618A	HOLDER-M_ACT FEED	1	SNA	A	
16	JC61-01619A	HOLDER-M_ACT REGI	1	SNA	A	
17	JC61-01620A	FRAME-M_BASE	1	SNA	A	
18	JC61-01622A	HOLDER-TR	1	SNA	A	
19	JC61-01623A	GUIDE-M HOLDER TR	1	SNA	A	
20	JC61-01942A	GUIDE-TR RIB	1	SNA	A	
21	JC61-70932A	SPRING ETC-GUIDE DEVE	2	SA	A	
22	JC61-70958A	SPRING ETC-TR	2	SA	A	
23	JC63-00917A	GROUND-P-DRIVE	1	SNA	A	
24	JC63-00918A	GROUND-P-EARTH TR	1	SNA	A	
25	JC63-00920A	GROUND-P-FUSER	1	SNA	A	
26	JC63-00921A	GROUND-P-GUIDE TR	1	SNA	A	
27	JC63-00922A	GROUND-P-DRIVE2	1	SNA	A	
28	JC63-00923A	GROUND-P-PUSH BUSHING	1	SNA	A	
29	JC63-00924A	GROUND-P-SHIELD SMPS	1	SNA	A	
30	JC63-00925A	GROUND-P-MOTOR FUSER	1	SNA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
31	JC63-00926A	GROUND-P-SHIELD	1	SNA	A	
32	JC65-00014A	TERMINAL-P-HV CR	1	SNA	D	
33	JC65-00018A	TERMINAL-TR	1	SNA	A	
34	JC66-00050A	CAM-CATCH	1	SA	A	
35	JC66-00377A	CAM-M-PICK_UP	1	SA	A	
36	JC66-00526A	ROLLER-FEED ROLLER 1	1	SA	D	
37	JC66-00527A	SHAFT-FEED IDLE	1	SA	B	
38	JC66-01160A	SHAFT-M_FEED2	1	SA	A	
39	JC66-01165A	GEAR-FEED2 Z27	1	SA	D	
40	JC66-01189A	LEVER-M_ACTUATOR FEED	1	SA	A	
41	JC66-01190A	LEVER-M_ACT DUP OUT	1	SA	A	
42	JC66-01191A	LEVER-M_ACTUATOR REGI	1	SA	A	
43	6502-001093	CABLE CLAMP	1	SA	B	
44	JC70-00307A	IPR-P-EARTH TRANSFER	1	SA	D	
45	JC70-00312A	IPR-P-TERMINAL CON	3	SA	D	
46	JC72-00102A	PMO-BUSHING_TR(L)	1	SA	B	
47	JC72-00382B	PMO-BUSHING FEED	3	SA	D	
48	JC72-00974A	PMO-ACTUATOR CVR OPEN	1	SA	D	
49	JC72-00983A	PMO-LOCKER CST	2	SA	D	
50	JC72-00984A	PMO-PLATE GUIDE DEVE_L	1	SA	D	
51	JC72-00985A	PMO-PLATE GUIDE DEVE_R	1	SA	D	
52	JC71-00042A	BAR-P_CROSS BOTTOM	2	SA	D	
53	JC61-02430A	FRAME-BASE SUB-L	1	SNA	B	
54	JC61-02431A	FRAME-BASE SUB-R	1	SNA	B	
55	JC63-01701A	GROUND-SUB BASE	1	SNA	B	
56	JC63-01700A	GROUND-BAR LINK	1	SNA	B	
57	JC39-00879A	HARNESS-SCF_MAIN	1	SA	A	
58	JC75-00049A	MEC-TERMINAL	4	SA	B	
58-1	JC61-00035A	SPRING ETC-HV APOLLO	1	SNA	B	
58-2	JC70-00050A	IPR-TERMINAL	1	SNA	D	
59	JC96-04879A	ELA HOU-HVPS	1	SNA	A	

ELA HOU-FRAME ETC Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
59-1	6003-000269	SCREW-TAPTITE	3	SA	B	
59-2	JC39-00861A	HARNESS-HVPS	1	SA	A	
59-3	JC39-00528A	CBF HARNESS-PAPER EMP	1	SA	B	
59-4	JC44-00162A	HVPS	1	SA	A	
59-5	JC63-00914A	SHIELD-P-HVPS	1	SNA	A	
59-6	JC63-00961A	SHEET-INSULATOR_HVPS	1	SNA	A	
60	JC96-04877B	ELA HOU-GUIDE DUP F	1	SA	A	
61	JC96-04880A	ELA HOU-MPF	1	SA	A	
62	JC97-01788A	MEA UNIT-CLUTCH	1	SA	A	
63	JC97-02394A	MEA UNIT-BRACKET FEED	1	SA	A	
64	JC97-02648A	MEA UNIT-GEAR PICK UP	1	SA	A	
64-1	6107-001167	SPRING-CS	1	SA	A	
64-2	JC66-01183A	GEAR-PICK UP_INNER	1	SNA	B	
64-3	JC66-01184A	GEAR-PICK UP_OUTER	1	SNA	B	
65	JC96-04923A	ELA HOU-FRAME EXIT	1	SNA	B	
66	JC96-04876A	ELA HOU-FUSER DRIVE	1	SA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
67	6002-000440	SCREW-TAPPING	4	SA	B	
68	6003-000196	SCREW-TAPTITE	40	SA	A	
69	6003-000282	SCREW-TAPTITE	6	SA	B	
70	6006-001078	SCREW-TAPTITE	3	SNA	A	
71	6044-000001	RING-CS	1	SNA	A	
72	6044-000125	RING-E	1	SA	A	
73	6107-001164	SPRING-TS	3	SA	B	
74	6107-001352	SPRING-TS	1	SA	D	
75	6107-001498	SPRING-ES	1	SA	A	
76	1404-001417	THERMISTOR-NTC ASSY	1	SA	A	
77	JC63-01960A	GROUND-PR_FRAME	1	SNA	B	
78	JC68-00317A	LABEL(R)-HOT CAUTION,KME	1	SNA	A	
79	JC68-30928E	LABEL(P)-CAUTION, HOT_FU	1	SNA	A	
80	JC39-00322A	CBF HARNESS-SCAN GND	1	SNA	A	
A	0201-001183	ADHESIVE-AA	0.025g	SNA	B	

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ELA HOU-FUSER DRIVE Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04876A	ELA HOU-FUSER DRIVE	1	SA	A	
2	6003-000269	SCREW-TAPTITE	2	SA	B	
3	6044-000125	RING-E	1	SA	A	
4	6044-000231	RING-E	2	SA	A	
5	JC31-00084A	MOTOR STEP-MAIN	1	SA	A	
6	JC61-02445A	BRACKET-FUSER EXIT	1	SNA	B	

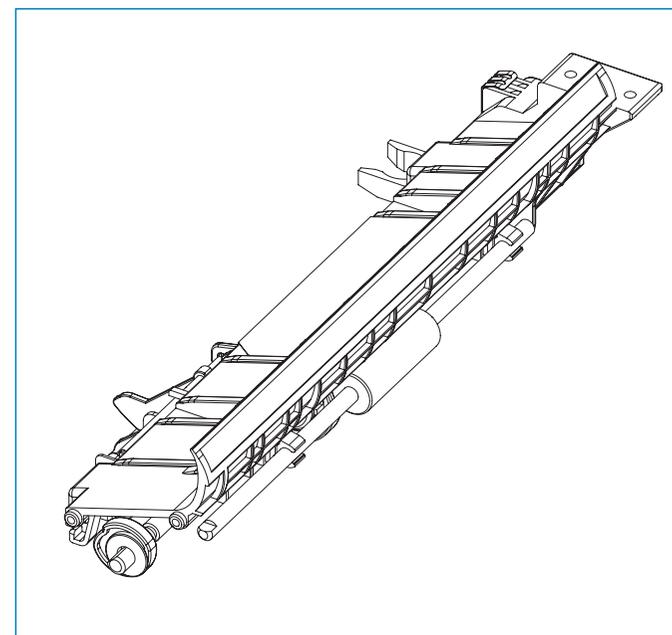
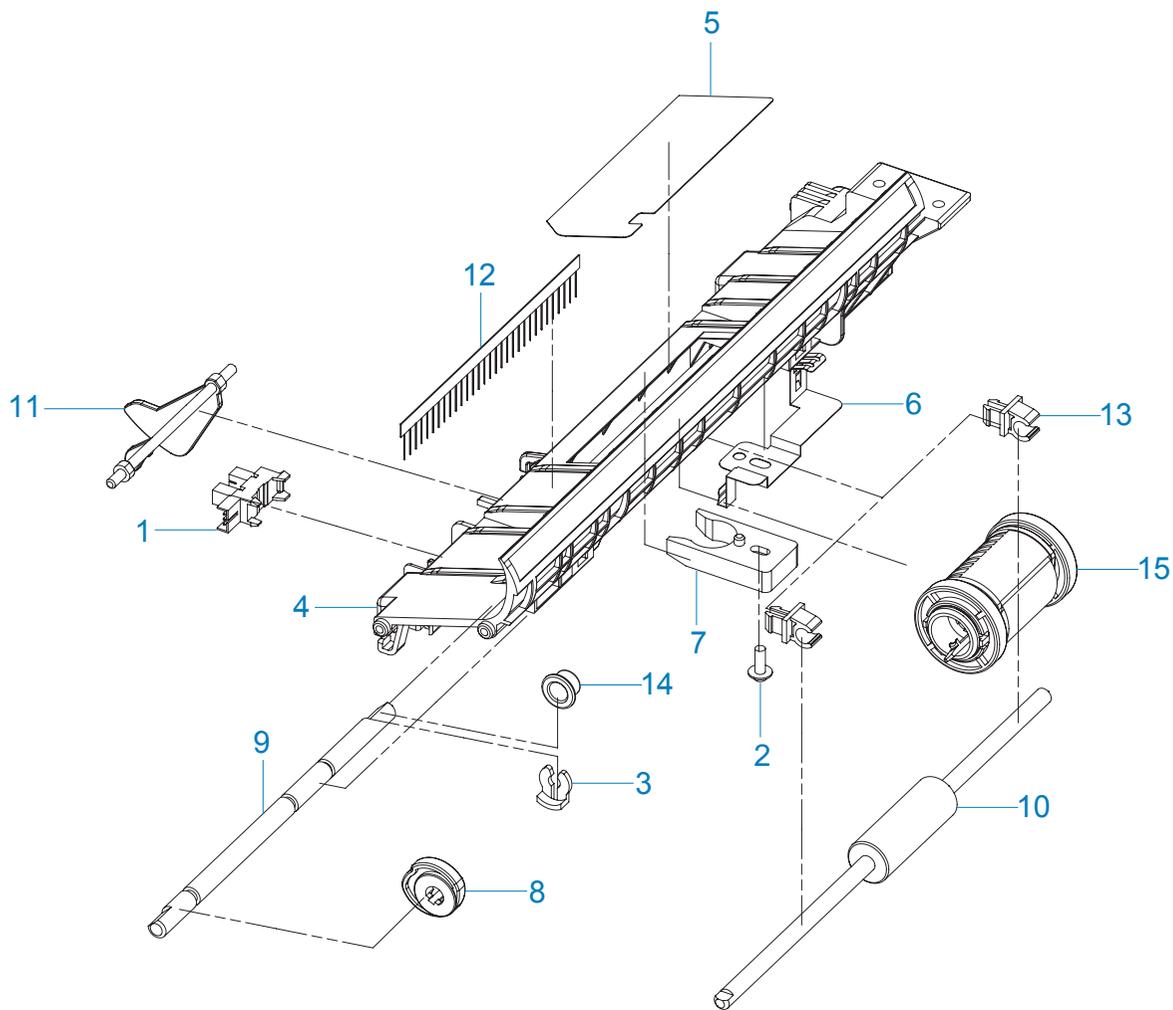
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
7	JC66-01819A	GEAR-EXIT RDCN	1	SNA	B	
8	JC66-00340A	GEAR-HUB CLUTCH	1	SA	B	
9	JC66-00417A	GEAR-RDCN FUSER OUT	1	SA	A	
10	JC66-01163A	GEAR-FUSER RDCN IN 95	1	SNA	A	
11	JC66-01210A	GEAR-FUSER IDLE FR	1	SA	B	

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23. ELA HOU-GUIDE DUP

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ELA HOU-GUIDE DUP Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

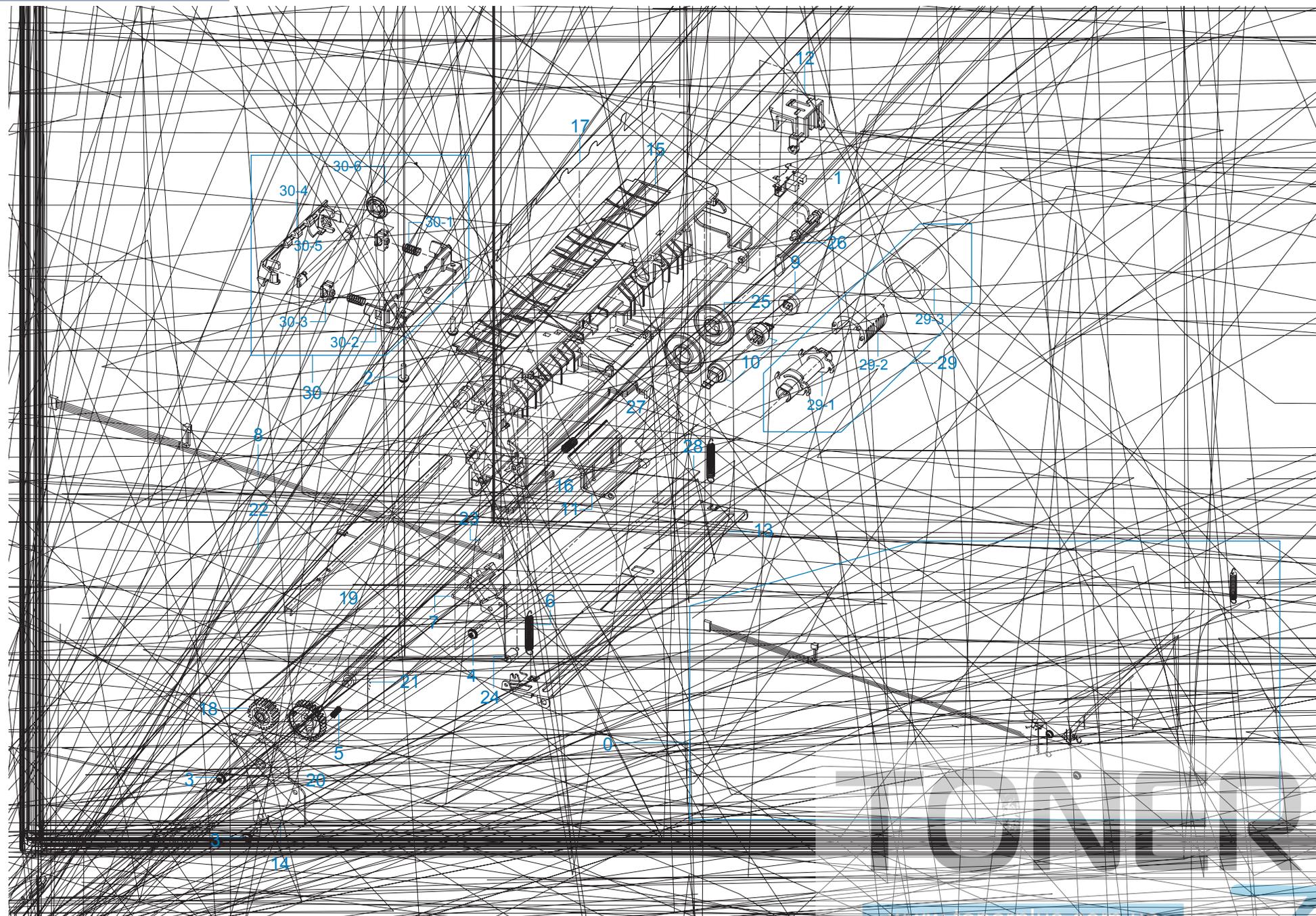
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04877B	ELA HOU-GUIDE DUP F	1	SA	A	
1	0604-001095	PHOTO-INTERRUPTER	1	SA	A	
2	6002-000440	SCREW-TAPPING	1	SA	B	
3	JC61-01367A	FIXER-M_E RING 4PI	1	SA	A	
4	JC61-01600A	GUIDE-M_FRONT DUPLEX	1	SNA	A	
5	JC63-00992A	SHEET-GUIDE FRONT DU	1	SNA	A	
6	JC63-01153A	GROUND-P_BRUSH	1	SNA	A	
7	JC66-00050A	CAM-CATCH	1	SA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
8	JC66-01581A	CAM-SHAFT PICK UP	1	SNA	A	
9	JC66-01171A	SHAFT-PICK UP	1	SNA	D	
10	JC66-01173A	ROLLER-FEED	1	SA	A	
11	JC66-01820A	ACTUATOR-PAPER EMPTY	1	SNA	D	
12	JC67-00208A	BRUSH-ANTISTATIC	1	SA	D	
13	JC72-00382B	PMO-BUSHING FEED	2	SA	D	
14	JC72-41364A	PMO-BUSHING_P/U,MP	1	SA	D	
15	JC97-02441C	MEA-ROLLER PICK UP	1	SA	A	

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24. ELA HOU-MPF



ELA HOU-MPF Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04880A	ELA HOU-MPF	1	SA	A	
1	0604-001095	PHOTO-INTERRUPTER	1	SA	A	
2	6003-000196	SCREW-TAPTITE	2	SA	A	
3	6003-000196	SCREW-TAPTITE	2	SA	A	
4	6003-000196	SCREW-TAPTITE	1	SA	A	
5	6107-001167	SPRING-CS	1	SA	A	
6	6107-001237	SPRING-ES	2	SA	A	
7	JC33-00028B	SOLENOID-MP	1	SA	A	
8	JC39-00873A	HARNESS-MP	1	SA	A	
9	JC61-00587A	BUSH-M-PICK_UP R	1	SA	A	
10	JC61-00915A	STOPPER-M-PICK UP_R2	2	SA	A	
11	JC61-00924A	HOLDER-M-PAD_MP	1	SA	A	
12	JC61-00926A	HOLDER-M-SENSOR_MP	1	SA	A	
13	JC61-00927A	PLATE-P-KNOCK UP_MP	1	SNA	D	
14	JC61-00932A	BRACKET-P-PICKUP_MP	1	SNA	A	
15	JC61-01603A	FRAME-M_MP	1	SNA	A	
16	JC61-70911A	SPRING ETC-EXIT ROLL FD	1	SA	A	
17	JC63-01936A	SHEET-GUIDE MP	1	SNA	B	
18	JC66-00396A	GEAR-IDLE 23	1	SA	A	
19	JC66-00399A	SHAFT-P-PICK_UP	1	SA	A	

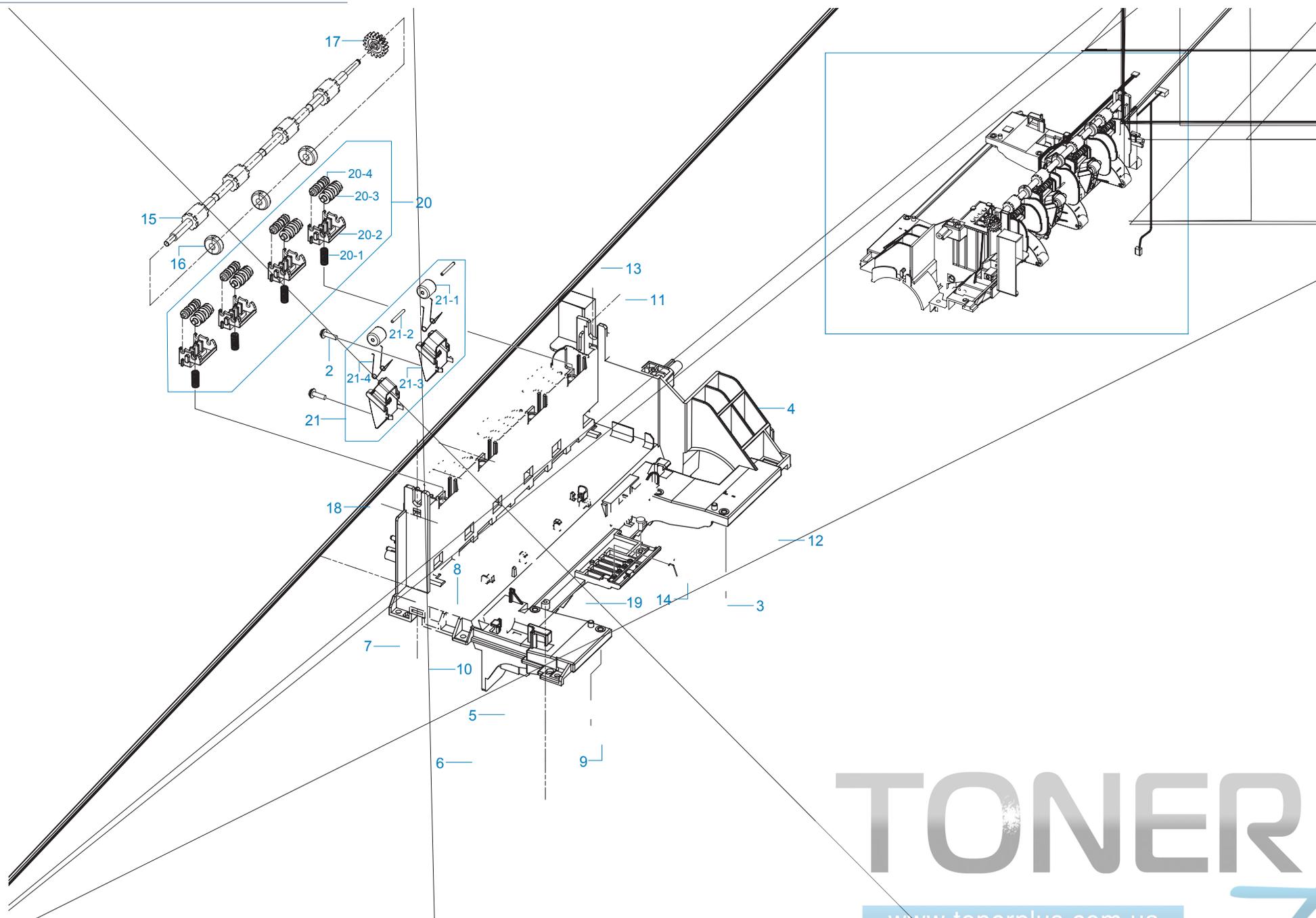
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
20	JC66-00709A	GEAR-M-HOLDER_MP	1	SA	D	
21	JC66-00710A	GEAR-M-PICK UP_MP	1	SA	D	
22	JC66-00720A	SHAFT-P-CORE	2	SA	B	
23	JC66-01205A	CAM-M_PICK UP MP	1	SA	A	
24	JC72-00761A	PMO-ROLLER CAM.MP	1	SA	B	
25	JC72-00982A	PMO-IDLE PICK_UP	2	SA	D	
26	JC72-01338A	PMO-M-ACT EMPTY MP	1	SA	D	
27	JC73-00140A	RPR-FRICTION PAD	1	SA	B	
28	JC73-00141A	RPR-PAD CASSETTE	1	SA	B	
29	JC97-02034A	MEA-PICK UP_MP	1	SA	A	
29-1	JC61-00910A	HOUSING-M-PICK UP2_R2	1	SA	D	
29-2	JC61-00925A	HOUSING-M-PICK UP2_MP	1	SA	A	
29-3	JC73-00194A	RUBBER-PICK UP MP	1	SA	B	
30	JC97-02443A	MEA-IDLE FEED	1	SA	A	
30-1	JC61-00484A	SPRING ETC-EXIT LOWER IDLE	2	SA	A	
30-2	JC61-01604A	HOLDER-M_IDLE FEED	1	SNA	A	
30-3	JC61-01605A	HOLDER-M_SHAFT IDLE	2	SNA	A	
30-4	JC63-00997A	COVER-M_IDLE FEED	1	SNA	A	
30-5	JC66-01172A	SHAFT-IDLE FEED	1	SNA	D	
30-6	JC66-01186A	ROLLER-IDLE FEED	1	SNA	A	

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25. ELA_HOU_FRAME_EXIT

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ELA_HOU_FRAME_EXIT Parts List

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SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-04923A	ELA HOU-FRAME EXIT	1	SNA	B	
2	6003-000196	SCREW-TAPTITE	2	SA	A	
3	6003-000282	SCREW-TAPTITE	4	SA	B	
4	JC61-02432A	FRAME-EXIT	1	SNA	D	
5	JC39-00888A	HARNESS-LSU_SW	1	SA	A	
6	1404-001417	THERMISTOR-NTC ASSY	1	SA	A	
7	JC39-00882A	HARNESS-TEMP	1	SA	A	
8	JC92-02007A	PBA-DEVE CRUM IF	1	SA	A	
9	JC39-00886A	HARNESS-FUSER_AC	1	SA	A	
10	JC63-01322A	GROUND-FUSER BRUSH	1	SNA	A	
11	JC63-01708A	GROUND-EXIT FRAME	1	SNA	B	
12	JC61-02155A	PLATE-LSU SUPPORT	1	SNA	D	
13	JC61-00829A	HOLDER-BEARING EXIT F/DOWN	2	SA	A	
14	JC65-00019A	TERMINAL-CRUM	4	SA	A	
15	JC66-01885A	ROLLER-EXIT UPPER	1	SNA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
16	JC72-00833A	PMO-ROLLER DECURL	6	SA	D	
17	JC66-40209A	GEAR-EXIT	1	SA	D	
18	JC72-40981A	PMO-ROLLER UPPER DP	3	SA	B	
19	JC66-01283A	DAMPER-FRAME EXIT	1	SNA	B	
20	JC97-03126A	MEA RACK-EXIT ROLLER	4	SA	B	
20-1	JC61-70911A	SPRING ETC-EXIT ROLL FD	1	SA	A	
20-2	JC61-02440A	HOLDER-EXIT_ROLLER	1	SNA	B	
20-3	JC66-00824A	ROLLER-EXIT_MAIN	1	SA	A	
20-4	JC66-00934A	ROLLER-M_EXIT FR	1	SNA	B	
21	JC97-03135A	MEA UNIT-IDLE ROLLER	2	SNA	B	
21-1	JC72-20902A	PEX-ROLLER F/UP(2)	1	SA	D	
21-2	JC70-20901A	IEX-SHAFT IDLE,F/UP	1	SA	D	
21-3	JC61-02441A	HOLDER-IDLE ROLLER	1	SNA	B	
21-4	JC61-02461A	SPRING ETC-EXIT_IDLE	1	SNA	D	

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MEA UNIT-CLUTCH Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC97-01788A	MEA UNIT-CLUTCH	1	SA	A	
1	6107-001171	SPRING-TS	1	SA	A	
2	JC66-00393A	GEAR-FEED 1	1	SA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
3	JC66-00398A	SHAFT-FEED	1	SA	A	
4	JC72-00978A	PMO-COLLAR_SPRING	1	SA	D	
5	JC72-00981A	PMO-HUB CLUTCH	1	SNA	D	

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MEA UNIT-BRACKET FEED Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

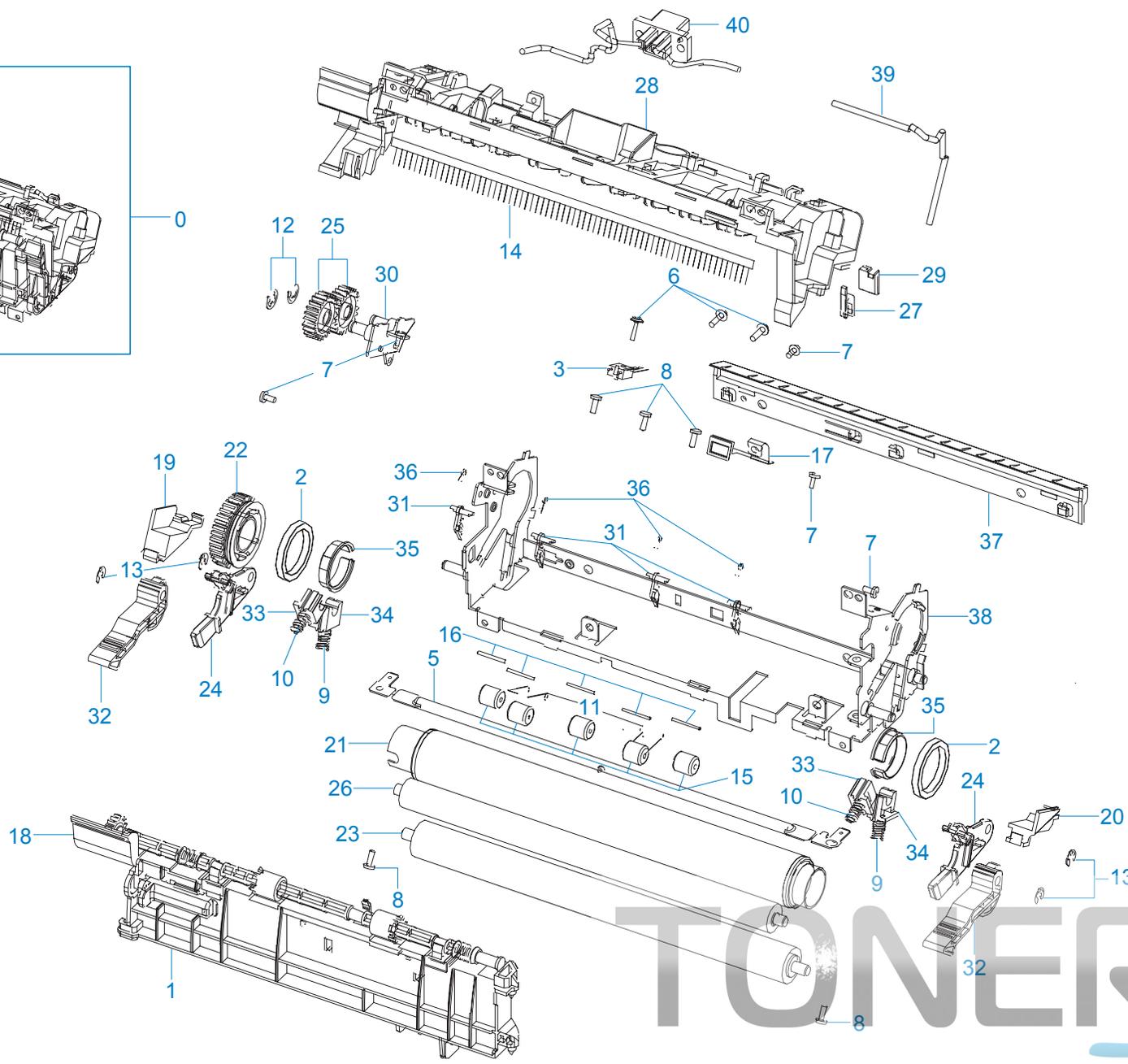
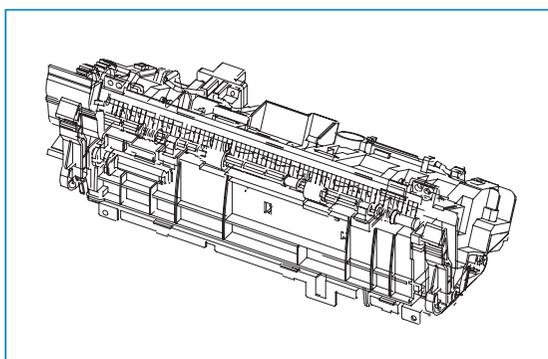
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC97-02394A	MEA UNIT-BRACKET FEED	1	SA	A	
2	6044-000125	RING-E	2	SA	A	
3	6044-000231	RING-E	1	SA	A	
4	JC61-01582A	BRACKET-P-FEED	1	SNA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
5	JC66-00484A	GEAR-T2 IDEL_Z27	1	SA	A	
6	JC66-01164A	GEAR-RETARD 39/19	1	SNA	A	
7	JC66-01166A	GEAR-IDLE Z29 HELICAL	1	SNA	A	

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28. ELA UNIT-FUSER



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ELA UNIT-FUSER Parts List

Ver. 1.00

SA : SERVICE AVAILABLE, SNA : SERVICE not AVAILABLE

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05063A	ELA UNIT-FUSER	1	SA	B	110V
0	JC96-05064A	ELA UNIT-FUSER	1	SA	B	220V
1	JC97-03164A	MEA UNIT-DOOR FUSER	1	SA	B	
2	6601-001479	BEARING-BALL	2	SA	A	
3	1404-001364	THERMISTOR-NTC ASSY	1	SA	A	
4	4712-001031	THERMOSTAT	1	SA	A	
5	4713-001207	LAMP-HALOGEN (110V)	1	SA	A	110V
5	4713-001208	LAMP-HALOGEN (220V)	1	SA	A	220V
6	6003-000196	SCREW-TAPTITE	3	SA	A	
7	6003-000269	SCREW-TAPTITE	5	SA	B	
8	6003-000282	SCREW-TAPTITE	5	SA	B	
9	6107-001267	SPRING-CS	2	SA	A	
10	6107-001246	SPRING-CS	2	SA	A	
11	6107-001159	SPRING-TS	2	SA	B	
12	6044-000231	RING-E	2	SA	A	
13	6044-000125	RING-E	4	SA	A	
14	JC75-00095A	MEC-BRUSH ANTISTATIC	1	SA	B	
15	JC72-20902A	PEX-ROLLER F/UP(2)	5	SA	D	
16	JC70-20901A	IEX-SHAFT IDLE,F/UP	5	SA	D	
17	JC63-02008A	GROUND-EARTH_UPPER	1	SNA	A	
18	JC68-00407A	LABEL(R)-HV FUSER (220V)	1	SNA	D	
19	JC67-00253A	CAP-LAMP_L	1	SNA	B	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
20	JC67-00254A	CAP-LAMP_R	1	SNA	B	
21	JC66-01593B	ROLLER-HEAT	1	SA	B	
22	JC66-01588A	GEAR-FUSER	1	SA	A	
23	JC66-01453A	ROLLER-PRESSURE	1	SA	B	
24	JC66-01424A	LEVER-LINK_JAM	2	SNA	B	
25	JC66-01153A	GEAR-IDLE 23 FUSER	2	SA	A	
26	JC66-01079A	ROLLER-PRESSURE	1	SA	D	
27	JC63-01961A	GROUND-PR_FUSER	1	SNA	B	
28	JC63-01347A	COVER-FUSER_UPPER	1	SNA	B	
29	JC61-02631A	GUIDE-GROUND_PR	1	SNA	A	
30	JC61-02156A	BRACKET-FUSER	1	SNA	A	
31	JC61-02154A	GUIDE-CLAW	4	SNA	A	
32	JC61-01977A	HOLDER-JAM	2	SNA	B	
33	JC61-01961A	BUSH-PR_2ND	2	SNA	B	
34	JC61-01960A	BUSH-PR_1ST	2	SNA	B	
35	JC61-01958A	BUSH-HR	2	SA	A	
36	JC61-01950A	SPRING ETC-CLAW	4	SA	A	
37	JC61-01949A	GUIDE-INPUT	1	SNA	D	
38	JC61-01948A	FRAME-FUSER	1	SNA	B	
39	JC39-00521A	CBF HARNESS-FUSER REC	1	SA	A	110V
39	JC39-00609A	CBFHARNESS-FUSER R_2	1	SA	A	220V
40	JC39-00520A	CBF HARNESS-FUSER CON	1	SA	A	

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MEA UNIT-DUPLEX Parts List

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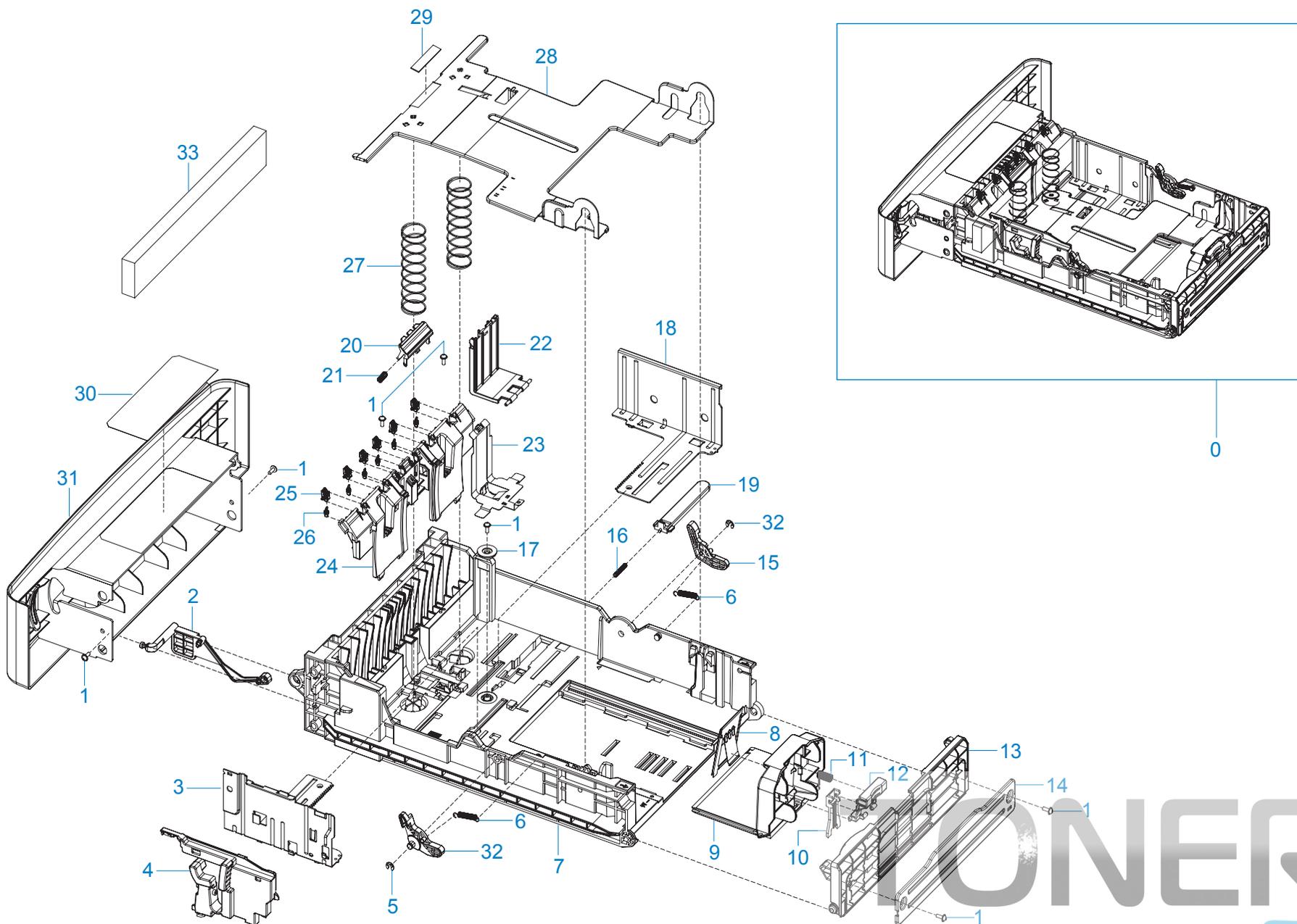
Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC97-03127B	MEA_UNIT-DUPLEX	1	SA	A	
1	6003-000196	SCREW-TAPTITE	6	SA	A	
2	6107-001156	SPRING-TS	2	SA	A	
3	JC61-00665A	BUSH-M-FEED, DUP	4	SA	D	
4	JC61-02433B	FRAME-DUPLEX	1	SNA	B	
5	JC61-01595A	GUIDE-M_UPPER DUP	1	SNA	A	
6	JC61-01596A	BRACKET-P-ALIGN DUP	1	SNA	A	
7	JC65-00017A	TERMINAL-P-GND DUP	2	SA	A	
8	JC66-00038A	GEAR-EXIT F/DOWN	1	SA	A	
9	JC66-00444A	SHAFT-IDLE ROLL, DUP	2	SA	A	
10	JC66-00896A	ROLLER-M-IDLE_DUP	2	SA	A	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
11	JC66-00899A	PULLEY-18_DUP	2	SA	A	
12	JC66-00900A	PULLEY-M-18-DUMMY_DUP	3	SA	A	
13	JC66-20901A	BELT-TIMMING	1	SA	B	
14	JC96-04983A	ELA UNIT-ROLLER_DUP	1	SA	A	
15	JC96-04983B	ELA UNIT-ROLLER_DUP2	1	SA	A	
16	JK72-00058A	PCT-SILP WASHER	4	SNA	D	
17	JC67-00205A	BRUSH-ANTISTATIC-DUP	2	SNA	D	
18	JC72-01429A	SPONGE-COVER NOISE	1	SNA	D	
19	JC63-01266E	COVER-REAR NOISE	1	SNA	B	
20	JC61-02836A	PLATE-GUIDE-DUP	1	SNA	D	

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30. MEA UNIT-CASSETTE



MEA UNIT-CASSETTE Parts List

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Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC97-03494A	MEA UNIT-CASSETTE	1	SA	A	
1	6002-000440	SCREW-TAPPING	7	SA	B	
2	JC64-00189D	INDICATOR-M_EMPTY	1	SNA	A	
3	JC61-01244A	GUIDE-P-SIDE_R	1	SNA	A	
4	JC61-01225B	GUIDE-M_SIDE LOCK	1	SNA	B	
5	JC66-01841A	LINK-DOWN R	1	SNA	B	
6	JC61-70913A	SPRING ETC-KNOCK UP MP	2	SA	A	
7	JC61-02434B	FRAME-CASSETTE	1	SNA	B	
8	JC61-00751A	GUIDE-P-REAR PAPER CST	1	SA	B	
9	JC61-01226B	GUIDE-M-REAR	1	SNA	B	
10	JC61-00267B	GUIDE-M_LOCK A	1	SA	B	
11	JC61-00414A	SPRING ETC-GUIDE PAPER	1	SA	D	
12	JC64-00190B	KNOB-M-REAR	1	SNA	D	
13	JC61-02436B	GUIDE-EXTENSION CST	1	SNA	A	
14	JC61-01223A	BRACKET-P-EXTENTION	1	SNA	A	
15	JC66-01842A	LINK-DOWN L	1	SNA	B	
16	JG61-70531A	SPRING ETC-LOCKER,PLATE	1	SA	B	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
17	JG66-40003A	GEAR-PINION	1	SA	B	
18	JC61-02438A	GUIDE-SIDE L	1	SNA	B	
19	JC72-41210A	PMO-LOCKER PLATE	1	SA	D	
20	JC97-03249A	MEA-UNIT HOLDER PAD	1	SA	B	
21	JC61-70911A	SPRING ETC-EXIT ROLL FD	1	SA	A	
22	JC61-01228A	HOLDER-M-PAD_HOUSING	1	SNA	B	
23	JC63-01206A	GROUND-CASSETTE	1	SA	A	
24	JC61-02435B	GUIDE-PAPER	1	SNA	B	
25	JC64-00370A	SHUTTER-CST	6	SA	B	
26	6107-001256	SPRING-ES	6	SA	A	
27	JC61-00455A	SPRING ETC-PLATE K/UP	2	SA	D	
28	JC61-02446A	PLATE-KNOCK UP	1	SNA	B	
29	JC73-00141A	RPR-PAD CASSETTE	1	SA	B	
30	JC68-02077B	LABEL-INFORMATION	1	SNA	A	
31	JC61-02741A	GUIDE-HANDLE	1	SNA	B	
32	6044-000125	RING-E	2	SA	A	
33	JC69-00860A	CUSHION-SCF IN	1	SNA	A	

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ELA HOU-SCF Parts List

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Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
0	JC96-05383A	ELA HOU-SCF	1	SNA	B	
1	JC97-03493A	MEA-COVER FRONT SCF	1	SA	B	
1-1	JC63-02035A	COVER-FRONT SCF	1	SA	B	
1-2	JC66-00529A	ROLLER-M-IDLE FEED	2	SA	B	
1-3	6107-001047	SPRING-ES	2	SA	B	
2	JC96-05390A	ELA HOU-FRAME SCF	1	SA	B	
2-1	JC61-02447B	FRAME-SCF	1	SNA	B	
2-2	JC97-02441C	MEA-ROLLER PICK UP	1	SA	A	
2-2-1	JC66-01169A	ROLLER-IDLE PICK UP	2	SA	A	
2-2-2	JC61-01601C	HOUSING-M_PICK UP	1	SNA	A	
2-2-3	JC66-01168A	ROLLER-PICK UP	1	SA	A	
2-3	JC66-01171A	SHAFT-PICK UP	1	SNA	D	
2-4	JC72-41364A	PMO-BUSHING_P/U,MP	1	SA	D	
2-5	JC61-01367A	FIXER-M_E RING 4PI	1	SA	A	
2-6	JC66-01581A	CAM-SHAFT PICK UP	1	SNA	A	
2-7	JC72-00382B	PMO-BUSHING FEED	2	SA	D	
2-8	JC66-00598A	ROLLER-FEED	1	SA	A	
2-9	JC66-00398A	SHAFT-FEED	1	SA	A	
2-10	JC66-00394A	GEAR-FEED 2	1	SA	A	
2-11	6044-000001	RING-CS	1	SNA	A	
2-12	JC66-00377A	CAM-M-PICK_UP	1	SA	A	
2-13	6107-001170	SPRING-TS	1	SA	D	
2-14	JC61-01602A	HOLDER-M_PICK UP	1	SNA	A	
2-15	JC72-00979A	PMO-GEAR PICK_UP A	1	SNA	D	
2-16	JC66-01828A	GEAR-PICKUP OUT	1	SNA	D	
2-17	6107-001167	SPRING-CS	1	SA	A	
2-18	JC33-00025B	SOLENOID-MANUAL	1	SA	A	
2-19	6006-001078	SCREW-TAPTITE	1	SNA	A	
2-20	JC63-01796A	SHEET-COVER PCB	2	SNA	D	
2-21	JC63-01724A	GROUND-SCF UPPER	1	SNA	D	
2-22	JC61-01742A	HOLDER-CONNECTOR_SCF	1	SNA	D	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
2-23	JC39-00547A	CBF HARNESS-SCF	1	SNA	D	
2-24	JC63-01755A	SHEET-COVER SENSOR	1	SNA	D	
2-25	JC72-00983A	PMO-LOCKER CST	2	SA	D	
2-26	JC61-00835A	FOOT-BACK	2	SA	A	
2-27	JC63-00765C	COVER-CONNECTOR	2	SNA	D	
2-28	JC67-00204A	BRUSH-PICK	1	SA	D	
2-29	JC63-01725A	GROUND-SCF LOWER	1	SNA	D	
2-30	JC63-00527A	SHEET-BRUSH	1	SNA	D	
2-31	JC75-00095A	MEC-BRUSH ANTISTATIC	0.25	SA	B	
2-32	JC66-01820A	ACTUATOR-PAPER EMPTY	1	SNA	D	
2-33	0604-001095	PHOTO-INTERRUPTER	1	SA	A	
2-34	JC71-00042A	BAR-P_CROSS BOTTOM	2	SA	D	
2-35	JC92-02095A	PBA-SCF	1	SA	A	
2-36	JC39-00366A	CBF HARNESS-SCF GND	1	SNA	D	
2-37	JC39-00841A	HARNESS-SCAN GND	1	SNA	D	
2-38	JB39-00103A	CBF HARNESS-LIU GND	1	SNA	D	
2-39	JC39-00912A	HARNESS-DADF_P_SIZE	1	SNA	D	
2-40	JC39-00975A	HARNESS-BLDC_MOTOR	1	SNA	D	
2-41	JC96-05389A	ELA HOU-MOTOR SCF	1	SA	D	
2-41-1	JC61-02749A	BRACKET-SCF DRIVE	1	SNA	D	
2-41-2	JC61-00878A	BRACKET-M-FEED SCF	1	SNA	D	
2-41-3	JC66-00670A	GEAR-35 IDLE	1	SNA	D	
2-41-4	JC66-02030A	GEAR-SCF	1	SNA	D	
2-41-5	JC66-00396A	GEAR-EDLE 23	1	SA	A	
2-41-6	JC31-00090A	MOTOR BLDC	1	SA	A	
2-41-7	6031-000023	WASHER-PLAIN	2	SA	A	
2-41-8	6003-000301	SCREW-TAPTITE	2	SNA	B	
2-42	6003-000196	SCREW-TAPTITE	18	SA	A	
3	JC63-01729B	COVER-LEFT SCF	1	SA	B	
4	JC72-01437A	SPONGE-SCF L1	1	SNA	D	
5	JC72-01438A	SPONGE-SCF L2	1	SNA	D	

ELA HOU-SCF Parts List

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Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
6	JC63-01727B	COVER-REAR SCF	1	SA	D	
7	JC63-01266E	COVER-REAR NOISE	1	SNA	B	
8	JC72-01429A	SPONGE-COVER NOISE	1	SNA	D	
9	JC63-01728B	COVER-RIGHT SCF	1	SA	D	

Drawer#	SEC_Code	Description	QT'y	Service	Grade	Remark
10	JC72-01436A	SPONGE-SCF R	1	SNA	D	
11	6003-000196	SCREW-TAPTITE	8	SA	A	
12	JC97-03111A	MEA UNIT-CASSETTE	1	SNA	B	
14	6501-000004	CABLE TIE	1	SNA	D	

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