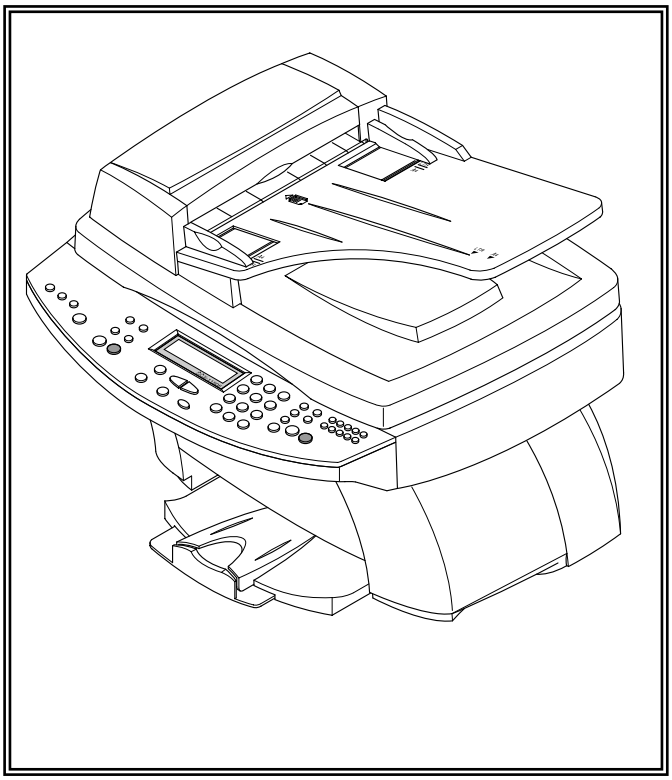
SAMSUNG

SAMSUNG
INKJET PRINTER(MFP)
SCX-1150F

SERVICE *Manual*

INKJET PRINTER(MFP)



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1. Precautions

Please read the following carefully to prevent any accidents and not to damage the unit during service.

1-1 Safety Precautions

1. Safety Precautions

There are some electric or machinery parts with safety related property. If the parts replaced are different from the original, the safety may not function. Even if the part could allow higher voltage than that of the part used, do not replace it and use a regular product clarified in specifications.

2. Be careful not to leave a switch, a cover or a safety device out when reinstalling or assembling the product after repair.

Especially mind the safety on the part with this mark.

You must use regular parts described in specifications for the parts inflammable and where the current can be flown. Otherwise any hazard such as an electric shock or a fire could occur.

3. Replacing Precautions

Do not change or add parts as you like. You cannot benefit from such a remodeled product at your will during the term of guarantee.

4. You must replace overheated or damaged parts or cords with regular products. Please solve the problem causing any damage or overheating and troubles beforehand.

1-2 Precautions on Disassembly and Reassembly

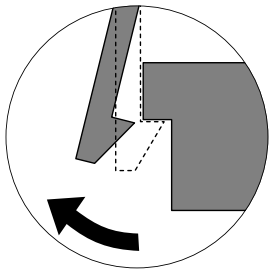
Very careful precautions should be taken when replacing parts. Before replacing, please check cables because you cannot put the cables that you removed for replacing parts into the proper place if you would not make sure of where they were connected and in which condition.

Please do the following before disassembling for a repair or replacement of parts.

1. Pull out paper cassette, printer cartridge installed. Especially careful not to be scratched by the surface of developer or not to expose them to light.
2. Turn the power switch off.
3. Take out the power plug, printer cable from the printer.
4. Use only the same type of part as original when replacing parts.
5. Do not force to open or fasten plastic material components.
6. Be careful that small parts such as screws should not get in the printer.
7. When disassembling, assembling, also observe small components are located in place.
8. If you uncover and turn the machine over to replace some parts, toner or paper particles may contaminate the LSU window. Protect the LSU window with clean paper.

Releasing Plastic Latches

Many of 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.



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. Specifications

2-1 Printer Engine

Technology		Color Thermal Inkjet
Engine Type		2-Pen (K and CMY)
Operating System		Windows 95/98/2000/Me/XP
Interface		USB (without HUB Mode), IEEE1284(ECP Support)
Emulation		HBP(GDI)
Print Speed (2)	Mono	14 ppm Draft
	Color	7 ppm Draft
Print Resolution (H x V)		True 600 X 1200dpi, 2400(H) x 1200(V) dpi (Addressable)
Maximum Paper Size		A4, Letter, Legal
Effective Printing Width		8.0" (203 ± 1mm)
Feeding Method	Automatic	100 Sheets (Maximum stacking height : 9mm)
	Manual Tray	No
Output Tray Capacity		Maximum 30 sheets
Maximum Cable Length		USB Cable, Max 6ft (3)

Note:

(2) Speed claims based on the test files: spdtst.sam(mono), spdtstc2.sam(color)/Letter size
(3) Non-standard cable can cause misoperations.

2-2 Scanner

Operation System	Windows 98/Me/2000/XP
Interface	USB (without HUB Mode) , IEEE1284(ECP Support)
Compatibility	TWAIN
Device	Platen Color CCD
Scan Width	Max.: 8.5” (216 mm), Effective: 8.2” (210 mm)
Color Depth	Internal 36 bit, External 24 bit
Optical Resolution (H x V)	600 x 600 dpi, 1200dpi class
Interpolation Resolution	Max. 4800 dpi
Pre-scan Mode	Yes, 75 dpi
Scan Speed	about 2'30 sec/A4 True Color (Pentium II 300M, 64MB Memory, 300dpi)

2-3 Copier

Scanner Type	Flat-bed with ADF (Automatic Document Feeder)
Maximum Original Size	A4/Letter
Maximum Paper Size	A4/Letter/Legal
Maximum Scan Width	216 mm
Copy Mode	Color / Black and White
Copy Quality	Draft, Normal, Best
Paper Type Selection	Plain, Glossy, Transparency
Mono Copy Speed (1)	Draft: 10cpm
Color Copy Speed (1)	Draft: 5cpm
Effective Print-edge Margin	Top: 2±1mm, Bottom: 4±1mm, Each Side: 3.5mm(A4)
Multi copy	1~99 pages (Memory Multi copy)
Zoom Rate	25 % ~ 400 % (1 % Step)
Contrast Control	3 Steps
Ink Saver Mode	Dot Elimination. Max. 50%
Auto Sensing	Check Paper Jam , Low Ink
FCOT Cold/Warm	About 40 sec for Default Mode Copy

Note:

(1) Speed claims based on the test chart : Printed spdtst.sam(mono), Printed spdtstc2.sam(color)/Letter size

2-4 Facsimile

Machine type	Desk Top
Applicable line	G3 PSTN (Public Switched Telephone Network)
Compatibility	ITU Group3
Data coding	MH/MR/MMR/JPEG/Error Correction Mode
FAX Mode	Standard , Fine , Super Fine , Color
Modem speed	33,600 bps
Transmission speed	Approx. 3 sec. CCITT Chart
Effective scanning width	8.2 inches(208 mm)
Memory	4 MByte
Automatic document feeder	30 pages(75g/m^2)
LCD	16 characters X 2 lines
Battety B/U	Max 30 Min

2-5 Ink Cartridge

		Babbage mono	Birch color
Print Head		208 nozzles	192 nozzles
Ink type		Pigment	Dye
Ink Color		Black	Color
Ink Yield	Standard	about 600 sh. (5% Pattern, A4)	about 275 sh. (15% Pattern, A4)
	High Yield	about 1,100 sh.(5% Pattern, A4)	about 625 sh. (15% Pattern, A4)

2-6 Power Supply

Rated AC Input Voltage	110 ~ 240 VAC (Universal)
Rated Input Frequency	50 ~ 60 Hz
Minimum/Maximum AC Input	90 VAC/265 VAC
Maximum Input Current	0.5 A
DC Channels [4] (2 Channels)	+3.3V ±5%, +30V ±10%

Note:

(4) No load condition.

2-7 Dimension

Machine Size (W x D x H)	18.7 X 16.9 X 9.9 inch (476 X 429X X252 mm)
Machine Weight	About 9.5 Kg (Machine itself)

2-8 Environmental Condition

Absolute Storage Temperature[5]		-20°C ~ 55°C
Absolute Storage Humidity[5]		15% RH ~ 85% RH
Recommended Operating Condition	Temperature	16°C ~ 32°C
	Humidity	40% RH ~ 70% RH

Note:

(5) Packing Condition

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 or replaced, any cables disturbed by the procedure must be replaced as close as possible to their original positions.

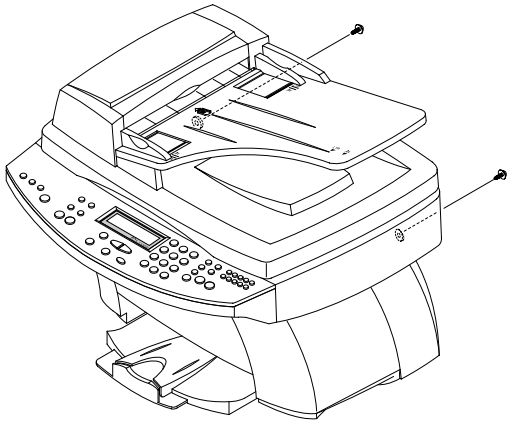
Before removing any component from the machine, note the cable routing that will be affected.

Whenever servicing the machine, you must perform as follows:

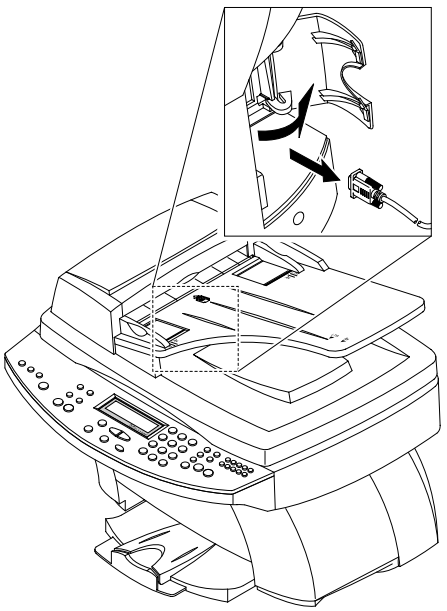
1. Check to verify that documents are not stored in memory.
2. Unplug the power cord.
3. Use a flat and clean surface.
4. Replace only with authorized components.
5. Do not force to remove or planten plastic-material components.
6. Make sure all components are in their proper position.

3-2 Scanner Ass'y

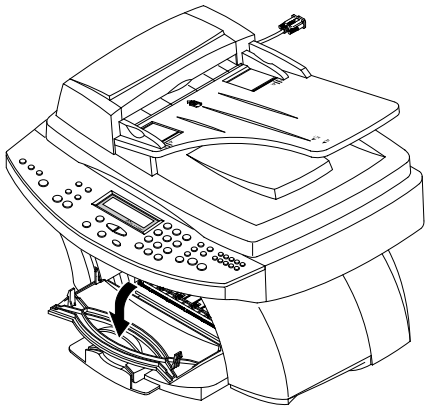
1. Remove two screws securing the Rear Cover.



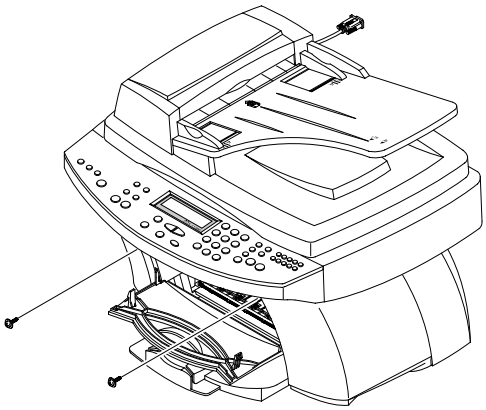
2. Open the Side Door and remove the ADFConnector, as shown below.



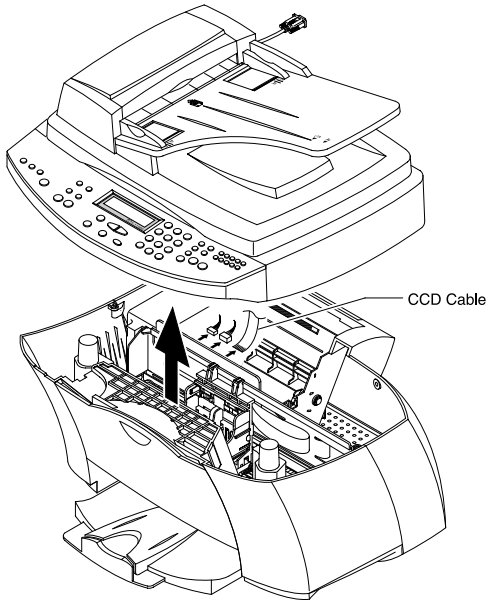
3. Open the Front Door from the Main Cover.



4. Remove two screws securing the Main Cover.

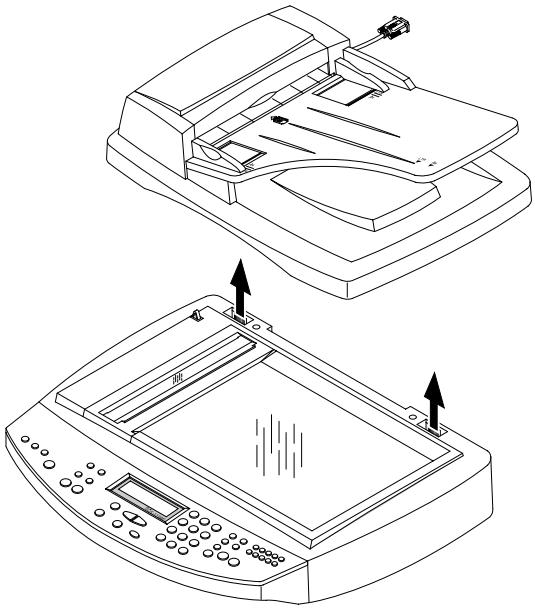


5. Pull the Scanner Ass'y upward then, unplug the two connectors and CCD Cable.

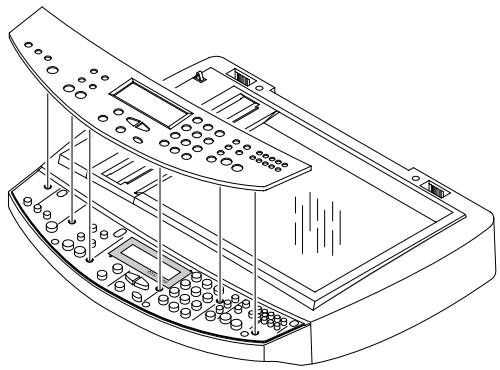


♦ You should connect or remove the CCD Cable vertically to avoid the CCD Cable pin damage.

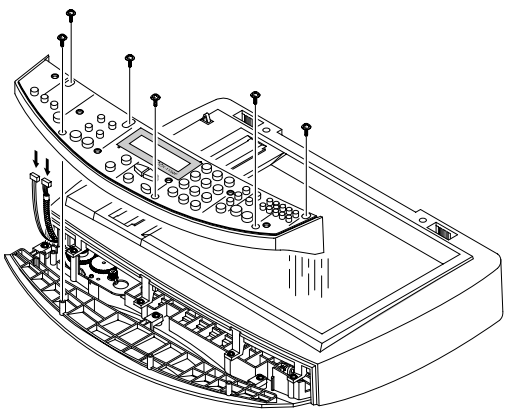
6. Pull the ADF unit(platen Cover) upward and remove it.



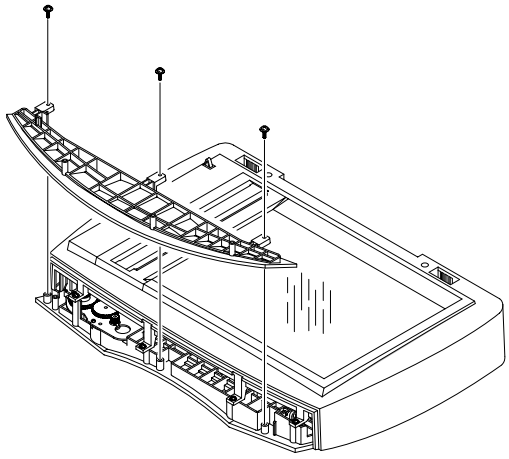
7. Pull the OPE Cover upward and remove it.



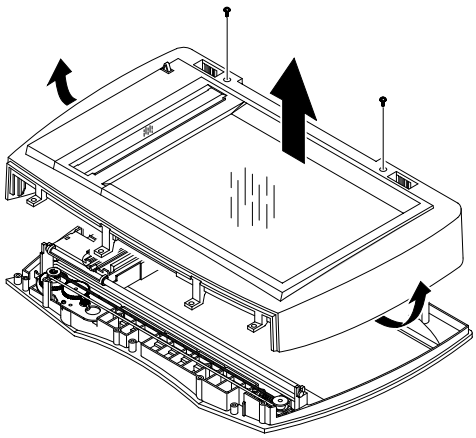
8. Remove six screws securing the OPE Upper and unplug the two connectors from the OPE panel.



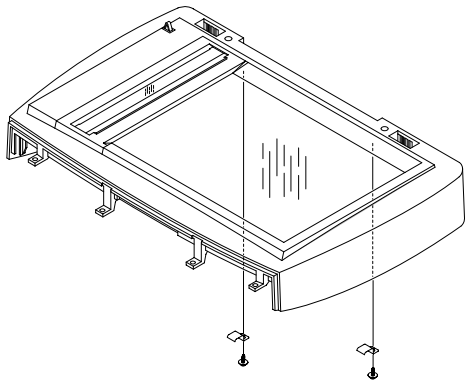
9. Remove three screws securing the OPE lower and remove it.



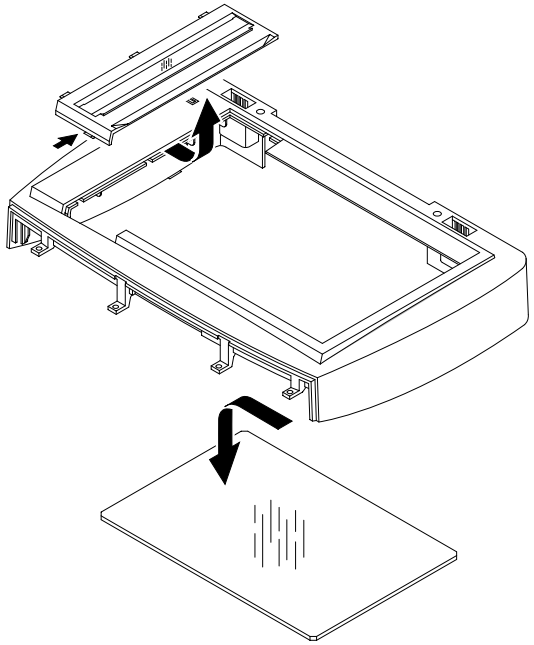
10. Remove two screws and unlatch the scan lawer securing the scan upper and remove it.



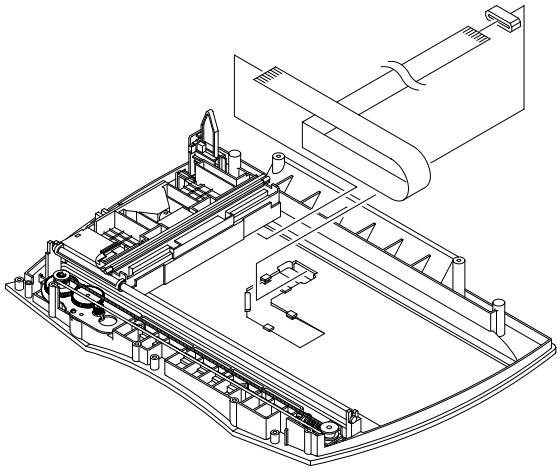
11. Remove the two screws securing the scan upper and take out the glass holder.



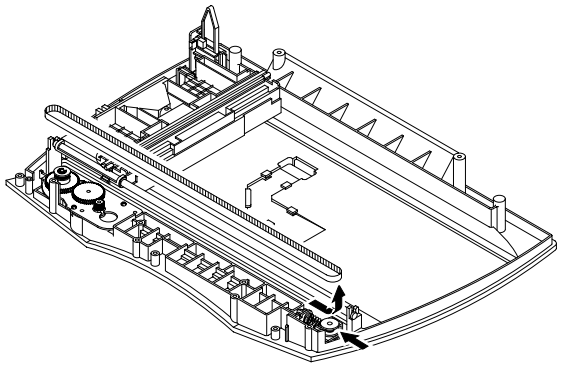
12. Unlatch the Scan Dummy and take out the Glass from the Scan Upper.



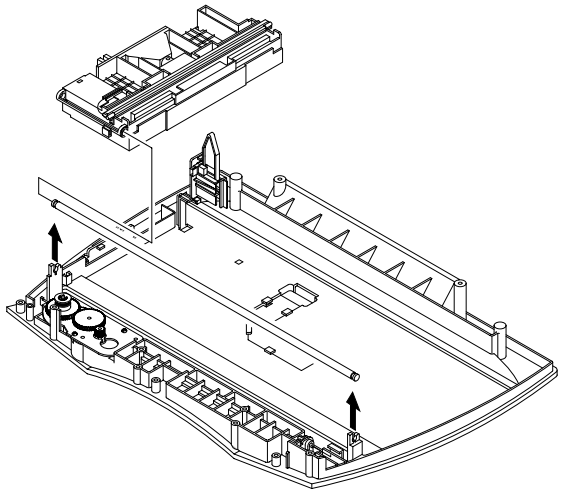
13. Remove the CCD Cable.



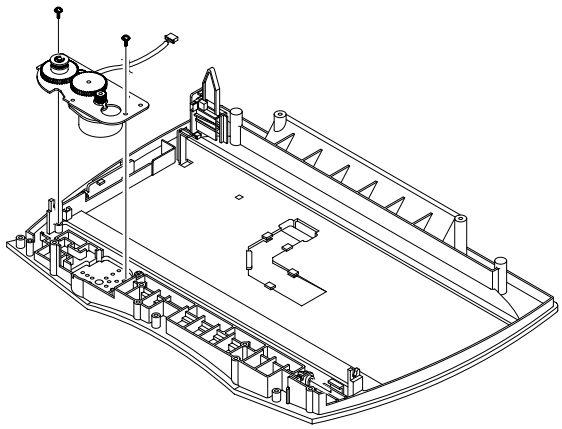
14. Push the Belt Holder and take out the Belt, as shown below.



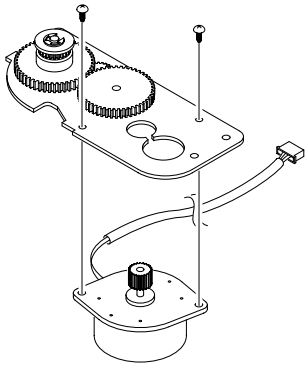
15. Pull up the CCD Shaft and take out the Scanner Module.



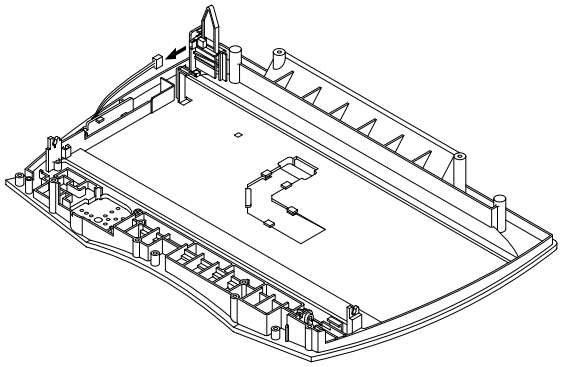
16. Remove two screws and take out the Motor Bracket.



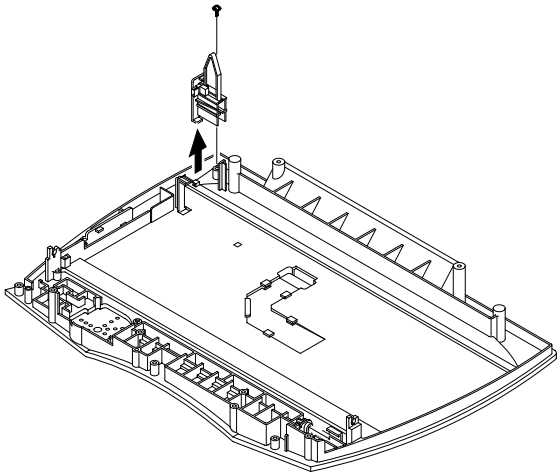
17. Remove two screws securing the Scan Motor and remove it.



18. Unplug the one connector from the open Sensor Ass'y.



19. Remove the one screw securing the open Sensor Ass'y and remove it.

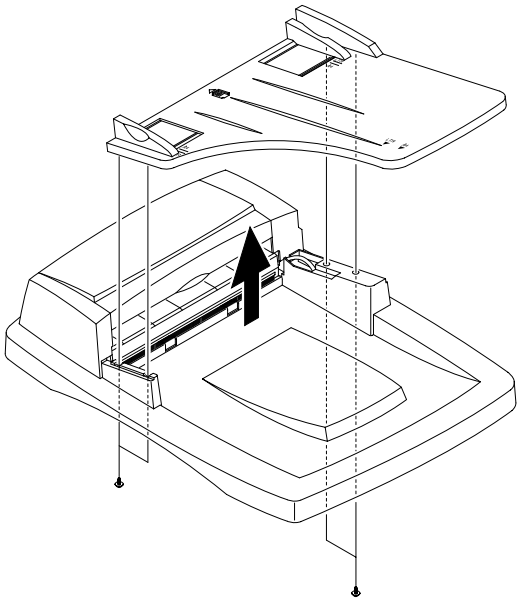


3-3 ADF Motor Ass'y

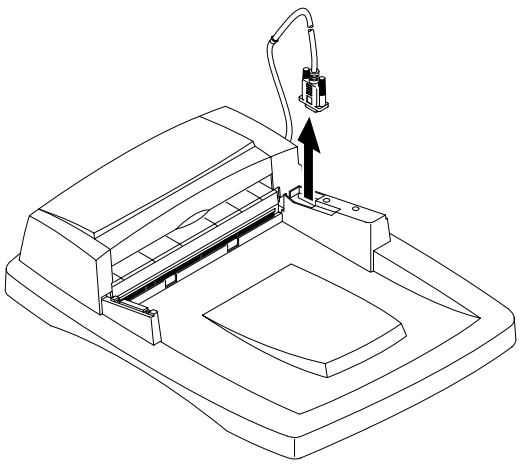
1. Before you remove the ADF Motor Ass'y, you should remove:

   • Scanner Ass'y (see page 3-2)

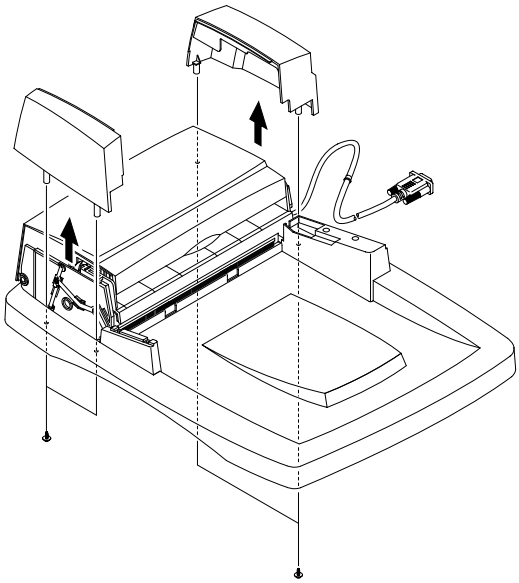
2. Remove the four screws securing the TX Stacker and remove it.



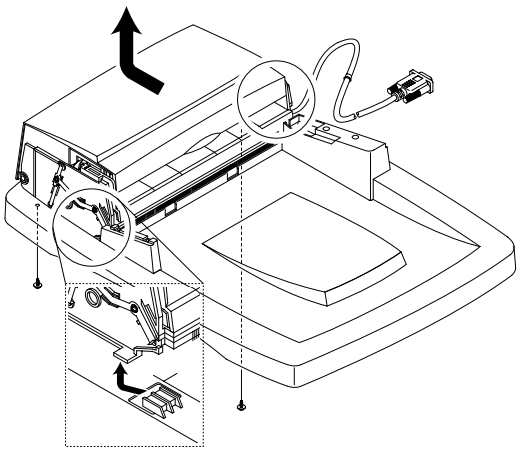
3. Take out the ADF connector.



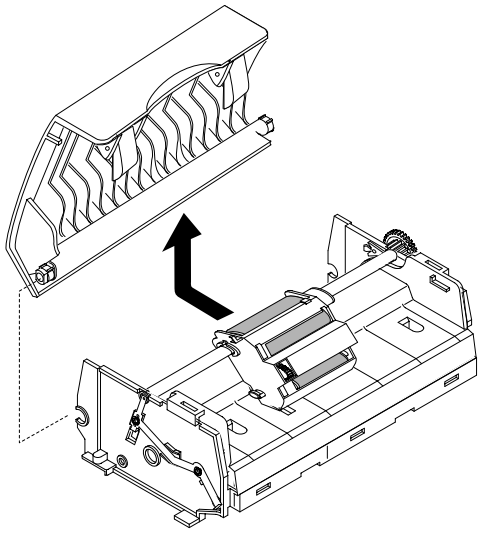
4. Remove the four screws securing the Side Cover(L,R) and remove it.



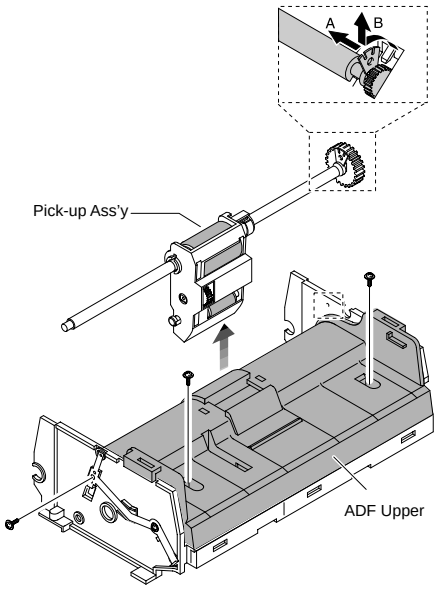
5. Remove the two screws securing the ADF Unit and remove it.



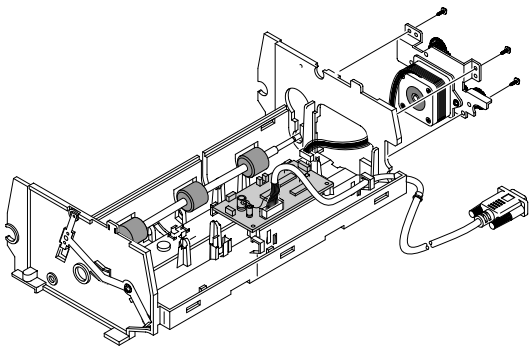
6. Take out the Open Cover.



7. Take out the Pick-Up Ass'y & ADF Upper.



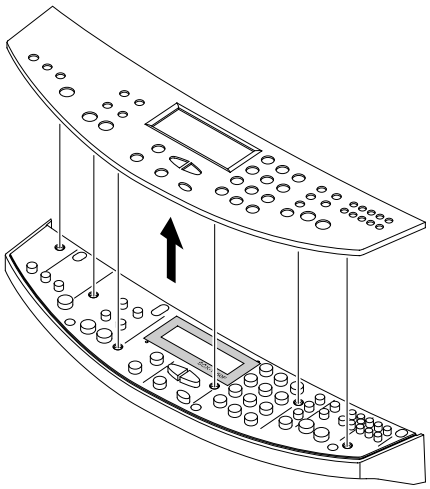
8. Remove the three screws and the one Connector securing the ADF unit and remove it.



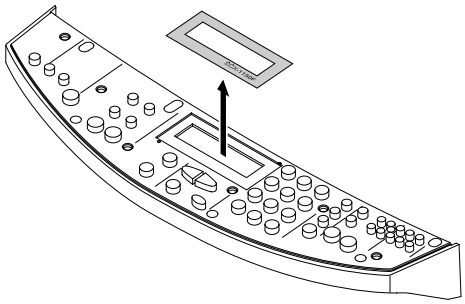
3-4 OPE Unit

1. Before you remove the OPE Unit, you should remove:
   - Scanner Ass'y (see page 3-2)

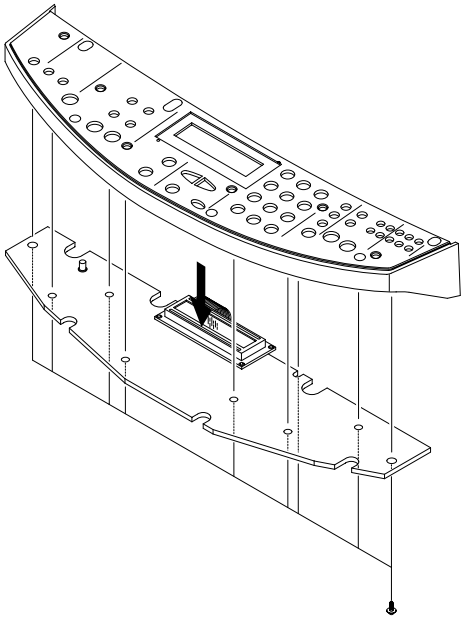
2. Pull the OPE Cover upward and remove it.



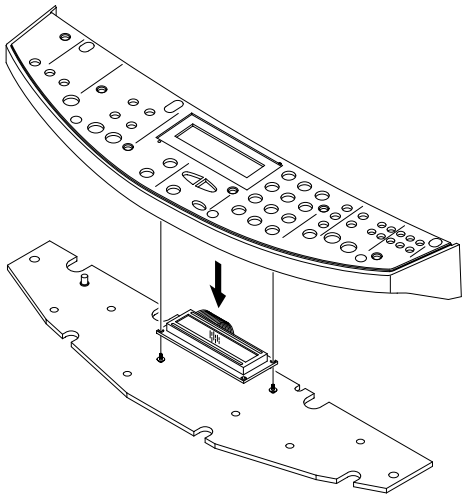
3. Take out the LCD window from the OPE Upper.



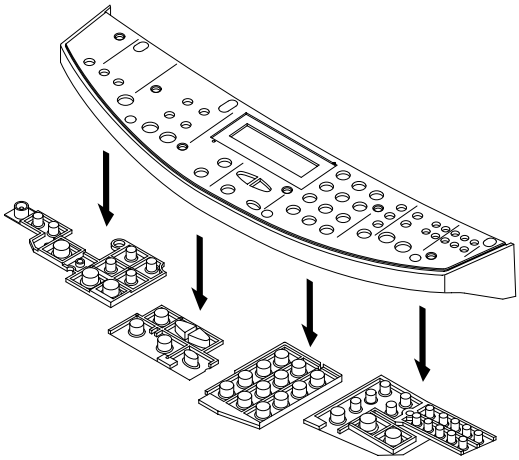
4. Remove nine screws securing the OPE Upper to the OPE panel.



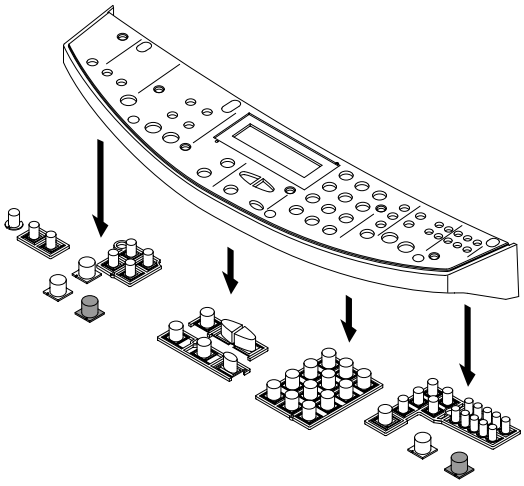
5. Remove two screws securing the OPE Upper to the LCD Board.



6. Remove the contact rubber from the OPE Upper.



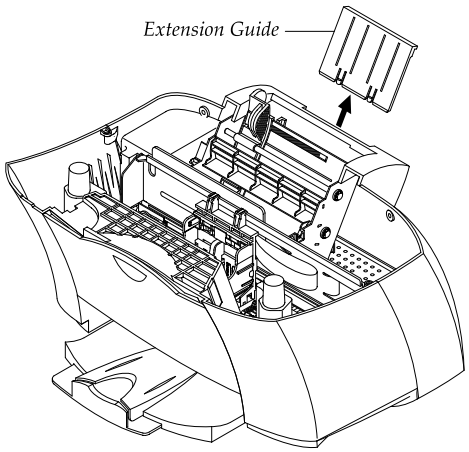
7. Remove the Key pad from the OPE Upper.



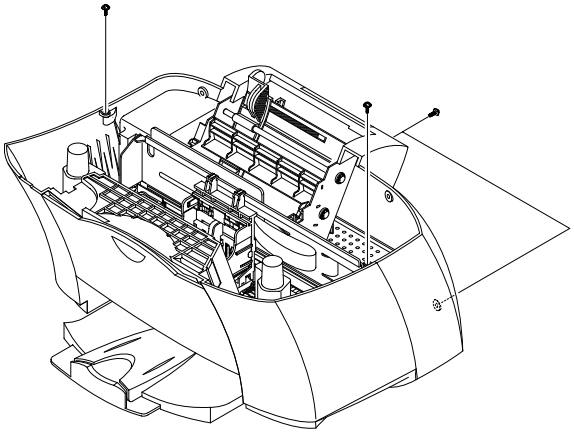
3-5 Rear Cover

1. Before you remove the rear Cover, you should remove:
   - Scanner Ass'y (see page 3-2)

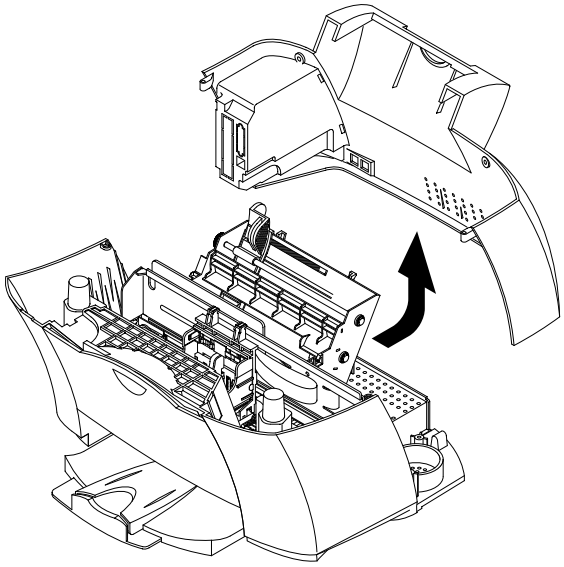
2. Pull the extension guide upward and remove it.



3. Remove four screws securing the rear cover.



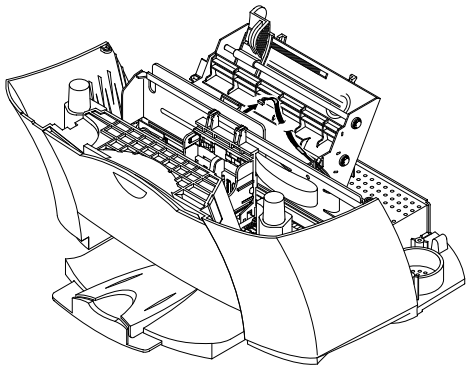
4. Remove the rear cover, as shown below.



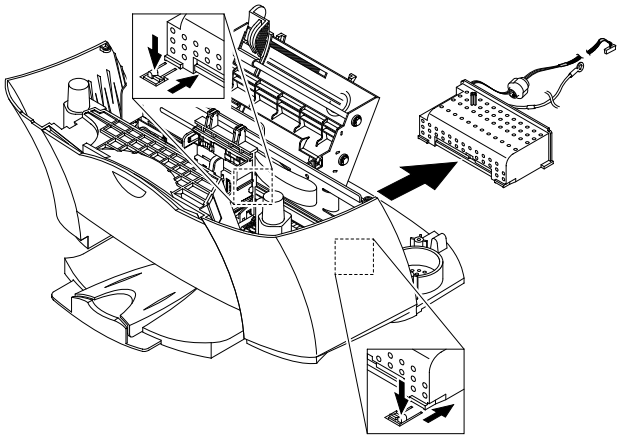
3-6 SMPS

1. Before you remove the SMPS, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)

2. Unplug the one connector from the main PBA.



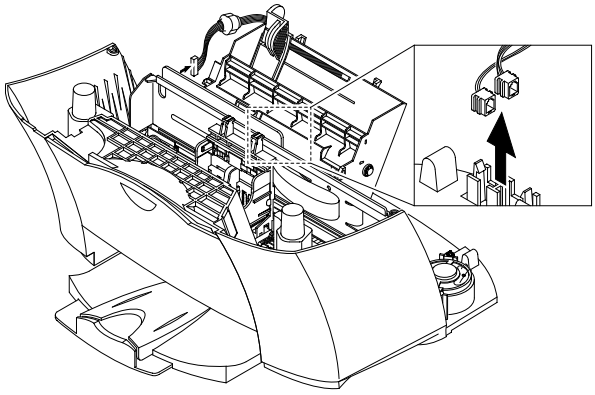
3. Pushing down the Hooks on both ends, pullout the SMPS.



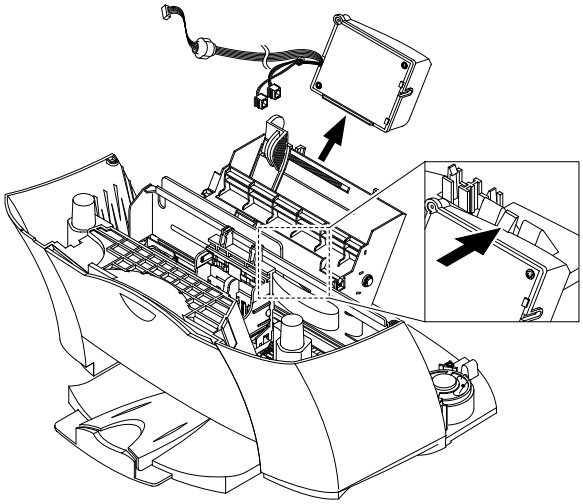
3-7 LIU Board

1. Before you remove the LIU Board, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)

2. Unplug the one connector and modular, as shown below.



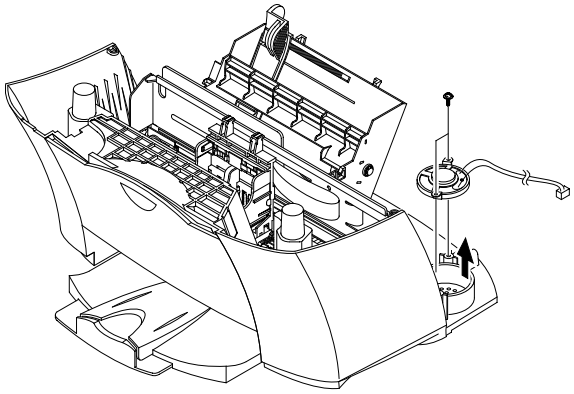
3. Pull up the Hook on both end, take out the LIU Board.



3-8 Speaker Ass'y

1. Before you remove the speaker Ass'y, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)

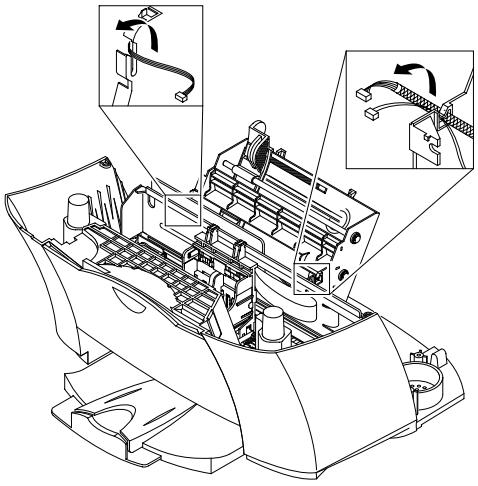
2. Remove the two screws securing the speaker Ass'y and remove it.



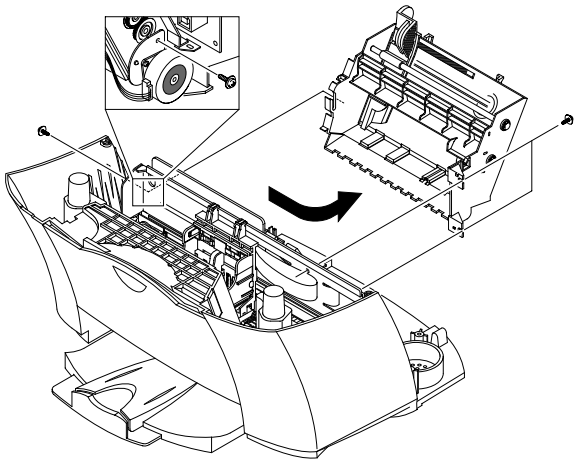
3-9 ASF Feeder

1. Before you remove the asf feeder, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)
   - SMPS (see page 3-10)

2. Make sure the harness is released from the Hooks, as shown below.



3. Remove three screws securing the ASF feeder to the Main Cover.
   Take out the ASF feeder.

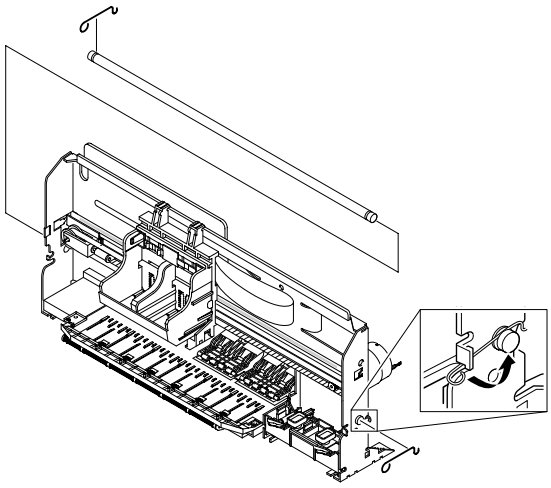


3-10 Cartridge Ass'y

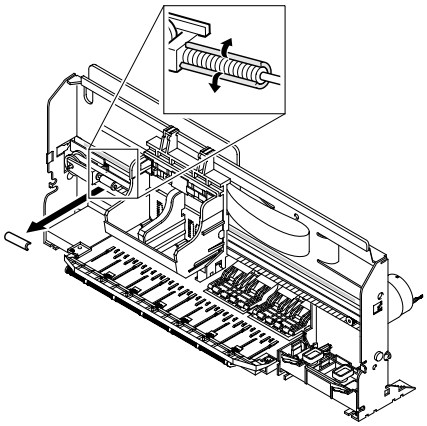
1. Before you remove the cartridge Ass'y you should remove:

   • Scanner Ass'y (see page 3-2)
   • Rear Cover (see page 3-9)
   • Engine Ass'y
   • ASF Feeder (see page 3-11)

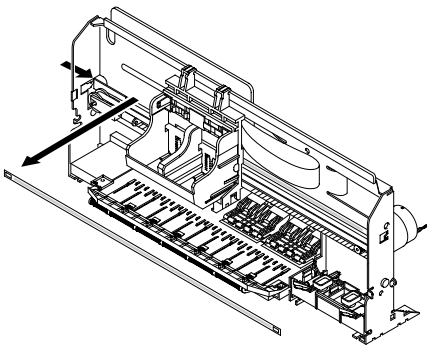
2. Rotate to remove both Springs securing the carrier shaft. Then take out the carrier shaft.



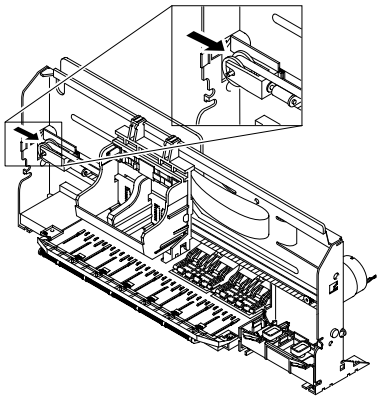
3. Remove the C-cab.



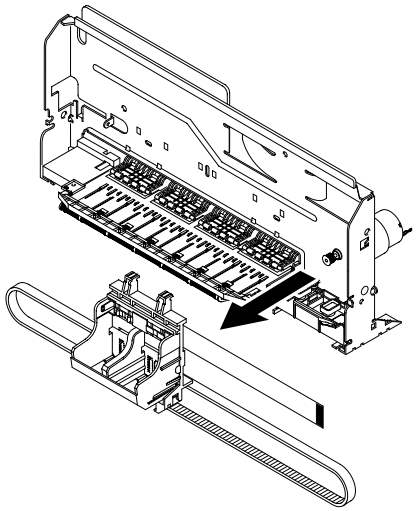
4. Take out the emcoder strip, as shown below.



5. Push the holder pulley to the right and take out the belt.



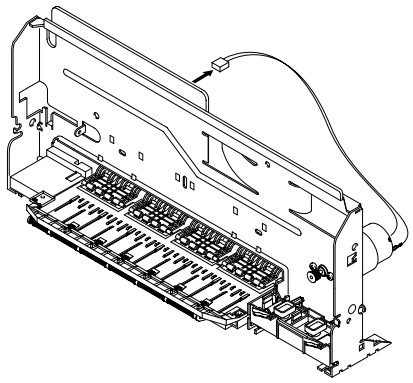
6. Take out the cartridge carrier from the Main Frame.



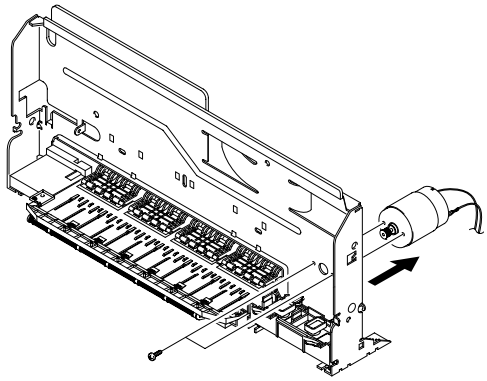
3-11 Carrier Motor

1. Before you remove the carrier motor, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)
   - Engine Ass'y
   - ASF Feeder (see page 3-11)
   - Cartridge Ass'y (see page 3-12)

2. Unplug the one connector from the main PBA.



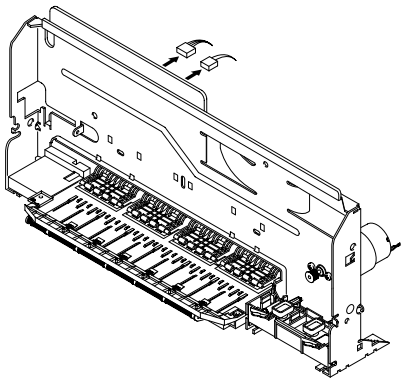
3. Remove two screws securing the carrier motor and take out the motor from the Main Frame.



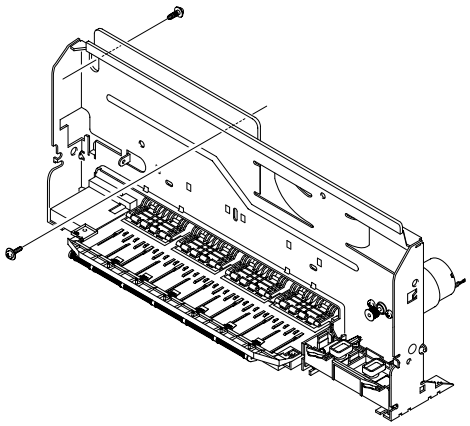
3-12 Main PBA

1. Before you remove the main PBA, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)
   - Engine Ass'y
   - ASF Feeder (see page 3-11)
   - Cartridge Ass'y (see page 3-12)

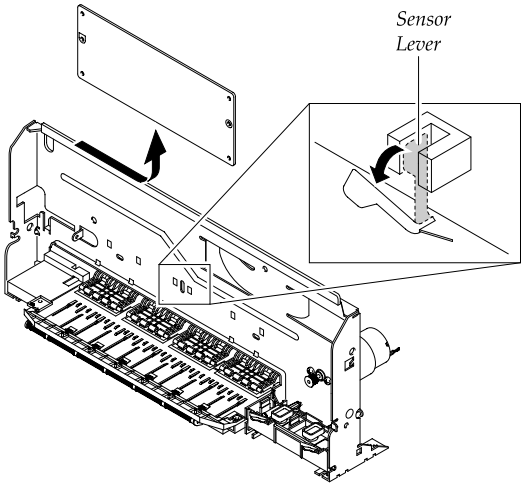
2. Unplug all connectors from the main PBA.



3. Remove the two screws securing the main PBA.



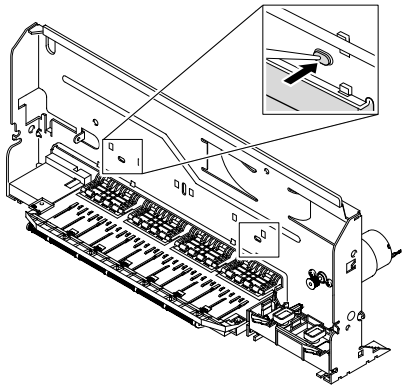
4. Pull the sensor lever backward and take out the main PBA, as shown below.



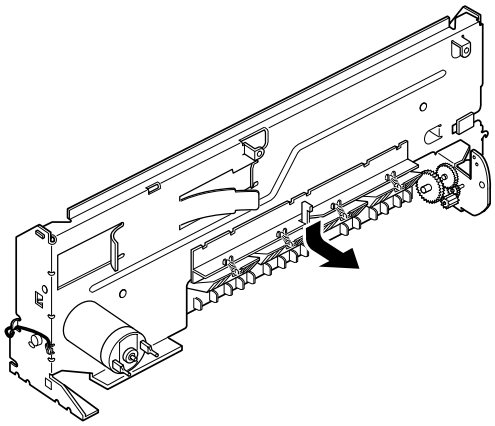
3-13 Holder Roller

1. Before you remove the holder Roller, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)
   - Engine Ass'y
   - ASF Feeder (see page 3-11)
   - Cartridge Ass'y (see page 3-12)
   - Main PBA (see page 3-14)

2. Unlatch the Holder by pushing the parts Hooked to the Main Frame using a Sharp tool.



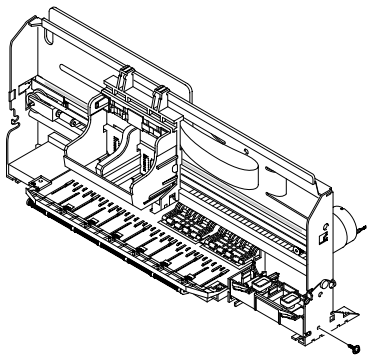
3. Pull the Holder downward and take it out from the Main Frame.



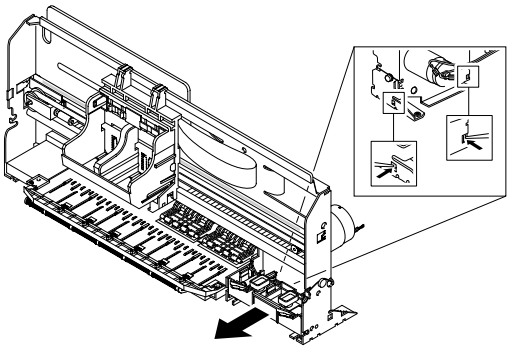
3-14 Home Ass'y

1. Before you remove the Home Ass'y you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)
   - Engine Ass'y
   - ASF Feeder (see page 3-11)

2. Remove one screw securing the Home Ass'y.



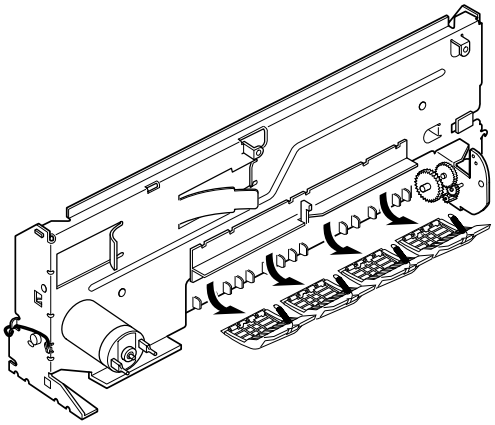
3. Unlatch the Home Ass'y by pushing the parts Hooked to the Main Frame using a sharp tool. Take out the Home Ass'y from the Main Frame.



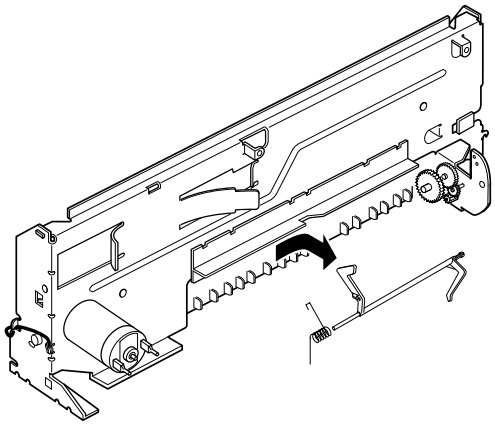
3-15 Base Frame

1. Before you remove the Base Frame, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)
   - Engine Ass'y
   - ASF Feeder (see page 3-11)
   - Cartridge Ass'y (see page 3-12)
   - Main PBA (see page 3-14)
   - Hold Roller (see page 3-15)
   - Home Ass'y (see page 3-15)

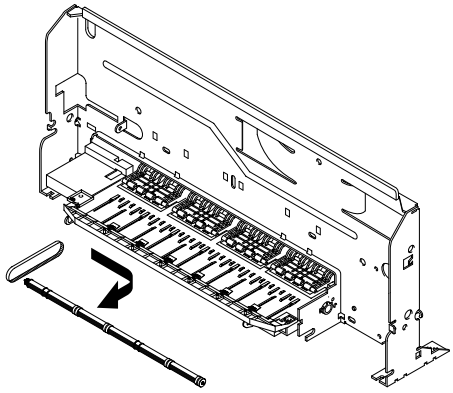
2. Remove the four Springs and take out the four Roller frictions, as shown below.



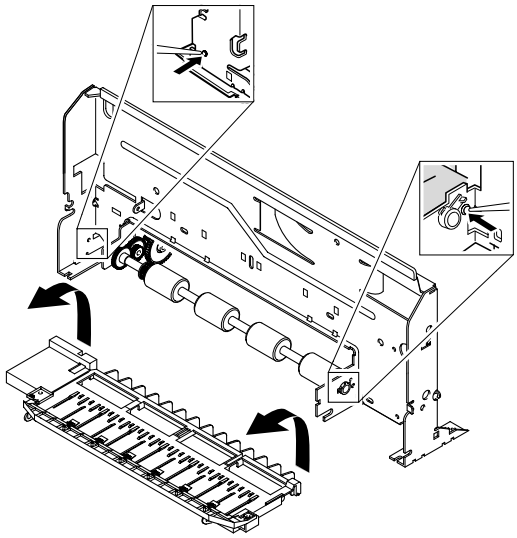
3. Take out the Actuator Feed from the Main Frame, as shown below.



4. Remove the Exit Roller from the Main Frame and take out the Exit Belt.



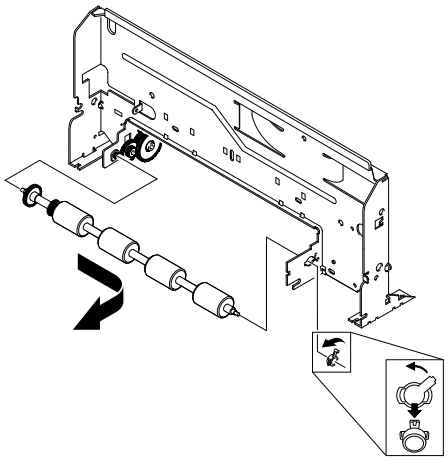
5. Unlatch the Base Frame Ass'y by pushing the parts Hooked to the Main Frame using a Sharp Tool, as shown below.



3-16 Feed Roller

1. Before you remove the Feed Roller, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)
   - Engine Ass'y
   - ASF Feeder (see page 3-11)
   - Cartridge Ass'y (see page 3-12)
   - Main PBA (see page 3-14)
   - Hold Roller (see page 3-15)
   - Home Ass'y (see page 3-15)
   - Base Frame (see page 3-16)

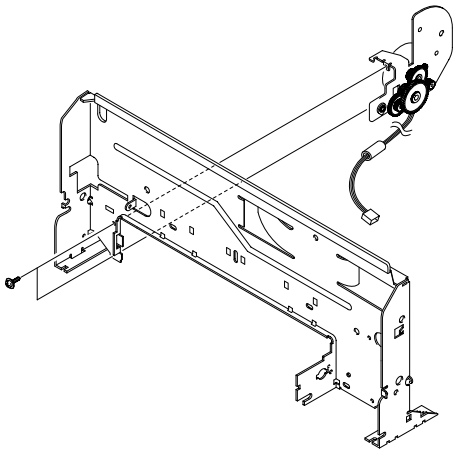
2. Turn the Bearing Feed counterclockwise and take out the Base Frame and Feed Roller from the Main Frame.



3-17 Line Feed Bracket Ass'y

1. Before you remove the LF Bracket Ass'y, you should remove:
   - Scanner Ass'y (see page 3-2)
   - Rear Cover (see page 3-9)
   - Engine Ass'y
   - ASF Feeder (see page 3-11)
   - Cartridge Ass'y (see page 3-12)
   - Main PBA (see page 3-14)
   - Hold Roller (see page 3-15)
   - Home Ass'y (see page 3-15)
   - Base Frame (see page 3-16)
   - Feed Roller (see page 3-17)

2. Remove two screws and take out the LF Bracket Ass'y from the Main Frame.



4. Troubleshooting

4-1 Setting-up System in User Mode

FUNCTION	ITEM	CONTENT	DEFAULT
SYSTEM SETUP	FAX NUMBER/NAME	FAX NUMBER FAX NAME	
	DATE FORMAT	EUROPE/USA	EUROPE
	DATE/TIME		
	LANGUAGE	ENG/GER/FRE/ITA/SPA/POR/DUT	ENGLISH
	DISCARD SIZE	0~30MM	20 MM
	RINGER VOLUME	OFF/LOW/MID/HIGH	MID
	ALARM VOLUME	ON/OFF	ON
	KEY VOLUME	ON/OFF	ON
	DIALING MODE	TONE/PLUSE	TONE
	CLOCK MODE	24HOURS/12HOURS	24 HOURS
	USB MODE	FAST/SLOW	FAST
	SET DEFAULT	CONTRAST	
		QUALITY	
		COPY PAGE	
		ZOME RATE	
		RESOLUTION	
FAX SETUP	SEND FORM MEMORY	ON/OFF	ON
	SENDING CONFIRM	ON/OFF/ERROR	ERROR
	FAX PAPER SIZE	LETTER/A4/LEGAL	A4
	AUTO REDUCTION	ON/OFF	ON
	SAVE TOLL TIME	START TIME _ _ : _ _	
	RINGS TO ANSWER	1-7 TIME	1
	STAMP RCV. NAME	ON/OFF	OFF
	RCV. START CODE	* _ *	9
	DRPD MODE	ON/OFF	OFF
	ECM MODE	ON/OFF	ON
	CALLER ID	ON/OFF	OFF
	AUTO JOURNAL	ON/OFF	ON
COPY SET UP	PAPER SIZE	LETTER/A4/LEGAL	A4
	PAPER TYPE	PLAIN/INKJET/PHOTO/TRANSPARENCY	PLAIN PAPER
	COLLATE	ON/OFF	OFF
ADVANCED FAX	BROADCASTING		
	DELAYED FAX		
	PRIORITY FAX		
	SEND POLLING		
	ADD SCHEDULE		
	CANCEL SCHEDULE		
REPORT/HELP	HELP LIST		
	SENT JOURNAL		
	RECEIVED JOURNAL		
	PHONEBOOK		
	SEADING CONFIRM		
	SCHEDULE INFORM		
	SYSTEM DATA		
	SELF TEST		
	CID LIST		
GROUP DIAL SET			
MEMORY CLEAR	FAX NUMBER/NAME		
	DIAL/SCHEDULE		
	JOURNAL		
	DEFAULT SETUP		
MAINTENANCE	CLEAN CARTRIDGE		
	ALIGN CARTRIDGE		
	VIEW INK LEVEL	"COLOR : _/8 , BLOCK : _/8"	
	ADJUST SHADING		
	REMOTE TEST	ON/OFF	OFF

4-2 Tech Mode

4-2-1 HOW TO ENTER Tech Mode

In Tech Mode (tech) mode, the technician can check the machine and perform various test to isolate the cause of a malfunction.

To enter the Tech Mode, press **MENU, #, 1, 9, 3, 4** in sequence, and the LCD briefly displays 'T', the machine has entered service (tech) mode.

While in Tech Mode, the machine still performs all normal operations.

To return to normal user mode, press **MENU, #, 1, 9, 3, 4** in sequence again, or turn the power off, then on by unplugging and plugging the power cord.

Options changed while in Tech Mode do not remain changed unless you clear the machine's memory.

Because the explanation of the User Mode items is already mentioned at the User guide in detail, It will not be described at Service manual.

4-2-2 Setting-up System in Tech Mode

FUNCTION	ITEM	CONTENT	DEFAULT
SYSTEM SETUP	MODEM TEST		
	DTMF TEST		
	ROM TEST	Display ROM version	
	PROGRAM DOWNLOAD		
	AGING TEST		
FAX SETUP	MODEM SPEED	2.4/4.8/7.2/9.6/12.0/14.4/28.8/33.6	26.4 KBPS
	SEND FAX LEVEL	0~15	-12 DBM
	RCV. FAX LEVEL	40~50	-43DBM
	DTMF HIGH LEVEL	00~15	8
	DTMF LOW LEVEL	00~15	11
	PAUSE TIME	1~9	4 SEC
	ERROR RATE	5%/10%	10%
	MAKE/BREAK RATIO	40/60~33/67	33/67
	CNG DETECT COUNT	1~4	2
	AUTODIAL TIMEOUT	30~150	55
	DIAL MODE LOC.	USER/TECH	USER
COPY SET UP	The same items as user mode.		
ADVANCED FAX	The same items as user mode.		
REPORT/HELP	HELP LIST		
	SENT JOURNAL		
	RECEIVED JOURNAL		
	PHONEBOOK		
	SEADING CONFIRM		
	SCHEDULE INFORM		
	SYSTEM DATA		
	SELF TEST		
	CID LIST		
	PROTOCOL DUMP		
	CCD SHADING		
	ASF TEST		
GROUP DIAL SET	The same items as user mode.		
MEMORY CLEAR	ALL MEMORY CLEAR		
MAINTENANCE	CLEAN CARTRIDGE		
	ALIGN CARTRIDGE		
	VIEW INK LEVEL	"COLOR : _/8 , BLOCK : _/8"	
	ADJUST SHADING		PATTERN OUTPUT
	REMOTE TEST	ON/OFF	OFF

SYSTEM SETUP

• MODEM TEST :

Use this feature to hear various transmission signals to the telephone line from the modem and to check the modem. If no transmission signal sound is heard, it means that the modem part of the main board is poor.

• DTMF TEST :

DTMF (Dual Tone Multi Frequency) signal. When you press any key on the number keypad including * and #, you will hear the corresponding key tone.

• ROM TEST :

Use this feature to test the machine'S ROM. The result and the software version appear in the LCD display.

• PROGRAM DOWNLOAD :

Use this feature to download a new upgraded ROM file from a PC which is connected to the machine with a parallel cable (IEEE 1284).

< Download >

1. Connect printer to PC with a parallel cable(IEEE 1284.)
2. Select the ***PROGRAM DOWNLOAD*** function at the TECH MODE.
3. Input ***COPY/B FILENAME PRN*** at the MS-DOS and push the ENTER key.
   (filename : the latest ROM file name when the downloading)
4. After the download is completed, the system will be automatically initialized.

• KEY TEST

The function is to test the capacity of product in the production progress. Service person doesn't need to use it.

FAX SETUP

• MODEM SPEED :

You can set the maximum modem speed. Communication is done with modem speed automatically set at lower speed when communicating with the modem with lower speed since communication is done on the standard of the side where modem speed is low for transmission/reception. It is better set 26.4KBPS as default setting.

• SEND FAX LEVEL :

You can set the level of the transmission signal. Typically, the Tx level should be under -12 dBm.

⚠ Caution : The Send Fax Level is set at the best condition in the shipment from factory. Never change settings arbitrarily.

• RCV FAX LEVEL :

- You can set the level of the receiving signal.
- The reception level may be too low due to the cable losses.
- If it is set to -43 dBm, the reception sensitivity will be between 0 and -43 dBm. If it is set to -48 dBm, the reception sensitivity will be between 0 and -48 dBm.

⚠ Caution : The Send Fax Level is set at the best condition in the shipment from factory. Never change settings arbitrarily.

• DTMF HIGH LEVEL :

Select high frequency level when dialing in the MF mode.The input range is between 00~15dBm.

⚠ Caution : The Send Fax Level is set at the best condition in the shipment from factory. Never change settings arbitrarily.

• DTMF LOW LEVEL :

Select high frequency level when dialing in the MF mode.The input range is between 00~15dBm.

⚠ Caution : The Send Fax Level is set at the best condition in the shipment from factory. Never change settings arbitrarily.

• PAUSE TIME :

Pause time mean delay time (unit: second) inserted between dial number signal and the next number of signal in the automatic dial (One touch, Speed dial, Redial) and the manual dial.

⚠ Caution : The Send Fax Level is set at the best condition in the shipment from factory. Never change settings arbitrarily.

• ERROR RATE :

- When the error rate is about to be over the setting value, the Baud rate automatically lowers up to 2400 bps to make the error rate remain below the setting value.
- You can select the rate between 5% and 10%.

- **Make/Break RATIO :**
  Select the dial pulse make and break time: 40-60 or 33-67.

  Caution : Send Fax Level is set at the best condition in the shipment from factory. Never change settings arbitrarily.

- **CNG DETECT COUNT :**
  The function is to control the CNG TONE cognition times for entering receiving mode from the AUTO MODE or ANS/FAX MODE.

- **AUTODIAL TIMEOUT :**
  It is the certain time to be converting to STANDBY in case of a receiver doesn't answer when caller uses AUTO DIAL, such as ONE-TOUCH/SPEED DIAL/RESERVED SENDING and etc.

- **DIAL MODE LOC. :**
  The function is to take care the DIAL MODE SETTING, which is set in at USER MODE or TECH MODE differently by countries.
  If you select the USER MODE, you can choose DIAL MODE OPTION at the USER MODE.

4-2-3 REPORT/HELP

HELP LIST

It shows a brief description on the machine's basic functions and commands.
Use it as a quick reference guide.

SENT JOURNAL

This journal shows a specific information concerning transmission activities, the time and dates of up to 40 of the most recent transmissions.

RECEIVED JOURNAL

This journal shows a specific information concerning reception activities, the time and dates of up to 40 of the most recent receptions.

PHONEBOOK

It lists all telephone numbers that have been stored in the machine.

SENDING CONFIRM

It shows the result of the last send operation.

SCHEDULE INFORM

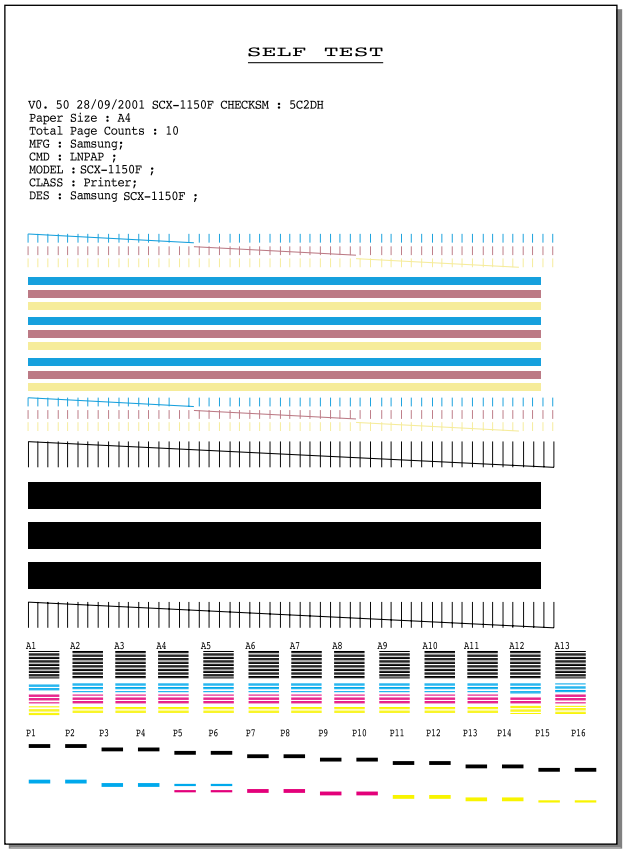
This list shows a specific information on the documents currently stored for delayed transmission. It provides the operation number, starting time, type of operation, etc.

SYSTEM DATA

This list provides a list of the user system data settings and tech mode settings.

SELF TEST

Using this pattern printout, you can check if the printer mechanism is functioning properly. Examine the pattern and look for a break in the diagonal line. If the diagonal lines are not broken, the printer mechanism is functioning properly.



CID LIST

In the country which supports CALLER ID, information of the dates and numbers of calls is stored when RING is receiving. (CALLER ID : it is a telephone service to send a caller's number to the receiver.)

JUNK FAX LIST

The function is to reject the receiving fax. Among the limited 30 numbers which are already memorized in the product by user at the CID LIST can be rejected by performing this function.

PROTOCOL DUMP

This list shows the sequence of the CCITT group 3 T.30 protocol during the most recent sending or receiving operation. Use this list to check for send and receive errors. If a communication error occurs while the machine is in TECH mode, the protocol list will print automatically.

CCD SHADING

With this print, you can check the scanning elements of the CCD(Change Coupled Device).

ASF TEST

The function is to test the function of ASF(AUTO SHEET FEEDER) and it is needed in the production progress. Service person doesn't need to use it.

4-2-4 Memory Clear

NVRAM DUMP LIST

1. Press the SETUP button until “PRINT NVRAM DUMP” is displayed in LCD.
2. Press the START button when the NVRAM Test operation menu displayed. And then the machine prints the list for NVRAM testing.

* NVRAM : NonVolatile Random Access Memory

ALL MEMORY CLEAR

The function resets the system as its very first condition as setting in at the factory. This function is needed to operate to reset the system to the initial value when the product is abnormally operated or malfunction. All the values are returned to the default values, and all the information, which set in by user, will be erased.

4-2-4-1 Method to use TECH MODE

- Perform the MEMORY CLEAR at the TECH MODE.

4-2-4-2 Method to use CANCEL BUTTON

1. Turn off the power.
2. Keep pushing the CANCEL button till the MEMORY CLEARING is shown up at the LCD panel.
3. Turn on the power.

NVRAM DUMP LIST

```
DATE : 10-MAY-2001  THU  16:22
NAME : SAMSUNG
TEL. : 82-2-123-456

LIST Left Head Detect                          :  1c
Right Head Detect                              :  7
Left Head Type                                 :  1c
Right Head Type                                :  7

< Device Identification >
   MFG:Samsung;
   CMD:LNPAP;
   MODEL:SCX-1150F;
   CLASS :Printer;
   DES:Samsung SCX-1150F;

< Dot Count Variables >
   Black Dot Count                             :  1939682
   Color Cyan Dot Count                        :  619136
   Color Magenta Dot Count                     :  619136
   Color Yellow Dot Count                      :  619136
   Photo Black Dot Count                       :  0
   Photo Cyan Dot Count                        :  0
   Photo Magenta DotCount                      :  0

   Total Black Dot Count                       :  1939682
   Total Color Cyan Dot Count                  :  619136
   Total Color Magenta Dot Count               :  619136
   Total Color Yellow Dot Count                :  619136
   Total Photo Cyan Dot Count                  :  0
   Total Photo Magenta Dot Count               :  0
   Total Photo Black Dot Count                 :  0

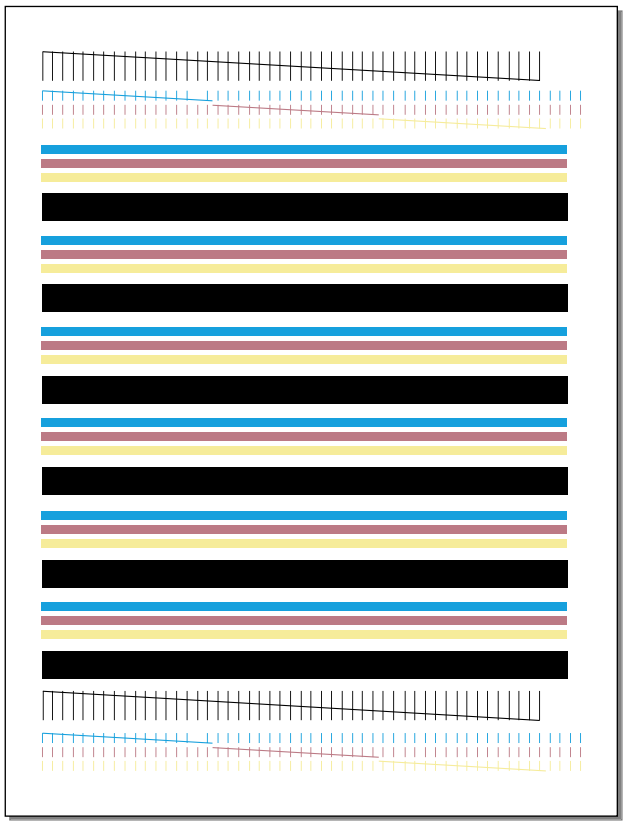
< Page Count Variables >
   Total Page Count                            :  2

< Cartridge Types >
   Left Cartridge Type                         :  Color Standard Capacity
   Right Cartridge Type                        :  Black High Capacity

< Alignment Variables >
   Horizontal Align Value                      :  15
   Vertical Align Value                        :  8
   Quick Black Bidi Align Value                :  15
   Quick Color Bidi Align Value                :  15
   Normal Black Bidi Align Value               :  15
   Normal Color Bidi Align Value               :  15
   Photo Horizontal Align Value                :  15
   Photo Vertical Align Value                  :  8
   Photo Normal Black Bidi Align Value         :  15
   Photo Normal Color Bidi Align Value         :  15
```

4-2-5 Maintenance

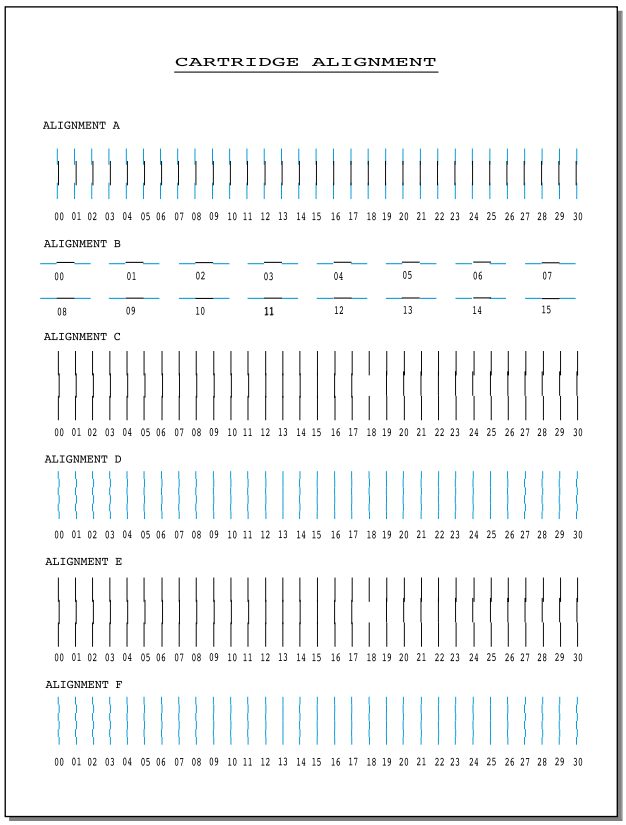
CLEAN CARTRIDGE



When white lines are appeared, when image is printed poorly in part, or when specific color is not printed, sweep the nozzle of the ink cartridge and contacting surface of the cartridge, then clean the cartridge.

Until it gets better, do it several times.

ALIGN CARTRIDGE



Using this feature to get fine print quality when a vertical line is printed not in straight or when ink cartridge is just replaced.

VIEW INK LEVEL

To check the amount of the mounted ink cartridge.

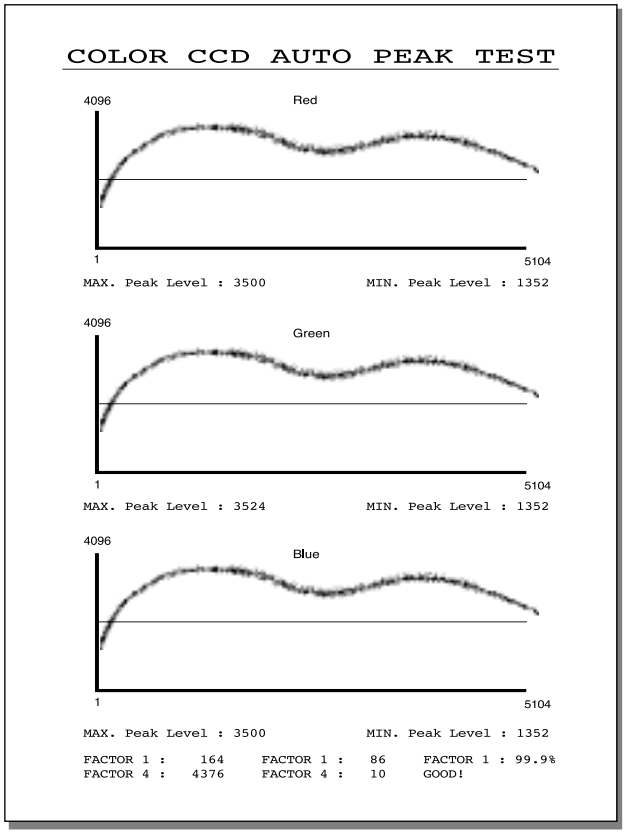
ADJUST SHADING

The function is to control to get the optimum scan quality by the specific character of the CCD(Charge Coupled Device). If the copy image quality is unsatisfied, perform the function to check the condition of the print out for checking whether or not having CCD trouble.

(ADJUST SHADING)

1. Select the [ADJUST SHADING] at the TECH MODE.
2. Push the SET UP button then an image will be scanned.
3. After the scan, CCD SHADING PROFILE will be print out.
4. If the printed image is different to the image, the CCD is defect.

⚠ **NOTICE** When you test CCD, make sure that the cover is closed.



REMOTE TEST

The Remote Test feature can be enabled in order to allow a remote location to call up and run a diagnostic test on your machine. You may be instructed by a service representative to enable this feature.

4-3. Troubleshooting

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- *The solutions of troubleshooting in this 'Service Manual' explain the expected causes and how to check according to each problem and describe how to replace the defected parts (unit of ASS'Y) if necessary.*
- *The contents of this 'Service Manual' describe general ones only among many kinds of problems and causes while using the Product.*
- *The contents of this 'Service Manual' describe mainly technical explanations of the Product H/W and parts on the assumption that there is no problem in S/W.*

4-3-1 Defective PC Scan

• **Description**	The PC Scan is not functioning at all.
• **Location**	1.Cable(USB or Parallel) 2.Driver 3.OPE ASS'Y

Check and Cause	Solution
1. Check the Cable (USB or Parallel)	1. If the PC and the cable are not connected properly, reconnect it.
2. Check if the driver is installed properly.	2. After confirming that it is proper by performing a PC printing test related to driver setup, if it is not so, reinstall it. (Refer to User's Manual.)
3. Check if copy function operation normally.	3. If copy function works, replace the main PBA. If copy function doesn't work, replace the CCD Ass'y and try again.

4-3-2 Defective Image Quality of PC Scan

• **Description**	The image PC scanned is not clear or bad.
• **Location**	1.CCD ASS'Y , 2.Main B'D

Check and Cause	Solution
1. Check the waveform form by performing a CCD test in TECH mode. (Refer to 4-2-5)	1. If the CCD waveform form is abnormal, try to replace CCD ASS'Y.
2. Check if the resolution is set too low in PC Scan options. (Refer to User's Manual.)	2. If the resolution is set to low, let the user be acquainted with the using method well.

4-3-3 Defective Operation (LCD WINDOW ■■■) Display

• **Description**	Strange characters are displayed on the OPE Panel and buttons are not operated.
• **Location**	1.OPE ASS'Y 2.Connection between the Main B'D and OPE ASS'Y 3.Main B'D.

Check and Cause	Solution
1. Clear the memory. 2. Check if OPE HARNESS is connected to the Main Board correctly.	1. Try again after clearing the memory. 2. After confirming that OPE HARNESS is connected to the Main Board correctly, if it is so, then replace the OPE ASS'Y and Main Board in sequence.

4-3-4 No Power

• **Description**	While the power S/W is turned on, it does not work at all.
• **Location**	1.Power code 2.Connection between the Main B'D and Power HARNESS 3.Power ASS'Y 4.Main B'D.

Check and Cause	Solution
1. Check if the connection of power code is normal. 2. Check if DC +3.3V and +30V is supplied to POWER ASS'Y from MAIN B'd.	1. Try to replace the power code. 2. If all the connections are correct, try to replace the power ASS'Y and the Main B/D in sequence. (+3.3V and +30V is supplied to POWER ASS'Y from MAIN B'd)

4-3-5 Defective LCD Operation

• **Description**	The LCD screen is not turned on or has a strange display. 1.LCD 2.OPE Ass'y 3.Main B'd

Check and Cause	Solution
1. Clear the memory. (Refer to page 4-2-4). 2. Confirm to catch a click sound, while a key on the OPE panel is pressed on. 3. Check the status of Harness between LCD and OPE Panel, replace in order of Main B'd.	1. If you cannot catch a click sound, the key is wrong itself or wrongly assembled. 2. Even after the key has been replaced, it is still wrong, try to replace the OPE ASS'Y and the Main B'D in sequence.

4-3-6 Defective Operation of Key Button

• **Description**	The button of the OPE Panel is not operated.
• **Location**	1. OPE ASS'Y 2. Main Board

Check and Cause	Solution
1. Confirm to catch a click sound while the key is pressed on. 2. Check if a specific key is pressed by another equipment.	1. If you cannot catch a click sound, the key is wrong itself or wrongly assembled. 2. Even after the key has been replaced, it is still wrong, try to replace the OPE ASS'Y and the Main B'D in sequence.

4-3-7 Paper Jam

• **Description**	The paper is jammed inside the set and not exited from.
• **Location**	ASF ASS'Y

Check and Cause	Solution
1. Check if the paper is crumpled or preprinted. 2. Check if too many sheets of recording paper are put into ASF (Automatic Sheet Feeder). (Standard : up to 100 sheets). 3. Check if the remaining papers are stuck in the frame base.	1. If the papers jammed or pieces of the paper are stuck inside the set, remove them and then try it again. 2. If the problem still exists, try to replace ASF ASS'Y.

4-3-8 Defective Paper Feed (1)

• **Description**	A recording paper is tilted while feeding.
• **Location**	ASF ASS'Y

Check and Cause	Solution
1. Check if the paper guide of ASF (Automatic Sheet Feeder) is set up properly with the width of recording paper. 2. Check if too many sheets of recording paper are put into ASF (Automatic Sheet Feeder). (Standard: up to 100 sheets). 3. Check if the recording paper is crumpled or preprinted.	1. After all have been checked, the problem still exists, try to replace the ASF ASS'Y.

4-3-9 Defective Paper Feed (2)-Display of NO PAPER

• **Description**	paper does not feed into the printer.
• **Location**	1. ASF ASS'Y 2. Main B'd 3. LF Motor

Check and Cause	Solution
1. Press ENTER button to check.	1. Even if the ENTER button is pressed, a recording paper is not drawn into, then try to replace the ASF ASS'Y. 2. Even if the ASF Ass'y has been replaced, it is still wrong, try to replace the Main B'd and the LF Motor in sequence.

4-3-10 Multi-Feeding (1)

• **Description**	Multiple-sheets of recording paper are fed at once.
• **Location**	ASF ASS'Y

Check and Cause	Solution
1. Adjust the paper guide of ASF to the width of paper correctly. 2. Check if the recording paper is preprinted or crumpled. 3. Check if too many sheets of recording paper are put into ASF (Automatic Sheet Feeder). (Standard: up to 100 sheets).	1. Blow several times of puff into the paper in order to prevent static electricity. 2. Even after the papers are loaded correctly, if multiple sheets of paper are still fed at once, then try to replace the ASF ASS'Y.

4-3-11 Defective ADF

• **Description**	ADF (Automatic document Feeder) is not properly operated.
• **Location**	OPE ASS'Y.

Check and Cause	Solution
1. Check if ADF rubber and HOLDER rubber are damaged.	1. Replace the contaminated or damaged part.
2. Check if the document sensors of ADF ASS'Y (3 paper sensors) are normal.	2. If you cannot confirm the damaged part with the naked eye, try to replace the ADF ASS'Y.

4-3-12 Defective Sensing-ink

• **Description**	The ink is put in the set, but it cannot sensed.
• **Location**	1.Cartridge ASS'Y 2.Main B'D

Check and Cause	Solution
1. Check if the cartridge is installed in the cartridge box properly. (It makes a click sound normally when it is normal.)	1. Even after the cartridge is installed normally, it still cannot sense, then try to replace the Main B'D.
2. Check if the cartridge box is operated normally.	2. In case the cartridge box is not moved from side to side, check the Flat Cable connection between the Main PBA & Frame Home Unit, and even after being connected properly, if it is still not improved, then try to replace the cartridge ASS'Y.
3. Check if there is an alien matter in the Dimple contact point of HEAD of CARTRIDGE BOX	

4-3-13 Defective Motor Drive (LF)

• **Description**	The motor drive of Line Feeder is not working.
• **Location**	1.Main B'D. 2.LF Motor

Check and Cause	Solution
1. Check if the connector of LF Motor is connected to the Main B'D normally.	1. Try to replace the Main B'D and the LF Motor ASS'Y in sequence.

4-3-14 Defective Motor Drive (CR)

• **Description**	The drive of CR Motor is not working.
• **Location**	1.Main B'D 2.CR Motor

Check and Cause	Solution
1. Check if the connector of CR Motor is connected to the Main B'D normally.	1. Try to replace the Main B'D, the CR Motor ASS'Y in sequence.

4-3-15 Defective Motor Drive (SCAN)

• **Description**	The TX Motor is not driven.
• **Location**	1.Main B'D 2.TX Motor

Check and Cause	Solution
1. Check if the connector of Scan Motor is connected to the Main B'D normally.	1. Try to replace the Main B'D and the Scan Motor ASS'Y in sequence.

4-3-16 Blank Page Print Out (When Copying)

• **Description**	Blank page is printed out when copying.
• **Location**	1.CCD ASS'Y 2.Main B'D

Check and Cause	Solution
1. Check if the recording papers are inserted reversely.	1. Insert the paper with the copy side.
2. Perform the CCD test in the service mode.	2. In case the output waveform is abnormal in the CCD test, replace the CCD ASS'Y, while replace the Main B'D in normal.

4-3-17 Blank Page Print Out (When Receiving)

• **Description**	Blank page is printed out when receiving.
• **Location**	1.Ink cartridge 2.Main B'D.

Check and Cause	Solution
1. Check if the sender transmits the document properly. 2. Check if there remains some amount of ink. (Ex: COPY TEST/SELF TEST)	1. Replace the ink cartridge. 2. If it is normal in the Copy Test and in the Self Test, try to replace the Main B'D.

4-3-18 Vertical Black Line (When Copying)

• **Description**	Vertical black lines occur in the printing.
• **Location**	1.CCD ASS'Y 2.Main B'D.

Check and Cause	Solution
1. Perform a CCD Test to check if the waveform is normal. (Refer to 4-2-5.) 2. Clean the cartridge nozzle.	1. If the CCD waveform is abnormal, replace the CCD ASS'Y. 2. Clean the nozzle and confirm again. 3. After confirming the CCD waveform and cleaning the nozzle, if the vertical black lines still occur, then try to replace the Main B'D.

4-3-19 Vertical Black Line (When Receiving)

• **Description**	It is normal when copying, but the vertical black lines occur in the printing when receiving.
• **Location**	Main B'D.

Check and Cause	Solution
1. Check if the FAX status of the transmitting side is normal. (Ex. Let the transmitter copy once.) 2. Clean the cartridge nozzle. (Refer to 4-2-5 : Clean Cartridge)	1. Even when the transmitting side is normal and after having finished cleaning, if the same problem still exists, then try to replace the Main B'D.

4-3-20 Contaminated Stains on Paper

• **Description**	Contaminated stains on the copied and received paper occur in the printing.
• **Location**	1.CCD ASS'Y 2.Main B'D.

Check and Cause	Solution
1. Check the status of document. 2. Check the waveform by performing a CCD test. (Refer to 4-2-5)	1. If the CCD waveform is abnormal, try to replace the CCD ASS'Y. 2. In case the CCD waveform is normal but the print quality is bad, try to replace the Main B'D.

4-3-21 Bad Printed Image

• **Description**	The copied and received image is light or bad.
• **Location**	1.CCD ASS'Y

Check and Cause	Solution
1. Check the CCD waveform. (Refer to 4-2-5 : Adjust Shading) 2. Test and check the cartridge arrangement. (Refer to 4-2-5 : Align Cartridge) 3. Clean the cartridge nozzle. (Refer to 4-2-5 : Clean Cartridge)	1. In case the CCD waveform is good, clean the outlet of cartridge. 2. In case the CCD waveform is abnormal, try to replace the CCD ASS'Y. 3. Even after cleaning the outlet of nozzle, the received data image is still bad, then replace the cartridge. 4. Try to replace the Main B'D.

4-3-22 Vertical Lines are printed crookedly

• **Description**	The vertical lines are printed crookedly.
• **Location**	Cartridge

Check and Cause	Solution
1. Test and check the cartridge arrangement. (Refer to 4-2-5 : Align Cartridge)	1. Perform the cartridge arrangement to set up black/color newly. Repeat it several times until you get the sufficient condition.

4-3-23 Bad Color (Intensity)

• **Description**	The color is different from the original document in the printing.
• **Location**	1.Capacity of Ink Cartridge 2.CCD ASS'Y.

Check and Cause	Solution
1. It may occur when the amount of specific ink in the ink cartridge (color) is deficient. 2. Check the waveform by performing a CCD test. (Refer to 4-2-5 : Align Shading)	1. After checking if the capacity of ink cartridge is deficient, try to replace it. 2. After having performed a CCD shading test, if it is not still improved, then try to replace the CCD ASS'Y.

4-3-24 No Dial Tone

• **Description**	While OHD button is pressed, there is no dial tone.
• **Location**	1.LIU B'D 2.OPE ASS'Y 3.Main B'D.

Check and Cause	Solution
1. Check if the telephone line cord is connected to TEL LINE correctly. 2. Check if it makes CLICK sound while OHD key is pressed. 3. Check the connection of HARNESS between the LIU and the Main B'D. 4. Check if the SAKER is connected correctly.	1. If the telephone cord is normal but there is no dial tone, then try to replace the LIU B'D. 2. If you cannot hear the OHD CLICK sound, the OPE ASS'Y may be defective. Try to replace the OPE ASS'Y. 3. Check the connection of Speaker, and try to replace it. 4. Lastly, try to replace the Main B'D.

4-3-25 Defective MF DIAL

• **Description**	The MF DIAL is not functioning.
• **Location**	1.LIU B'D 2.OPE ASS'Y 3.Main B'D.

Check and Cause	Solution
1. Check if the telephone line is connected correctly.	1. If you cannot catch the OHD CLICK sound, the OPE ASS'Y may be defective. Try to replace the OPE ASS'Y.
2. Wile the OHD KEY is pressed, check to catch a CLICK sound.	2. If you can catch a CLICK sound, after checking the connection of HARNESS between the LIU and the Main PBA, try to replace the HARNESS.
3. Check the connection of HARNESS between the LIU and the Main PBA.	3. The problem still persists, then replace the LIU and the main B'D in sequence.

4-3-26 Defective FAX FORWARD/RECEIVE

• **Description**	The FAX FORWARD/RECEIVE is not functioning.
• **Location**	1.LIU B'D 2.Main B'D.

Check and Cause	Solution
1. Check if you can catch a dial tone by pressing OHD.	1. If the MODEM testing is normal and there is no dial tone, then try to replace the LIU B'D.
2. Check if you can catch a RECEIVE tone while MODEM testing in the TECH mode.	2. If the MODEM testing is abnormal, try to replace the Main B'D.

4-3-27 Defective FAX FORWARD

• **Description**	RECEIVE is functioning, but FORWARD is not functioning or the received data are broken.
• **Location**	Telephone line

Check and Cause	Solution
1. Check if there is NOISE when pressing on-hook dial. 2. Check the RECEIVE condition by trying to forward a FAX to another fax machine from the forwarding side FAX. 3. Check if the telephone line connected to the Product is contaminated or gets stripped off or down.	1. If it makes NOISE while on-hooking, replace or repair the telephone line.

4-3-28 Defective FAX RECEIVE (1)

• **Description**	FORWARD is functioning, but RECEIVE is not functioning or the received data are broken.
• **Location**	Telephone line

Check and Cause	Solution
1. Check if there is NOISE when pressing on-hook dial. 2. Check the RECEIVE condition by trying to receive a FAX at another fax machine.	1. If it makes NOISE while on-hooking, replace or repair the telephone line.

4-3-29 Defective FAX RECEIVE (2)

• **Description**	The received data are lengthened or cut in the printing.
• **Location**	Telephone line

Check and Cause	Solution
1. Check if there is NOISE when pressing on-hook dial. 2. Ask to the forwarding side, check the image quality of another machine receiving a FAX additionally sent to.	1. If it makes NOISE, rearrange the telephone line. (Refer to 'Defective FAX RECEIVE'.) 2. Check if the FAX status of the forwarding side is also normal.

4-3-30 Defective FAX RECEIVE (3)

• **Description**	The phone is ringing continuously, but it cannot receive.
• **Location**	1.LIU B'D 2.Main B'D.

Check and Cause	Solution
Check if the RECEIVE mode is TEL MODE or FAX MODE.	Even when the RECEIVE mode is changed to FAX MODE, it cannot receive, then replace the LIU and the Main B'D in sequence.

4-3-31 Defective FAX RECEIVE (4)

• **Description**	The received data is reduced by more than 50% in the printing.
• **Location**	Telephone line

Check and Cause	Solution
Check the FAX status of the forwarding side.	After checking the data of the forwarding side, correct the FAX of the forwarding side.

4-3-32 Defective Automatic Receiving

• **Description**	The automatic receiving function is not working.
• **Location**	1.The RECEIVE mode (LCD WINDOW) 2.LIU BOARD 3.Main B'D.

Check and Cause	Solution
1. Check if the RECEIVE mode is TEL MODE or FAX MODE.	1. If the RECEIVE mode is set to the TEL MODE, reset it to the FAX MODE. 2. Even after the RECEIVE mode is changed to the FAX mode, it cannot receive, then try to replace the LIU and the Main B'D in sequence.

4-3-33 The Printer is Not Working (1)

• **Description**	While the power is turned on, the printer is not working at all by the PRINT command from the computer.

Check and Cause	Solution
1. Perform the Printer Self-Test.	1. Check the power source of the printer first and perform the Printer Self-Test. If the test results in printing, it is considered as there is no problem in the printer itself. If the printer is not working, the function may be defective (not due to S/W), so take another proper measure.
2. Check if the PC and the printer cable are properly connected.	2. Check the status of the printer connection, and if it is defective, replace the printer cable (USB or Parallel).
3. Check if the printer driver is correctly installed.	3. Check the connection between PC and printer port (USB port or LPT port). Check if the printer driver at the Printers on the Control Panel is installed. If the printer driver is properly setup, check in which program the printing is not working. The best way is to try printing from the Memo pad, the WINDOWS basic program. Sometimes, the print out is normal within the WINDOWS basic programs, but it may not work in a specific program. In such case, reinstall the printer driver.

4-3-34 The Printer is Not Working (2)

• **Description**	Even after the Print command, there is no response at all or the printing speed is low.

Check and Cause	Solution
It may due to wrong setup of the environment rather than malfunction of the printer itself. And in case that abnormal characters are printed out, also check the environment setup.	1. Not working with the message 'Insufficient memory' means that the hard disk space to store the print information is insufficient rather than the RAM insufficiency. In this case, secure more space for the hard disk. Secure more space for C drive by using the Disk utilities program at 'PROGRAM - ACCESSORIES - SYSTEM TOOL' from the Start menu.
1. Secure the hard disk space.	
2. Printing error occurs even if there is enough space in the hard disk.	2. The connection of the cable or printer port is not properly setup.
3. Reboot the system, and try printing again.	3. If characters are printed abnormally, the cable or the printer driver may be defective. Turn the PC and printer off, and reboot the system to try printing again. If the problem still exists, double click to install the printer from My Computer and right-click the mouse, then click 'Test Print' button at the bottom of the file information tab. If normal characters are not printed again, the cable must be defective so replace the cable with a new one.

4-3-35 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 strange characters are only printed,

Check and Cause	Solution
1. Printer driver error 2. Error due to insufficient memory. (The printing job sometimes stops during proceeding or not completed due to insufficient memory.)	1. Check 'My Computer - Printers'. (If the printer driver is installed not compatible with the printer currently installed or an error occurs in the driver file, remove the existing driver and reinstall the printer driver by using the 'Printer Add' menu. 2. This is because of an insufficient virtual memory. (It does not mean the actual capacity of RAM but the space of hard disk.) Delete unnecessary files to secure enough space of the hard disk and try printing again.

⚠Name of Printer Port :

To reinstall the printer driver, do after removing the current driver.

- While installing the driver, Set and PC should be connected.
  (The printer setup may be wrong if they are not connected during installing.)
- The SCX-1150F Model supports all the USB/Parallel Print, select the USB Port when using the USB, while select the LPT Port when using the Parallel.

4-3-36 Spool Error and Release of Spool Error

• **Description**	pool (Simultaneous Peripheral Operations Online) refers to process the document to be read and stored in the hard disk or the mass storage media, and then to be printed at more convenient time. While the printer is outputting other file, the file requested to output is undergone to be spooled in the hard disk, the spool error may occur if a problem occurs in this process.

Check and Cause	Solution
I. Insufficient space of the hard disk set as the default spool directory.	1. Delete unnecessary files to provide more hard disk space and try printing job.
2. If the previous printing out error is not solved.	2. Since there may be some journal files with the extension ***.jnl, delete them and reboot the WINDOWS to restart printing job.
3. In case a collision with other program is expected.	3. Exit all other programs except the program currently using, if possible, and print again.
4. When an application program or the printer driver file is damaged.	4. Delete the printer driver completely and reinstall it.
5. If some of OS related files are damaged or malfunctioning due to virus infections.	5. After rebooting the computer, check viruses, restore the damaged files and reinstall the program, then try print ing again.
6. The memory is less than that recommended by the OS.	6. Add memory to the PC.

⚠How to delete the data in the spool manager :

In the spool manager, the installed drivers and the list of all the documents waiting to be printed are shown. Select the data of the document to be deleted and select Document menu
--> Delete.

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

Or Hold the document in the waiting list and repeat the routine as the above or exit the Spool manager

5. Exploded Views and Parts List

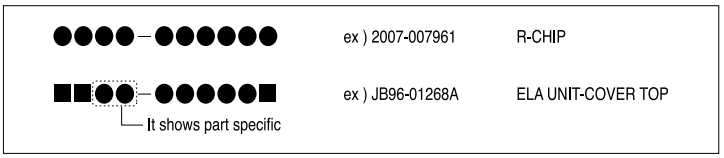
5-1 Main Assembly Exploded view ..... page(5-2)
5-2 Main Cover Assembly Exploded view ..... page(5-4)
5-3 Feeder Unit Exploded view ..... page(5-6)
5-4 Engine Ass'y Exploded view ..... page(5-8)
5-5 OPE Unit Exploded view ..... page(5-10)
5-6 Scanner Assembly Exploded view ..... page(5-12)
5-7 ADF Unit Exploded view ..... page(5-14)
5-8 Screw ..... page(5-17)
5-9 SMPS Parts Lists ..... page(5-17)

- Deal drawings and service parts are declared for the items with higher rate of inferiority and replaceable in the level of service description only.
- If inferiority occurs, you can replace the parts by the unit declared in deal drawings and service items.

Way to observe Part Code & Description

Part code and Description is quoted and controlled by determined standard. Refer to this determined standard, it will help with ordering Part.

• **There ar woo kinds of Part code inscription type.**



(● : figure, ■ : character (alphabet))

Type 1 : Controlled by Company : It can be commonly used for all kinds of product SEC produce. Mostly, electronics Parts.

Type 2 : Controlled by Division : It is used or one produce. Mostly, Mostly, mechanical Parts.

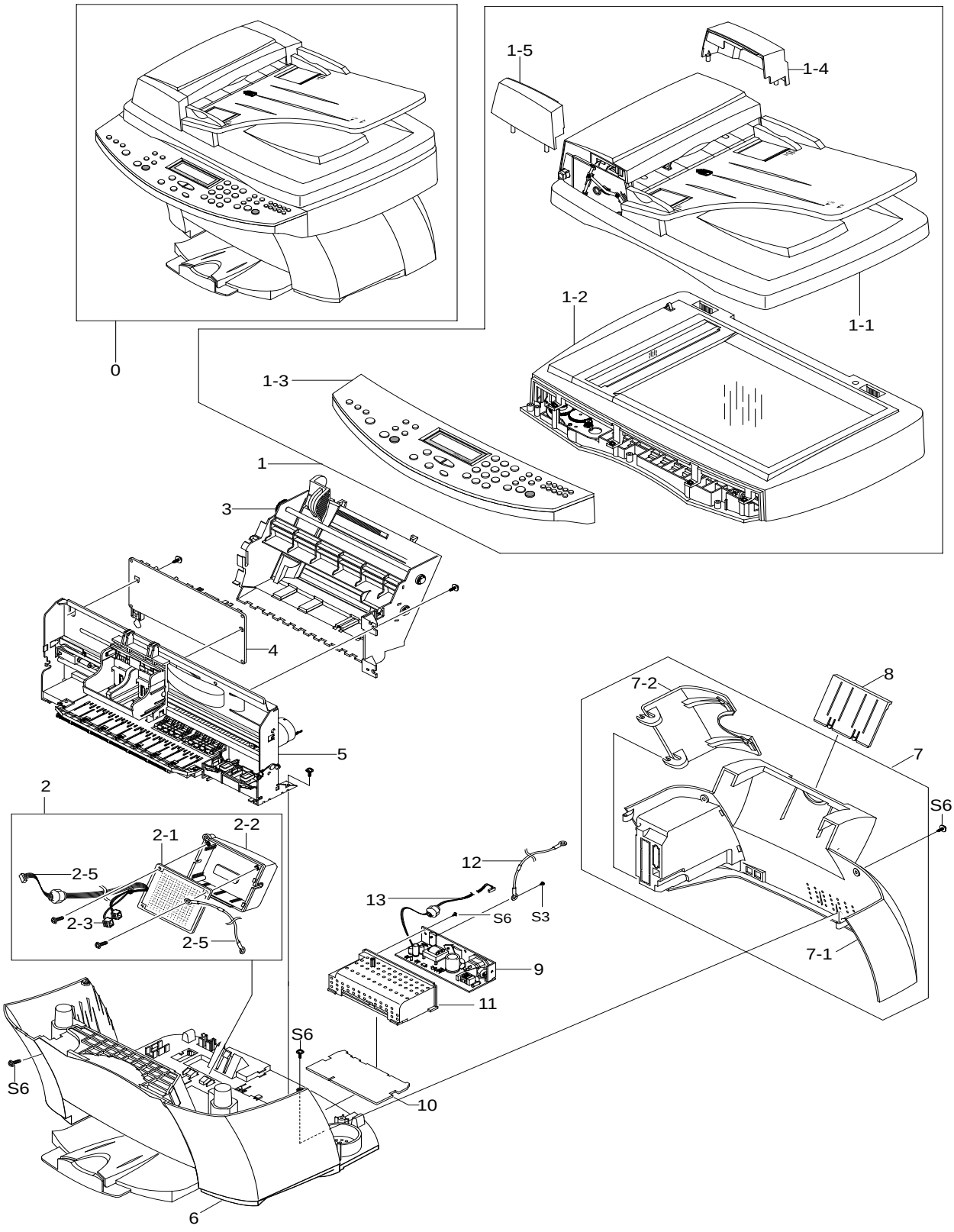
• **A/S privately used part :** It is only used for A/S .

• **Ass'y part :** Assembled by more than 2 Parts. If necessary part is not A/S Part, Ass'y part including necessary par can be used. It is shown in the diagram and drawing of SVC manual.

• Ass'y part and A/S privately used Part is distinguished by part Code and Description.
The are inscription type 2. It is recognized by Part character and front side of description.

DIVISION	PART CODE	DESCRIPTION
A/S Private	**81-****** (JB81-00039A)	AS-***** (AS-USE)
ASS'Y Part	**75-****** (JB75-00068A)	MEC-***** (MEC-CHUTE)
ASS'Y Part	**92-****** (JB92-01131A)	PBA ****** (PBA MAIN-CONTROLLER)
ASS'Y Part	**97-****** (JB97-01089A)	MEA ****** (MEA UNIT-PULLEY IDLE)

5-1 Main Assembly Exploded view



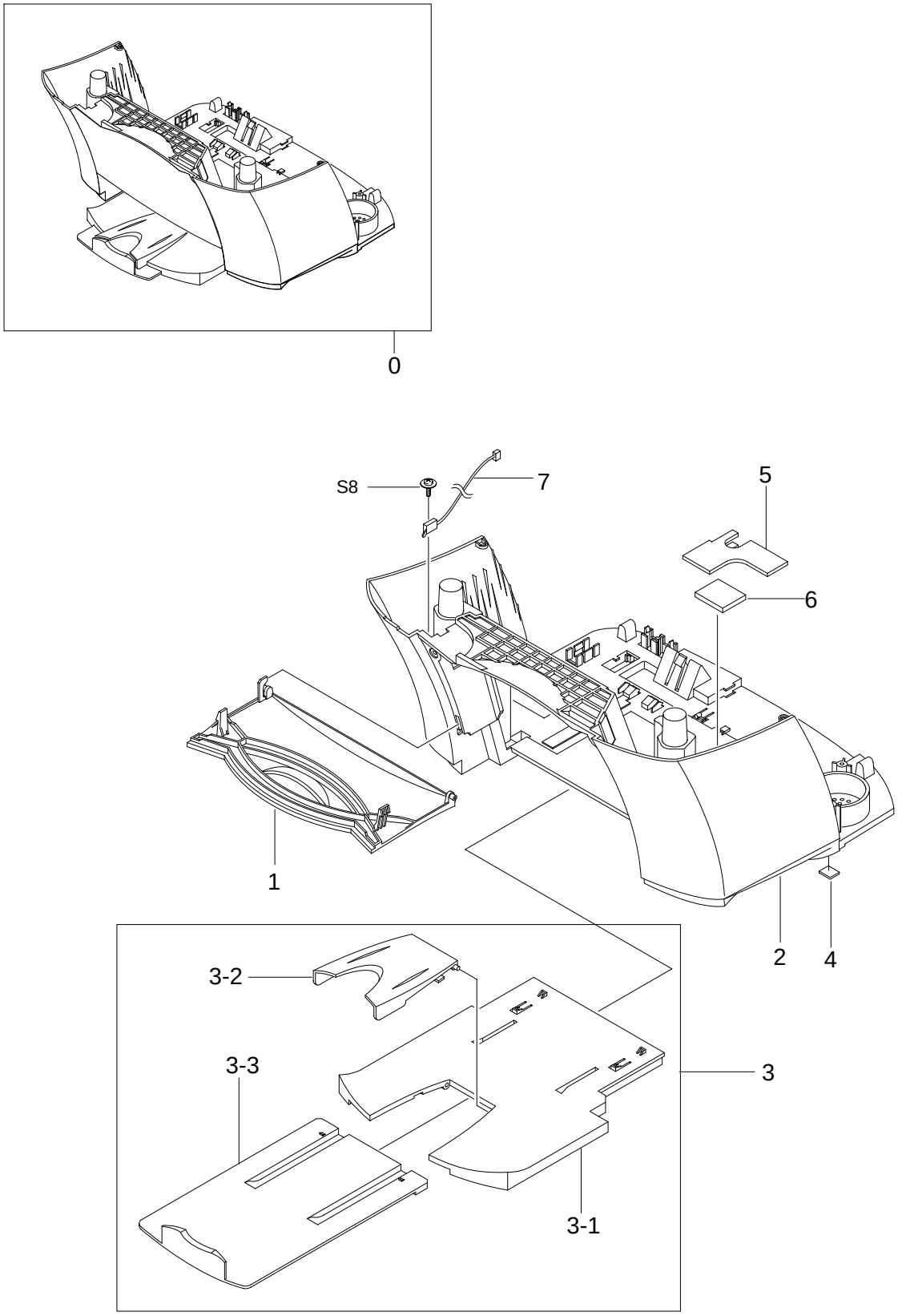
< Main Assembly Parts List >

SA. : Service Available

NO	DESCRIPTION	SEC CODE	Q'TY	SA	REMARK
0	SCX-1150F/XEU	*	-	X	
1	ELA UNIT-OPE/ADF/SCANNER ASS'Y	JB96-01339A	1	O	
1-1	ELA HOU-ADF ASS'Y	*	1	X	
1-2	ELA UNIT-SCANNER	*	1	X	
1-3	ELA UNIT-OPE ASS'Y(4 IN 1)	*	1	X	
1-4	PMO-COVER SIDE (L)	JB72-01169A	1	O	
1-5	PMO-COVER SIDE (R)	JB72-01168A	1	O	
2	ELA UNIT-LIU PBA UNIT(4IN1)	*	1	X	
2-1	PBA SUB-LIU	JB92-01142C	1	O	
2-2	PMO-COVER LIU	*	1	X	
2-3	CBF-HARNESS-MODULAR JACK	*	1	X	
2-4	CBF HARNESS-LIU GND	*	1	X	
2-5	CBF HARNESS-MAIN_LIU	*	1	X	
3	MEA UNIT-FEEDER	JB97-01535A	1	O	
4	PBA MAIN-MAIN	JB92-01196A	1	O	
5	ELA UNIT-ENGINE ASS'Y(4 IN 1)	JB96-01330A	1	O	
6	MEA-COVER MAIN	JB97-01539A	1	O	
7	MEA-COVER REAR(4 IN 1)	JB97-01537B	1	O	
7-1	PMO-COVER REAR	*	1	X	
7-2	PMO-DOOR SIDE	*	1	X	
8	PMO-GUIDE EXTENSION	JB72-01140A	1	O	
9	SMPS-MAGIC	JB44-00017A	1	O	110/220 VAC
10	LABEL SHEET-SMPS	*	1	X	
11	PMO-COVER SMPS	JB72-01146A	1	O	
12	CBF HARNESS-POWER GND	JB39-00131A	1	O	
13	CBF HARNESS-MAIN POWER	JB39-00129A	1	O	
S3	SCREW-TAPPING	*	2	X	M 3 X 8 mm
S6	SCREW-TAPTITE	*	9	X	M 3 X 10 mm
S7	SCREW-TAPTITE	*	5	X	M 3 X 6 mm

O: Service available X: Service not available

5-2 Main Cover Assembly Exploded view



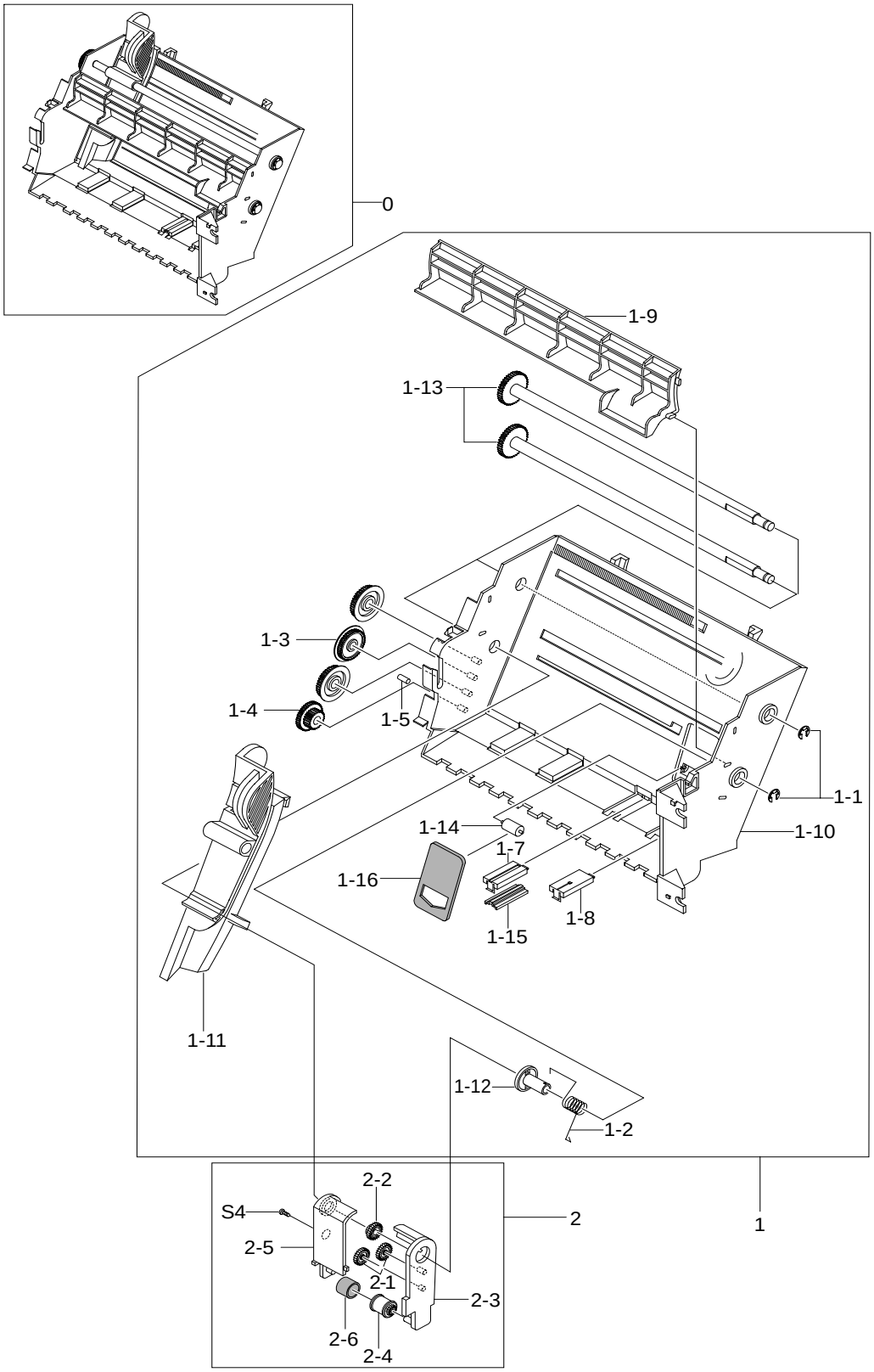
< Main Cover Assembly Parts List >

SA. : Service Available

NO	DESCRIPTION	SEC CODE	Q'TY	SA	REMARK
0	MEA-COVER MAIN	JB97-01539A	1	O	
1	PMO-DOOR FRONT	JB72-01144A	1	O	
2	PM-COVER MAIN	*	1	X	
3	MEA-STACKER	*	1	X	
3-1	PMO-BASE STACKER	JB72-01143A	1	O	
3-2	PMO-EXIT TRAY MIDDLE	JB72-00978C	1	O	
3-3	PMO-EXIT TRAY EXTENSION	JB72-00982C	1	O	
4	FOOT-RUBBER	JB61-40901A	2	O	
5	MPR-FELT UPPER	JB74-00014A	1	O	
6	MPR-FELT LOWER	JB74-00015A	1	O	
7	CBF HARNESS-MAIN_COVER OPEN	JB39-00116A	1	O	
S8	SCREW-SPECIAL	*	1	X	M3 X 8 mm

O: Service available X: Service not available

5-3 Feeder Unit Exploded view



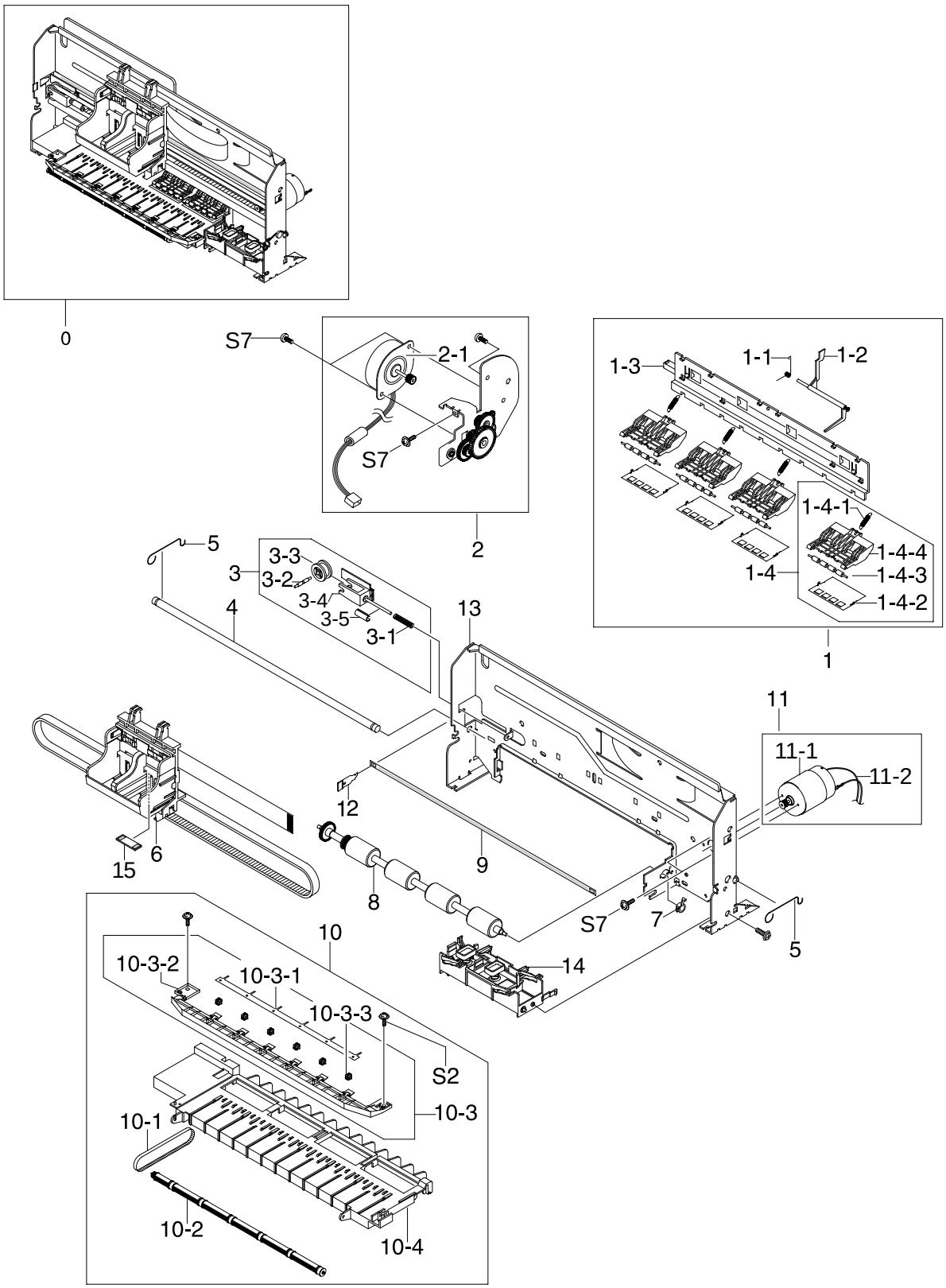
< Feeder Unit Parts List >

SA. : Service Available

NO	DESCRIPTION	SEC CODE	Q'TY	SA	REMARK
0	MEA UNIT-FEEDER	JB97-01535A	1	O	
1	MEA UNIT-ASF W/O PICKUP	*	1	X	
1-1	RING-E	*	2	X	
1-2	SPRING-TORSION AC	*	1	X	
1-3	GEAR-IDLER ASF	*	3	X	
1-4	GEAR-DRIVER ASF	*	1	X	
1-5	ICT-PIN ASF BOSS	*	1	X	
1-6	PMO-COVER PCB	*	1	X	
1-7	PMO-HOUSING BUCKLER	*	1	X	
1-8	PMO-BUCKLER JAG	*	1	X	
1-9	PMO-COVER ASF	*	1	X	
1-10	PMO-ASF FRAME	*	1	X	
1-11	PMO-PAPER GUIDE	*	1	X	
1-12	PMO-PAPER CAPACITY	*	1	X	
1-13	PMO-SHAFT PICKUP	*	2	X	
1-14	PMO-ROLLER IDLER	*	1	X	
1-15	RMO-BUCKLER FRICTION	JB73-00019A	1	O	
1-16	MPR-PAD FRICTION	*	1	X	
2	MEA UNIT-PICKUP ROLL	JB97-00965A	1	O	
2-1	GEAR-PICKUP IDLER	*	2	X	
2-2	GEAR-DRIVE PICKUP	*	1	X	
2-3	PMO-HOUSING R	*	1	X	
2-4	PMO-PICKUP ROLL	*	1	X	
2-5	PMO-HOUSING L	*	1	X	
2-6	RMO-PICKUP RUBBER	*	1	X	
S4	SCREW-TAPPING	*	1	X	M2.6 X 6 mm

O: Service available X: Service not available

5-4 Engine Ass'y Exploded view



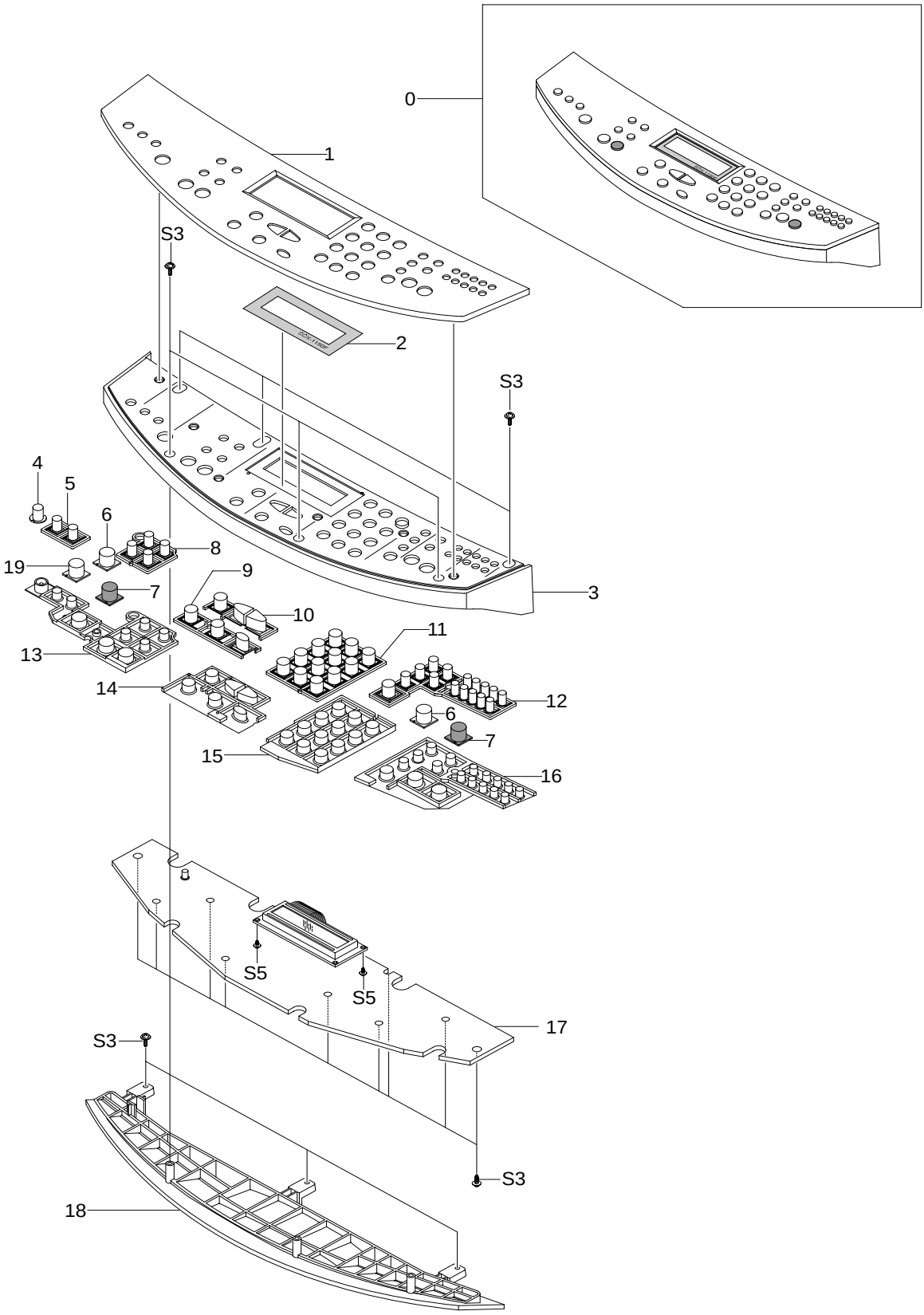
< Engine Ass'y Parts List >

SA. : Service Available

NO	DESCRIPTION	SEC CODE	Q'TY	SA	REMARK
0	ELA UNIT-ENGINE ASS'Y	JB96-01330A	1	O	
1	MEC-HOLDER ROLLER	JB75-11111A	1	O	
1-1	SPRING-ES ACTUATOR	JB61-70919A	1	O	
1-2	PMO-ACTUATOR FEED	JB72-40993A	1	O	
1-3	PMO-HOLDER ROLLER SUB	*	1	X	
1-4	MEC-FRIC ROLLER	*	4	X	
1-4-1	SPRING-ES FRICTION	*	1	X	
1-4-2	IPR-DEFLECTOR	*	1	X	
1-4-3	ICT-FRICTION ROLLER	*	1	X	
1-4-4	PMO-HOLDER F/R	*	1	X	
2	MEA UNIT-BRKT LF	JB97-01536A	1	O	
2-1	MOTOR-STEP LF(V)	JB31-00007A	1	O	
3	MEC-PULLEY IDLE	JB75-11110A	1	O	
3-1	SPRING-CS PULLEY	*	1	X	
3-2	ICT-SHAFT PULLEY IDLE	*	1	X	
3-3	PMO-PULLEY IDLER	*	1	X	
3-4	PMO-HOLDER PULLEY	*	1	X	
3-5	PMO-STOPPER PULLEY	JB72-41212A	1	O	
4	ICT-SHAFT CR	JB70-40906A	1	O	
5	SPRING-SHAFT CR	JB61-70913A	2	O	
6	MEA UNIT-C/R/SEC	JB96-01303A	1	O	
7	BEARING-FEED R	JB66-10002A	1	O	
8	MEC-ROLLER FEED	JB75-11112A	1	O	
9	PRP-ENCODER STRIP(V)	JB72-00662A	1	O	
10	MEC-FRAME BASE	JB75-00170A	1	O	
10-1	BELT-EXIT	*	1	X	
10-2	MEC-EXIT ROLLER	*	1	X	
10-3	MEC-HOLDER EXIT	*	1	X	
10-3-1	IPR-SPRING WHEEL	*	1	X	
10-3-2	PMO-HOLDER WHEEL	*	1	X	
10-3-3	MEA UNIT-WHEEL STAR	*	6	X	
10-4	MEC-SUB FRAME BASE	JB75-11126A	1	O	
11	ELA UNIT-C/R MOTOR	JB96-01312A	1	O	
11-1	MOTOR-DC CARRIAGE	JB31-00005A	1	O	
11-2	CBF-HARNESS-DC MOTOR	JB39-00094A	1	O	
12	SPRING-PS ENCODER	JB61-70917A	1	O	
13	MEC-FRAME MAIN	JB75-00349A	1	O	
14	MEC-FRAME HOME	JB75-00174A	1	O	
15	MPR-SHEET ENCODER	*	1	X	
S1	SCREW-MACHINE	*	1	X	
S2	SCREW-TAPPING	*	3	X	M3 X 10 mm
S6	SCREW-TAPTITE	*	1	X	M3 X 10 mm
S7	SCREW-TAPTITE	*	2	X	M3 X 6 mm

O: Service available X: Service not available

5-5 OPE Unit Exploded view



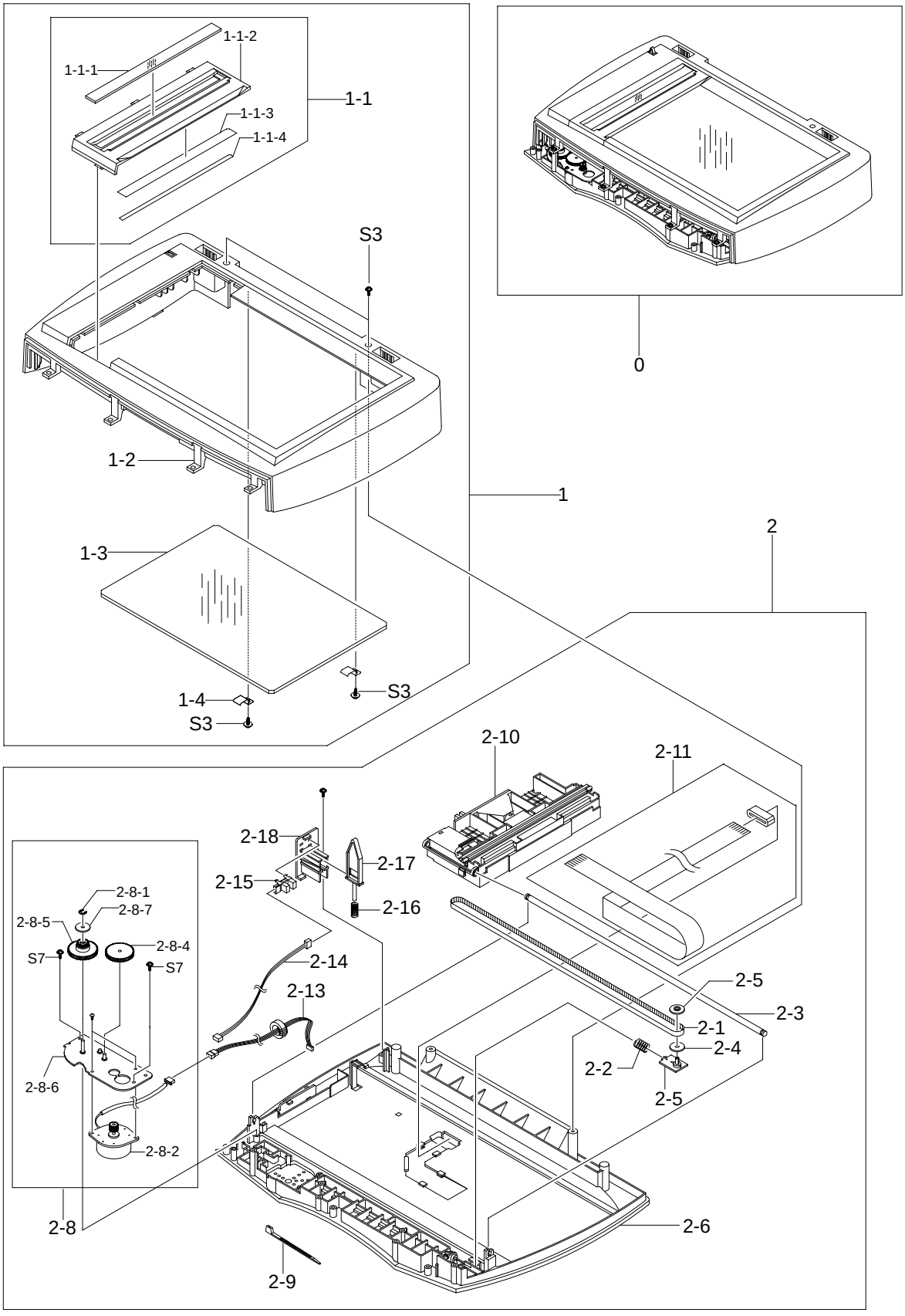
< OPE Unit Parts List >

SA. : Service Available

NO	DESCRIPTION	SEC CODE	Q'TY	SA	REMARK
0	ELA UNIT-OPE ASS'Y (4 IN 1)	*	1	X	
1	PMO-OPE PANEL	JB72-01179A	1	O	
2	SHEET LCD	JB63-00023A	1	O	
3	PMO-OPE UPPER	JB72-01181A	1	O	
4	PMO-KEY ANSWER	JB72-41275A	1	O	
5	PMO-KEY SAVE	JB72-01188A	1	O	
6	PMO-KEY BLACK	JB72-01184B	2	O	
7	PMO-KEY COLOR	JB72-01184A	2	O	
8	PMO-KEY ZOOM	JB72-01183A	1	O	
9	PMO-KEY CANCEL	JB72-01186A	1	O	
10	PMO-KEY SCROLL	JB72-01185A	1	O	
11	PMO-KEY DIAL	JB72-01189A	1	O	
12	PMO-KEY ONE TOUCH	JB72-01187A	1	O	
13	RMO-RUBBER COPY	JB73-00085A	1	O	
14	RMO-RUBBER SCROLL	JB73-00088A	1	O	
15	RMO-RUBBER DIAL	JB73-00089A	1	O	
16	RMO-RUBBER ONETOUCH	JB73-00086A	1	O	
17	PBA MAIN-OPE	JB92-01195A	1	O	
18	PMO-OPE LOWER	JB72-01180A	1	O	
19	PMO-KEY SCAN	JB72-01182A	1	O	
S3	SCREW-TAPPING	6002-000175	9	O	
S5	SCREW-TAPPING	6002-001065	2	O	

O: Service available X: Service not available

5-6 Scanner Assembly Exploded view



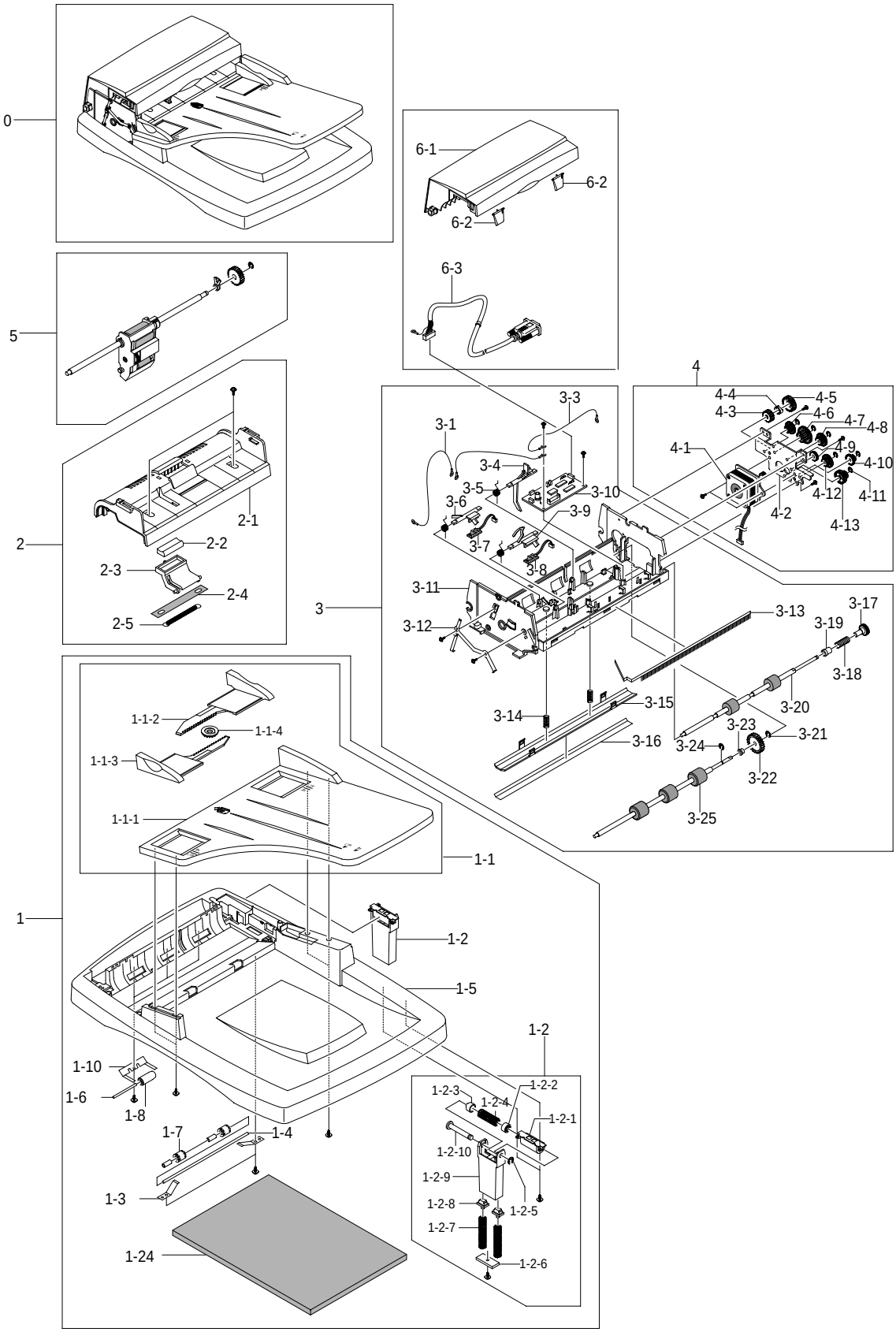
< Scanner Assembly Parts List >

SA. : Service Available

NO	DESCRIPTION	SEC CODE	Q'TY	SA	REMARK
0	ELA UNIT-SCANNER (4 IN 1)	*	1	X	
1	MEA-SCAN UPPER ASS'Y	JB81-00224A	1	O	
1-1	MEA-DUMMY (4 IN 1)	*	1	X	
1-1-1	MCT-GLASS ADF	JB74-00019A	1	O	
1-1-2	PMO-SCAN DUMMY(4IN1)	JB72-01172A	1	O	
1-1-3	LABEL(P)-SHADING	JB68-00644A	1	O	
1-1-4	TAPE-DOUBLE FACE	0203-001266	1	O	
1-2	PMO-SCAN UPPER	JB72-01133A	1	O	
1-3	MCT-SCAN GLASS	JB74-00050A	1	O	
1-4	IPR-HOLDER GLASS	JB70-00148A	2	O	
2	MEA-SCAN LOWER (4 IN 1)	*	1	X	
2-1	BELT-TIMING GEAR	6602-001067	1	O	
2-3	ICT-SHAFT CCD	JB70-00145A	1	O	
2-4	PMO-PULLEY	JB72-00763A	1	O	
2-5	PMO-HOLDER BELT	JB72-00764A	1	O	
2-6	PMO-SCAN LOWER	JB72-01134A	1	O	
2-7	PMO-HOLDER BELT	JB72-01136A	1	O	
2-8	ELA ETC-BRKT SCAN MOTOR	JB96-01344A	1	O	
2-8-1	RING-E	6044-000125	2	O	
2-8-2	MOTOR-SCAN	JB31-00011A	1	O	
2-8-3	GEAR-TIMING	JB66-00082A	1	O	
2-8-4	GEAR-IDLE	JB66-00083A	1	O	
2-8-5	GEAR-REDUCTION	JB66-00084A	1	O	
2-8-6	IPR-BRKT SCAN MOTOR	JB70-00234A	1	O	
2-8-7	PMO-HOLDER BELT	JB72-00764A	1	O	
2-9	CABLE TIE	6501-000115	1	O	
2-10	ELA MODUL-SCANNER (UMAX)	JB96-01317A	1	O	
2-11	CBF FLAT CBL-CCD	JB39-00132A	1	O	
2-13	CBF HARNESS MAIN OPE	JB39-00130A	1	O	
2-14	CBF HARNESS COVER	JB39-00137A	1	O	
2-15	PHOTO INTERRUPTER	0604-001050	1	O	LEVER OPEN SENSOR
2-16	SPRING SENSOR PLATEN	*	1	X	
2-17	PMO-LEVER SENSOR	JC72-00755A	1	O	
2-18	PMO-HOLDER SENSOR	JB72-01173A	1	O	
S	SCREW-TAPPING	6002-000175	2	O	
S6	SCREW-TAPTITE	6003-000196	3	O	
S7	SCREW-TAPTITE	6003-000269	2	O	

O: Service available X: Service not available

5-7 ADF Unit Exploded view



< ADF Unit Parts List >

SA. : Service Available

NO	DESCRIPTION	SEC CODE	Q'TY	SA	REMARK
0	ELA UNIT-ADF UNIT ASS'Y	*	1	X	
1	MEA-COVER PLATEN ASS'Y	JB81-00226A	1	O	
1-1	MEC-TX STACKER ASS'Y	*	1	X	
1-1-1	PMO-TX STACKER	JB72-01166A	1	O	
1-1-2	PMO-DOC GUIDE(L)	JB72-01171A	1	O	
1-1-3	PMO-DOC GUIDE(R)	JB72-01170A	1	O	
1-1-4	GEAR PINION	JG66-40003A	1	O	
1-2	MEA-RACK HINGE (4 in 1)	*	2	X	
1-2-1	PMO-HINGE FRAME	JB72-01175A	1	O	
1-2-2	PMO-HINGE BRAKE	JB72-01177A	1	O	
1-2-3	PMO-HINGE SCREW	JB72-01176A	1	O	
1-2-4	SPRING BRAKE	*	1	X	
1-2-5	RING-C	6044-000159	2	O	
1-2-6	SUPT BRACKET-HINGE	JB61-00110A	1	O	
1-2-7	SPRING PRESSURE	*	2	X	
1-2-8	PMO-HINGE PRESSURE	JB72-01178A	2	O	
1-2-9	PMO-HINGE BODY	JB72-01174A	1	O	
1-2-10	ICT-HINGE SHAFT (4 in 1)	JB70-00236A	1	O	
1-3	NPR-SPRING PINCH DRIVE	JB71-00038A	2	O	
1-4	IPR SHAFT EXIT	JC70-00242A	1	O	
1-5	PMO-COVER PLATEN(4IN1)	JB72-01165A	1	O	
1-6	ICT-SHAFT PINCH	JC70-00265A	3	O	
1-7	RPR-ROLLER EXIT IDLE	JC73-00091A	2	O	
1-8	PMO-ROLL PINCH	JG72-40663A	3	O	
1-9	MPR-WHITE SPONGE SHEET	JB74-00049A	1	O	
1-10	IPR-SPRING PINCH	JC70-00260A	3	O	
2	MEA RACK-ADF UPPER ASS'Y	*	1	X	
2-1	PMO-COVER ADF UPPER	JC72-00736A	1	O	
2-2	RMO-ADF RUBBER	JC73-00052A	1	O	
2-3	PMO-HOLDER ADF	JB72-00825A	1	O	
2-4	RPR-SPONGE ADF	JB73-10913A	1	O	
2-5	SPRING ETC-COIL ADF	JC61-00040A	1	O	
3	ELA UNIT-ADF LOWER ASS'Y	*	1	X	
3-1	CBF HARNESS ADF ROLLER GND	JC39-00187A	1	O	
3-3	CBF HARNESS-DRIVER GND	JB39-00065A	1	O	
3-4	PMO-ACTUATOR SENSOR SCAN	JC72-00746A	1	O	
3-5	SPRING ETC-TORSION DOC (CC2-F)	JB61-00076A	3	O	
3-6	PMO-ACTUATOR SENSOR REGI	JC72-00747A	1	O	
S6	SCREW-TAPTITE	6003-000196	11	O	

O: Service available X: Service not available

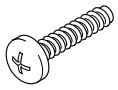
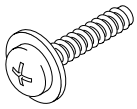
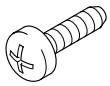
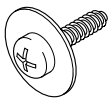
< ADF Unit Parts List >

SA. : Service Available

NO	DESCRIPTION	SEC CODE	Q'TY	SA	REMARK
3-7	PBA SUB-ADF DET SEN	JC92-01366A	1	O	
3-8	PBA SUB-ADF POS SEN	JC92-01365A	1	O	
3-9	PMO-ACTUATOR SENSOR DOC	JB72-00837A	1	O	
3-10	MAIN-ADF	JB92-01200A	1	O	
3-11	PMO-COVER ADF LOWER	JC72-00735A	1	O	
3-12	NPR-SPRING GND	JC71-00031A	1	O	
3-13	MEC- BRUSH ANTISTATIC	JC75-00095A	1	O	
3-14	SPRING ETC-WHITE BAR	JC61-00548A	2	O	
3-15	IPR-BRKT WHITE BAR	JC70-00225A	1	O	
3-16	PPR-WHITE BAR SHEET	JC72-00752A	1	O	
3-17	GEAR-EXIT 23	JC66-00323A	1	O	
3-18	SPRING-CLUTCH	JC61-00062A	1	O	
3-19	PMO-BUSHING HOLDER	JG72-40732A	1	O	
3-20	RMO-ROLLER EXIT	JC73-00088A	1	O	
3-21	RING-C	6044-000159	3	O	
3-22	GEAR-ADF 38	JB66-00103A	1	O	
3-23	PMO-BUSH	JB72-00819A	2	O	
3-24	RING-C	6044-000159	1	O	
3-25	RMO-ROLLER DRIVE	JC73-00087A	1	O	
4	ELA HOU-ADF MOTOR ASS'Y	JB96-01340A	1	O	
4-1	MOTOR ADF	JC31-00017A	1	O	
4-2	IPR-BRKT ADF MOTOR	JC70-00224A	1	O	
4-3	GEAR-CLUTCH 29	JB66-00101A	1	O	
4-4	PMO-WHITE CLUTCH SUB 29	JB72-00844A	1	O	
4-5	GEAR-CLUTCH 39	JC66-00322A	1	O	
4-6	GEAR-IDLE20/33	JG66-40038A	2	O	
4-7	GEAR-REDUCTION 45/19	JC66-00324A	1	O	
4-8	GEAR-JAM REMOVE	JC66-00329A	1	O	
4-9	GEAR-IDLE25	JG66-40036A	1	O	
4-10	GEAR-IDLE17/35	JG66-40039A	2	O	
4-11	RING-C	6044-000159	7	O	
5	MEA UNIT-PICK UP ASS'Y	JC97-01582A	1	O	
6	MEC-COVER OPEN ASS'Y	*	1	X	
6-1	PMO-COVER OPEN	JB72-01167A	1	O	
6-2	PMO-GUIDE PAPER	JB72-00843A	2	O	
6-3	CBF D SUB_CABLE-ADF-MAIN(CABLE)	JB39-00146A	1	O	
S3	SCREW TAPPING	6002-000175	2	O	
S6	SCREW-TAPTITE	6003-000196	9	O	
S7	SCREW-TAPTITE	6003-000269	2	O	

O: Service available X: Service not available

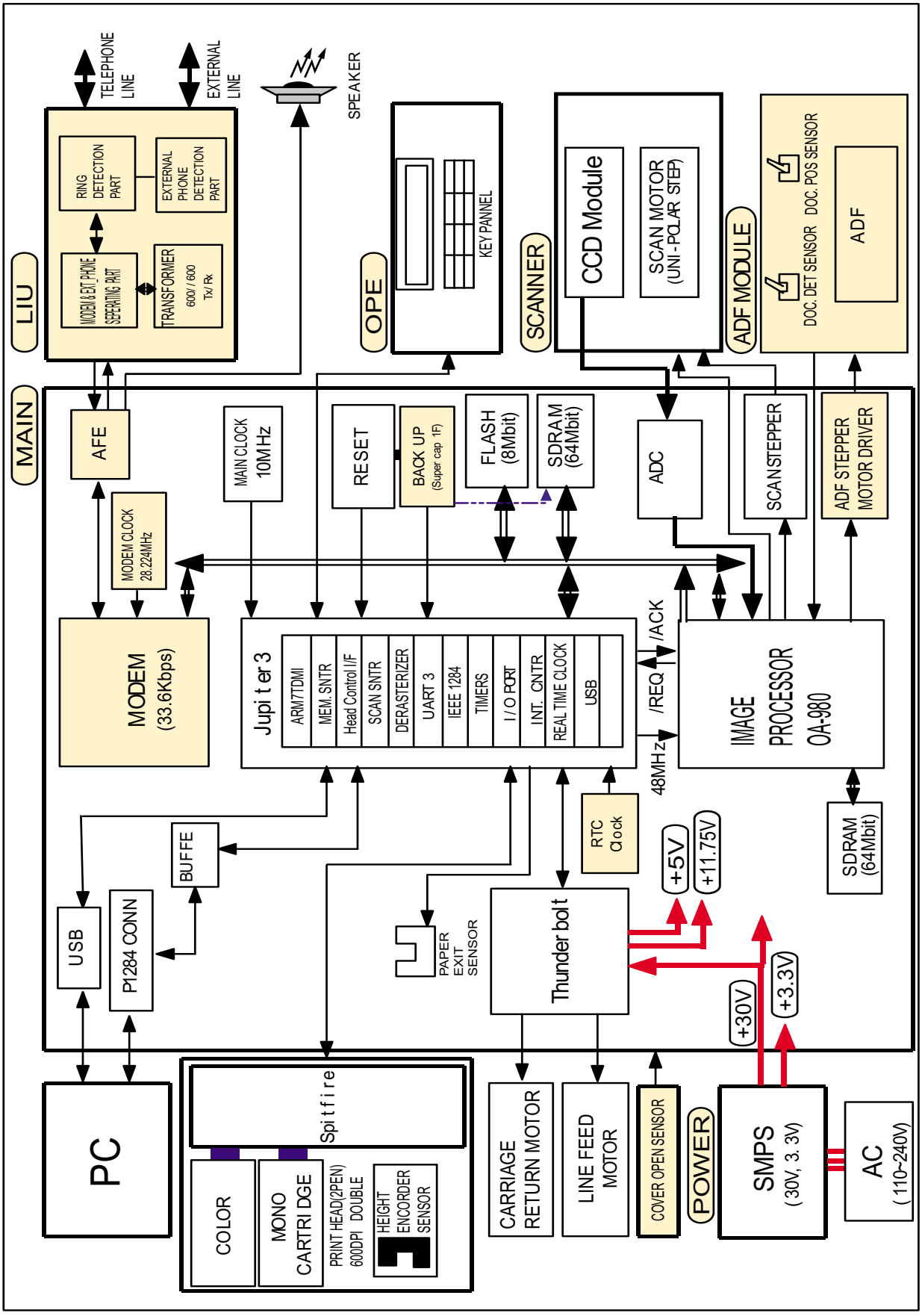
5-8 Screw

NO	DESCRIPTION	SEC CODE	SPEC	
S1	6001-000485	SCREW-MACHINE	PH,+,M2.6,L4,ZPC(YEL),SM20	
S2	6002-000101	SCREW-TAPPING	BH,+,2,M3,L10,ZPC(BLK),SM2	
S3	6002-000175	SCREW-TAPPING	PWH,+,2,M3,L8,ZPC(YEL),SM2	
S4	6002-000308	SCREW-TAPPING	PH,+,2,M2.6,L6,ZPC(YEL),SM	
S5	6002-001065	SCREW-TAPPING	PWH,+,2,M2.5,L5,ZPC(YEL),SM2	
S6	6003-000196	SCREW-TAPTITE	PWH,+,B,M3,L10,NI PLT,SWRC	
S7	6003-000269	SCREW-TAPTITE	BH,+,S,M3,L6,ZPC(YEL),SWRC	
S8	6009-001251	SCREW-SPECIAL	SM20C,P12,+,M3,L8,ZPC(YEL),MACHIN	

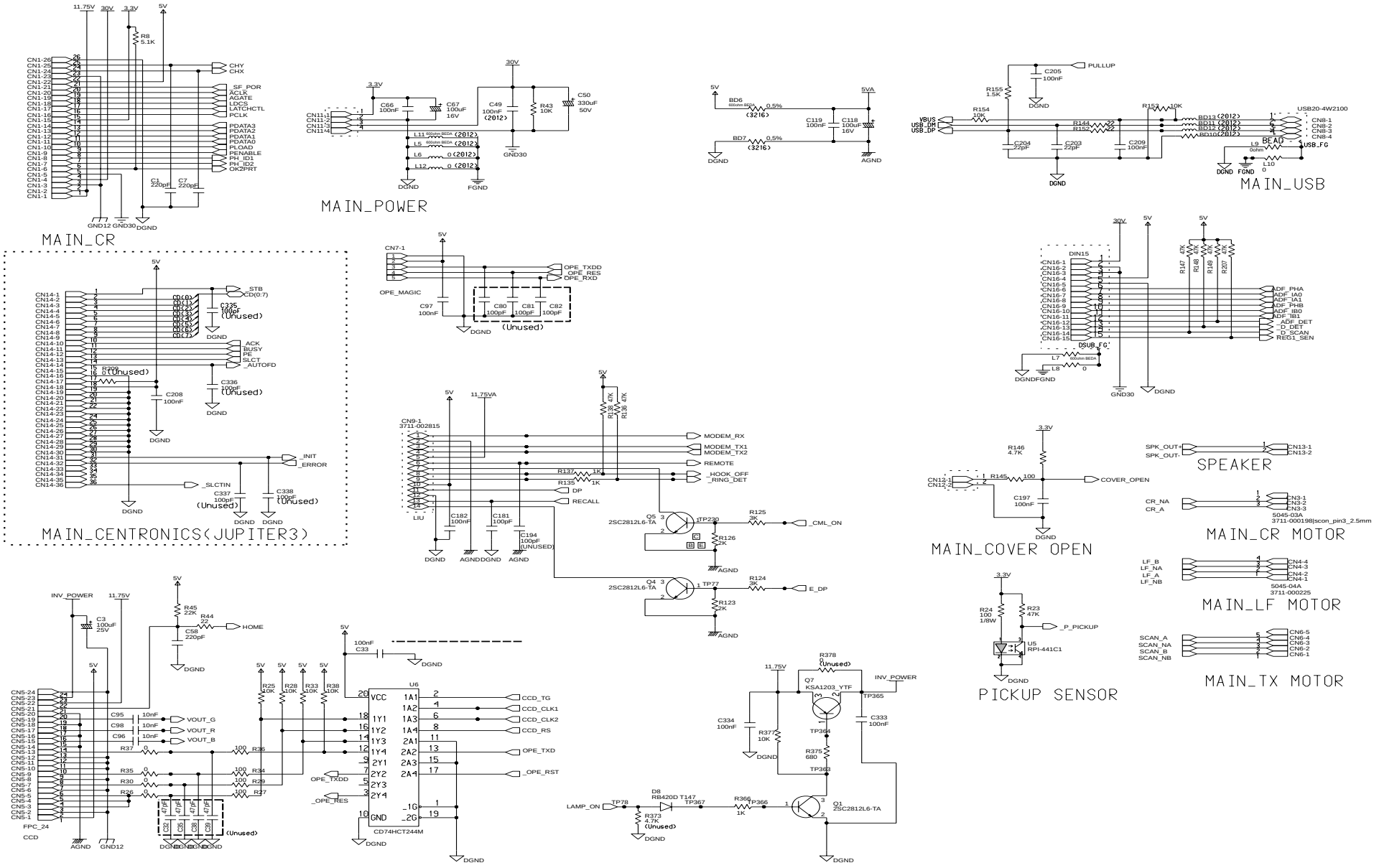
5-9 SMPS Parts Lists

DESCRIPTION	SEC. CODE	Q'TY	SPECIFICATION	LOCATION NO.
TR-SMALL SIGNAL	0501-000010	2	"KSC1008,NPN,800mW,TO-92,TP,120-240"	"Q3,Q4"
AS-FET	JB81-00229A	1	"SCX-1100,FQU2N60,600V, 2A ,-,-,-,-,-"	Q2
AS-DIODE_SCHOTTKY	JB81-00231A	1	"SCX-1100,SR204,40V, 2A,-,-,-,-,-"	D4
AS-DIODE_FR	JB81-00232A	1	"SCX-1100,ER502,200V, 5A,-,-,-,-,-"	D5
AS-DIODE_ZENER	JB81-00233A	1	"SCX-1100,MTZ9.1B,500MW (8.57V~9.01V),-,-,-,-,-"	ZD1
AS-DIODE_ZENER	JB81-00234A	1	"SCX-1100,1N4753A,1W 36V,-,-,-,-,-"	ZD4
AS-DIODE_BRIDGE	JB81-00235A	1	"SCX-1100,2KBP06M,600V, 2A,-,-,-,-,-"	BD1
AS-TRANSFORMER	JB81-00237A	1	"SCX-1100,MAGIC-V3,EE2525W ; MAGIC-V3,-,-,-,-,-"	T1
AS-FUSE	JB81-00239A	1	"SCX-1100,50T,250V 2.0A,-,-,-,-,-"	F1
AS-FET CHIP SILICON	JC81-00020A	1	"ML-7000,IRF9540(N),TO-220,-100V,-17A,0.2OHM,-,-"	FOR_Q1
REACTOR-INR 10D-561K	JC81-00407A	1	"SF-5100,INR 10D-561K,VARISTOR,-,-,-,-,-"	TNR1
AS-R WIRE WOUND	JC81-11404A	2	"SF6000,RWN1W 0.42J,-,-,-,-,-"	"R17,R4"
AS-Q1	JF81-10908A	1	"ALPS-V2,SSP5N80A,800V,5A,-,-,-"	Q1

6. Block Diagram



7. Connection Diagram





ELECTRONICS

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