

SAMSUNG

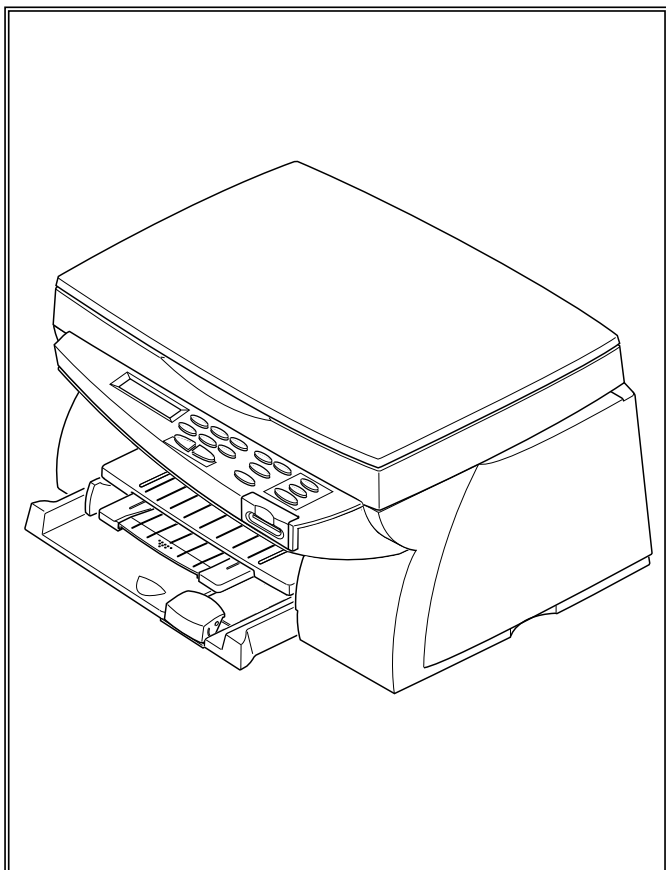
Mult-function Printer

SCX-1000I

SCX-1000SI

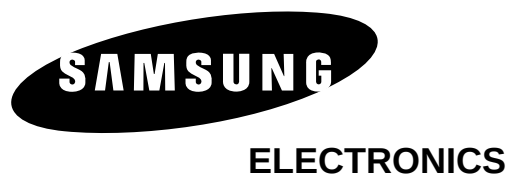
***SERVICE* Manual**

Mult-function Printer



CONTENTS

- 1. Precautions**
- 2. Specifications**
- 3. Disassembly and Reassembly**
- 4. Maintenance & Troubleshooting**
- 5. Exploded Views and Parts List**
- 6. Electrical Parts List**
- 7. Block Diagrams**
- 8. PCB Diagrams**
- 9. Schematic Diagrams**



1. Precautions

Follow these safety, ESD, and servicing precautions to prevent personal injury and equipment damage.

1-1 Safety Precautions

1. Be sure that all built-in protective devices are in place. Restore any missing protective shields.
2. Make sure there are no cabinet openings through which people- particularly children- might insert fingers or objects and contact dangerous voltages.
3. When re-installing chassis and assemblies, be sure to restore all protective devices, including control knobs and compartment covers.
4. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of this equipment, such as auxiliary connectors, etc. Such alterations and modifications will void the manufacturer's warranty.
5. Components, parts, and wiring that appear to have overheated or are otherwise damaged should be replaced with parts which meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
6. Observe the original lead dress, especially near sharp edges, AC, and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board.
7. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they provide could be lost if a replacement component differs from the original. This holds true, even though the replacement may be rated for higher voltage, wattage, etc.

Components critical for safety are indicated in the parts list with symbols  . Use only replacement components that have the same ratings, especially for flame resistance and dielectric specifications. A replacement part that does not have the same safety characteristics as the original may create shock, fire, or other safety hazards.

1-2 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. Specification

2-1 Copier

Scanner Type	Flat-bed without ADF (Automatic Document Feeder)
Maximum Original Size	A4/Letter
Maximum Paper Size	A4/Letter/Legal
Maximum Scan Width	216 mm
Optical Resolution (HxV)	300 x 600 dpi
Copy Quality	Fast, Normal, Best
Mono Copy Speed	Maximum: 4cpm.
Color Copy Speed	Maximum: 1.5cpm.
Maximum Print-edge Margin	Top: 3.4mm, Bottom: 19.5mm, Each Side: 6.5mm
Multicopy	99 pages
Zoom Rate	25 % ~ 400 % (1 % Step)
Contrast Control	3 Steps

2-2 Printer

Technology		Color Thermal Inkjet
Engine Type		2-Pen (K and CMY)
Operating System		Windows 95/98/NT
Interface		IEEE 1284 (ECP Support), USB (without HUB Mode)
Emulation		HBP
Print Speed ⁽²⁾	Mono	9ppm Draft / 7ppm Normal
	Color	4.5ppm Draft / 2ppm Normal
Print Resolution (H x V)	Draft	300 x 600 dpi
	Normal	600 x 600 dpi
	Best	1200 x 1200 dpi (Addressable)
Maximum Paper Size		A4, Letter, Legal
Effective Printing Width		8.0" (203 ± 1mm)
Paper Feeding Capacity		Maximum 150 Sheets
Output Tray Capacity		Maximum 50 sheets
Maximum Cable Length		6 ft(1.8m) of standard IEEE 1284 ⁽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.

2-3 Scanner

Operation System	Windows 95/98/NT
Interface	IEEE 1284 (ECP Support), USB (without HUB Mode)
Compatibility	TWAIN
Device	Platen Color CIS (Contact Image Sensor)
Scan Width	Max.: 8.5" (216 mm), Effective: 8.2" (210 mm)
Color Depth	30 bit
Optical Resolution (H x V)	300 x 600 dpi
Interpolation Resolution	Max. 4800 dpi
Pre-scan Mode	Yes, 75 dpi

2-4 Ink-head

	Mono Cartridge	Color Cartridge
Head	Babbage 208 nozzles	Birch 192 nozzles
Ink type	Pigment	Dye
Ink Color	Black	Color (CMY)
Ink Yield	High yield : 1075 pages	200 pages

2-5 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	3A
DC Channels ⁽⁴⁾	+5V $\pm$ 5%, +12V $\pm$ 2%, +30V $\pm$ 5%

2-6 Dimension

Machine Size (W x D x H)	445 x 369x 258mm
Machine Weight	About 7.8 Kg (Machine itself)

2-7 Packaging

Power Cord	1EA
IEEE 1284 Cable	1EA
USB Cable	No
CD-ROM	2EA
Ink Cartridge	Mono 1EA, Color 1EA
Manual	2vol.

2-8 Environmental Condition

Absolute Storage Temperature ⁽⁵⁾		-25°C ~ 60°C
Absolute Storage Humidity ⁽⁵⁾		10% RH ~ 90% RH
Recommended Operating Condition	Temperature	16°C ~ 32°C
	Humidity	40% RH ~ 70% RH

Note:

(5) Packing Condition

2-9 Machine Life

Product Life in Time	3 Years
Life Time in Pages	20,000 Printing Pages
Maximum Monthly Duty Cycle	1,200 Printing Pages except Ink-head

MEMO

3. Disassembly and Reassembly

3-1 General Precautions on Disassembly

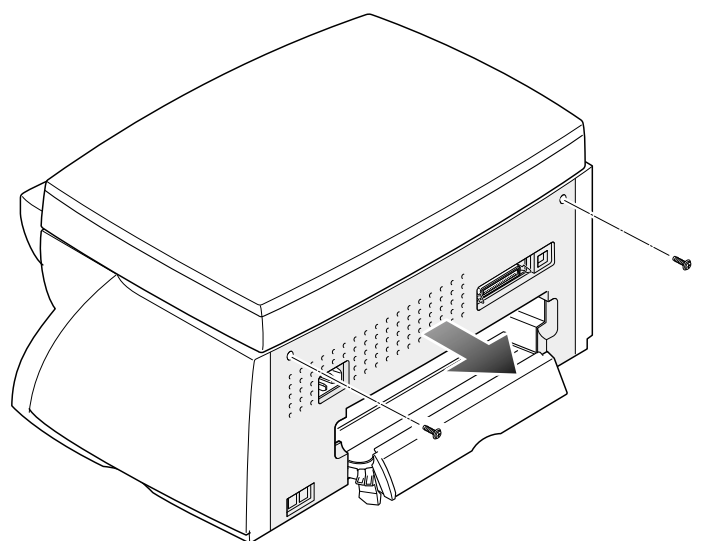
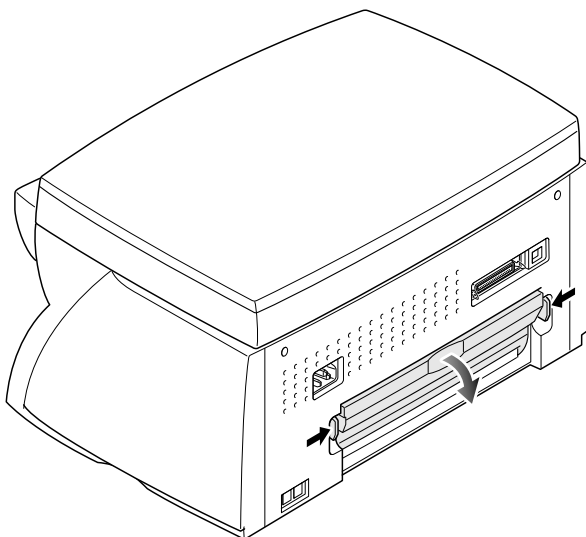
When you disassemble and reassemble components, you must use extreme caution. The close proximity of cables to moving parts makes proper routing a must. If components are removed or replaced, any cables disturbed by the procedure must be replaced as close as possible to their original positions. Before 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.

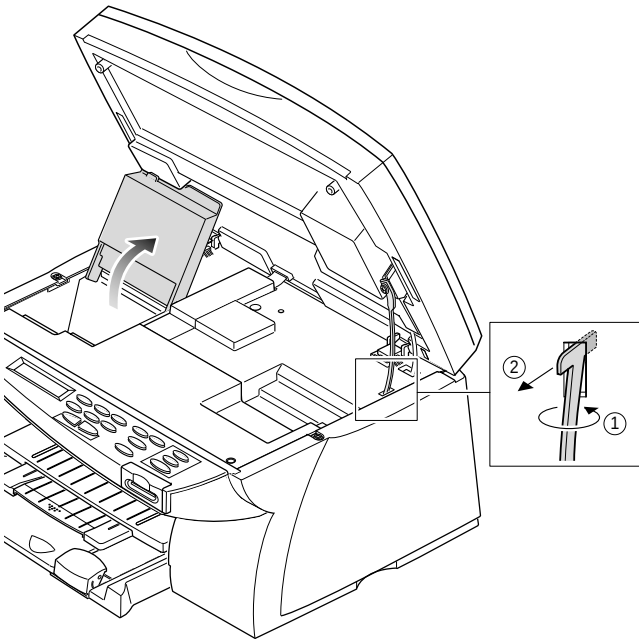
3-2 Rear Cover

1. Remove the guide outer.
2. Remove two screws securing the rear cover.
Separate the rear cover from the main frame.

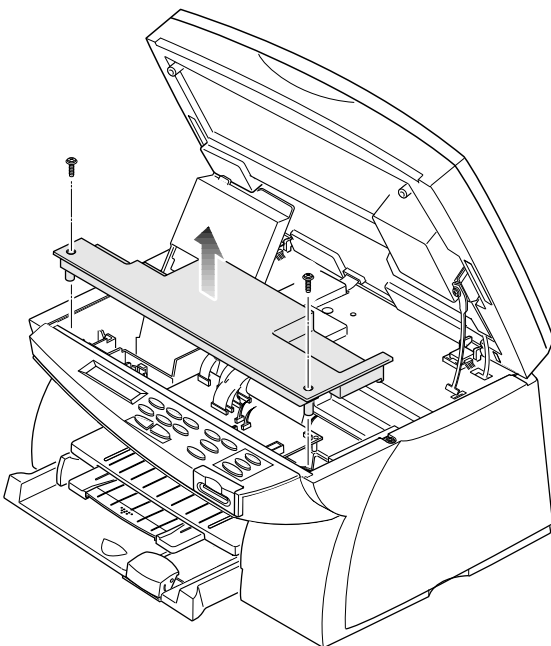


3-3 Scanner Unit Assembly

1. Raise the scanner support to hold up the scanner unit and remove the stopper holding the scanner unit.

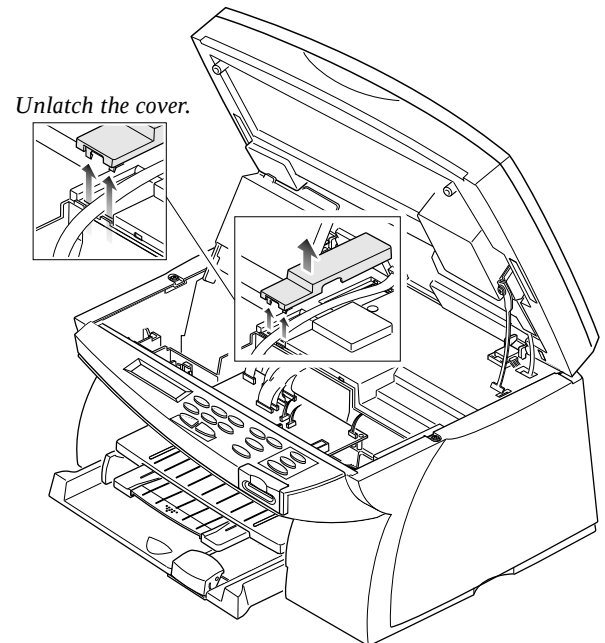


2. Remove two screws and take out the PCB cover.

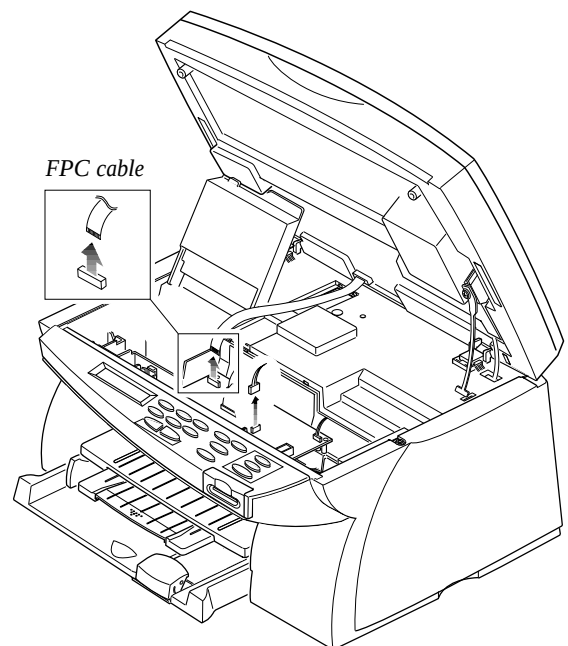


3. Unlatch the harness cover by pushing on the bottom of the tabs upward, then remove the cover.

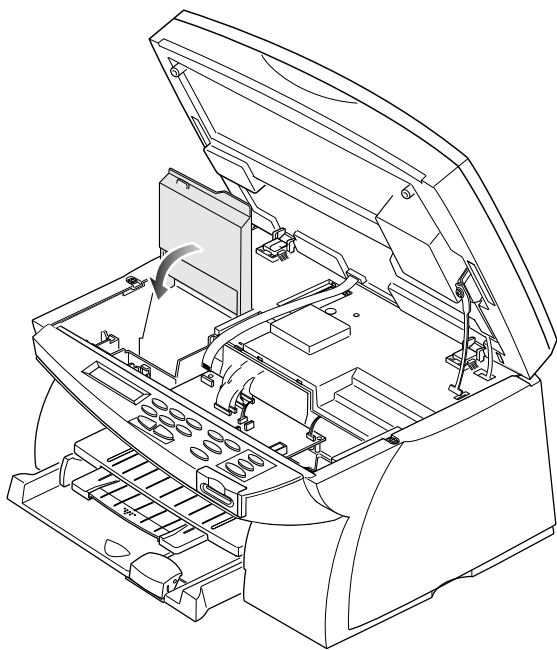
! You should connect or remove the FPC cable vertically to avoid the FPC cable pin damage.



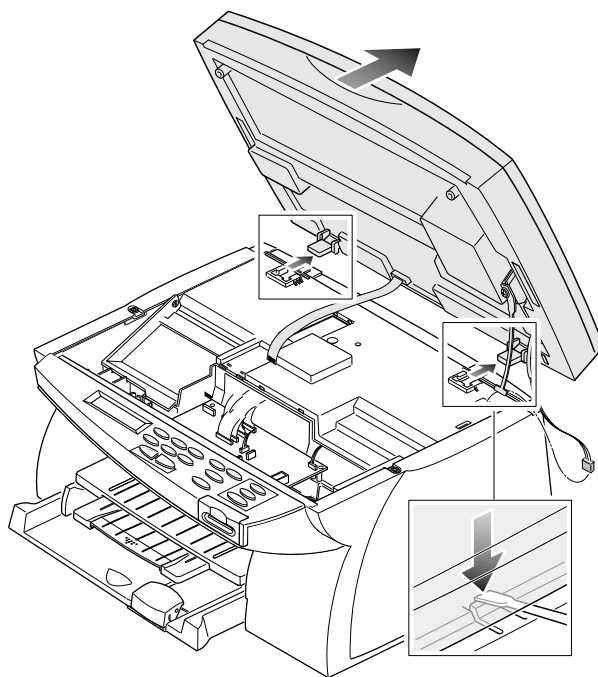
4. Unplug the harness and one connector from the main PBA.



6. Place the scanner support to its original position.



7. Pull the scanner unit backward and remove the assembly from the main frame.

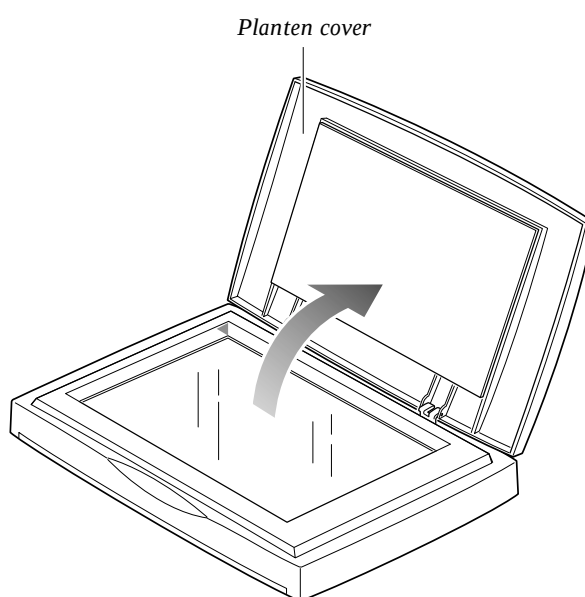


3-4 Scanner

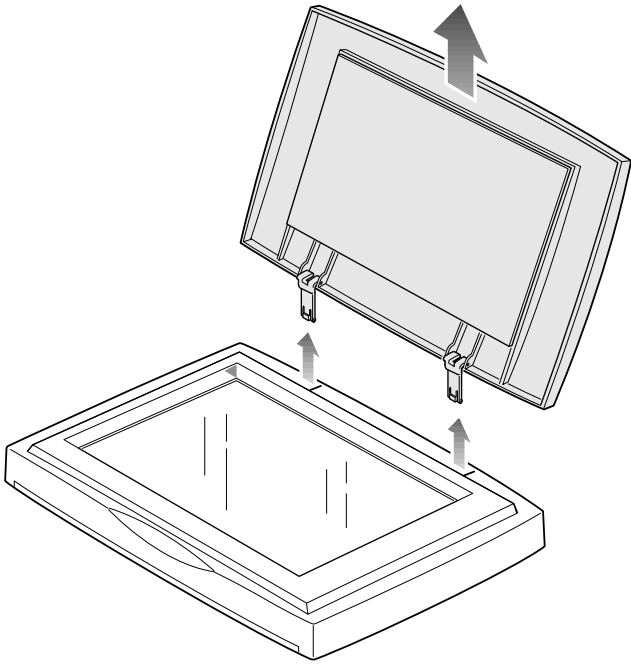
1. Before you disassemble the scanner, you should remove:
* Scanner unit assembly (See page 3-3)

⚠ Before you assemble or disassemble the scanner, you should take on the wrist strap device for ESD protection. (See 1-2 ESD precautions)

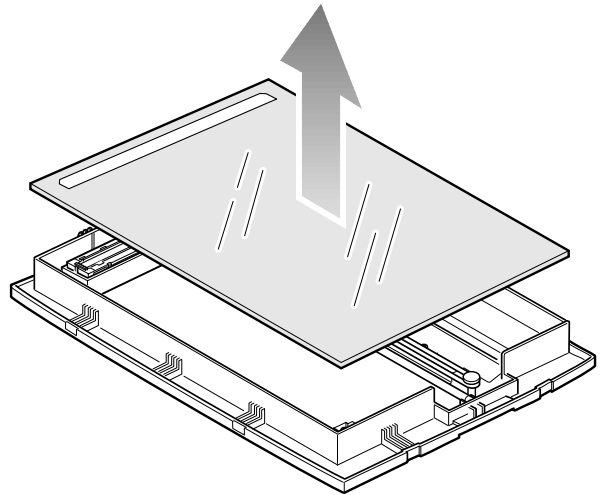
2. Lift and open the platen cover.



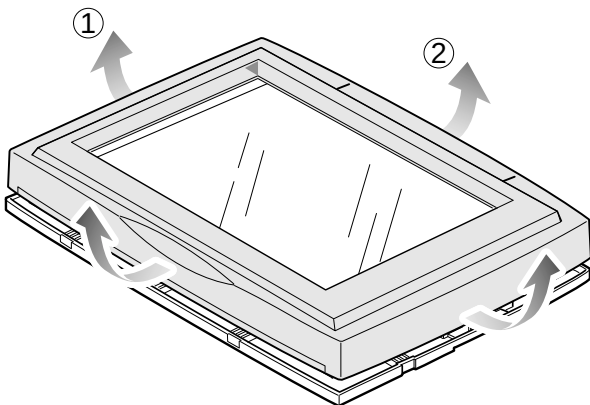
3. Pull the cover upward and remove it.



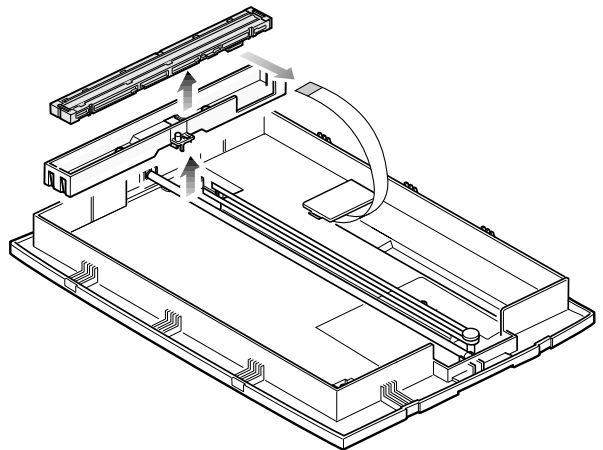
5. Remove the glass from the main frame.



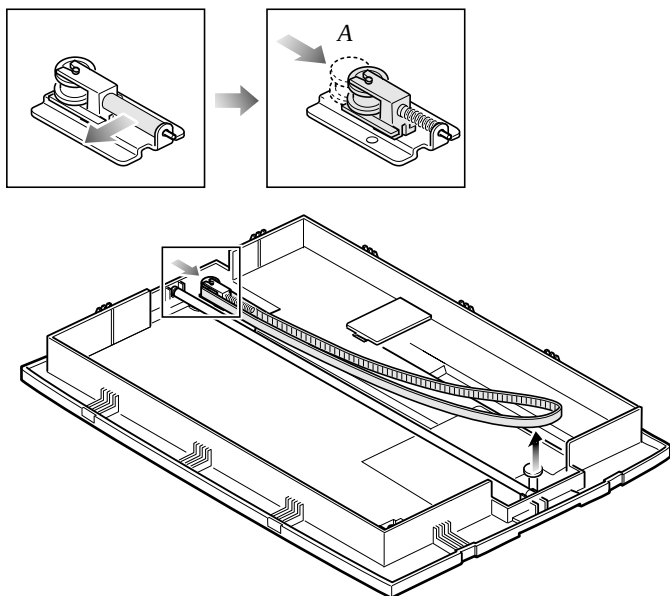
4. Unlatch the frame securing the scanning glass and remove it.



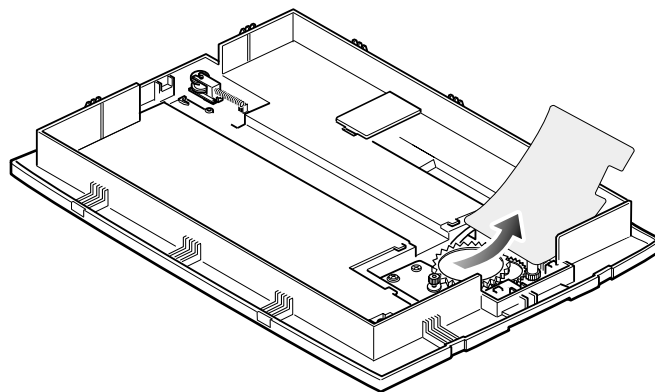
6. Lift the CIS and unplug one connector from the CIS.



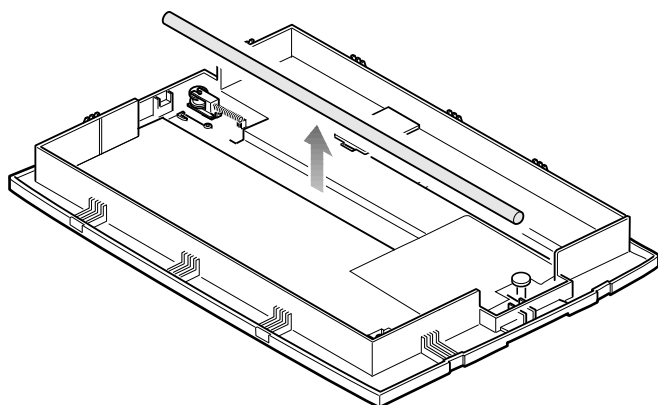
7. Remove C-cap, then push the part marked with A and remove the belt.



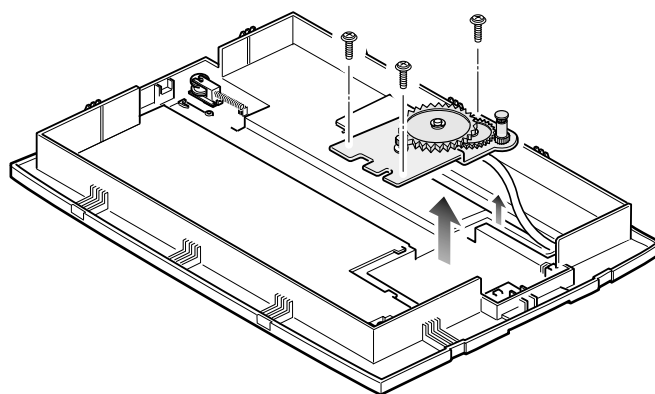
9. Remove the cover of the motor bracket.



8. Remove the shaft.

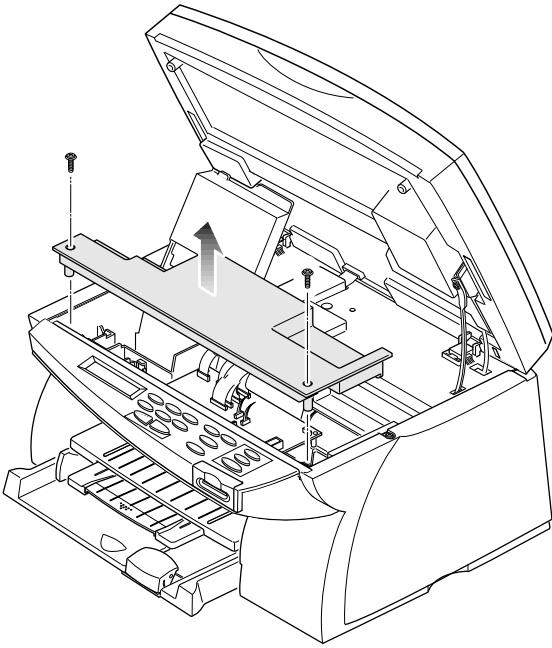


10. Remove three screws and take out the motor bracket.

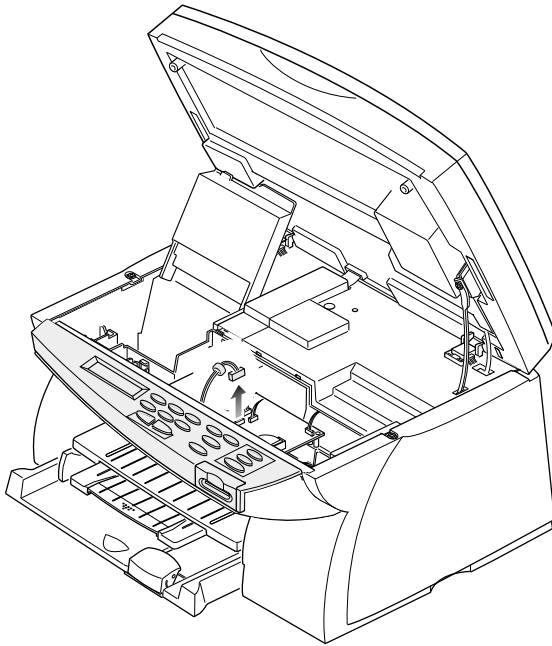


3-5 OPE panel

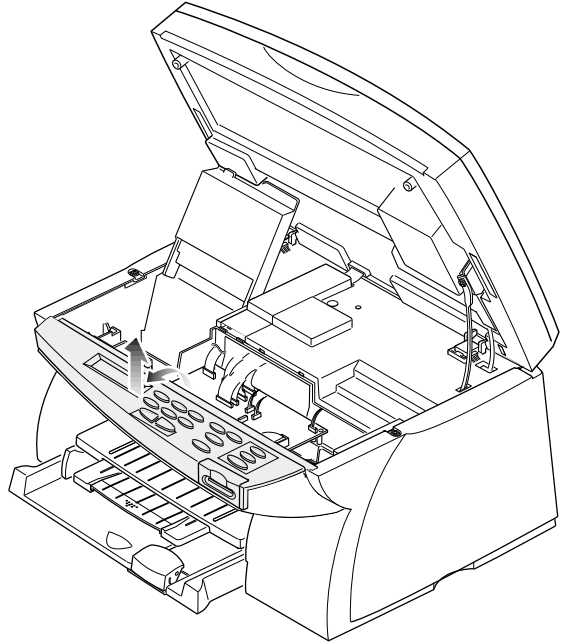
1. Remove two screws securing the PCB cover to the main frame. Take out the PCB cover.



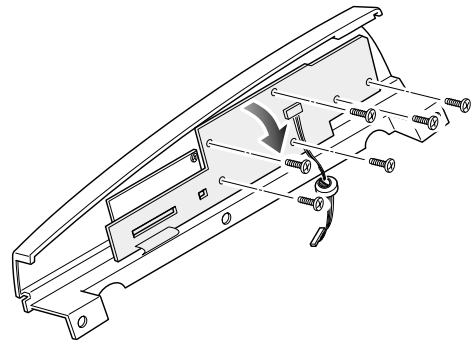
2. Unplug one connector from the PCB.



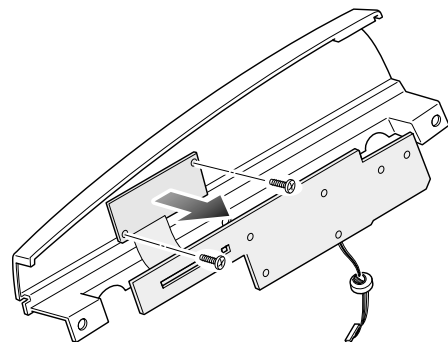
3. Unlatch the OPE panel to the direction of the arrows and take out the cover.



5. Remove six screws, then turn the OPE board upside down.

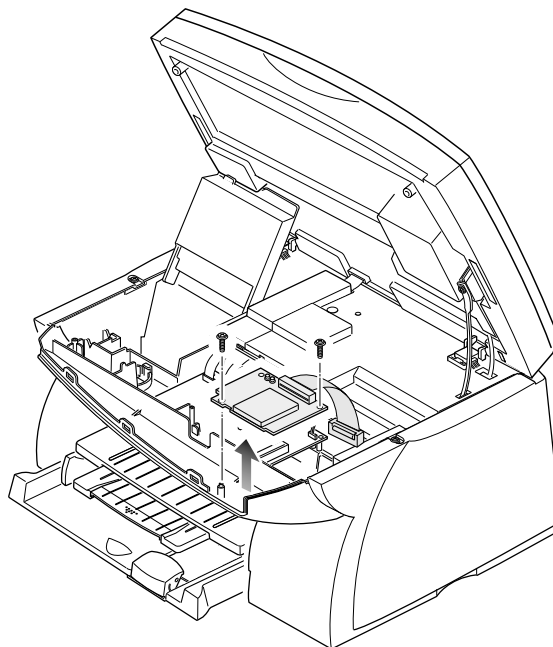
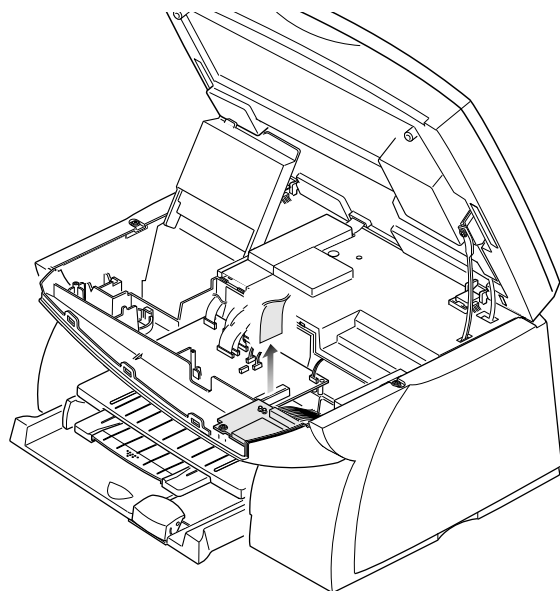


6. Remove two screws and remove the LCD board with OPE board.



3-6 Smart board

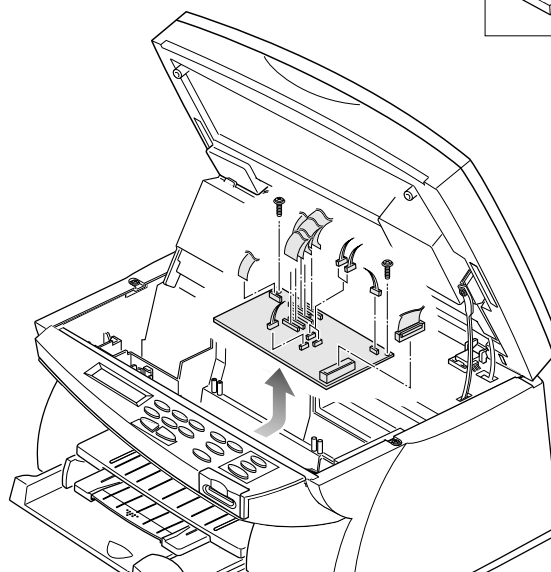
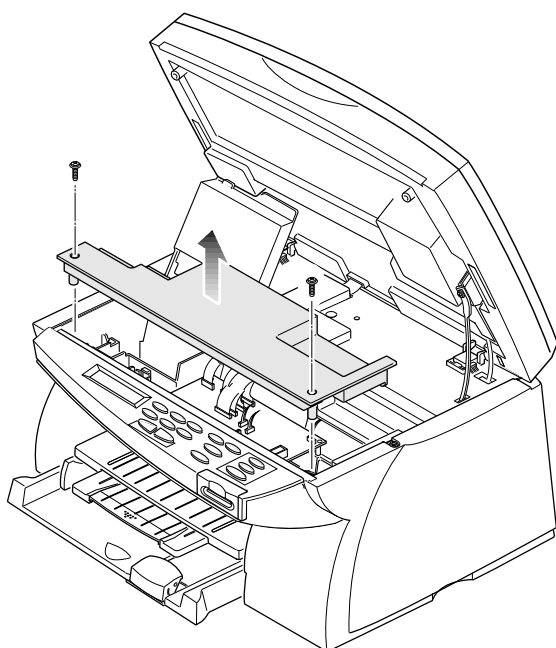
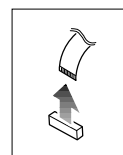
1. Before you disassemble the smart board, you should remove:
* OPE panel (See page 3-6)
2. Unplug one FPC cable from the PCB.
3. Remove two screws securing the board and take the board out.



3-7 Main PBA

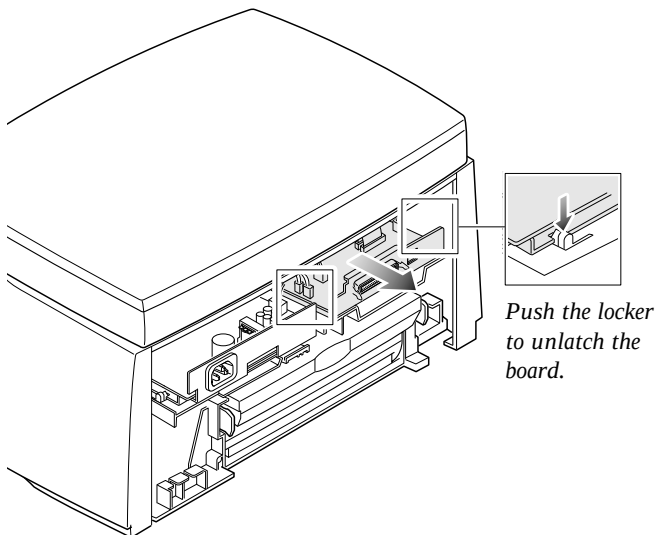
1. Open the scanner unit.
2. Remove two screws securing the PCB cover. Take out the cover from the main frame.
3. Remove two screws securing the main PBA to the main frame and unplug all connectors. Take out the main PBA.

⚠ You should connect or remove the FPC cable vertically to avoid the FPC cable pin damage.

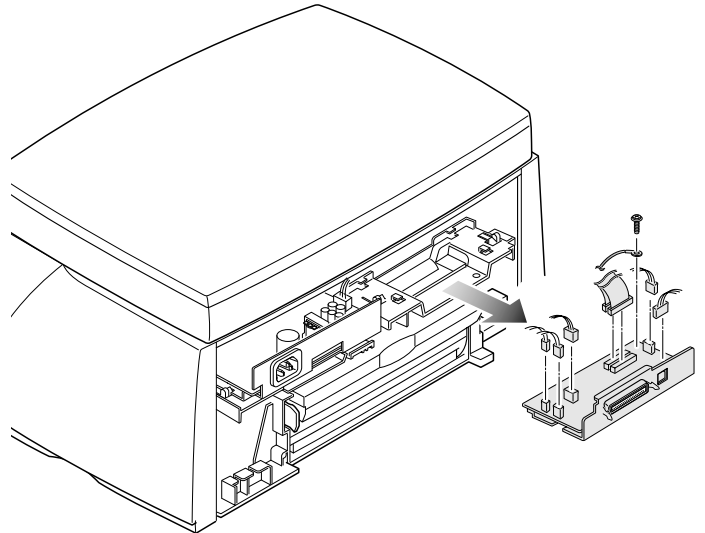


3-8 Drive PBA

1. Before you disassemble the drive PBA, you should remove:
* Rear cover. (See page 3-1)
2. Unlatch the drive PBA, then pull it toward you.

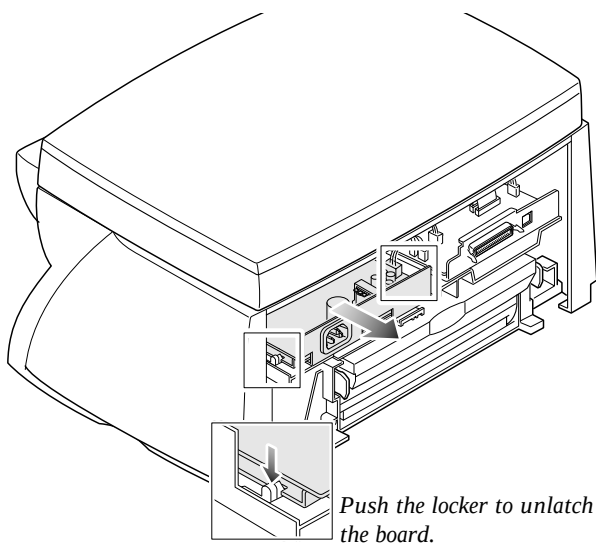


3. Remove one ground screw and unplug all connectors, then remove the drive PBA.

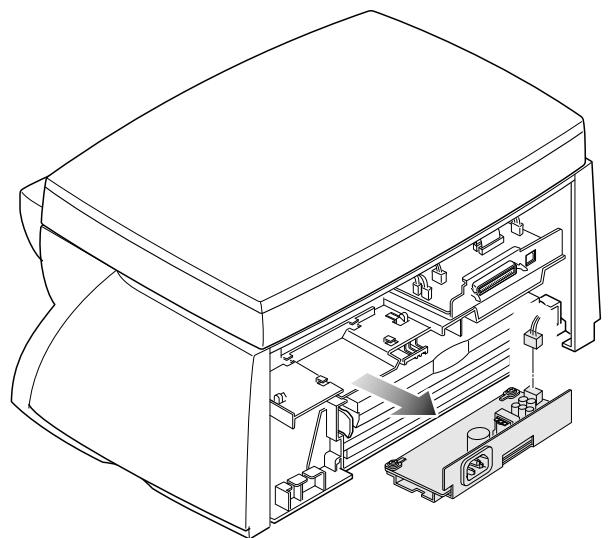


3-9 SMPS

1. Before you disassemble the SMPS, you should remove:
* Rear cover. (See page 3-1)
2. Unlatch the Drive PBA, then pull it toward you.

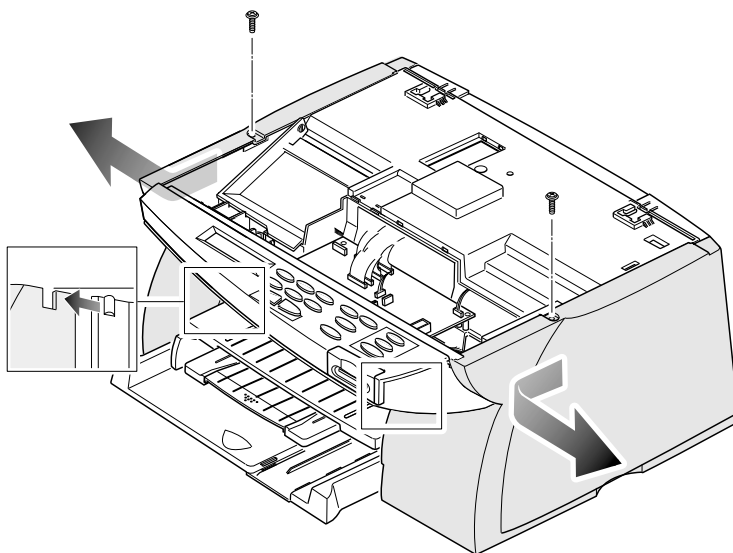


3. Remove one connector, then remove the SMPS.



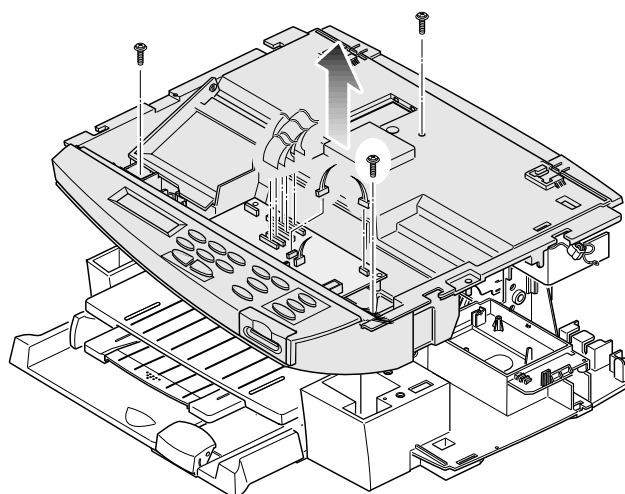
3-10 Side Covers (R/L)

1. Before you disassemble the side covers (R/L), you should remove:
 - * Rear cover (See page 3-1)
 - * Scanner unit assembly (See page 3-2)
2. Remove two screws and remove the right and left side covers.



3-11 Middle Cover

1. Before you disassemble the middle cover, you should remove:
 - * Rear cover (See page 3-1)
 - * Scanner unit assembly (See page 3-2)
 - * Side covers (R/L) (See above)
2. Remove three screws and remove all connectors. Then take out the middle cover.



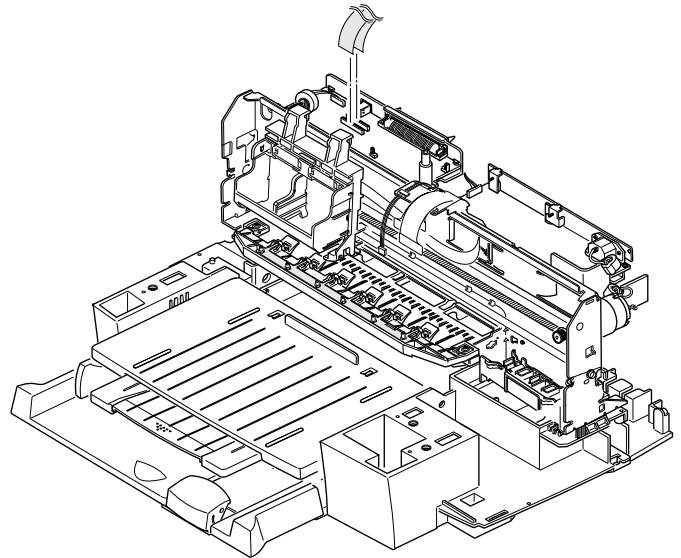
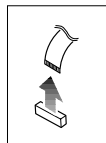
3-12 FPC Cable

1. Before you disassemble the FPC cable you should remove:

- * All covers (See page 3-1, 3-9, 3-10)
- * Scanner unit assembly (see page 3-2)

2. Unplug two FPC cables.

⚠ You should connect or remove the FPC cable vertically to avoid the FPC cable pin damage.



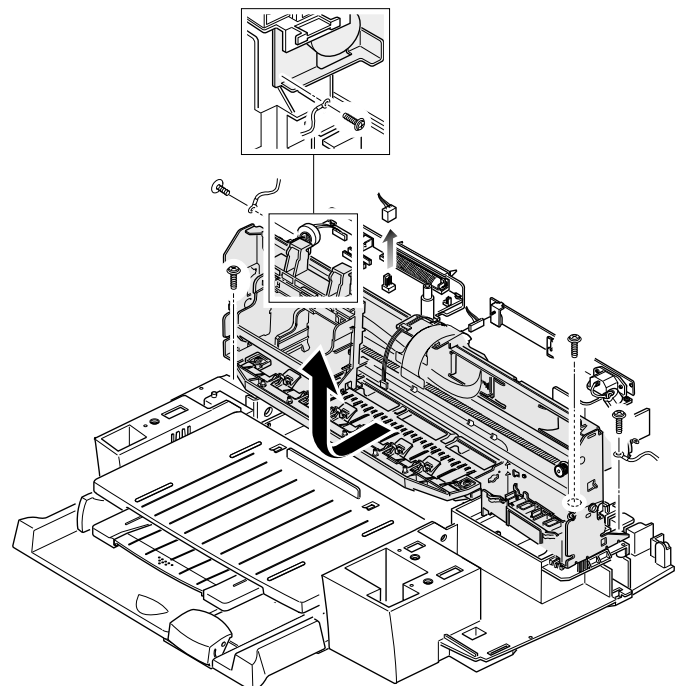
3-13 Engine Unit

1. Before you disassemble the engine unit, you should remove:

- * All covers (See page 3-1, 3-9, 3-10)
- * Scanner unit assembly (See page 3-2)

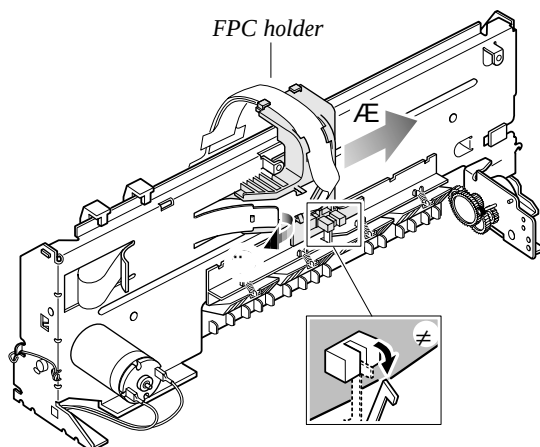
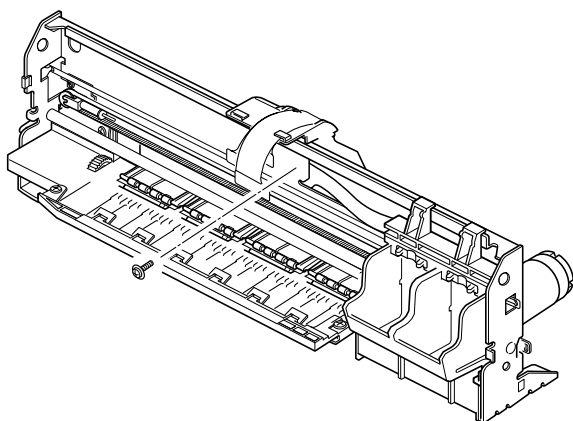
2. Remove four screws securing the engine unit, and unplug one connector from the drive PBA.

3. Take out the engine unit from the ASF frame.

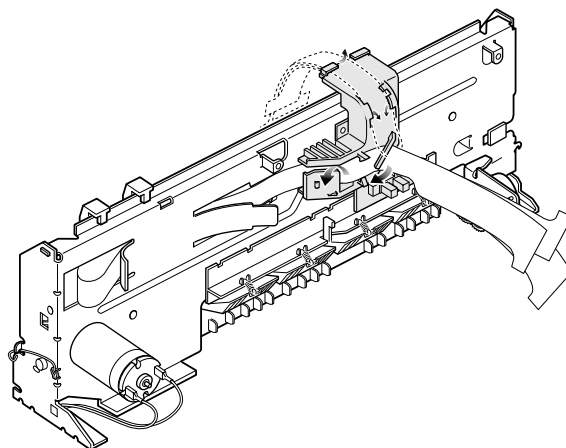


3-14 FPC Holder Assembly

1. Before you disassemble the FPC holder assembly you should remove:
 - * All covers (See page 3-1, 3-9, 3-10)
 - * Scanner unit (See page 3-2)
 - * Engine unit. (See page 3-10)
2. Remove one screw securing the FPC holder to the main frame.
3. Pull the part " out to unlatch the FPC holder and pull the sensor actuator ≠ out, then slide the FPC holder in the direction of Æ.



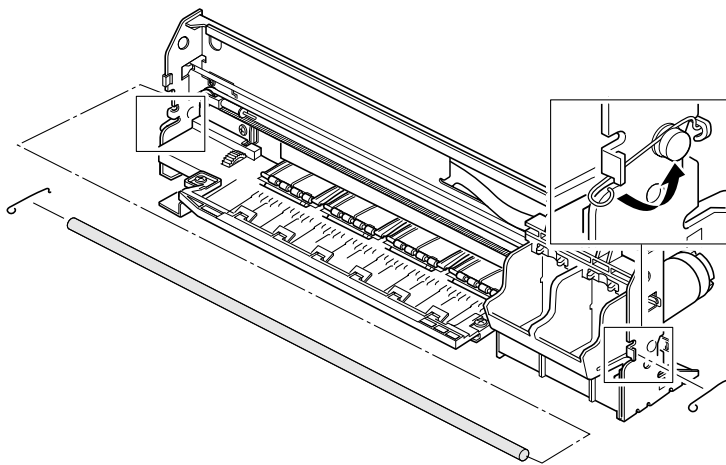
4. Remove the FPC cable from the main frame.



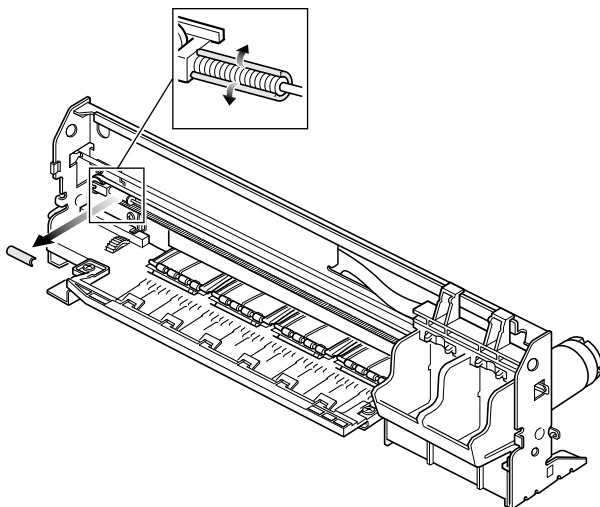
3-15 Cartridge Assembly

1. Before you disassemble the cartridge assembly you should remove:
 - * All covers (See page 3-1, 3-9, 3-10)
 - * Scanner unit assembly (see page 3-2)
 - * Engine unit (See page 3-10)
 - * FPC holder assembly (See page 3-11)

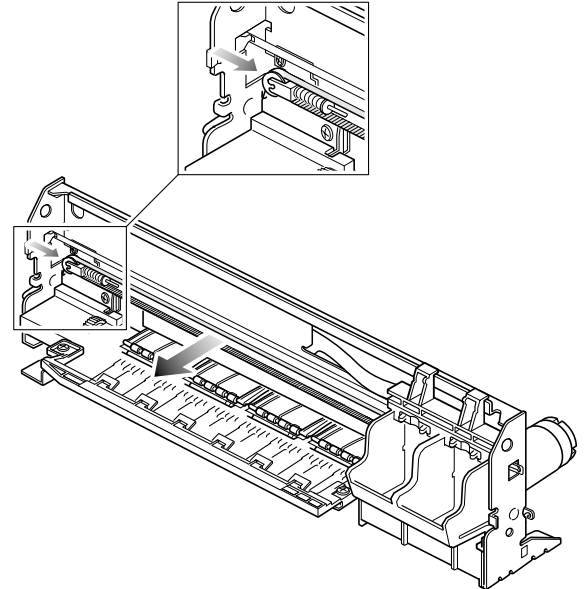
2. Rotate to remove both springs securing the carrier shaft. Then take out the carrier shaft.



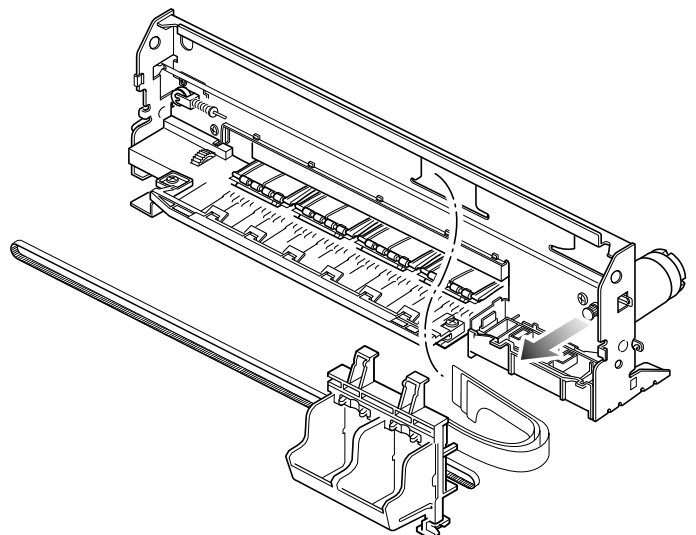
3. Remove the C-cap.



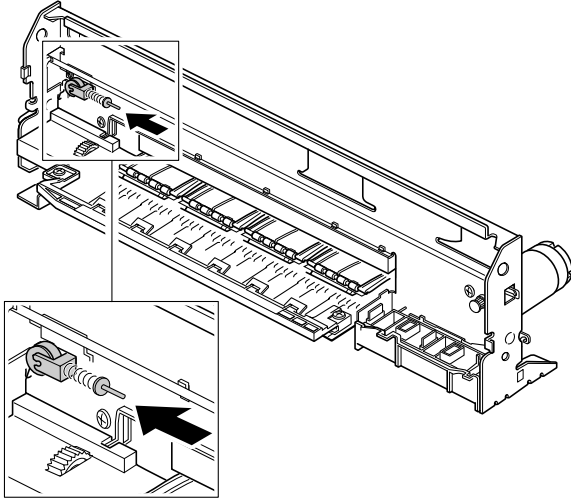
4. Push the holder pulley to the right and take out the belt.



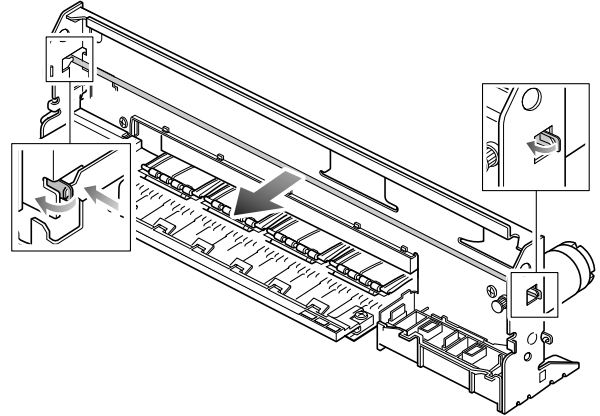
5. Take out the cartridge carrier from the main frame.



6. Push the holder pulley to the direction of arrow and remove it from the main frame.

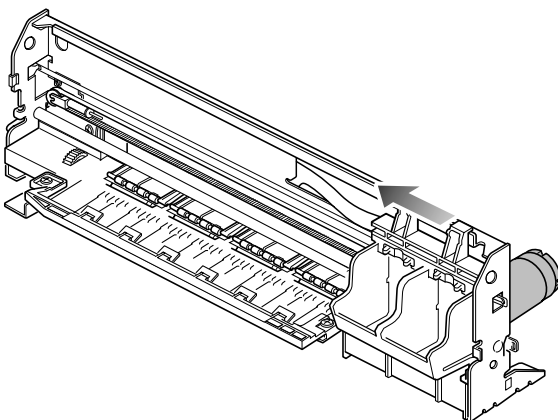


7. Unlatch the encoder by releasing both ends hooked to the main frame using a sharp tool. Take out the encoder.

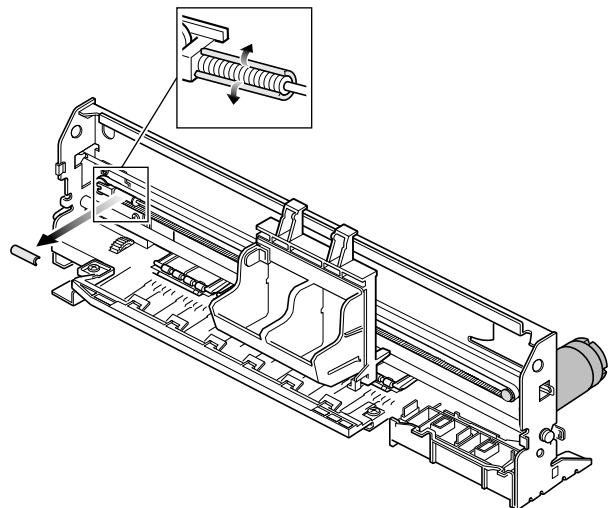


3-16 Carrier Motor

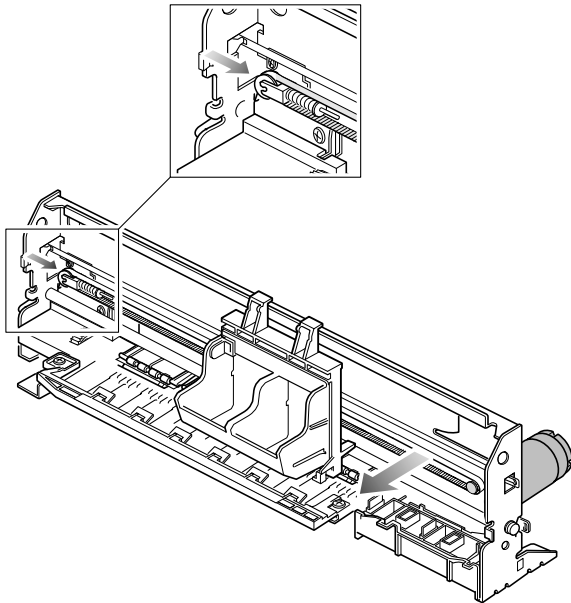
1. Before you disassemble the carrier motor you should remove:
 - * All covers (See page 3-1, 3-9, 3-10)
 - * Scanner unit assembly (See page 3-2)
 - * Engine unit (See page 3-10)
2. Push the cartridge carrier to the direction of arrow.



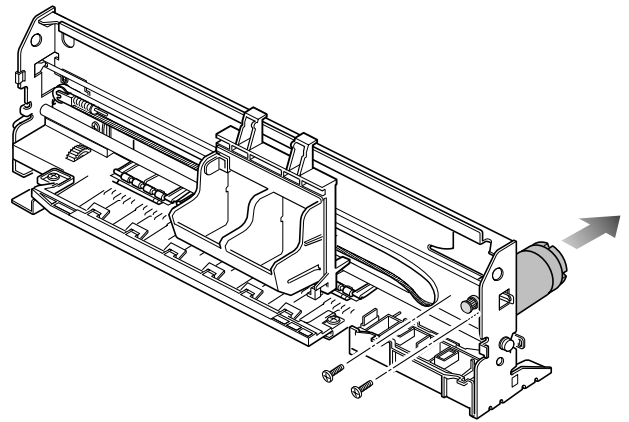
3. Remove the C-cap.



4. Push the holder pulley and remove the belt only.



5. Remove two screws securing the carrier motor and take out the motor from the main frame.

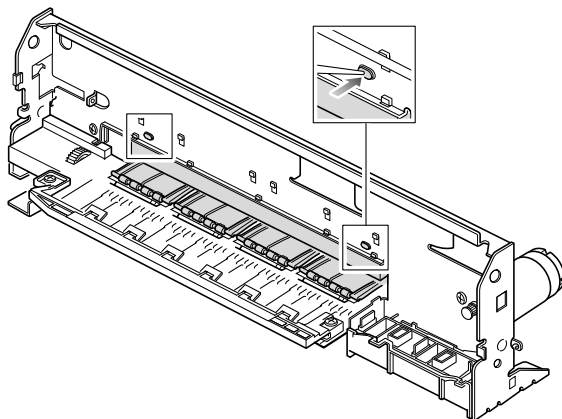


3-17 Roller Holder

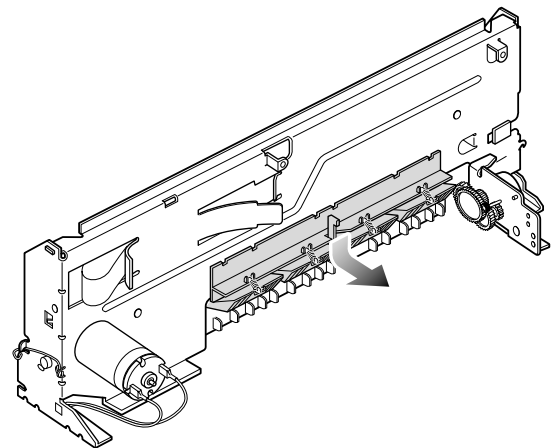
1. Before you disassemble the roller holder you should remove:

- * All covers (See page 3-1, 3-9, 3-10)
- * Scanner unit assembly (see page 3-2)
- * Engine unit (See page 3-10)
- * FPC holder assembly (See page 3-11)
- * Cartridge assembly (See page 3-12)

2. Unlatch the holder by pushing the parts hooked to the main frame using a sharp tool.

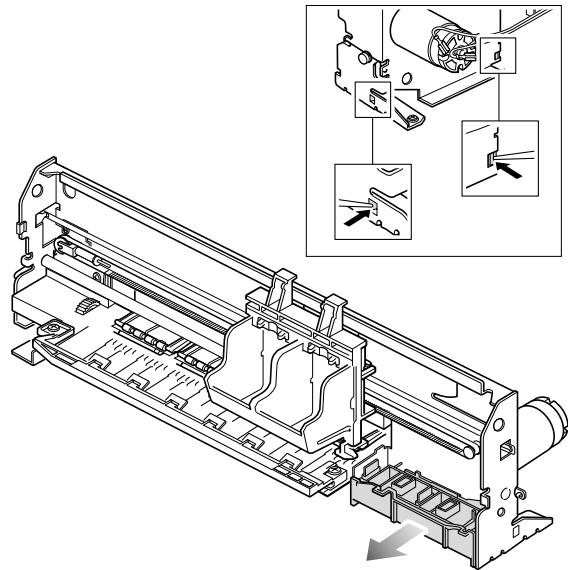


3. Pull the holder downward and take it out from the main frame.



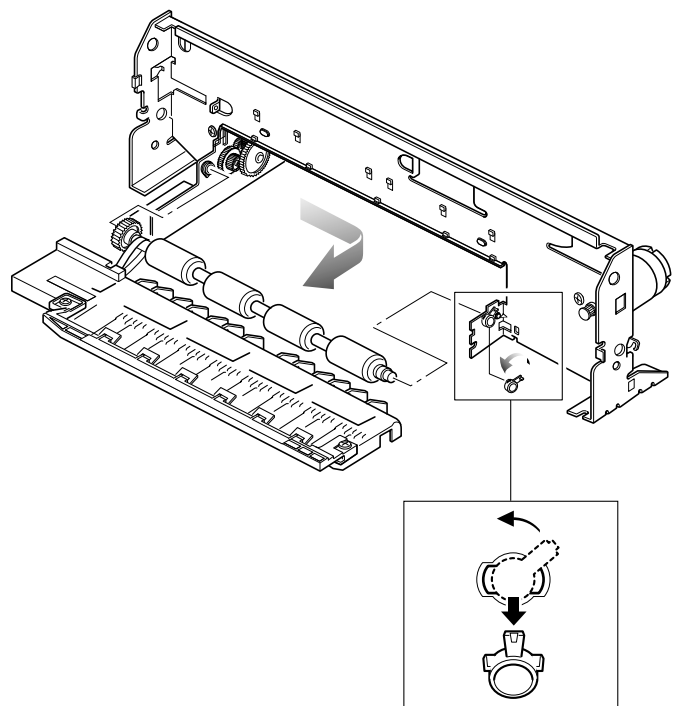
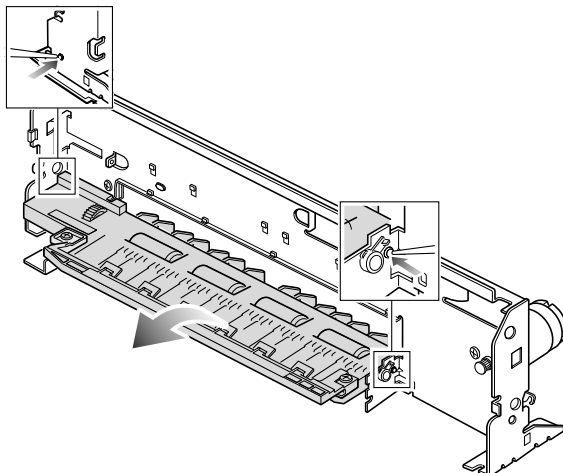
3-18 Home Ass'y

- Before you disassemble home ass'y you should remove:
 - * All covers (See page 3-1, 3-9, 3-10)
 - * Scanner unit (See page 3-2)
 - * Engine unit. (See page 3-10)
- Unlatch the home assembly by pushing the parts hooked to the main frame using a sharp tool. Take out the home assembly from the main frame.



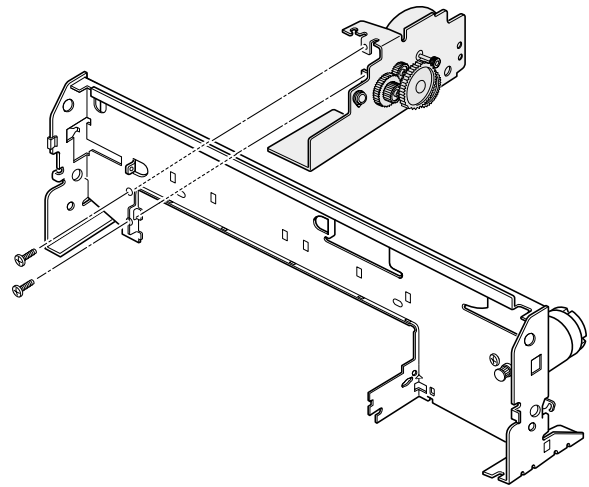
3-19 Base Frame and Feed Roller

- Before you disassemble the base frame and feed roller you should remove:
 - * All covers (See page 3-1, 3-9, 3-10)
 - * Scanner unit (see page 3-2)
 - * Engine unit (See page 3-10)
 - * FPC holder assembly (See page 3-11)
 - * Cartridge assembly (See page 3-12)
 - * Home ass'y (See above)
- Unlatch the base frame assembly by pushing the parts hooked to the main frame using a sharp tool.
- Turn the bearing feed counterclockwise and take out the base frame and feed roller from the main frame.



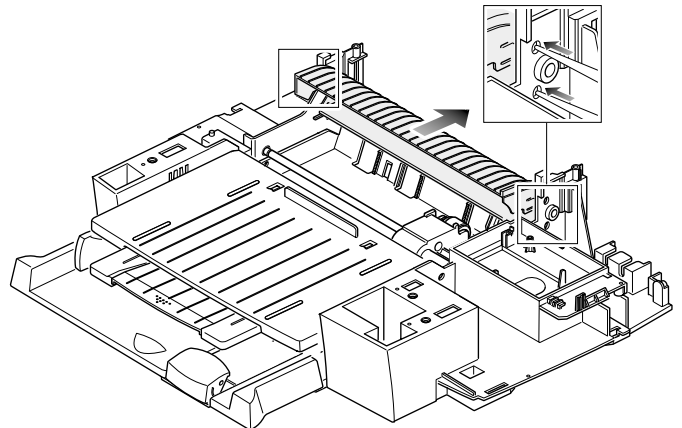
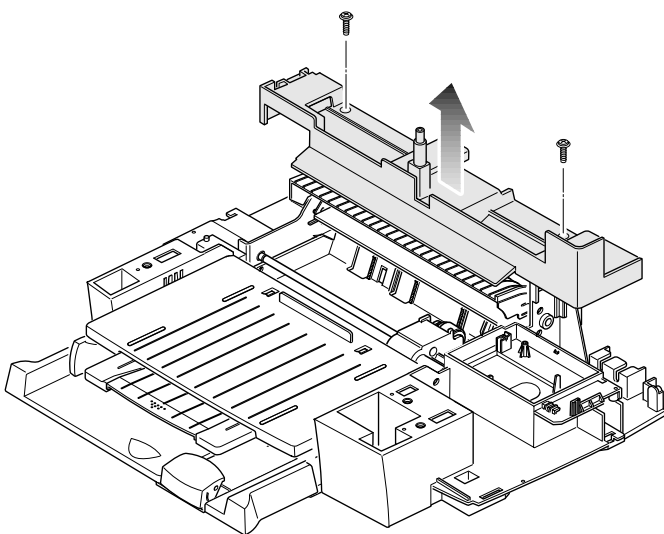
3-20 Line Feed Bracket Assembly

1. Before you disassemble the line feed bracket assembly you should remove:
 - * All covers (See page 3-1, 3-9, 3-10)
 - * Scanner unit (see page 3-2)
 - * Engine unit (See page 3-10)
 - * FPC holder assembly (See page 3-11)
 - * Cartridge assembly (See page 3-12)
 - * Home ass'y (See page 3-15)
 - * Base frame and feed roller (See page 3-15)
2. Remove two screws and take out the LF bracket ass'y from the main frame.

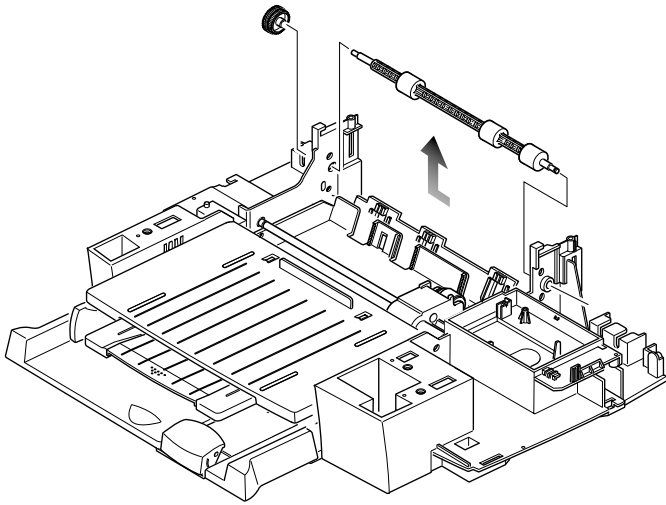


3-21 ASF assembly

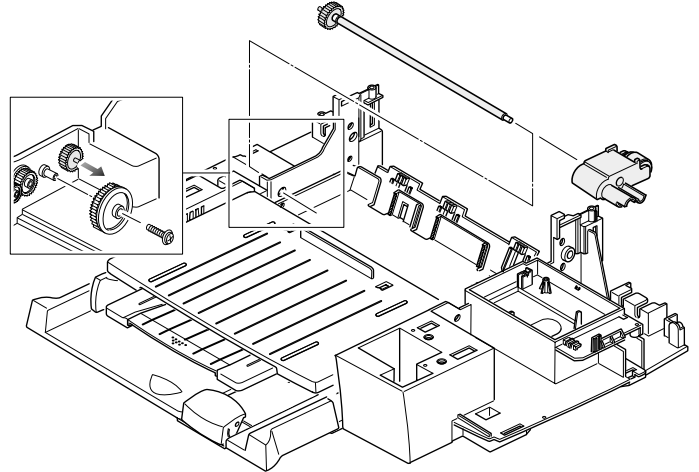
1. Before you disassemble the ASF assembly you should remove:
 - * All covers (See page 3-1, 3-9, 3-10)
 - * Scanner unit (see page 3-2)
 - * Engine unit (See page 3-10)
2. Remove two screws and take out support SMPS from the ASF frame.
3. Unlatch the inner cover by pushing the parts hooked to the ASF frame using a sharp tool, then take out inner cover.



4. Pull the gear out, then remove the drive roller.



5. Remove one screw securing the gear to the main frame and remove the gear. Then take out the pick-up roller.



4. Troubleshooting

4-1 SCANNER

4-1-1 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.
	• Check white/black reference voltage in Main PBA.	• Replace U2 or U12 if it is defective. - U2-1 or U12-78 = 3.2V - U2-7 or U12-79 = 1.9V
	• Check the CIS problem in Main PBA.	• If the CIS is defective, replace it. - CN6-1 is 3.2V when white original copying. - Cn6-1 is 1.4V when idle.
Black copy	• Check turning the CIS LED on when operating.	• Check the CIS harness contact.
	• Check shading profile.	• Remake shading profile in the tech mode.
	• Check white/black reference voltage in Main PBA.	• Replace U2 or U12 if it is defective. - U2-1 or U12-78 = 3.2V - U2-7 or U12-79 = 1.9V
	• Check the CIS problem in Main PBA.	• If the CIS is defective, replace it. - CN6-1 is 3.2V when white original copying. - CN6-1 is 1.4V when idle.
Defective image quality	• Check shading profile.	• Remake shading profile in the tech mode.
	• Check the gap between original and scanner glass.	• The gap above 0.5mm can cause a blurred image.
	• Check printing quality.	• See "Print" troubleshooting.
Abnormal noise	• Check the scanner glass and any mechanical disturbance.	• Check the right position of the scanner glass, and check the any mechanical disturbance in the CIS carrying part.
	• Check the motor driver in Driver PBA.	• If any driver is defective, replace it. - U9-1, 19 or U10-1, 19 = 0V to 30V swing signal when operating.

4-1-2 PC-Scan

PROBLEM	ITEMS TO BE CHECKED	HOW TO SOLVE
Scanning error	• Check the printer cable installed.	• Check correct installation, and use standard IEEE1284 cable.
	• Check how TWAIN driver is installed.	• Remove any other scanner driver. • Reboot after reinstallation of the TWAIN driver.
	• Check harness contact.	• Check CN4 contact in Main PBA, CN1 contact in Driver PBA whether each connection is tight.
	• Check the IEEE1284 signal level.	• If any signal level is defective, replace Driver PBA. - U44-43~51 in Main PBA = 0.8V to 2.4V TTL signal. • Otherwise, replace Main PBA.
Defective image quality	• Check shading profile.	• Remake shading profile in the tech mode.
	• Check the gap between original and scanner glass.	• The gap above 0.5mm can cause a blurred image.
Abnormal noise	• Check the scanner glass and any mechanical disturbance.	• Check the right position of the scanner glass, and check the any mechanical disturbance in the CIS carrying part.
	• Check the motor driver in Driver PBA.	• If any driver is defective, replace it. - U9-1, 19 or U10-1, 19 = 0V to 30V swing signal when operating.

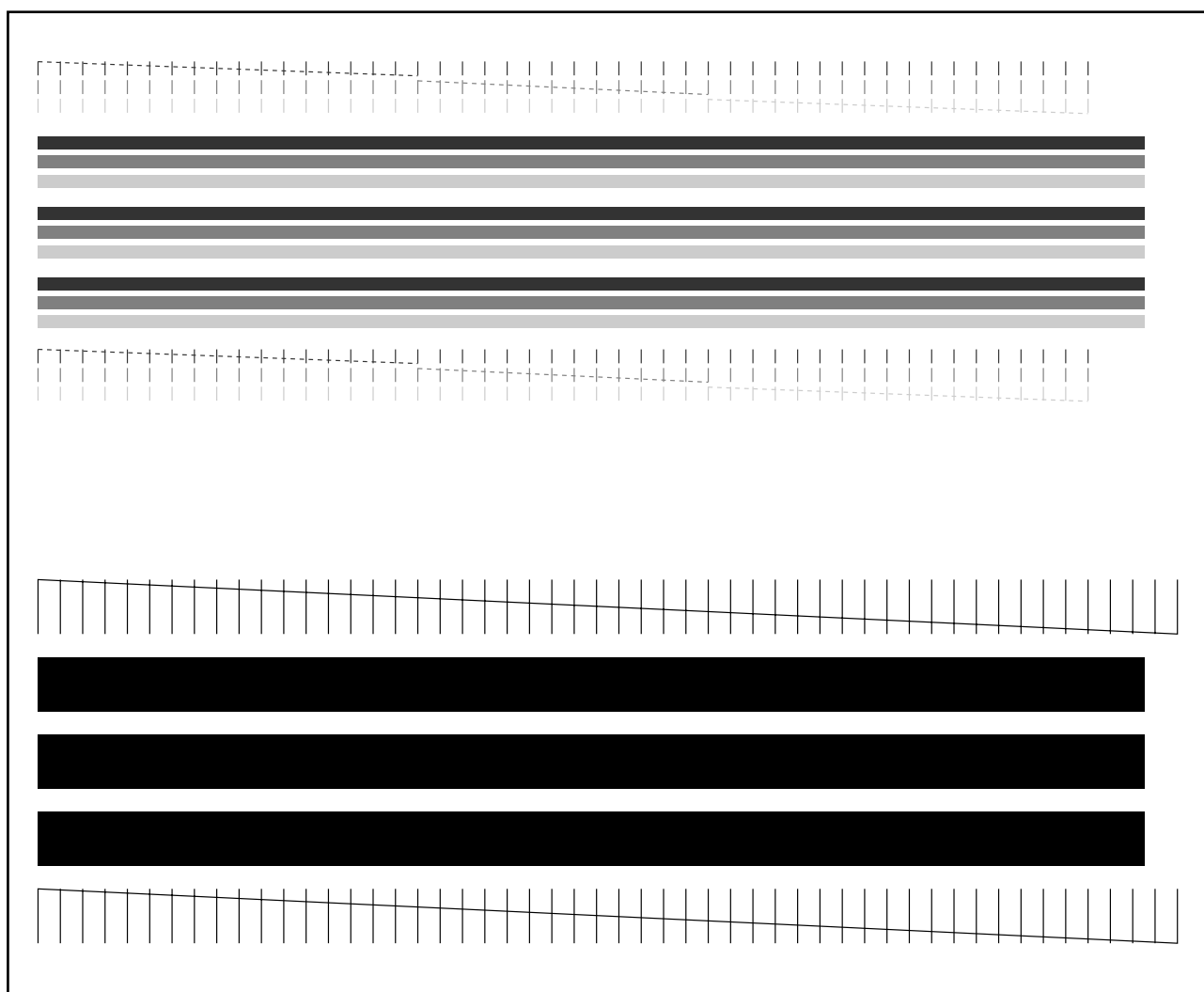
4-2 Printer

4-2-1 White lines on letters or graphics.

- Cause

If nozzles in print head has a problem, white lines are marked on the print.

'CARTRIDGE MAINT' will let you know if nozzles have fallen problems.

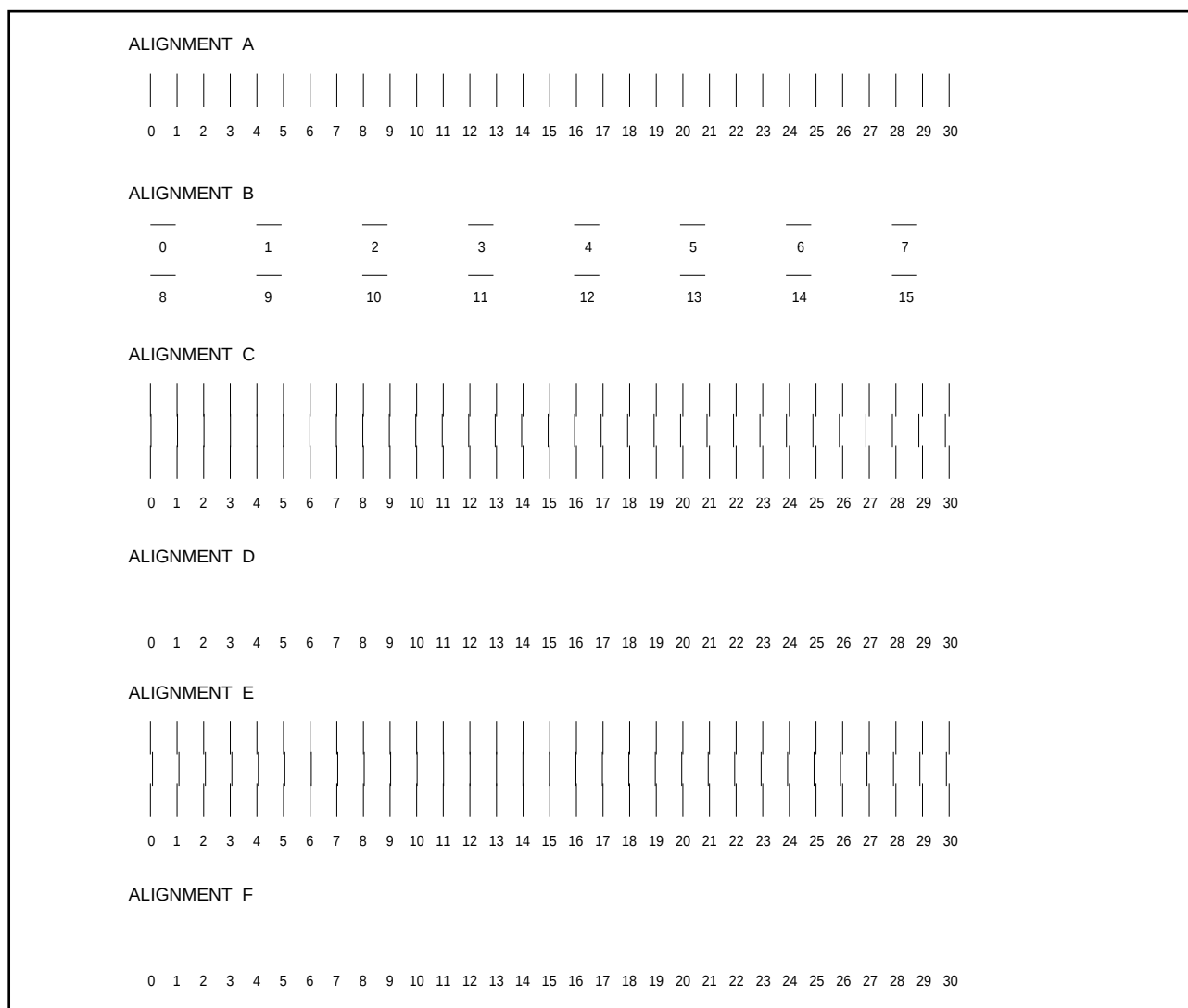


- Solution

- 1) Run print control panel' to "clean print nozzles" and check if nozzles have been blocked.
- 2) Wipe with soft cloth the contact surfaces of ink cartridge and carriage, and check if nozzles have been cleaned properly.
- 3) Separate ink cartridge from carriage and combine them. Repeat it about 5 to 6 times and check if connection is proper.
- 4) Replace ink cartridge and check whether there's a problem with the head.
- 5) Check if head cable is inserted well into the main circuit board and then check if nozzles have problems.
- 6) Check if head cable is broken or torn and then check if nozzles have problems.
- 7) Replace the main circuit board with a new one and check if nozzles have problems.

4-2-2 When Vertical lines are printed crookedly

- Cause : Vertical lines are printed crookedly if you do not “align Vertical lines” on the printer.
- Solution
 - 1) Run print control panel to “align Cartridges”.
 - 2) Select the best one of the above samples and enter the number.
 - 3) This function to align Vertical lines is available both for mono and color cartridges.



4-2-3 When ink spreads on transparent film

- Cause : You selected a wrong medium on the driver or you did not use transparent film designated for inkjet.
- Solution
 - 1) Use only transparent film designated for inkjet when you print on transparent film by an inkjet printer.
 - 2) Run “Windows driver” and select “transparency” as the kind of paper if you print on Windows.

4-2-4 Print Error

PROBLEM	ITEMS TO BE CHECKED	HOW TO SOLVE
Can't Print	• Check the cartridge empty status.	• If there is no cartridge installed, install a cartridge properly. • Make sure that you have installed an authorized cartridge.
	• Check the printer cable installed.	• Check correct installation, and use standard IEEE1284 cable.
	• Check what printer driver is installed.	• Remove the driver. • Reboot after reinstallation of the print driver.
	• Check harness contact.	• Check CN4 contact in Main PBA, CN1 contact in Driver PBA whether each connection is tight.
	• Check the USB harness contact.	• Check CN4 contact in Driver PBA and CN10 contact in Main PBA.
	• Check the IEEE1284 signal level.	• If any signal level is defective, replace Driver PBA. - U44-47~50 in Main PBA = 0.8V to 2.4V TTL signal. • Otherwise, replace Main PBA.
	• Check the USB signal level.	• If and signal level is detective, replace Main PBA.

4-2-5 Paper Feed

PROBLEM	ITEMS TO BE CHECKED	HOW TO SOLVE
ASF feeds paper but paper is not supplied to the engine.	• Check if actuator feed operates perfectly.	• Replace actuator-feed, spring, or other defective parts.
	• Check if paper sensor is normal.	• Replace the paper sensor.
ASF cannot feed paper.	• Check if stopper clutch operates perfectly.	• Replace stopper clutch assembly.
	• Check if too much paper has been supplied.	• Supply appropriate amount of paper(100 sheets of normal copying paper).
	• Check if pickup roller rubber of the ASF is worn out.	• Replace pickup roller rubber.
Can't feed envelopes	• Check the location of the envelope guide of ASF.	• Open the envelope guide when you feed envelopes.
Tilted printing	• Check if paper guide of the ASF is adjusted to the size of paper.	• Adjust paper guide to the size of paper.

* ASF: Automatic Sheet Feeder

4-3 Defective Operation

PROBLEM	ITEMS TO BE CHECKED	HOW TO SOLVE
Operation panel does not operate.	• Check the power switch.	• Check the switch operation. - If the switch on, U12-96 = 5V If the switch is defect, replace it.
	• Check the power supply.	• Check the fuse. If the fuse is defected, replace it with 250V/3A. • Check the output voltage in power alone. - CON1-1 = 5V $\pm 5\%$ - CON1-2 = GND 5V - CON1-3 = 12V $\pm 2\%$ - CON1-4 = GND 12V - CON1-5 = GND 30V - CON1-6 = 30V $\pm 5\%$
	• Check the driver IC defect.	• The following driver ICs defect can cause power down. Remove a IC and check the power on. - U37, U39, U25, and U26 in Main PBA - U2, U3, U4, U9, and U10 in Driver PBA
	• Check the download mode.	• Download the firmware of recent version, and check the system initial.
	• Check the harness contact.	• Check CN10 and CN14 contact in Main PBA whether each connection is tight.
	• Check 7-segment LED.	• Replace the part or OPE PBA.
	• Check the key contacts.	• Check the mechanical defect, and replace the front cover.
	• Otherwise	• Replace the Main PBA.
LF motor does not operate	• Check the harness contact.	• Check CN5 contact in Main PBA, CN2 contact in Driver PBA, and CN5, 8 in Driver PBA whether each connection is tight.
	• Check the control signals of U44-139-144 in Main PBA.	• If these CMOS signals are defective when the other functions normal, replace the Main PBA.
	• Check the motor signals of U2-1, 19 and U3-1, 19 in Driver PBA.	• If these 30V signals are defective when the other functions normal, replace the Driver PBA.
SCAN motor does not operate	• Check the harness contact.	• Check CN5 contact in Main PBA, CN2 contact in Driver PBA, and CN5, 7 in Driver PBA whether each connection in tight.
	• Check the control signals of U12-112-119 in Main PBA.	• If these CMOS signals are defective when the other functions normal, replace the Main PBA.
	• Check the motor signals of U9-1, 19 and U10-1, 19 in Driver PBA.	• If these 30V signals are defective when the other functions normal, replace the Driver PBA.

PROBLEM	ITEMS TO BE CHECKED	HOW TO SOLVE
CR motor does not operate	• Check the harness contact.	• Check CN5 contact in Main PBA, CN2 contact in Driver PBA, and CN5, 6 in Driver PBA whether each connection is tight.
	• Check the control signals of U44-32-34 in Main PBA.	• If these CMOS signals are defective when the other functions normal, replace the Main PBA.
	• Check the motor signals of U4-1, 19 in Driver PBA.	• If these 30V signals are defective when the other functions normal, replace the Driver PBA.
Check paper	• Check the paper jamming.	• Check the real jamming in paper path, and remove it.
	• Check the ASF.	• Check the ASF according the "Paper Feed".
	• Check the sensor output in Main PBA.	• Check 5V of U12-64 when the sensor lever is interrupted, and 0V of U12-64 when the sensor lever is lifted. If the sensor is defected, replace it.
	• Otherwise	• Replace the Main PBA.
Cover open	• Check the sensor output in Main PBA.	• Check 5V of U12-63 when the sensor lever is freely lifted, and 0V of U12-63 when the sensor lever is pressed. If the sensor is defected, replace it.
	• Otherwise	• Replace the Main PBA.

4-4 Service Mode

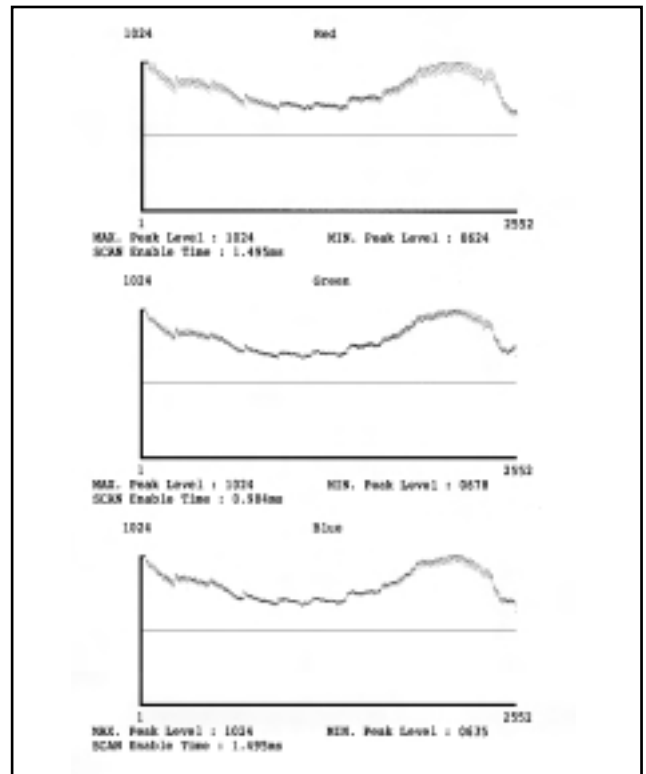
4-4-1 How to enter service mode

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

To enter the service mode, press Enter , Stop , Left , Right , Setup in sequence, and the LCD displays 'TECH', the machine has entered service (Tech) mode.

To return to normal user mode, press UP, QUANTITY, MENU, DOWN in sequence again, or turn the power off, then on by unplugging and plugging the power code.

1. Press the MENU button until 'CIS TEST' is displayed in LCD.
2. Press the START button when the CIS Test operation menu 'CIS TEST' displayed.
3. After scanner calibrating, wave form will be automatically printed out.



4-4-2 CIS test

It is used to adjust the light of CIS. It is already set at CIS Test to get optimum quality.

WARNING!

- Shading profile must be made after Downloading a new Firmware. If not, system will not work properly.
- When you test CIS, make sure that the cover is closed.

All the wave forms should be similar each other. CIS problems may occur, if:

- More than one of the wave forms are straight lines.
- All wave forms are positioned under the center line.

4-4-3 CARTRIDGE

1. In the service mode, press the Setup button until CARTRIDGE is displayed.
2. Press the Start button when the CHANGE CRT operation menu is displayed.

4-4-3-1 Change Cartridge

Allows you to change the cartridge. For information on replacing the cartridge, refer to the User's Guide.

Notes:

- You must install the color cartridge into the left holder, the black (or photo) cartridge into the right holder.
- When you inset a new cartridge, push the cartridge until it snaps in place.
- After replacing the cartridge, you must align the cartridge.

4-4-3-2 Align Cartridge

Allows you to adjust the alignment of the cartridge nozzles. For information on aligning the cartridges, refer to the User's Guide.

Note: If you do not align the cartridge, the characters or lines in the document may be printed crookedly.

4-4-3-3 Clean Cartridge

Allows you to clean the print nozzles on the cartridge. For information on cleaning the cartridges, refer to the User's Guide.

Note: If the print is light or not clear, clean the cartridge two or three times.

4-4-4 NVRAM TEST

1. In the service mode, press the Setup button until NVRAM TEST is displayed.
2. Press the Start button, and the NVRAM test list prints.

4-4-5 Download

1. In the service mode, press the Setup button until DOWNLOAD is displayed.
2. Press the Start button, and the printer goes into the downloading mode.
3. To download the ROM file from the PC connected to the printer using the parallel cable (IEEE 1284), type in the DOS prompt: COPY /b SCX1000S LPT1 (where SCX1000S is the ROM file.)
4. When downloading is successfully completed, the printer returns to the idle mode.

Notes:

- After Download, you must clear the memory.
- To enter the 'Memory clear', power 'off' and 'on' and then press the 'Stop' button until 'memory clearing' is displayed in LCD.

NVRAM DUMP LIST

```

-----
< Device Identification >
  MFG:Xerox
  CMD:LNPAP;
  MODEL:Xerox WorkCenter XK Series
  CLASS:Printer
  DES:Xerox WorkCenter XK Series
  < Dot Count Variables >
    Black Dot Count                : 54766866
    Color Cyan Dot Count            : 84511930
    Color Magenta Dot Count         : 93785085
    Color Yellow Count              : 119673879
    Total Mono Black Dot Count      : 196564829
    Total Color Cyan Dot Count      : 236451581
    Total Color Magenta Dot Count   : 260930077
    Total Color Yellow Dot Count    : 324975620
  < Page Count Variables >
    Total Page Count                : 122
  < Cartridge Types >
    Left Cartridge Type             : Color Standard Capacity
    Right Cartridge Type            : Black Standard Capacity
  < Alignment Variables >
    Horizontal Align Value          : 16
    Vertical Align Value            : 1
    Quick Black Bidi Align Value    : 4
    Quick Color Bidi Align Value    : 12
    Normal Black Bidi Align Value   : 15
    Normal Color Bidi Align Value   : 17
-----

```

Note: After downloading, you must perform the memory clearing process. Turn the printer off, and then turn it on with the Stop button pressed and held down until the printer displays 'memory clearing' on the LCD.

5. Exploded Views and Parts Lists

5-1. Main Assembly

Main Assembly Parts Lists

5-2. Scanner Assembly

Scanner Assembly Parts Lists

5-3. OPE Unit Assembly

OPE Unit Assembly Parts Lists

5-4. Cover Middle Assembly

Cover Middle Assembly Parts Lists

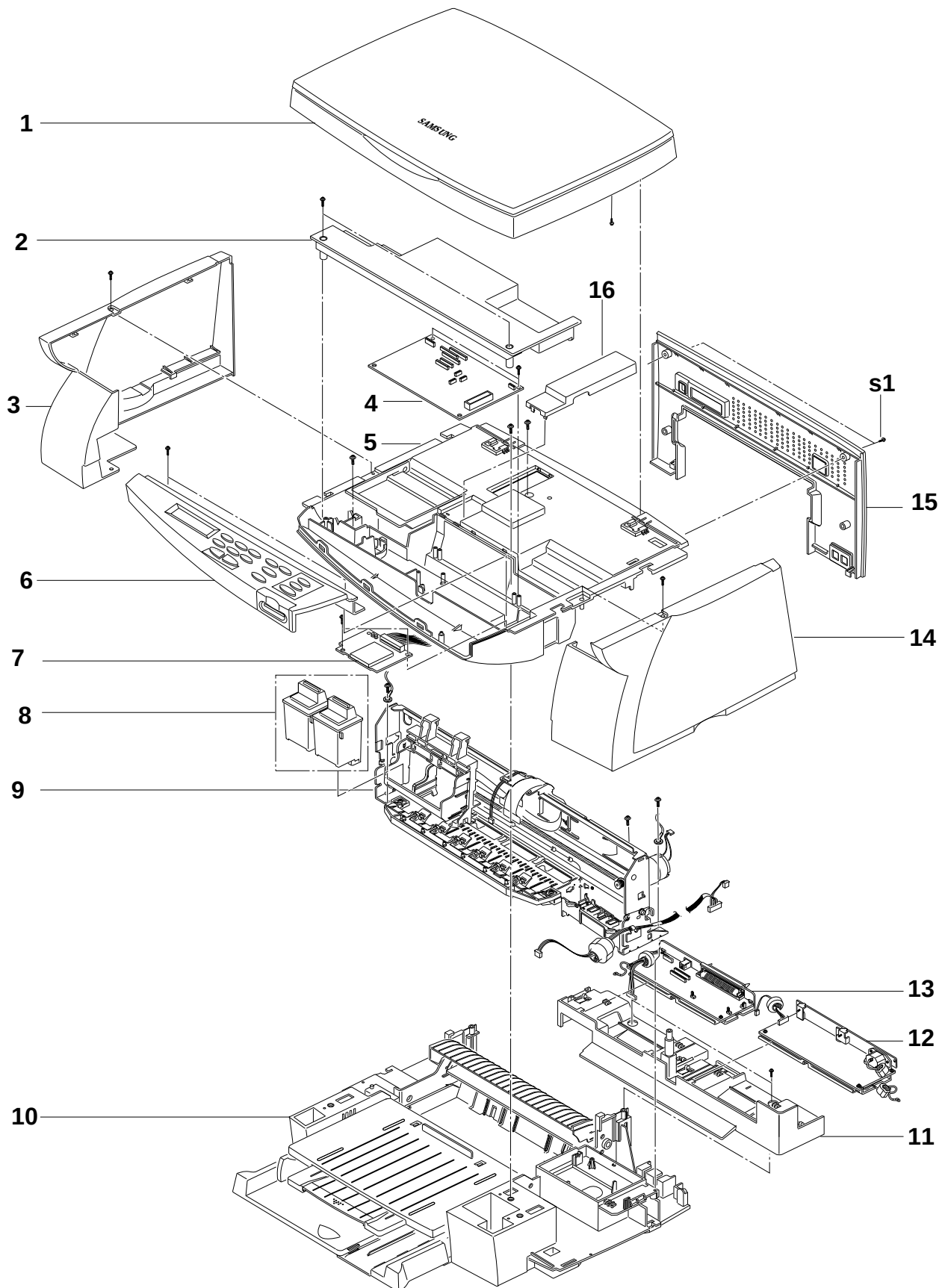
5-5. Engine Assembly

Engine Assembly Parts Lists

5-6. Frame ASF Assembly

Frame ASF Assembly Parts Lists

5-1 Main Exploded View



Main Parts Lists

S.A. : Service Available

Location NO.	Description	SEC CODE	Q'ty	SA	Remark
0	SCX-1000	*	1	X	
0	SCX-1000S	*	1	X	
1	ELA UNIT- SCANNER	JB96-01143A	1	O	
2	PMO-COVER PBA	*	1	X	
3	PMO-COVER SIDE LEFT	*	1	X	
4	PBA MAIN-BOARD	JB92-01136A	1	O	1000
4	PBA-SUB-MAIN	JB92-01107A	1	O	1000S
5	MEC-COVER MIDDLE	*	1	X	
6	ELA UNIT-PANEL OPE	refer to information	1	O	1000
6	ELA UNIT-PANEL OPE	refer to information	1	O	1000S
7	PBA-SUB-SMIB	JB92-01094A	1	O	ONLY 1000S
8	PRINT HEAD MONO BIRCH	*	1	X	
8	PRINT HEAD COLOR BIRCH	*	1	X	
9	ELA UNIT-ENGINE	*	1	X	
10	ELA UNIT-FRAME ASF	*	1	X	
11	PMO-SUPPORTER SMPS	*	1	X	
12	SMPS-FV	JB44-00008A	1	O	
13	ELA UNIT DRIVER	JB96-01147A	1	O	
14	PMO-COVER SIDE RIGHT	*	1	X	
15	PMO-COVER REAR	*	1	X	
16	PMO-COVER HARNESS	*	1	X	
S1	SCREW-TAPPING	6002-000175	18	O	

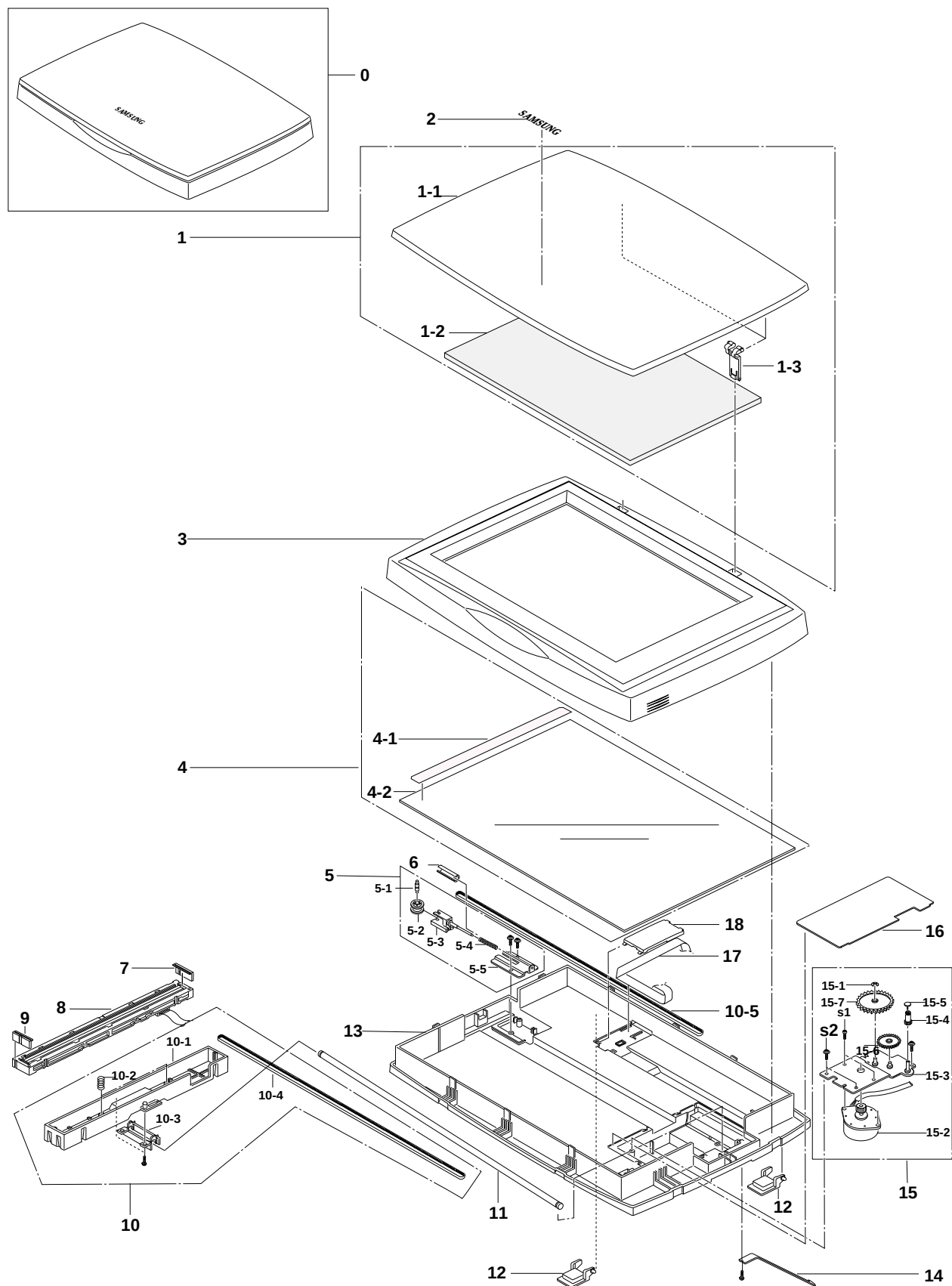
O: Service available

X: Service not available

*Buyer Information

BUYER	ELA UNIT-PANEL OPE
SCX-1000I/XXAA	JB96-01159B
SCX-1000SI/XAA	JB96-01144B
SCX-1000SI/XAC	JB96-01144B
SCX-1000SI/XEN	JB96-01144B
SCX-1000I/XEU	JB96-01159B
SCX-1000SI/XEU	JB96-01144B
SCX-1000SI/XEG	JB96-01144C
SCX-1000I/XIL	JB96-01159D
SCX-1000SI/XIL	JB96-01144D
SCX-1000SI/XET	JB96-01144E

5-2 Scanner Exploded View



Scanner Parts Lists

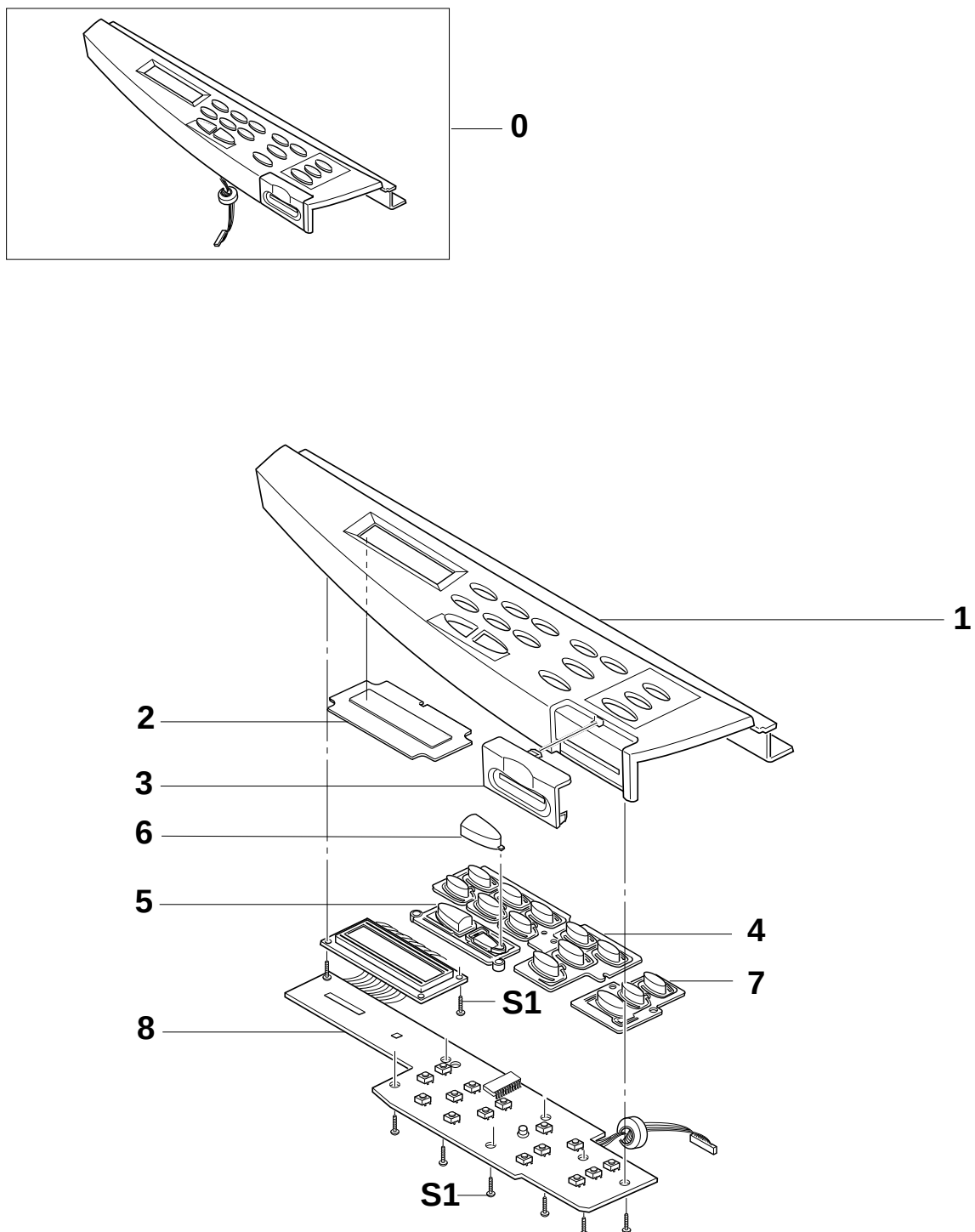
S.A. : Service Available

Location NO.	Description	SEC CODE	Q'ty	SA	Remark
0	ELA UNIT-SCANNER	JB96-01143A	1	O	
1	MEC-COVER PLATEN	*	1	X	
1-1	PMO-COVER PLATEN	*	1	X	
1-2	NPR-SHEET W/SPONGE	*	1	X	
1-3	PMO-PIVOT HINGE UPPER	JB72-00628A	2	O	
2	NPR-BADGE-BRAND	*	1	X	
3	PMO-COVER SCAN UPPER	JB72-00626A	1	O	
4	MEC-OPTICAL GLASS	*	1	X	
4-1	LABEL(P)-SHEET SHADING	*	1	X	
4-2	MCT-GLASS OPTICAL	*	1	X	
5	MEC-IDLE BRKT	JB75-00056A	1	O	
5-1	ICT-SHAFT PULLEY IDLE	*	1	X	
5-2	PMO-PULLEY IDLE	*	1	X	
5-3	PMO-HOLDER PULLEY	*	1	X	
5-4	SPRING-CS	*	1	X	
5-5	IPR-BRACKET IDLE	*	1	X	
6	PMO-STOPPER PULLEY	JB72-00544A	1	O	
7	PMO-SLIDER CWBJ(R)	JB72-00072A	1	O	
8	CONTACT IMAGE SENSOR	0609-001117	1	O	
9	PMO-SLIDER CWBJ(L)	JB72-00071A	1	O	
10	MEA UNIT-CIS CARRIAGE	*	1	X	
10-1	PMO-CARRIAGE CIS	*	1	X	
10-2	SPRING-CS CIS	JB61-00004A	2	O	
10-4	BELT-SCANNER	JB66-00007A	1	O	
10-3	PMO-GUIDE CARRIAGE	*	1	X	
11	ICT-SHAFT CARRIAGE	*	1	X	
12	PMO-PIVOT LOWER	*	2	X	
13	PMO-COVER SCAN LOWER	JB72-00627A	1	O	
14	PMO-TIE STOPPER	*	1	X	
15	MEA UNIT-MOTOR BRACKET	JB97-01212B	1	O	
15-1	RING-E	*	1	X	
15-2	MOTOR-SCAN	JB31-00001B	1	O	
15-3	IPR-BRKT MOTOR	*	1	X	
15-4	PMO-Pulley Timing	*	1	X	
15-5	PMO-Flange Pulley	*	1	X	
15-6	PMO-GEAR IDLE	*	1	X	
15-7	PMO-GEAR REDUCTION	*	1	X	
16	PDR-SHEET SCAN MOTOR	*	1	X	
17	CBF SIGNAL-CIS-MAIN FFC	JB39-00051A	1	O	
18	PMO-CAP FPC	*	1	X	
S1	SCREW-TAPTITE	6003-000269	2	O	
S2	SCREW-TAPPING	6002-000175	6	O	

O: Service available

X: Service not available

5-3 OPE Unit Exploded View



OPE Unit Parts Lists

S.A. : Service Available

Location NO.	Description	SEC CODE	Q'ty	SA	Remark
0	ELA UNIT-PANEL OPE	refer to information	1	O	1000
0	ELA UNIT-PANEL OPE	refer to information	1	O	1000S
1	PMO-PANEL OPE(1000)	*	1	X	1000
1	PMO-PANEL OPE(1000S)	*	1	X	1000S
2	PMO-WINDOW LCD	JB72-00640A	1	O	
3	PMO-COVER SMART MEDIA	JB72-00635A	1	O	ONLY 1000S
4	PMO-KEY FUNCTION	*	1	X	
5	PMO-KEY BLACK	*	1	X	
6	PMO-CAP COLOR	*	1	X	
7	PMO-KEY SMART	*	1	X	ONLY 1000S
8	PBA SUB OPE	JB92-01096A	1	O	1000
8	PBA SUB OPE	JB92-01108A	1	O	1000S
S1	SCREW-TAPPING	6002-000175	9	O	

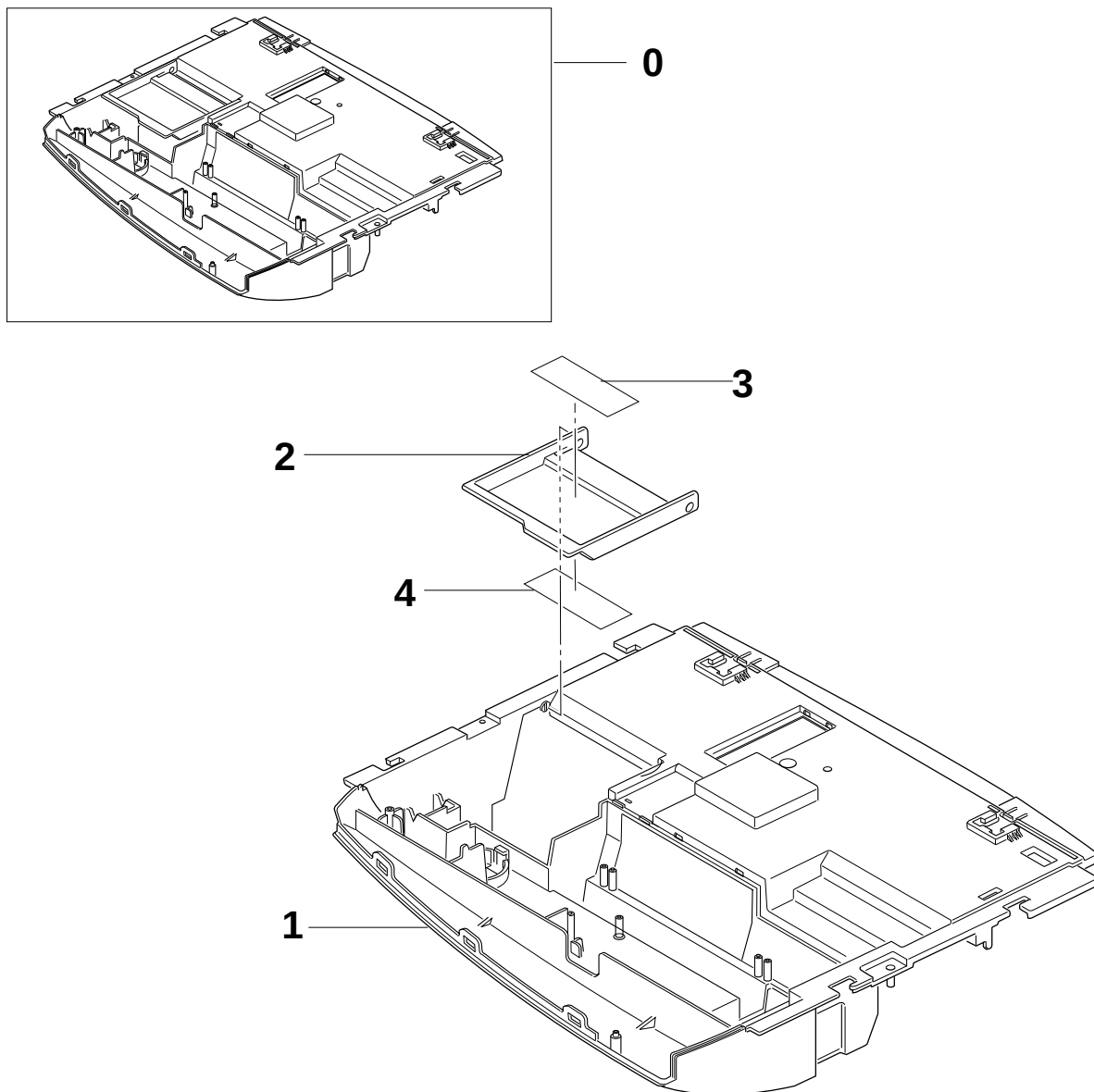
O: Service available

X: Service not available

*Buyer Information

BUYER	ELA UNIT-PANEL OPE
SCX-1000I/XXAA	JB96-01159B
SCX-1000SI/XAA	JB96-01144B
SCX-1000SI/XAC	JB96-01144B
SCX-1000SI/XEN	JB96-01144B
SCX-1000I/XEU	JB96-01159B
SCX-1000SI/XEU	JB96-01144B
SCX-1000SI/XEG	JB96-01144C
SCX-1000I/XIL	JB96-01159D
SCX-1000SI/XIL	JB96-01144D
SCX-1000SI/XET	JB96-01144E

5-4 Cover Middle Exploded View



Cover Middle Parts Lists

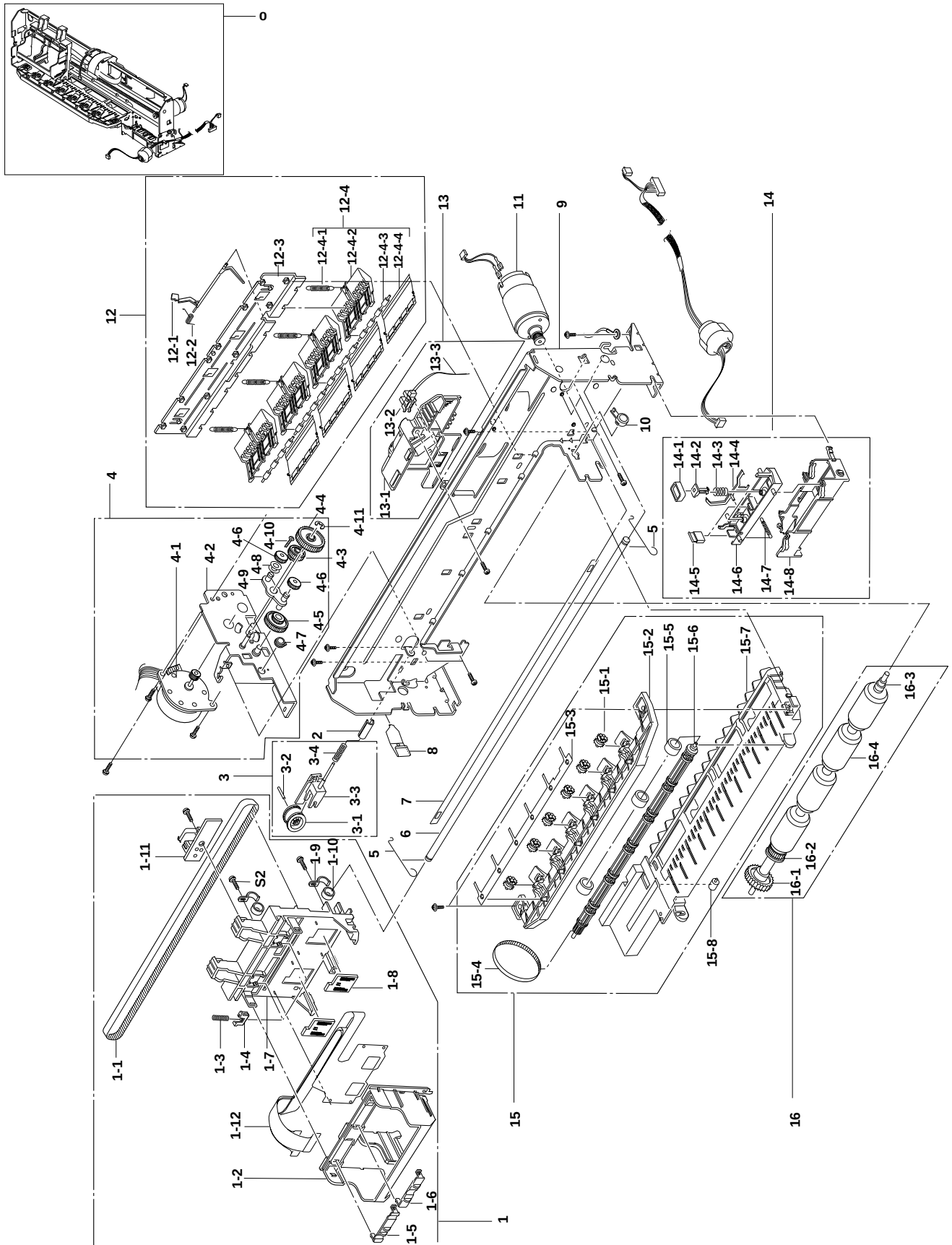
S.A. : Service Available

Location NO.	Description	SEC CODE	Q'ty	SA	Remark
0	MEC-COVER MIDDLE	JB75-00245A	1	O	
1	PMO-COVER MIDDLE	JB72-00617A	1	O	
2	MEC-SUPPORT SCANNER	*	1	X	
3	LABEL (P) -SHEET GUIDE	*	1	X	
4	LABEL (P)- WARNING	*	1	X	

O: Service available

X: Service not available

5-5 Engine Exploded View



Engine Parts Lists

S.A. : Service Available

Location NO.	Description	SEC CODE	Q'ty	SA	Remark
0	ELA UNIT-ENGINE ASS'Y	*	1	X	
1	MEA HOU-CR	JB97-01327B	1	O	
1-1	BELT-CARRIER	*	1	X	
1-2	PMO-CRADDLE HEAD	*	1	X	
1-3	SPRING-LATCH HEAD	*	2	X	
1-4	PMO-LATCH HEAD	*	2	X	
1-5	PMO-KEY HEAD COLOR	*	1	X	
1-6	PMO-KEY HEAD MONO	*	1	X	
1-7	PMO-FRAME CARRIER	*	1	X	
1-8	RPR-RUBBER CONTACT	*	2	X	
1-9	IPR-BEARING CLAMP	*	2	X	
1-10	RPR-RUBBER WIPE HEAD	*	2	X	
1-11	PBA MAIN ENCODER PBA	*	1	X	
1-12	CABLE-FLAT	*	1	X	
2	PMO-STOPPER PULLEY	JB72-41212A	1	O	
3	MEC-PULLEY IDLE	JB75-11110A	1	O	
3-1	PMO-PULLEY IDLE	*	1	X	
3-2	ICT-SHAFT PULLEY IDLE	*	1	X	
3-3	PMO-HOLDER PULLEY	*	1	X	
3-4	SPRING-CS PULLEY	*	1	X	
4	MEC-BRKT (LF MOTOR)	JB75-00183A	1	O	
4-1	MOTOR-STEP LF	JB31-10503A	1	O	
4-2	IPR-BRACKET (LF MOTOR)	*	1	X	
4-3	PMO-CLUTCH ARM PIN	*	1	X	
4-4	GEAR-LF IDLE75	*	1	X	
4-5	GEAR-DOUBLE 5/13(0.4/0.8)	*	1	X	
4-6	GEAR-IDLE SWING12(0.8)	*	2	X	
4-7	BEARING-FEED L	*	1	X	
4-8	IPR-WAVE WASHER	*	2	X	
4-9	PMO-ARM (SWING GEAR WAVE 2X12)	*	1	X	
4-10	PMO-CLUTCH ARM PIN	*	1	X	
4-11	RING-C	*	1	X	
5	SPRING-SHAFT CR	JB61-70913A	2	O	
6	ICT-SHAFT CR	JB70-40906A	1	O	
7	PPR-ENCODER	JB72-00005A	1	O	
8	SPRING-PS ENCODER	*	2	X	
9	IPR-FRAME MAIN	*	1	X	
10	BEARING-FEED R	*	1	X	

O: Service available

X: Service not available

Engine Parts Lists

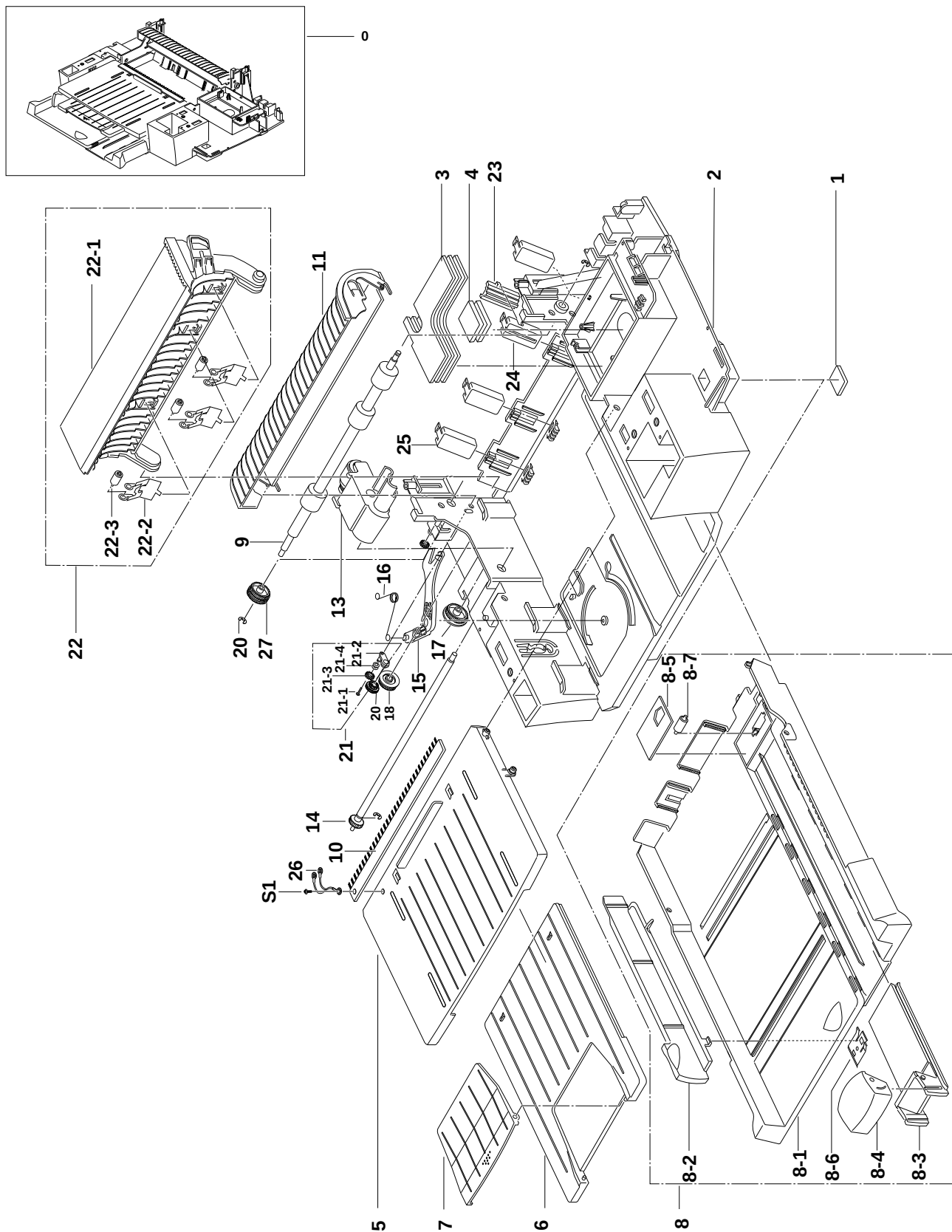
S.A. : Service Available

Location NO.	Description	SEC CODE	Q'ty	SA	Remark
11	ELA UNIT-C/R MOTOR	JB96-01054A	1	O	
12	MEC-HOLDER ROLLER	JB75-00242A	1	O	
12-1	PMO-ACTUATOR FEED	*	1	X	
12-2	SPRING-ES ACTUATOR	*	1	X	
12-3	PMO-HOLDER ROLLER	*	1	X	
12-4	MEC-FRIC ROLLER	JB75-00206A	1	O	
12-4-1	SPRING-ES FRICTION	*	4	X	
12-4-2	PMO-HOLDER-FRICTION	*	4	X	
12-4-3	ICT-FRICTION ROLLER	*	4	X	
12-4-4	IPR-DEFLECTOR	*	4	X	
13	MEC-FPC HOLDER	JB75-00060A	1	O	
13-1	PMO-HOLDER FPC	*	1	X	
13-2	PHOTO-INTERRUPTER	0604-001050	1	O	
13-3	CBF HARNESS-PES	*	1	X	
14	MEC-FRAME HOME	JB75-00174A	1	O	
14-1	RPR-RUBBER CAP HEAD	*	2	X	
14-2	HOLDER CAP	*	2	X	
14-3	SPRING-CS	*	2	X	
14-4	PMO-LEVER LATCH	*	1	X	
14-5	RPR-RUBBER WIPE HEAD	*	1	X	
14-6	PMO-SLED HOME	*	1	X	
14-7	SPRING-ES LATCH	*	1	X	
14-8	PMO-FRAME HOME	*	1	X	
15	MEL-FRAME BASE	JB75-00170A	1	O	
15-1	MEA UNIT-WHEEL STAR	*	6	X	
15-2	PMO-HOLDER WHEEL	*	1	X	
15-3	IPR-SPRING WHEEL	*	1	X	
15-4	BELT-EXIT	*	1	X	
15-5	REX-EXIT ROLLER	*	3	X	
15-6	PMO-ROLLER EXIT	*	1	X	
15-7	PMO-FRAME BASE	*	1	X	
15-8	PMO-ROLLER PINCH	*	1	X	
16	MEC-FEED ROLLER	JB75-00062A	1	O	
16-1	GEAR-ROLLER FEED	*	1	X	
16-2	PMO-PULLEY EXIT	*	1	X	
16-3	ICT-ROLLER FEED	*	1	X	
16-4	RMO-FEED ROLLER	*	1	X	
S2	SCREW-TAPPING	*	2	X	

O: Service available

X: Service not available

5-6 Frame ASF Exploded View



Frame ASF Parts Lists

S.A. : Service Available

Location NO.	Description	SEC CODE	Q'ty	SA	Remark
0	ELA UNIT-FRAME ASF	*	1	X	
1	FOOT	*	2	X	
2	PMO-FRAME ASF	*	1	X	
3	MPR-FELT UPPER	JB74-00014A	1	O	
4	MPR-FELT LOWER	JB74-00015A	1	O	
5	PMO-RX-SACKER MAIN	*	1	X	
6	PMO-SACKER (L)	*	1	X	
7	PMO-SACKER S	JB72-41398C	1	O	
8	MEC-CASSETTE ASF	*	1	X	
8-1	PMO-CASSETTE ASF	*	1	X	
8-2	PMO-GUIDE SIDE	*	1	X	
8-3	PMO-GUIDE EXTENSION	*	1	X	
8-4	PMO-GUIDE EXTENSION DUMMY	*	1	X	
8-5	MPR-PAD FRICTION	*	1	X	
8-6	IPR-GUIDE SIDE (SPRING)	*	2	X	
8-7	PMO-ROLLER IDLE R	*	1	X	
9	MEC-ROLLER DRIVE	JB75-00187A	1	O	
10	MEC ANTISTATIC BRUSH	*	1	X	
11	PMO-GUIDE INNER	*	1	X	
12	E-RING	*	2	X	
13	MEA UNIT-PICKUP ROLLER	JB97-01310A	1	O	
14	PMO-SHAFT PICKUP (PC+GF)	*	1	X	
15	PMO-LEVER CASSETTE	*	1	X	
16	SPRING-LEVER LOCKING	*	1	X	
17	GEAR-IDLE 32	*	1	X	
18	GEAR-IDLER ASF	*	1	X	
19	GEAR-DOUBLE 25/28(0.8)	*	1	X	
20	GEAR-DOUBLE 20/14	*	1	X	

O: Service available

X: Service not available

S.A. : Service Available

Location NO.	Description	SEC CODE	Q'ty	SA	Remark
21	MEC-ARM(SWING 1X12)	*	1	X	
21-1	PMO-CLUTCH ARM PIN	*	1	X	
21-2	PMO-ARM-SWING GEAR 1X12	*	1	X	
21-3	GEAR-IDLE SWING12(0.8)	*	1	X	
21-4	IPR-WASHER WAVE	*	1	X	
22	MEC-GUIDE OUTER	*	1	X	
22-1	PMO-GUIDE OUTER	*	1	X	
22-2	IPR-SPRING PINCH ROLLER(SPRING)	*	3	X	
22-3	PMO-ROLLER PINCH	*	3	X	
23	PMO-BUCKLER FRICTION	*	1	X	
24	PMO-HOUSING-BUCKLER	*	1	X	
25	PMO-GUIDE-PAPER	*	3	X	
26	CBF HARNESS-CONN GND	*	1	X	
S1	SCREW-TAPPING	*	1	X	
S2	SCREW-TAPPING	*	1	X	

O: Service available X: Service not available

MEMO

6. Electrical Parts Lists

6-1 Main PBA(SCX-1000I)

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION
JB92-01136A	MAIN B'D	1	PBA MAIN-BOARD
0401-001003	"D2,D3,D4"	3	DIODE-SWITCHING "MMBD6050LT1,70V,200mA,225mW,4n"
0402-000199	D5	1	DIODE-RECTIFIER "EGL41B,100V,1A,DO-213AB,TP"
0403-000287	ZD1	1	DIODE-ZENER "MMBZ5251B,22V,5%,225mW,SOT-23,"
0404-000112	D1	1	DIODE-SCHOTTKY "RB420D,25V,100mA,SOT-23,TP"
0501-000415	"Q2,Q6"	2	TR-SMALL SIGNAL "KSP56,PNP,625mW,TO-92,-,100"
0501-000457	"Q1,Q3,Q8,Q10,Q12"	5	TR-SMALL SIGNAL "MMBT2222A,NPN,225mW,SOT-23,TP,"
0501-000457	Q13	1	TR-SMALL SIGNAL "MMBT2222A,NPN,225mW,SOT-23,TP,"
0501-000457	"Q7,Q9,Q14"	3	TR-SMALL SIGNAL "MMBT2222A,NPN,225mW,SOT-23,TP,"
0501-000462	"Q4,Q5"	2	TR-SMALL SIGNAL "MMBT2907A,PNP,225mW,SOT-23,TP,"
0503-000129	Q11	1	TR-DARLINGTON "TIP112,NPN,2W,TO-220AB,-,1000"
0801-000945	U12	1	IC-CMOS LOGIC "74HC244,BUFFER/DRIVER,SOP,20P,"
0801-001090	U5	1	IC-CMOS LOGIC "74HC14,SCHMITT INVERTER,SOP,1"
0803-000916	U8	1	IC-TTL "74LS245,TRANSCEIVER,SOP,20P,30"
1003-001137	"U22,U23"	2	IC-SOURCE DRIVER "CD1603,SOP,24P,150MIL,OCTAL,40"
1003-001138	"U24,U25"	2	IC-SOURCE DRIVER "CD1602,SOP,20P,150MIL,SEVEN,10"
1105-001213	U10	1	IC-DRAM "416C1204,1Mx16BIT,SOJ,42P,400M"
1106-000204	U4	1	IC-SRAM "68257,32Kx8BIT,SOJ,28P,300MIL,"
1107-001121	U3	1	IC-FLASH MEMORY "29F800,1Mx8/512Kx16BIT,TSOP,48P,787MIL,70nS,5V,10%, PLASTIC,0to+70C,100uA,CMOS,ST"
1201-000167	U11	1	IC-OP AMP "358,SOP,8P,150MIL,DUAL,100V/mV"
1201-001589	U18	1	IC-OP AMP "15420,SOP,TP,8P,150MIL,DUAL,5.9dB, PLASTIC,14V,400mW,-20to+80C,-,-,15uA,-"
1202-000164	U19	1	IC-VOLTAGE COMP. "393,SOP,8P,150MIL,DUAL,36V,CMO"
1202-000170	"U16,U20"	2	IC-VOLTAGE COMP. "339,SOP,14P,150MIL,QUAD,36V,-,"
1203-000623	U13	1	IC-VOL. DETECTOR "7045,SOT-89,3P,-,PLASTIC,4.3/4"
1203-001037	U26	1	IC-VOLTAGE REGULATOR "78L05,SOT-89,3P,185MIL,PLASTIC"
1404-001157	"P1,P2"	2	THERMISTOR-PTC "2.50HM,5%,-,60VAC,.04A,.2A,TP"
2007-000023	"R47,R133"	2	R-CHIP "120OHM,5%,1/10W,DA,TP,2012"
2007-000026	"R15,R39,R62,R70,R171"	5	R-CHIP "200OHM,5%,1/10W,DA,TP,2012"
2007-000026	"R56,R64,R72"	3	R-CHIP "200OHM,5%,1/10W,DA,TP,2012"
2007-000026	"R7,R31,R3,R149"	4	R-CHIP "200OHM,5%,1/10W,DA,TP,2012"
2007-000026	"R87,R92,R76,R65"	4	R-CHIP "200OHM,5%,1/10W,DA,TP,2012"
2007-000028	"R37,R67,R100,R135,R155"	5	R-CHIP "39OHM,5%,1/10W,DA,TP,2012"
2007-000028	"R44,R53,R59,R138"	4	R-CHIP "39OHM,5%,1/10W,DA,TP,2012"
2007-000029	R14	1	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R169,R170,R175,R196,R197"	5	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R179~R184"	6	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R185~R189"	5	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R190,R191,R192"	3	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000029	R202	1	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R94,R172,R174"	3	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000033	LR2	1	R-CHIP "0OHM,5%,1/8W,DA,TP,3216"
2007-000223	"R41,R50"	2	R-CHIP "1.2KOHM,5%,1/8W,DA,TP,3216"
2007-000238	"R140,R154"	2	R-CHIP "1.5KOHM,1%,1/10W,DA,TP,2012"
2007-000238	"R143,R144"	2	R-CHIP "1.5KOHM,1%,1/10W,DA,TP,2012"
2007-000245	R106	1	R-CHIP "1.5KOHM,5%,1/8W,DA,TP,3216"
2007-000245	R126	1	R-CHIP "1.5KOHM,5%,1/8W,DA,TP,3216"
2007-000279	"R105,R111"	2	R-CHIP "100KOHM,1%,1/8W,DA,TP,3216"
2007-000282	R97	1	R-CHIP "100KOHM,5%,1/10W,DA,TP,2012"
2007-000290	"R102,R113,R117"	3	R-CHIP "100OHM,5%,1/10W,DA,TP,2012"
2007-000290	R108	1	R-CHIP "100OHM,5%,1/10W,DA,TP,2012"
2007-000290	R173	1	R-CHIP "100OHM,5%,1/10W,DA,TP,2012"
2007-000290	"R2,R5,R178,R194"	4	R-CHIP "100OHM,5%,1/10W,DA,TP,2012"
2007-000290	R206	1	R-CHIP "100OHM,5%,1/10W,DA,TP,2012"
2007-000290	R23	1	R-CHIP "100OHM,5%,1/10W,DA,TP,2012"

Main PBA(SCX-1000I)

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION	
2007-000297	R122	1	R-CHIP	"10KOHM,1%,1/10W,DA,TP,2012"
2007-000297	"R96,R134,R136,R137"	4	R-CHIP	"10KOHM,1%,1/10W,DA,TP,2012"
2007-000300	"R12,R13,R83,R127"	4	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R150,R151,R159,R160"	4	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R165,R167"	2	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R204,R205"	2	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R4,R6,R9,R10"	4	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	R81	1	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000303	R116	1	R-CHIP	"10KOHM,5%,1/8W,DA,TP,3216"
2007-000308	R200	1	R-CHIP	"10OHM,5%,1/10W,DA,TP,2012"
2007-000392	"R125,R130"	2	R-CHIP	"150KOHM,1%,1/10W,DA,TP,2012"
2007-000401	R148	1	R-CHIP	"150OHM,5%,1/10W,DA,TP,2012"
2007-000465	"R71,R73,R74,R82"	4	R-CHIP	"1KOHM,1%,1/10W,DA,TP,2012"
2007-000465	R98	1	R-CHIP	"1KOHM,1%,1/10W,DA,TP,2012"
2007-000468	"R101,R158"	2	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R22,R25,R26,R28,R29"	5	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R30,R36,R42,R43,R49"	5	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R46,R77"	2	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R51,R52,R57,R58,R78"	5	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R63,R75"	2	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000474	"R85,R103,R132"	3	R-CHIP	"1MOHM,1%,1/10W,DA,TP,2012"
2007-000542	R145	1	R-CHIP	"200OHM,5%,1/8W,DA,TP,3216"
2007-000686	R201	1	R-CHIP	"3.3KOHM,5%,1/10W,DA,TP,2012"
2007-000705	R123	1	R-CHIP	"3.6KOHM,5%,1/8W,DA,TP,3216"
2007-000766	"R109,R110"	2	R-CHIP	"330OHM,5%,1/10W,DA,TP,2012"
2007-000781	"R152,R153"	2	R-CHIP	"330OHM,5%,1/10W,DA,TP,2012"
2007-000814	R131	1	R-CHIP	"39.2KOHM,1%,1/8W,DA,TP,3216"
2007-000841	"R32,R35"	2	R-CHIP	"3KOHM,1%,1/10W,DA,TP,2012"
2007-000844	"R119,R156"	2	R-CHIP	"3KOHM,5%,1/10W,DA,TP,2012"
2007-000844	"R146,R147"	2	R-CHIP	"3KOHM,5%,1/10W,DA,TP,2012"
2007-000872	"R17,R21,R40,R90,R129"	5	R-CHIP	"4.7KOHM,5%,1/10W,DA,TP,2012"
2007-000941	R104	1	R-CHIP	"47KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R120,R121"	2	R-CHIP	"5.1KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R33,R34,R38,R61,R68"	5	R-CHIP	"5.1KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R45,R54,R55,R60,R107"	5	R-CHIP	"5.1KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R69,R80,R86,R114,R115"	5	R-CHIP	"5.1KOHM,5%,1/10W,DA,TP,2012"
2007-001001	R91	1	R-CHIP	"510OHM,5%,1/10W,DA,TP,2012"
2007-001041	R112	1	R-CHIP	"56KOHM,5%,1/8W,DA,TP,3216"
2007-001041	R118	1	R-CHIP	"56KOHM,5%,1/8W,DA,TP,3216"
2007-001055	R99	1	R-CHIP	"6.2KOHM,5%,1/10W,DA,TP,2012"
2007-001152	R16	1	R-CHIP	"750OHM,1%,1/10W,DA,TP,2012"
2007-001243	R124	1	R-CHIP	"91KOHM,5%,1/10W,DA,TP,2012"
2007-001273	"R141,R142"	2	R-CHIP	"5.23KOHM,1%,1/10W,DA,TP,2012"
2007-007029	R128	1	R-CHIP	"1.33KOHM,1%,1/10W,DA,TP,2012"
2007-007427	"R89,R95"	2	R-CHIP	"294OHM,1%,1/10W,DA,TP,2012"
2011-001093	"RA1,RA2,RA3,RA4,RA5"	5	R-NETWORK	"100ohm,5%,1/16W,L,CHIP,8P,TP"
2011-001093	"RA6,RA7,RA8,RA9"	4	R-NETWORK	"100ohm,5%,1/16W,L,CHIP,8P,TP"
2011-001094	"RA10,RA11,RA12"	3	R-NETWORK	"39ohm,5%,63mW,L,CHIP,8P,TP"
2203-000192	"C104~C108"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C109,C110,C111,C113,C119"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C120,C121,C122"	3	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C14,C15,C17,C18"	4	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C22,C26"	2	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C29,C33,C34"	3	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C3,C4,C5,C6,C7,C143"	6	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C36,C37,C38"	3	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C41,C42,C46,C47,C48"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C49,C50,C57,C58"	4	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C69,C91"	2	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"

Main PBA(SCX-1000I)

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION
2203-000192	"C71,C72"	2	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C79,C83,C85"	3	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C87,C88,C89,C92"	4	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C9,C10,C11"	3	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C94,C96,C98,C101,C103"	5	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"CR145,CR146,CR147,CR148"	4	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000239	"C118,C123,C124,C125,C126"	5	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C127,C130"	2	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C23,C53,C66,C149"	4	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C97,C114,C117,C128,C129"	5	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000260	"C68,C80,C82,L1"	4	"C-CERAMIC,CHIP" "10nF,10%,50V,X7R,TP,2012"
2203-000274	"C176,C177"	2	"C-CERAMIC,CHIP" "0.01nF,0.25pF,50V,NP0,TP,2012"
2203-000274	C67	1	"C-CERAMIC,CHIP" "0.01nF,0.25pF,50V,NP0,TP,2012"
2203-000455	"C54,C60"	2	"C-CERAMIC,CHIP" "1nF,5%,50V,NP0,TP,2012"
2203-000455	"C65,C73"	4	"C-CERAMIC,CHIP" "1nF,5%,50V,NP0,TP,2012"
2203-000476	C186	1	"C-CERAMIC,CHIP" "1000nF,+80-20%,16V,Y5V,TP,2012"
2203-000495	C16	1	"C-CERAMIC,CHIP" "2.2nF,10%,50V,X7R,TP,2012"
2203-000595	"C52,C55"	2	"C-CERAMIC,CHIP" "0.22nF,5%,50V,NP0,TP,2012"
2203-000595	"C61,C81,C84,C112"	4	"C-CERAMIC,CHIP" "0.22nF,5%,50V,NP0,TP,2012"
2203-000634	C187	1	"C-CERAMIC,CHIP" "0.022nF,5%,50V,NP0,TP,2012"
2203-000634	C188	1	"C-CERAMIC,CHIP" "0.022nF,5%,50V,NP0,TP,2012"
2203-000634	C43	1	"C-CERAMIC,CHIP" "0.022nF,5%,50V,NP0,TP,2012"
2203-000634	C51	1	"C-CERAMIC,CHIP" "0.022nF,5%,50V,NP0,TP,2012"
2203-000938	C56	1	"C-CERAMIC,CHIP" "0.47nF,5%,50V,NP0,TP,2012"
2203-001002	"C174,C175"	2	"C-CERAMIC,CHIP" "0.047nF,5%,50V,NP0,TP,2012"
2203-001077	"C86,C100"	2	"C-CERAMIC,CHIP" "0.056nF,5%,50V,NP0,TP,2012"
2203-001223	C189	1	"C-CERAMIC,CHIP" "0.82nF,10%,50V,X7R,TP,2012"
2203-001223	"C74,C99"	2	"C-CERAMIC,CHIP" "0.82nF,10%,50V,X7R,TP,2012"
2401-000172	C93	1	C-AL "1000uF,20%,35V,GP,TP,12.5x20mm"
2402-000130	C70	1	"C-AL,SMD" "2.2uF,20%,50V,GP,TP,4.3x4.3x5."
2402-000139	C134	1	"C-AL,SMD" "22uF,20%,35V,GP,TP,6.6x6.6x5.4"
2402-000168	"C95,C116"	2	"C-AL,SMD" "100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"
2402-000176	"C2,C45,C59,C115"	4	"C-AL,SMD" "10uF,20%,16V,GP,TP,4.3x4.3x5.4"
2402-000179	C102	1	"C-AL,SMD" "47uF,20%,16V,GP,TP,6.6x6.6x5.4"
2703-000266	C142	1	INDUCTOR-SMD "220nH,10%,1.25x2x0.85mm"
2801-001375	Y3	1	CRYSTAL-UNIT "10MHz,20ppm,28-AAA,16pF,45ohm,BK"
2801-003699	Y2	1	CRYSTAL-UNIT "48MHz,50ppm,28-ABM,12pF,80ohm,"
3301-000317	"R162,R163,R164,R8"	4	CORE-FERRITE BEAD "AB,2x1.25x0.9mm,-,-"
3301-000325	"B1,B5,B10"	3	CORE-FERRITE BEAD "AB,3.2x2.5x1.3mm,-,-"
3301-000325	"B2,B7,B8"	3	CORE-FERRITE BEAD "AB,3.2x2.5x1.3mm,-,-"
3708-001058	"CN6,CN8,CN11"	3	CONNECTOR-FPC/FC/PIC "30P,1.0MM,STRAIGHT,SN"
3708-001187	"CN3,CN4"	2	CONNECTOR-FPC/FC/PIC "23P,1mm,STRAIGHT,SN"
3708-001425	CN9	1	CONNECTOR-FPC/FC/PIC "12P,1.25MM,STRAIGHT,SN"
3711-000225	CN5	1	CONNECTOR-HEADER "1WALL,4P,1R,2.5mm,STRAIGHT,SN"
3711-002806	CN2	1	CONNECTOR-HEADER"BOX,5P,1R,2mm,STRAIGHT,SN"
3711-002807	CN10	1	CONNECTOR-HEADER"BOX,6P,1R,2mm,STRAIGHT,SN"
3711-003409	CN7	1	CONNECTOR-HEADER"BOX,3P,1R,2mm,STRAIGHT,SN"
4701-001037	U27	1	FREQ-ATTENUATOR "6to82MHz,8dB,-,0.12W"
JB13-00001A	U6	1	IC-ASIC-IMAGE PROCESSOR"SCX-1010,DUOIP,QFP,160,28X28MM"
JB13-00002A	U21	1	IC ASIC-UNICON "MJC-1300G,UNICON,QFP,44P,-,"
JB13-10508A	U7	1	IC ASIC-CPU "SF-4700,KS32C6400,SMD,160P,-,"
JB41-00051A	PCB	1	PCB-MAIN "SCX-1000S,FR-4,4 LAYER,-,1.6 T,168*110,-,2,-,-"

6-2 Main PBA(SCX-1000SI)

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION	
JB92-01107A			PBA SUB-MAIN	
0401-001003	"D2,D3,D4"	3	DIODE-SWITCHING	"MMBD6050LT1,70V,200mA,225mW,4n"
0402-000199	D5	1	DIODE-RECTIFIER	"EGL41B,100V,1A,DO-213AB,TP"
0403-000287	ZD1	1	DIODE-ZENER	"MMBZ5251B,22V,5%,225mW,SOT-23,"
0404-000112	D1	1	DIODE-SCHOTTKY	"RB420D,25V,100mA,SOT-23,TP"
0501-000415	"Q2,Q6"	2	TR-SMALL SIGNAL	"KSP56,PNP,625mW,TO-92,-,100"
0501-000457	"Q1,Q3,Q8,Q10,Q12"	5	TR-SMALL SIGNAL	"MMBT2222A,NPN,225mW,SOT-23,TP,"
0501-000457	Q13	1	TR-SMALL SIGNAL	"MMBT2222A,NPN,225mW,SOT-23,TP,"
0501-000457	"Q7,Q9,Q14"	3	TR-SMALL SIGNAL	"MMBT2222A,NPN,225mW,SOT-23,TP,"
0501-000462	"Q4,Q5"	2	TR-SMALL SIGNAL	"MMBT2907A,PNP,225mW,SOT-23,TP,"
0503-000129	Q11	1	TR-DARLINGTON	"TIP112,NPN,2W,TO-220AB,-,1000"
0801-000945	U12	1	IC-CMOS LOGIC	"74HC244,BUFFER/DRIVER,SOP,20P,"
0801-001090	U5	1	IC-CMOS LOGIC	"74HC14,SCHMITT INVERTER,SOP,1"
0803-000916	U8	1	IC-TTL	"74LS245,TRANSCEIVER,SOP,20P,30"
1003-001137	"U22,U23"	2	IC-SOURCE DRIVER	"CD1603,SOP,24P,150MIL,OCTAL,40"
1003-001138	"U24,U25"	2	IC-SOURCE DRIVER	"CD1602,SOP,20P,150MIL,SEVEN,10"
1105-001213	U10	1	IC-DRAM	"416C1204,1Mx16BIT,SOJ,42P,400M"
1105-001252	U17	1	IC-DRAM	"416C4104,4MX16BIT,TSOP,50P,400MIL,50NS,5V,10%, PLASTIC,0TO+70C,2MA,CMOS,ST"
1106-000204	"U4,U14"	2	IC-SRAM	"68257,32Kx8BIT,SOJ,28P,300MIL,"
1107-001121	U3	1	IC-FLASH MEMORY	"29F800,1Mx8/512Kx16Bit,TSOP,48P,787MIL, 70nS,5V,10%,PLASTIC,0to+70C,100uA,CMOS,ST"
1201-000167	U11	1	IC-OP AMP	"358,SOP,8P,150MIL,DUAL,100V/mV"
1201-001589	U18	1	IC-OP AMP	"15420,SOP,TP,8P,150MIL,DUAL,5.9dB,PLASTIC, 14V,400mW,-20to+80C,-,-,15uA,-"
1202-000164	U19	1	IC-VOLTAGE COMP.	"393,SOP,8P,150MIL,DUAL,36V,CMO"
1202-000170	"U16,U20"	2	IC-VOLTAGE COMP.	"339,SOP,14P,150MIL,QUAD,36V,-,"
1203-000623	U13	1	IC-VOL. DETECTOR	"7045,SOT-89,3P,-,PLASTIC,4.3/4"
1203-001037	U26	1	IC-VOLTAGE REGULATOR	"78L05,SOT-89,3P,185MIL,PLASTIC"
2007-000023	"R47,R133"	2	R-CHIP	"120OHM,5%,1/10W,DA,TP,2012"
2007-000026	"R3,R7,R31,R48,R65"	5	R-CHIP	"200OHM,5%,1/10W,DA,TP,2012"
2007-000026	"R39,R62,R70,R149"	4	R-CHIP	"200OHM,5%,1/10W,DA,TP,2012"
2007-000026	"R56,R64,R72"	3	R-CHIP	"200OHM,5%,1/10W,DA,TP,2012"
2007-000026	"R76,R87,R92"	3	R-CHIP	"200OHM,5%,1/10W,DA,TP,2012"
2007-000028	"R37,67,100,135,155"	5	R-CHIP	"39OHM,5%,1/10W,DA,TP,2012"
2007-000028	"R44,R53,R59,R138"	4	R-CHIP	"39OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R169~R172,R179"	5	R-CHIP	"0OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R180~R184"	5	R-CHIP	"0OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R185~R189"	5	R-CHIP	"0OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R190~R192,R196,R197"	5	R-CHIP	"0OHM,5%,1/10W,DA,TP,2012"
2007-000029	R94	1	R-CHIP	"0OHM,5%,1/10W,DA,TP,2012"
2007-000033	"R198,R199"	2	R-CHIP	"0OHM,5%,1/8W,DA,TP,3216"
2007-000223	"R41,R50"	2	R-CHIP	"1.2KOHM,5%,1/8W,DA,TP,3216"
2007-000238	"R140,R143,R144,R154"	4	R-CHIP	"1.5KOHM,1%,1/10W,DA,TP,2012"
2007-000245	R106	1	R-CHIP	"1.5KOHM,5%,1/8W,DA,TP,3216"
2007-000245	R126	1	R-CHIP	"1.5KOHM,5%,1/8W,DA,TP,3216"
2007-000279	"R105,R111"	2	R-CHIP	"100KOHM,1%,1/8W,DA,TP,3216"
2007-000282	R97	1	R-CHIP	"100KOHM,5%,1/10W,DA,TP,2012"
2007-000290	"R102,R117"	2	R-CHIP	"100OHM,5%,1/10W,DA,TP,2012"
2007-000290	"R108,R113,R193"	3	R-CHIP	"100OHM,5%,1/10W,DA,TP,2012"
2007-000290	"R173,R177,R178,R194"	4	R-CHIP	"100OHM,5%,1/10W,DA,TP,2012"
2007-000290	"R18,R23,R24,R27"	4	R-CHIP	"100OHM,5%,1/10W,DA,TP,2012"
2007-000290	"R2,R5"	2	R-CHIP	"100OHM,5%,1/10W,DA,TP,2012"
2007-000297	R122	1	R-CHIP	"10KOHM,1%,1/10W,DA,TP,2012"

Main PBA(SCX-1000SI)

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION	
2007-000297	"R96,R134,R136,R137"	4	R-CHIP	"10KOHM,1%,1/10W,DA,TP,2012"
2007-000300	"R13,R83,R127,R150"	4	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R151,R159,R160"	3	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R4,R6,R9,R10,R11,R12"	5	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R81,R165"	2	R-CHIP	"10KOHM,5%,1/10W,DA,TP,2012"
2007-000303	R116	1	R-CHIP	"10KOHM,5%,1/8W,DA,TP,3216"
2007-000392	"R125,R130"	2	R-CHIP	"150KOHM,1%,1/10W,DA,TP,2012"
2007-000401	R148	1	R-CHIP	"150OHM,5%,1/10W,DA,TP,2012"
2007-000465	"R71,R73,R74,R82"	4	R-CHIP	"1KOHM,1%,1/10W,DA,TP,2012"
2007-000465	R98	1	R-CHIP	"1KOHM,1%,1/10W,DA,TP,2012"
2007-000468	"R101,R158"	2	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R22,R25,R26,R28,R29"	5	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R30,R36,R42,R43,R46"	5	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R49,R51,R52,R57,R58"	5	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000468	"R77,R78"	2	R-CHIP	"1KOHM,5%,1/10W,DA,TP,2012"
2007-000474	"R85,R103,R132"	3	R-CHIP	"1MOHM,1%,1/10W,DA,TP,2012"
2007-000542	R145	1	R-CHIP	"200OHM,5%,1/8W,DA,TP,3216"
2007-000703	"R63,R75"	2	R-CHIP	"3.6KOHM,5%,1/10W,DA,TP,2012"
2007-000705	R123	1	R-CHIP	"3.6KOHM,5%,1/8W,DA,TP,3216"
2007-000766	"R15,R109,R110"	3	R-CHIP	"330OHM,5%,1/10W,DA,TP,2012"
2007-000781	"R152,R153"	2	R-CHIP	"33OHM,5%,1/10W,DA,TP,2012"
2007-000814	R131	1	R-CHIP	"39.2KOHM,1%,1/8W,DA,TP,3216"
2007-000841	"R32,R35"	2	R-CHIP	"3KOHM,1%,1/10W,DA,TP,2012"
2007-000844	"R119,R156"	2	R-CHIP	"3KOHM,5%,1/10W,DA,TP,2012"
2007-000844	"R146,R147"	2	R-CHIP	"3KOHM,5%,1/10W,DA,TP,2012"
2007-000872	"R17,21,40,90,129"	5	R-CHIP	"4.7KOHM,5%,1/10W,DA,TP,2012"
2007-000941	R104	1	R-CHIP	"47KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R120,R121"	2	R-CHIP	"5.1KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R33,R34,R38,R61,R68"	5	R-CHIP	"5.1KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R45,R54,R55,R60,R107"	5	R-CHIP	"5.1KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R69,R80,R86,R114,R115"	5	R-CHIP	"5.1KOHM,5%,1/10W,DA,TP,2012"
2007-001001	R91	1	R-CHIP	"510OHM,5%,1/10W,DA,TP,2012"
2007-001041	R112	1	R-CHIP	"56KOHM,5%,1/8W,DA,TP,3216"
2007-001041	R118	1	R-CHIP	"56KOHM,5%,1/8W,DA,TP,3216"
2007-001055	R99	1	R-CHIP	"6.2KOHM,5%,1/10W,DA,TP,2012"
2007-001152	R16	1	R-CHIP	"750OHM,1%,1/10W,DA,TP,2012"
2007-001243	R124	1	R-CHIP	"91KOHM,5%,1/10W,DA,TP,2012"
2007-001273	"R141,R142"	2	R-CHIP	"5.23KOHM,1%,1/10W,DA,TP,2012"
2007-007029	R128	1	R-CHIP	"1.33KOHM,1%,1/10W,DA,TP,2012"
2007-007427	"R89,R95"	2	R-CHIP	"294OHM,1%,1/10W,DA,TP,2012"
2011-001093	"RA1,RA2,RA3,RA4,RA5"	5	R-NETWORK	"100ohm,5%,1/16W,L,CHIP,8P,TP"
2011-001093	"RA6,RA7,RA8,RA9"	4	R-NETWORK	"100ohm,5%,1/16W,L,CHIP,8P,TP"
2011-001094	"RA10,RA11,RA12"	3	R-NETWORK	"39ohm,5%,63mW,L,CHIP,8P,TP"
2203-000192	"C106,C107,C108,C109,C110"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C111,C113,C119,C120,C121"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	C122	1	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C14,C15,C17,C18,C19"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C20,C22,C25,C26,C28"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C29,C32,C33,C34,C35"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C3,C4,C5,C6,C7"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C36,C37,C38,C39,C40"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C41,C42,C46,C47,C48"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C49,C50,C57,C58,C62"	5	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C71,C75,C76"	3	"C-CERAMIC,CHIP"	"100nF,+80-20%,50V,Y5V,TP,2012,"

Main PBA(SCX-1000SI)

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION
2203-000192	"C72,C83,C88"	3	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C77,C78,C79,C85,C87,C143"	6	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C89,C92,C94,C96"	4	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C9,C10,C11"	3	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C98,C101,C103,C104,C105"	5	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000239	"C118,C123,C124,C125,C126"	5	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C127,C130"	2	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C129,C149"	2	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C159,C160,C161,C162,C163"	5	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C164,C165,C166,C167,C168"	5	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C169,C170,C171,C172,C173"	5	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C23,C24"	2	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000239	"C66,C97,C114,C117,C128"	5	"C-CERAMIC,CHIP" "0.1nF,5%,50V,NP0,TP,2012"
2203-000260	"C68,C80,C82"	3	"C-CERAMIC,CHIP" "10nF,10%,50V,X7R,TP,2012"
2203-000260	L1	1	"C-CERAMIC,CHIP" "10nF,10%,50V,X7R,TP,2012"
2203-000274	"C67,C176,C177"	3	"C-CERAMIC,CHIP" "0.01nF,0.25pF,50V,NP0,TP,2012"
2203-000455	"C54,C60"	2	"C-CERAMIC,CHIP" "1nF,5%,50V,NP0,TP,2012"
2203-000455	"C65,C73"	2	"C-CERAMIC,CHIP" "1nF,5%,50V,NP0,TP,2012"
2203-000495	C16	1	"C-CERAMIC,CHIP" "2.2nF,10%,50V,X7R,TP,2012"
2203-000595	"C52,C55,C81,C84"	4	"C-CERAMIC,CHIP" "0.22nF,5%,50V,NP0,TP,2012"
2203-000595	"C61,C112,R167"	3	"C-CERAMIC,CHIP" "0.22nF,5%,50V,NP0,TP,2012"
2203-000634	C43	1	"C-CERAMIC,CHIP" "0.022nF,5%,50V,NP0,TP,2012"
2203-000634	C51	1	"C-CERAMIC,CHIP" "0.022nF,5%,50V,NP0,TP,2012"
2203-000938	C56	1	"C-CERAMIC,CHIP" "0.47nF,5%,50V,NP0,TP,2012"
2203-001002	"C174,C175"	2	"C-CERAMIC,CHIP" "0.047nF,5%,50V,NP0,TP,2012"
2203-001077	"C86,C100"	2	"C-CERAMIC,CHIP" "0.056nF,5%,50V,NP0,TP,2012"
2203-001223	"C74,C99"	2	"C-CERAMIC,CHIP" "0.82nF,10%,50V,X7R,TP,2012"
2401-000172	C93	1	C-AL "1000uF,20%,35V,GP,TP,12.5x20mm"
2402-000130	C70	1	"C-AL,SMD" "2.2uF,20%,50V,GP,TP,4.3x4.3x5."
2402-000139	C134	1	"C-AL,SMD" "22uF,20%,35V,GP,TP,6.6x6.6x5.4"
2402-000168	"C95,C116"	2	"C-AL,SMD" "100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"
2402-000176	"C2,C45,C59,C63,C115"	5	"C-AL,SMD" "10uF,20%,16V,GP,TP,4.3x4.3x5.4"
2402-000179	C102	1	"C-AL,SMD" "47uF,20%,16V,GP,TP,6.6x6.6x5.4"
2703-000266	C142	1	INDUCTOR-SMD "220nH,10%,1.25x2x0.85mm"
2801-003699	Y2	1	CRYSTAL-UNIT "48MHz,50ppm,28-ABM,12pF,80ohm,"
2804-000260	OSC1	1	OSCILLATOR-CLOCK"40MHz,100ppm,10 TTL,BK,5V,30mA"
3301-000317	"R162,R163,R164,R8"	4	CORE-FERRITE BEAD"AB,2x1.25x0.9mm,-,-"
3301-000325	"B1,B4,B5,B6,B10"	5	CORE-FERRITE BEAD"AB,3.2x2.5x1.3mm,-,-"
3301-000325	"B2,B7,B8"	3	CORE-FERRITE BEAD"AB,3.2x2.5x1.3mm,-,-"
3301-001084	"R14,L3"	2	CORE-FERRITE BEAD"AB,2.0x1.25x0.9mm,-,-"
3708-001058	"CN1,CN6,CN8,CN11"	4	CONNECTOR-FPC/FC/PIC"30P,1.0MM,STRAIGHT,SN"
3708-001187	"CN3,CN4"	2	CONNECTOR-FPC/FC/PIC"23P,1mm,STRAIGHT,SN"
3708-001425	CN9	1	CONNECTOR-FPC/FC/PIC"12P,1.25MM,STRAIGHT,SN"
3711-000225	CN5	1	CONNECTOR-HEADER"1WALL,4P,1R,2.5mm,STRAIGHT,SN"
3711-002806	CN2	1	CONNECTOR-HEADER"BOX,5P,1R,2mm,STRAIGHT,SN"
3711-002807	CN10	1	CONNECTOR-HEADER"BOX,6P,1R,2mm,STRAIGHT,SN"
3711-003409	CN7	1	CONNECTOR-HEADER"BOX,3P,1R,2mm,STRAIGHT,SN"
JB13-00001A	U6	1	IC-ASIC-IMAGE PROCESSOR"SCX-1010,DUOIP,QFP,160,28X28MM"
JB13-00002A	U21	1	IC ASIC-UNICON "MJC-1300G,UNICON,QFP,44P,-"
JB13-10506A	U9	1	IC ASIC-CDIP "DUO-JET,CDIP,QFP,100P,-"
JB13-10508A	U7	1	IC ASIC-CPU "SF-4700,KS32C6400,SMD,160P,-"
JB41-00038A		1	PCB- MAIN "SCX-1000,FR-4,4 LAYER,1.6 T,168*110"

6-3 OPE PBA(SCX-1000I)

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION	
JB92-01096A			PBA SUB-OPE	
0401-000116	"D1,D2,D3"	3	DIODE-SWITCHING	"MMSD914T1,100V,200mA,225mW,4nS"
2007-000033	"J1,J2,J3"	3	R-CHIP	"0OHM,5%,1/8W,DA,TP,3216"
2007-000303	R1	1	R-CHIP	"10KOHM,5%,1/8W,DA,TP,3216"
2007-000542	"R10,R15,R16"	3	R-CHIP	"200OHM,5%,1/8W,DA,TP,3216"
2007-000589	"R11~R14,R17"	5	R-CHIP	"22KOHM,5%,1/8W,DA,TP,3216"
2007-000589	"R18,R19,R20,R21"	4	R-CHIP	"22KOHM,5%,1/8W,DA,TP,3216"
2007-000589	"R3,R4,R6,R8,R9"	5	R-CHIP	"22KOHM,5%,1/8W,DA,TP,3216"
2007-001121	R2	1	R-CHIP	"680OHM,5%,1/8W,DA,TP,3216"
2203-000208	"C1,C8,C12"	3	"C-CERAMIC,CHIP"	"100nF,10%,50V,X7R,TP,3216"
2203-000242	"C9,C10,C11"	3	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,3216"
2203-000636	"C2,C3,C4"	3	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,3216"
2203-001005	"C5,C6"	2	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,3216"
2402-000176	C13	1	"C-AL,SMD"	"10uF,20%,16V,GP,TP,4.3x4.3x5.4"
2802-001069	OSC1	1	RESONATOR-CERAMIC	"7.37MHz,0.5%,TP,4.7x4.1x1.7"
3301-000325	L1	1	CORE-FERRITE BEAD	"AB,3.2x2.5x1.3mm,-,-"
3404-001123	"SW1~SW5"	5	SWITCH-TACT	"12V DC,50mA,160gf,6.0x6.0x4.3mm,1"
3404-001123	"SW11,SW12"	2	SWITCH-TACT	"12V DC,50mA,160gf,6.0x6.0x4.3mm,1"
3404-001123	"SW6~SW10"	5	SWITCH-TACT	"12V DC,50mA,160gf,6.0x6.0x4.3mm,1"
JB13-00004A	U1	1	IC ASIC-OPE	"SF-3100,HT48C5,SSOP,48P,16.18X10.67X2.79"
JB39-00059A	CN2	1	CBF HARNESS-OPE-MAIN	"SCX-1000,WIRE,UL,150 mm,BLACK/RED,UL1061 #26"
JB41-00041A		1	PCB-OPE	"SCX-1000,FR-1,1 LAYER,1.6 T,221.2*61.7"
JG07-20001A		1	DISPLAY LCD-	"SF4000,UC-162937-TNAR5-A,BLK/G"
JG39-41019A	CN1	1	CBF HARNESS-LCD	"SF4400,WIRE,UL2878,40mm,GRY,#2"

6-4 OPE PBA(SCX-1000SI)

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION	
JB92-01108A			PBA SUB-OPE	
0401-000116	"D1,D2,D3"	3	DIODE-SWITCHING	"MMSD914T1,100V,200mA,225mW,4nS"
2007-000033	"J1,J2,J3"	3	R-CHIP	"0OHM,5%,1/8W,DA,TP,3216"
2007-000303	R1	1	R-CHIP	"10KOHM,5%,1/8W,DA,TP,3216"
2007-000542	"R10,R15,R16"	3	R-CHIP	"200OHM,5%,1/8W,DA,TP,3216"
2007-000589	"R11~R14,R17"	5	R-CHIP	"22KOHM,5%,1/8W,DA,TP,3216"
2007-000589	"R18,R19,R20,R21"	4	R-CHIP	"22KOHM,5%,1/8W,DA,TP,3216"
2007-000589	"R3,R4,R6,R8,R9"	5	R-CHIP	"22KOHM,5%,1/8W,DA,TP,3216"
2007-001121	R2	1	R-CHIP	"680OHM,5%,1/8W,DA,TP,3216"
2203-000208	"C1,C8,C12"	3	"C-CERAMIC,CHIP"	"100nF,10%,50V,X7R,TP,3216"
2203-000242	"C9,C10,C11"	3	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,3216"
2203-000636	"C2,C3,C4"	3	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,3216"
2203-001005	"C5,C6"	2	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,3216"
2402-000176	C13	1	"C-AL,SMD"	"10uF,20%,16V,GP,TP,4.3x4.3x5.4"
2802-001069	OSC1	1	RESONATOR-CERAMIC	"7.37MHz,0.5%,TP,4.7x4.1x1.7"
3301-000325	L1	1	CORE-FERRITE BEAD	"AB,3.2x2.5x1.3mm,-,-"
3404-001123	"SW1~SW5"	5	SWITCH-TACT	"12V DC,50mA,160gf,6.0x6.0x4.3mm,1"
3404-001123	"SW1~SW15"	5	SWITCH-TACT	"12V DC,50mA,160gf,6.0x6.0x4.3mm,1"
3404-001123	"SW6~SW10"	5	SWITCH-TACT	"12V DC,50mA,160gf,6.0x6.0x4.3mm,1"
JB13-00004A	U1	1	IC ASIC-OPE	"SF-3100,HT48C5,SSOP,48P,16.18X10.67X2.79"
JB39-00059A	CN2	1	CBF HARNESS-OPE-MAIN	"SCX-1000,WIRE,UL,150 mm,BLACK/RED,UL1061 #26"
JB41-00041A		1	PCB-OPE	"SCX-1000,FR-1,1 LAYER,1.6 T,221.2*61.7"
JG07-20001A		1	DISPLAY LCD-	"SF4000,UC-162937-TNAR5-A,BLK/G"
JG39-41019A	CN1	1	CBF HARNESS-LCD	"SF4400,WIRE,UL2878,40mm,GRY,#2"

6-5 DRIVER PBA

SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION
JB92-01095A			PBA SUB-DRIVER
0403-000283	ZD1	1	DIODE-ZENER "MMBZ5234B,6.2V,5%,225mW,SOT-23"
0407-000101	DA2	1	DIODE-ARRAY "DA204K,20V,100mA,C2-3,SOT-23,T"
0501-000457	"Q1,Q2,Q3,Q4"	4	TR-SMALL SIGNAL "MMBT2222A,NPN,225mW,SOT-23,TP,"
1003-001122	"U2,U3,U4,U9,U10"	5	IC-MOTOR DRIVER "TEA3718SFP,SOP,20P,300MIL,SING"
1202-000164	U1	1	IC-VOLTAGE COMP. "393,SOP,8P,150MIL,DUAL,36V,CMO"
2001-000202	"R79,R80"	2	R-CARBON "0.5OHM,5%,1/2W,AA,TP,3.3X9MM"
2007-000028	"R13~R17"	5	R-CHIP "39OHM,5%,1/10W,DA,TP,2012"
2007-000028	"R18,R19,R20"	3	R-CHIP "39OHM,5%,1/10W,DA,TP,2012"
2007-000029	"R69,R99,R100"	3	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000297	R81	1	R-CHIP "10KOHM,1%,1/10W,DA,TP,2012"
2007-000300	"R21~R25"	5	R-CHIP "10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R26,R28,R31"	3	R-CHIP "10KOHM,5%,1/10W,DA,TP,2012"
2007-000303	R98	1	R-CHIP "10KOHM,5%,1/8W,DA,TP,3216"
2007-000355	R30	1	R-CHIP "12KOHM,5%,1/10W,DA,TP,2012"
2007-000465	"R48,R51~R54"	5	R-CHIP "1KOHM,1%,1/10W,DA,TP,2012"
2007-000465	"R55~R58,R60"	5	R-CHIP "1KOHM,1%,1/10W,DA,TP,2012"
2007-000465	"R82,R83,R46"	3	R-CHIP "1KOHM,1%,1/10W,DA,TP,2012"
2007-000468	R47	1	R-CHIP "1KOHM,5%,1/10W,DA,TP,2012"
2007-000964	R27	1	R-CHIP "5.1KOHM,5%,1/10W,DA,TP,2012"
2007-000964	"R40,R41,R42,R43"	4	R-CHIP "5.1KOHM,5%,1/10W,DA,TP,2012"
2007-000998	R78	1	R-CHIP "510OHM,1%,1/10W,DA,TP,2012"
2007-001041	"R64,R67,R84,R85,R29"	5	R-CHIP "56KOHM,5%,1/8W,DA,TP,3216"
2007-001143	"R44,R45"	2	R-CHIP "7.5KOHM,5%,1/4W,DA,TP,3225"
2007-002631	R68	1	R-CHIP "56.2KOHM,1%,1/8W,DA,TP,3216"
2007-007388	R71	1	R-CHIP "0.825ohm,1%,1W,DA,TE,6331"
2007-007664	"R74,R75"	2	R-CHIP "0.604ohm,1%,1W,DA,TP,6331"
2203-000192	"C33,C38,C39,C40,C41"	5	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C42,C43,C55,C56,C57"	5	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	C58	1	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000206	"C2,C5,C63"	3	"C-CERAMIC,CHIP" "100nF,10%,50V,X7R,TP,2012"
2203-000455	"C25,C26"	2	"C-CERAMIC,CHIP" "1nF,5%,50V,NP0,TP,2012"
2203-000455	"C2~C31"	5	"C-CERAMIC,CHIP" "1nF,5%,50V,NP0,TP,2012"
2203-000455	C32	1	"C-CERAMIC,CHIP" "1nF,5%,50V,NP0,TP,2012"
2203-000595	C9	1	"C-CERAMIC,CHIP" "0.22nF,5%,50V,NP0,TP,2012"
2203-000634	"C12,C13"	2	"C-CERAMIC,CHIP" "0.022nF,5%,50V,NP0,TP,2012"
2203-000634	"C18,C53,C54"	3	"C-CERAMIC,CHIP" "0.022nF,5%,50V,NP0,TP,2012"
2203-001223	"C44~C46,C51,C52"	5	"C-CERAMIC,CHIP" "0.82nF,10%,50V,X7R,TP,2012"
2203-001223	"C59,C60,C61,C62"	4	"C-CERAMIC,CHIP" "0.82nF,10%,50V,X7R,TP,2012"
2401-000480	C66	1	C-AL "10uF,20%,50V,GP,TP,5x11,5"
2401-001946	C1	1	C-AL "330uF,20%,50V,GP,TP,10x16,5mm"
2402-000179	C64	1	"C-AL,SMD" "47uF,20%,16V,GP,TP,6.6x6.6x5.4"
3301-000317	"B1,B2"	2	CORE-FERRITE BEAD"AB,2x1.25x0.9mm,-,-"
3301-000325	"L1,L2,L4,L5,L8"	5	CORE-FERRITE BEAD"AB,3.2x2.5x1.3mm,-,-"
3702-000118	CN3	1	CONNECTOR-RIBBON"36P,FEMALE,ANGLE,AU"
3708-001187	"CN1,CN2"	2	CONNECTOR-FPC/FC/PIC"23P,1mm,STRAIGHT,SN"
3711-000164	CN5	1	CONNECTOR-HEADER"1WALL,2P,1R,2.5mm,STRAIGHT,SN"
3711-000198	CN6	1	CONNECTOR-HEADER"1WALL,3P,1R,2.5mm,STRAIGHT,SN"
3711-000225	"CN7,CN8"	2	CONNECTOR-HEADER"1WALL,4P,1R,2.5mm,STRAIGHT,SN"
3711-002807	CN9	1	CONNECTOR-HEADER"BOX,6P,1R,2mm,STRAIGHT,SN"
3722-001101	CN4	1	JACK-USB "4P/2C,8.38mm,AU,IVR,#22-28"
JB41-00040A		1	PCB- DRIVER "SCX-1000,FR-4,2 LAYER,1.6 T,150* 57"

6-6 SMIB PBA(ONLY 1000SI)

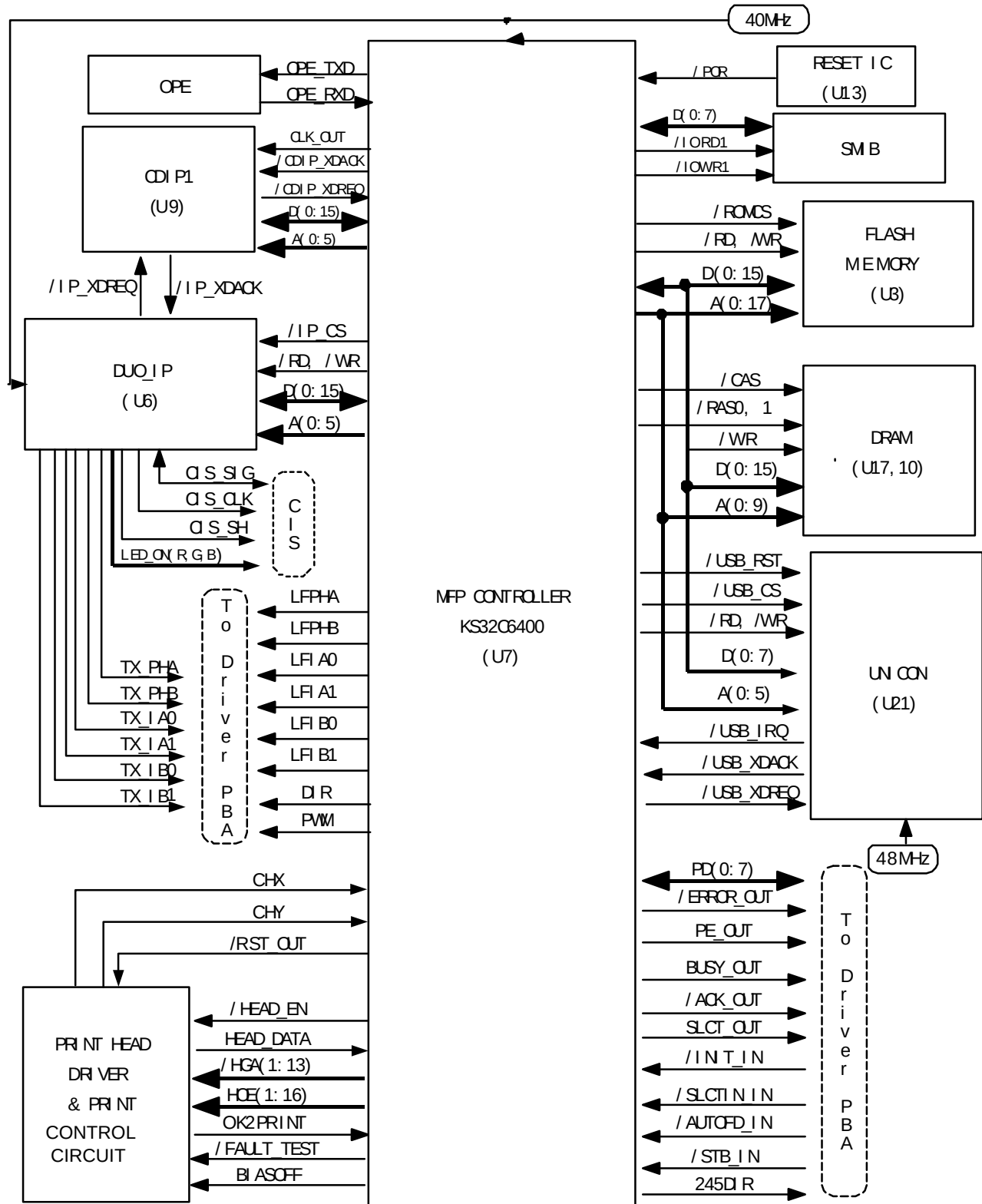
SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION
JB92-01094A			PBA SUB-SMIB
0407-000101	"D1,D2"	2	DIODE-ARRAY "DA204K,20V,100mA,C2-3,SOT-23,T"
0501-000338	"Q1,Q2,Q3"	3	TR-SMALL SIGNAL "2SC2812,NPN,200mW,SOT-23,TP,20"
0801-002143	U5	1	IC-CMOS LOGIC "7S32,OR GATE,SOT-25,5P,63MIL,S"
0801-002449	"U3,U4"	2	IC-CMOS LOGIC "74LVX4245,BUS TRANSCEIVER,TSSOP,24P,173MIL ,OCTAL,TP,PLASTIC,3-STATE,-,5.5V,-40TO"
1203-001026	U1	1	IC-POSI.FIXED REG. "33269,DPAK,3P,265MIL ,PLASTIC,3.37/3.33V,-,40TO+150C,800MA,-,ST"
2007-000029	R14	1	R-CHIP "0OHM,5%,1/10W,DA,TP,2012"
2007-000300	"R1,R2,R5,R6,R7"	5	R-CHIP "10KOHM,5%,1/10W,DA,TP,2012"
2007-000300	"R8,R9,R10,R11,R12"	5	R-CHIP "10KOHM,5%,1/10W,DA,TP,2012"
2007-000468	R13	1	R-CHIP "1KOHM,5%,1/10W,DA,TP,2012"
2203-000192	"C1,C3,C4,C5"	4	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2203-000192	"C13,C14,C15,C16"	4	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
2402-000176	"C2,C6"	2	"C-AL,SMD" "10uF,20%,16V,GP,TP,4.3x4.3x5.4"
3708-001415	CN1	1	CONNECTOR-FPC/FC/PIC"30P,1MM,SMD-A,SN"
3709-001143	CN2	1	CONNECTOR-CARD EDGE"24P,1.1mm,SMD-A,AUF"
JB41-00039A		1	PCB- SMIB "SCX-1000,FR-4,2 LAYER,1.6 T,63*76"

6-7 OTHERS PBA

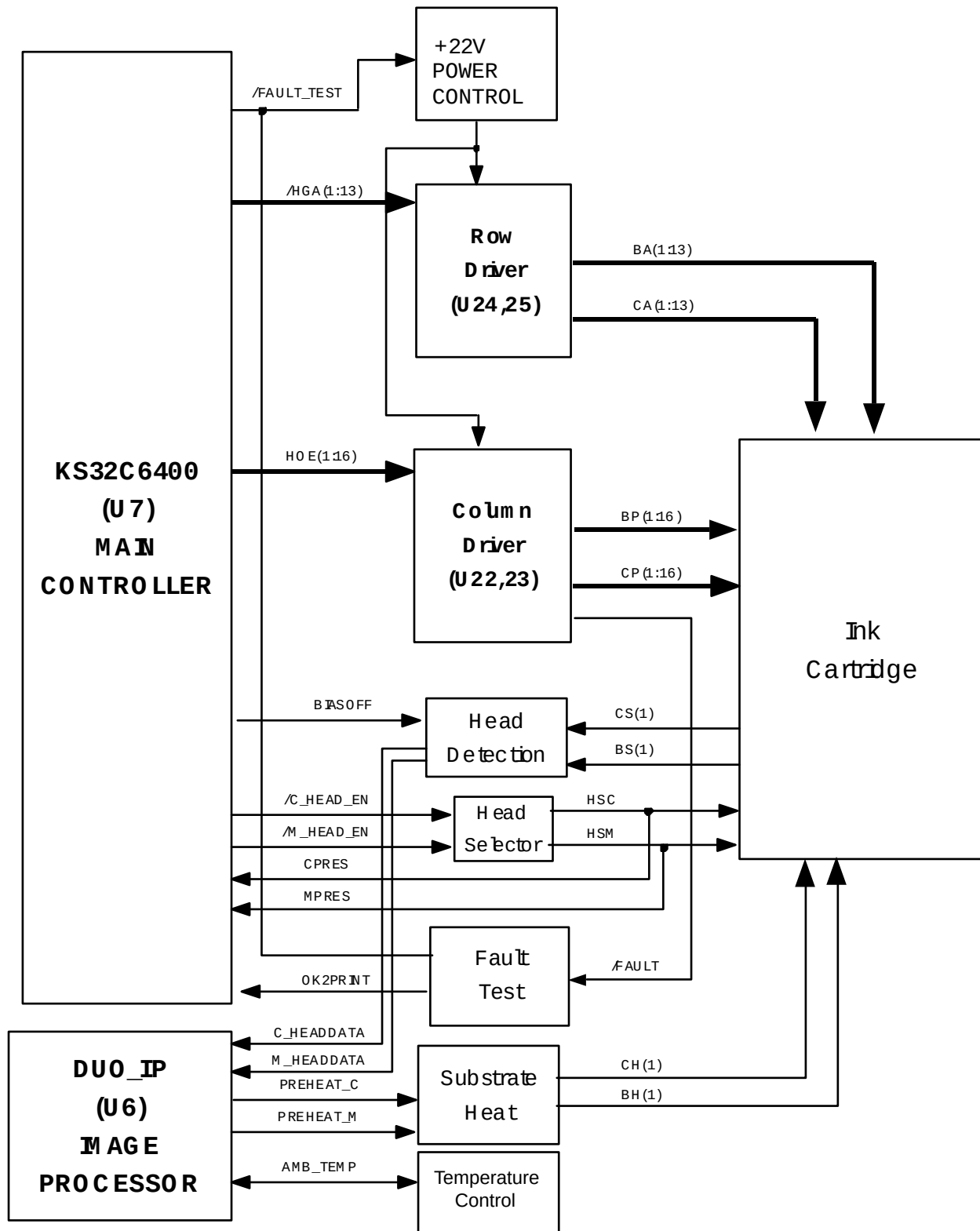
SEC CODE	LOCATION NO.	Q'ty	DESCRIPTION
JB92-01113A		1	PBA SUB-CONN PBA
2202-000654	C167	1	"C-CERAMIC,MLC-RADIAL""100nF,10%,50V,X7R,TP,5.1x6.6x3.2mm,5"
2401-000042	C85	1	C-AL "100uF,20%,16V,GP,TP,6.3x7,5"
3702-000118	CN2	1	CONNECTOR-RIBBON "36P,FEMALE,ANGLE,AU"
3711-002003	CN1	1	CONNECTOR-HEADER"BOX,26P,2R,2mm,STRAIGHT,SN"
JB41-10529A		1	PCB-CONN(COMPAQ) "SF-4700,FR-4,2L,1.6mm,70*128"
JB92-01088A		1	PBA MAIN-ENCODER PBA
2203-000192	C5	1	"C-CERAMIC,CHIP" "100nF,+80-20%,50V,Y5V,TP,2012,"
3708-001198	CN1	1	CONNECTOR-FPC/FC/PIC"6P,1mm,ANGLE,SN"
JB32-90001A	U6	1	SENSOR "MUNICH,QEDS9871-P51"
JB41-10526A		1	PCB-SENSOR "MJC-1300G,FR-4,2L,T1.6mm,43.5X"

7. Block Diagrams

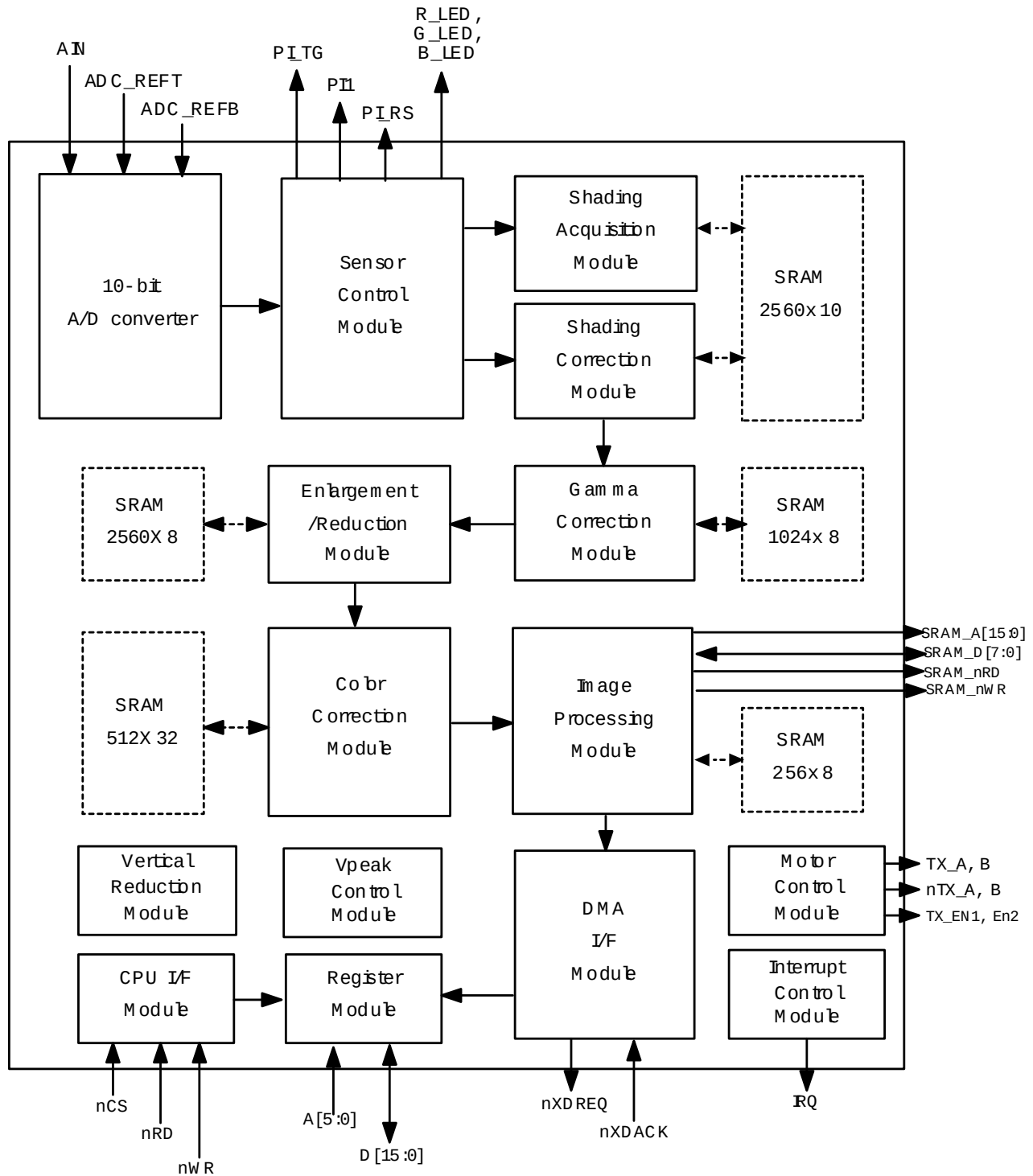
7-1 MAIN PART INTERFACE SIGNALS



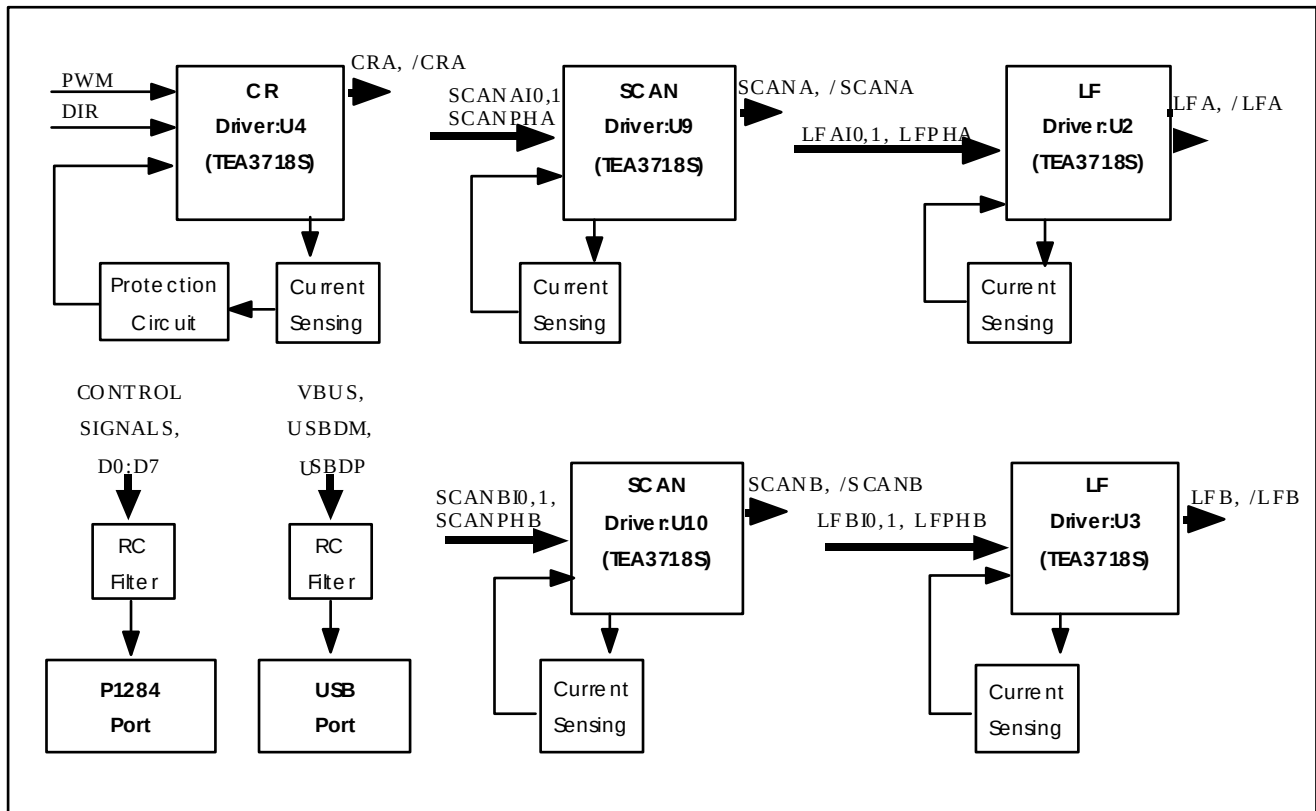
7-2 PRINTER PART BLOCK DIAGRAM



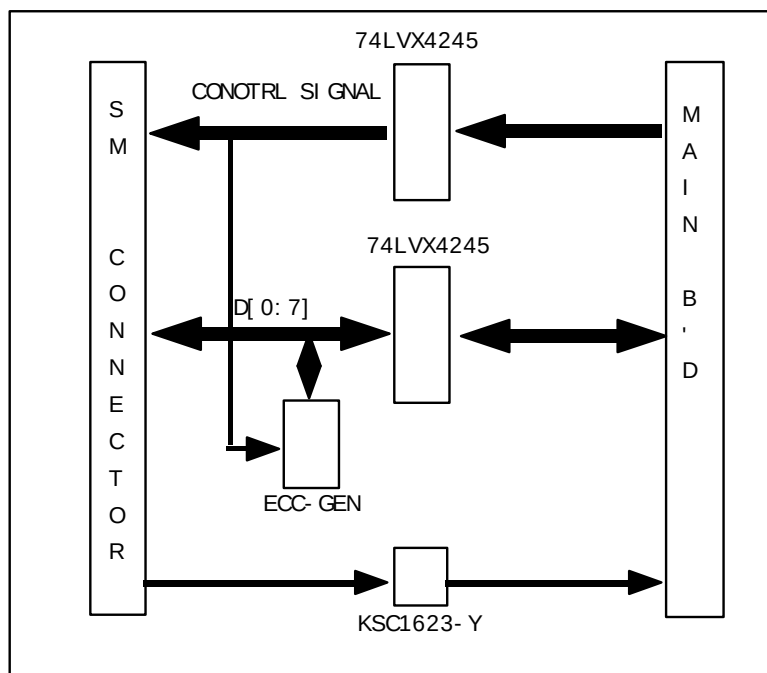
7-3 DUO-IP BLOCK DIAGRAM



7-4 DRIVER PBA BLOCK DIAGRAM

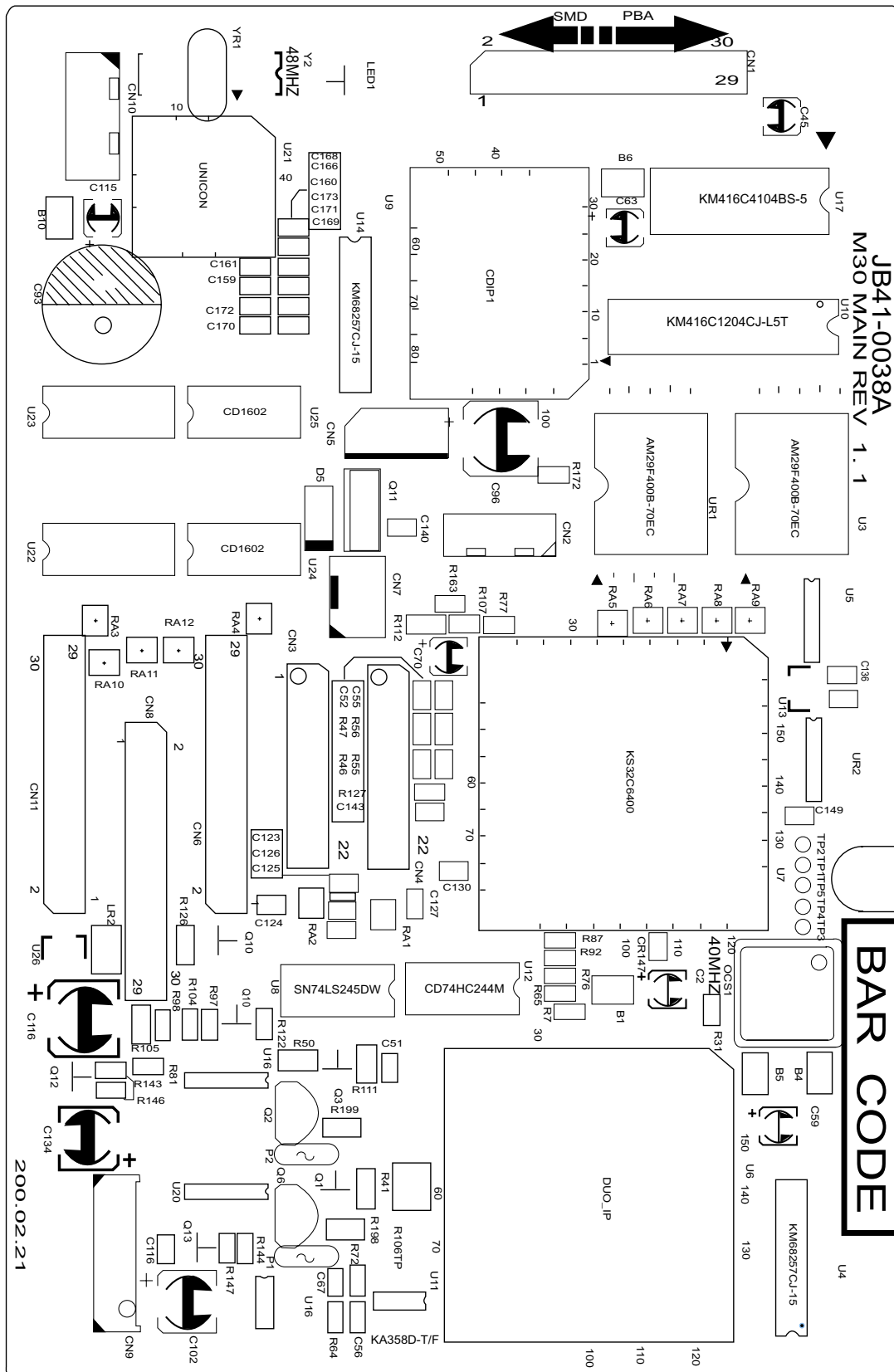


7-5 SMIB PBA BLOCK DIAGRAM



8.PCB Diagrams

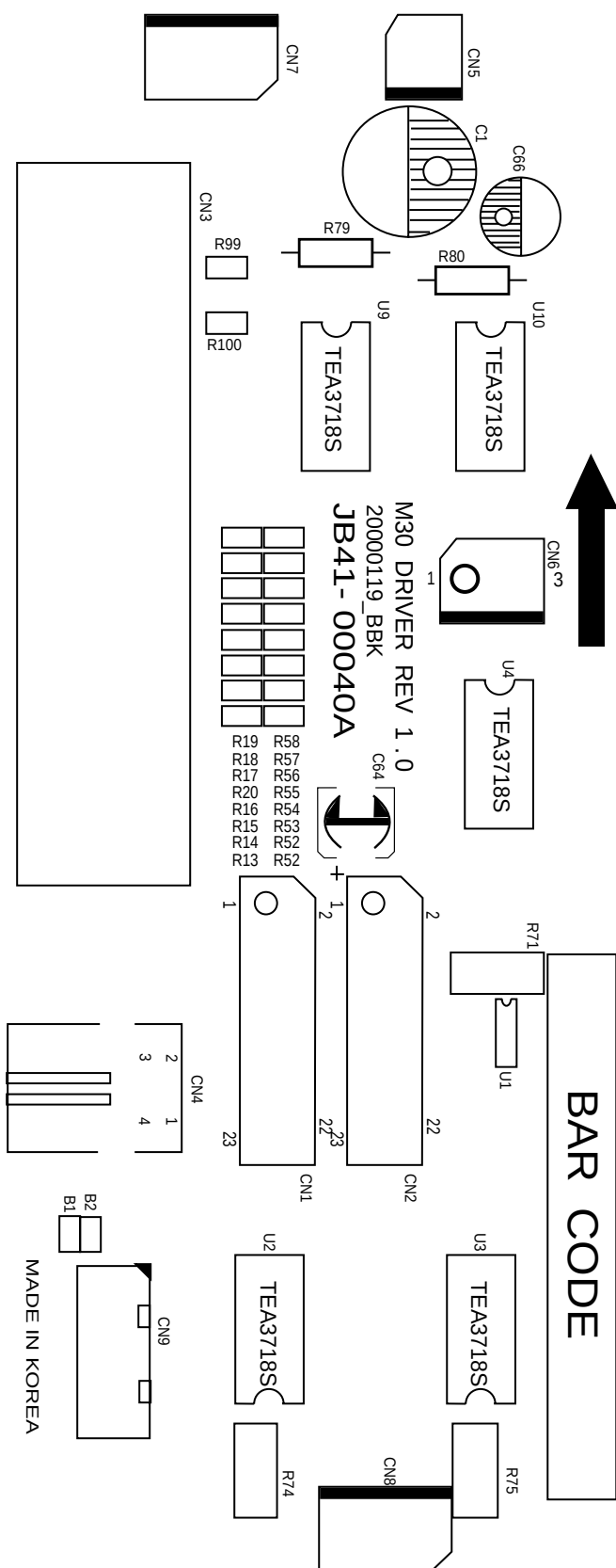
8-1 Main PCB Diagram(Top)



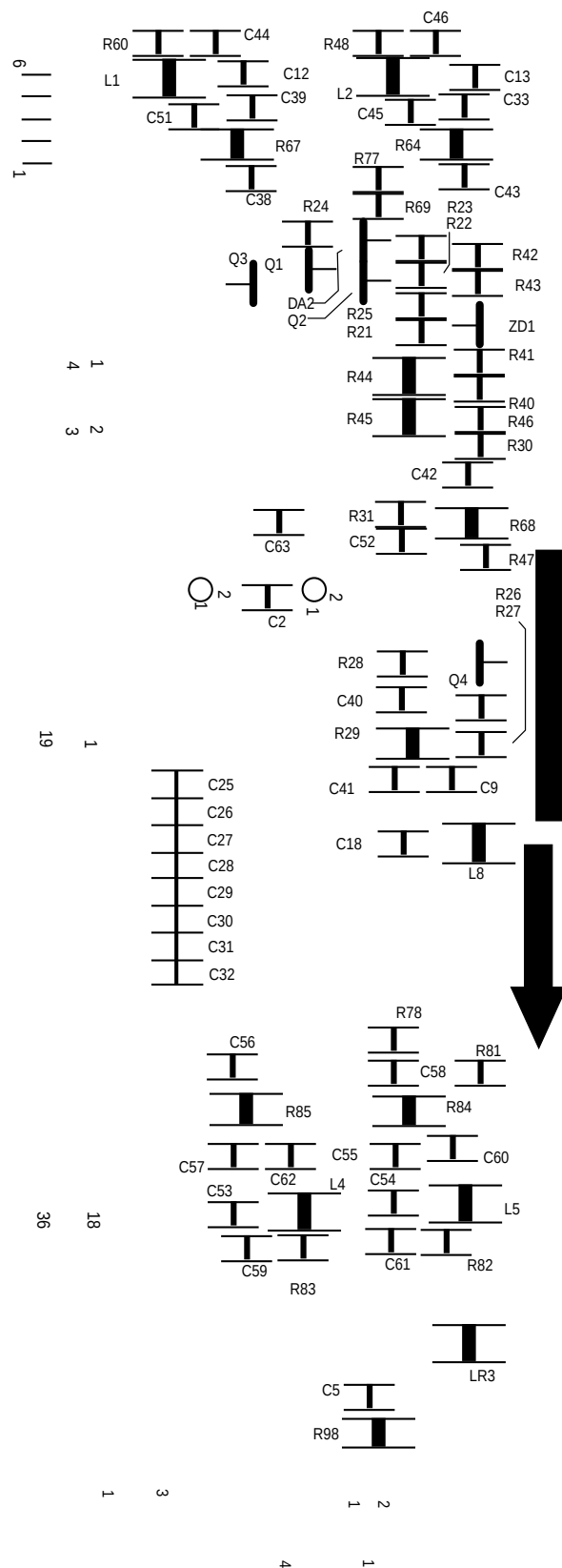
8-2 Main PCB Diagram(Bottom)



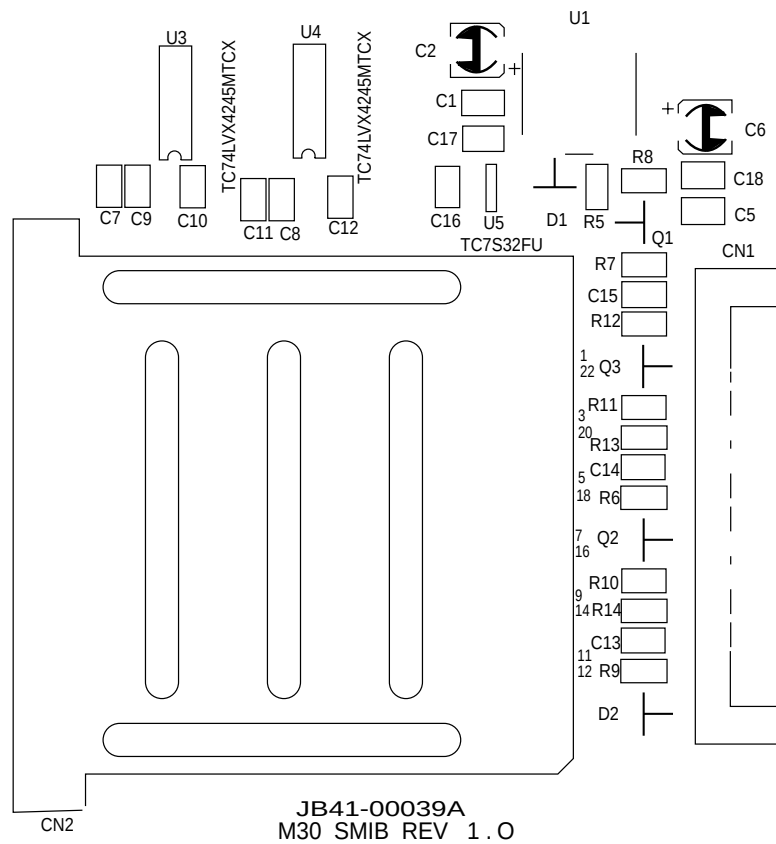
8-3 Driver PCB Diagram(Top)



8-4 Driver PCB Diagram(Bottom)



8-5 SMIB PCB Diagram(Only SCX-1000S)



8-6 OPE PCB Diagram

