

3. Disassembly and Reassembly

3.1 General Precautions on Disassembly

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

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

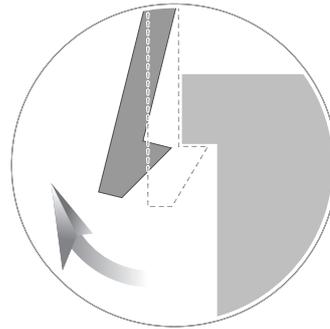
Whenever servicing the machine, you must perform as follows:

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

Releasing Plastic Latches

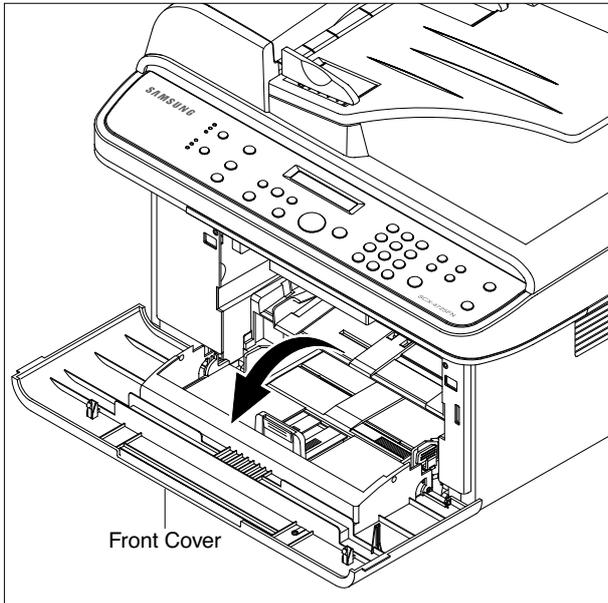
Many of the parts are held in place with plastic latches. The latches break easily; release them carefully.

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

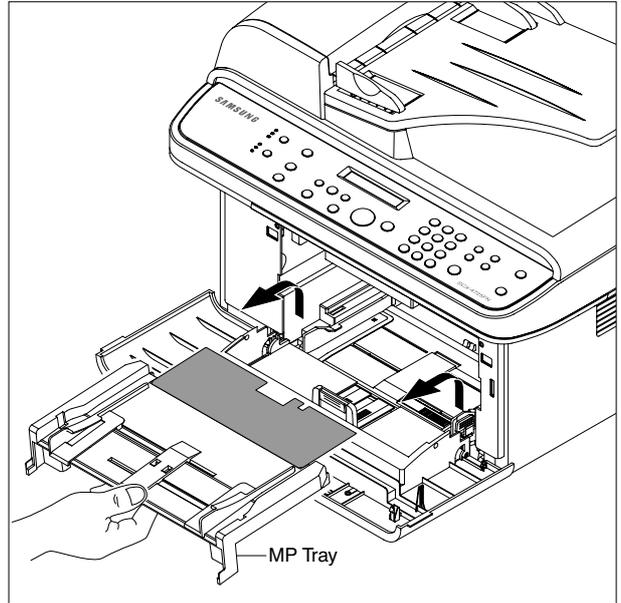


3.2 MP Tray

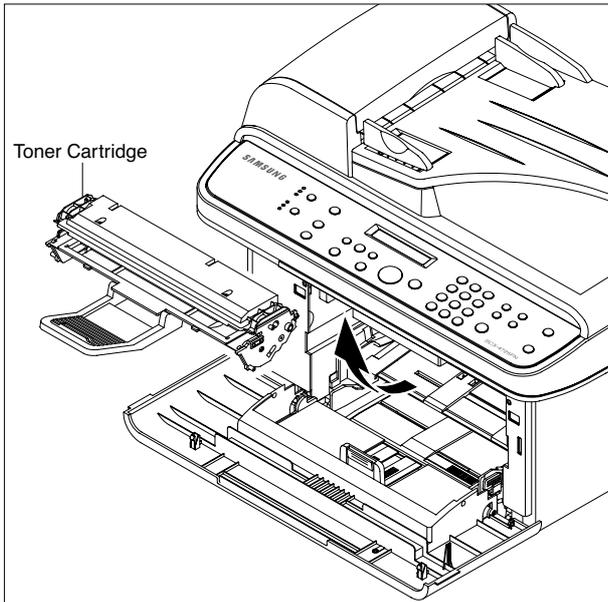
1. Open the Front Cover.



3. Hold the MP Tray and pull it to the arrow direction.



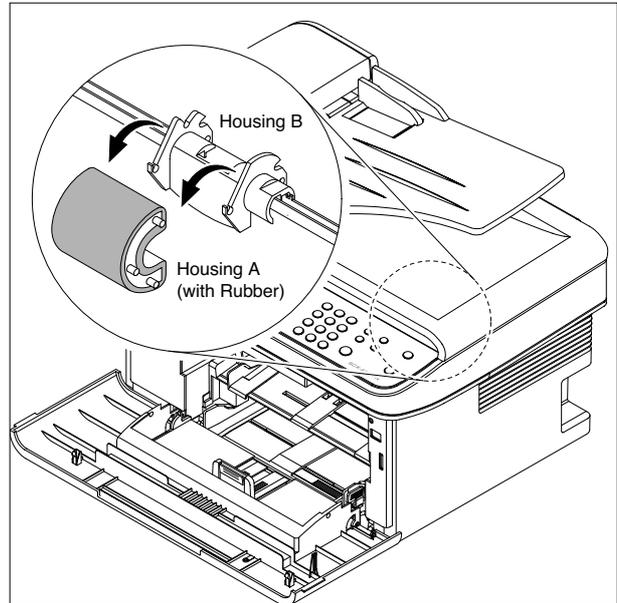
2. Release the Toner Cartridge.



3.3 Pick Up Roller

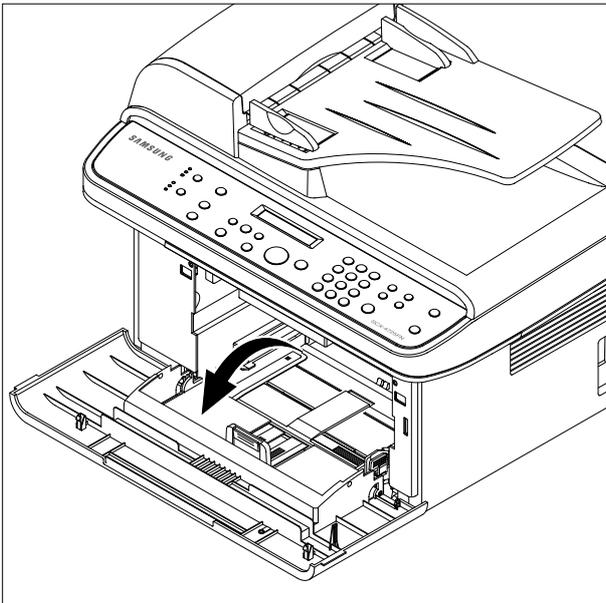
1. Before you remove the Pick Up Roller, you should remove:
 - MP Tray (Refer to the 3.2)

2. When if only remove the Pick Up Rubber, first pull the Pick Up Housing A (with Rubber) from the Housing B in the direction of arrow and then release the Pick Up Rubber from the Housing A, as shown below.

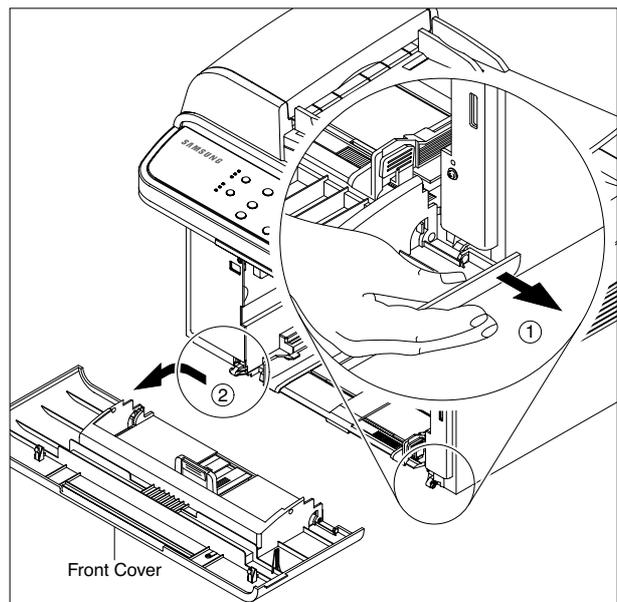


3.4 Front Cover

1. Open the Front Cover.

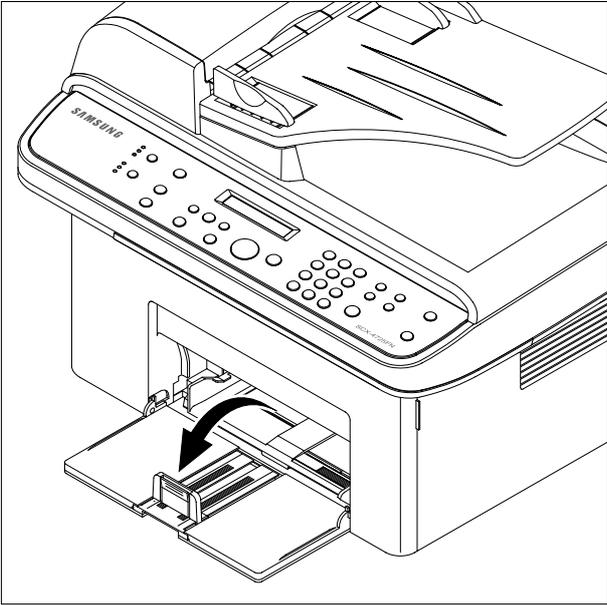


2. To remove the Front Cover, first pull the part below the right side of the Front Cover with a light pressure to the direction of arrow(left).

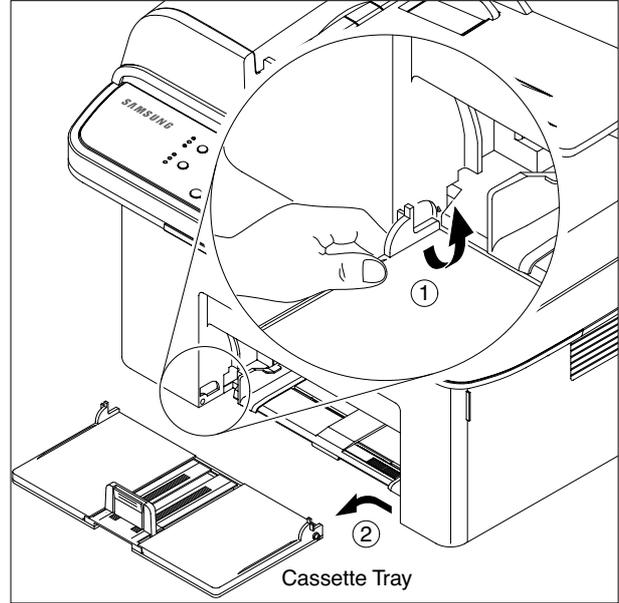


3.5 Cassette Tray

1. Open the Cassette Tray.

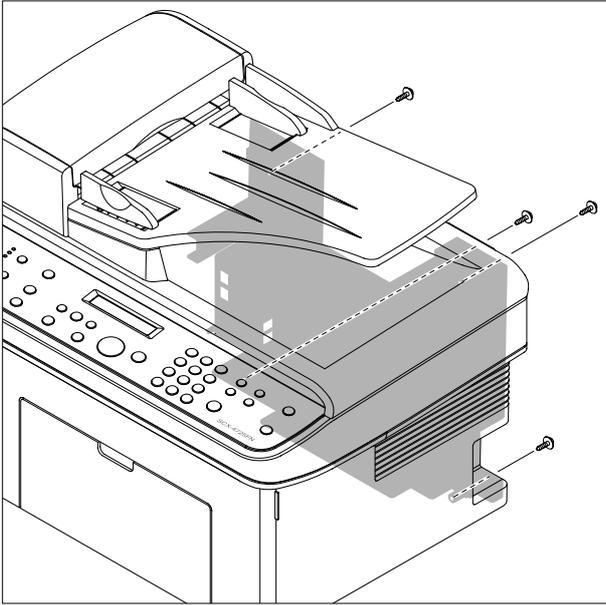


2. As shown below, to remove the Cassette Tray, lift the nob to the direction of the arrow with a light pressure while holding the Set(left).

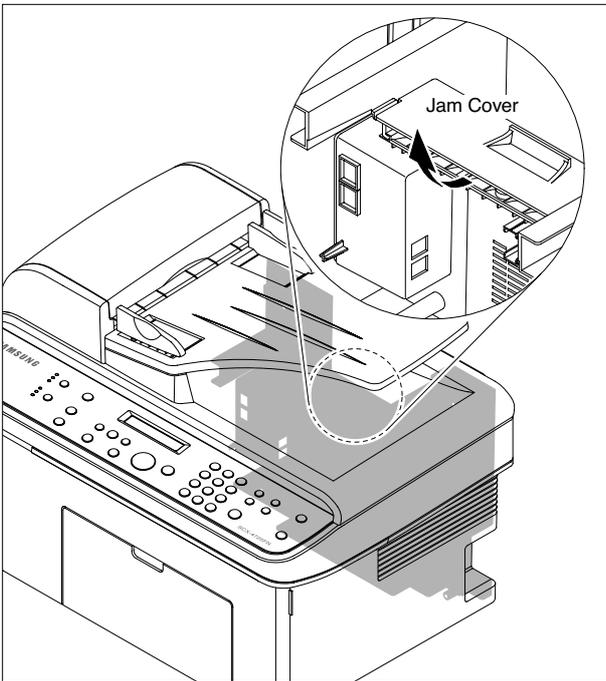


3.6 Rear Cover

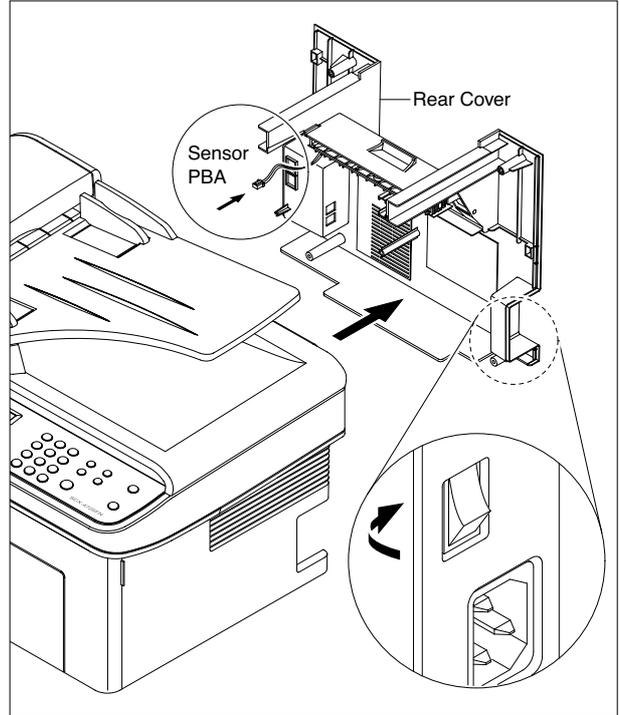
1. Remove the four screws securing the Rear Cover and remove it.



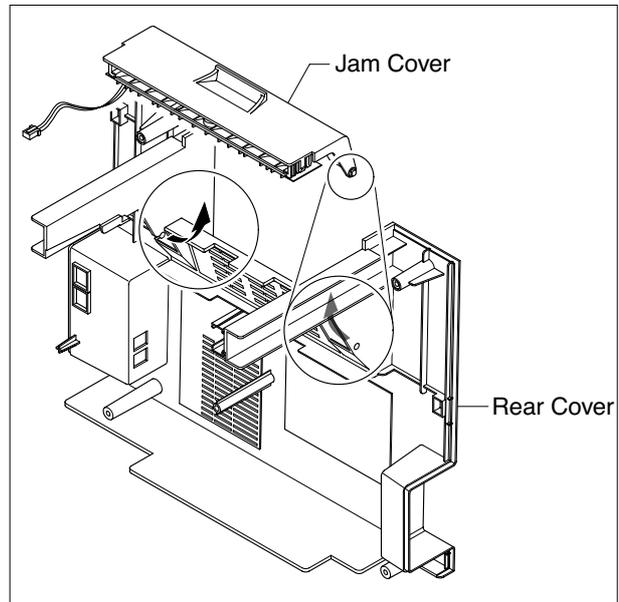
2. Open the Jam Cover.



3. To remove the Rear cover make sure the right Power Switch doesn't get jammed to the Rear Cover, as shown below.



4. If necessary, remove the Jam Cover in the direction of arrow, as shown below.

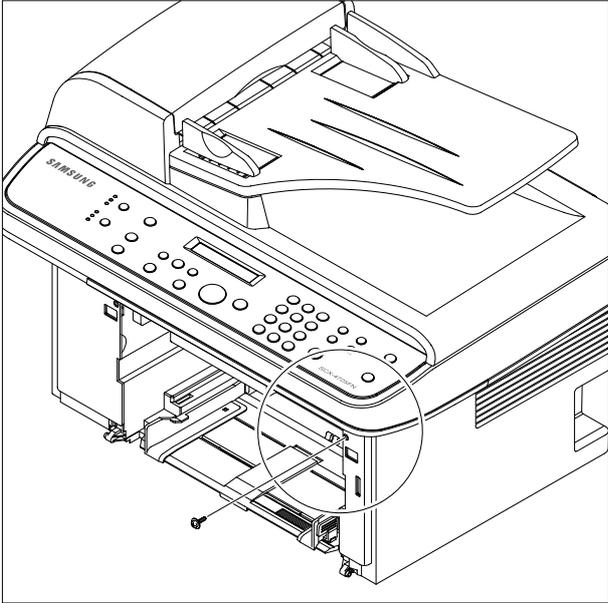


3.7 Right Cover

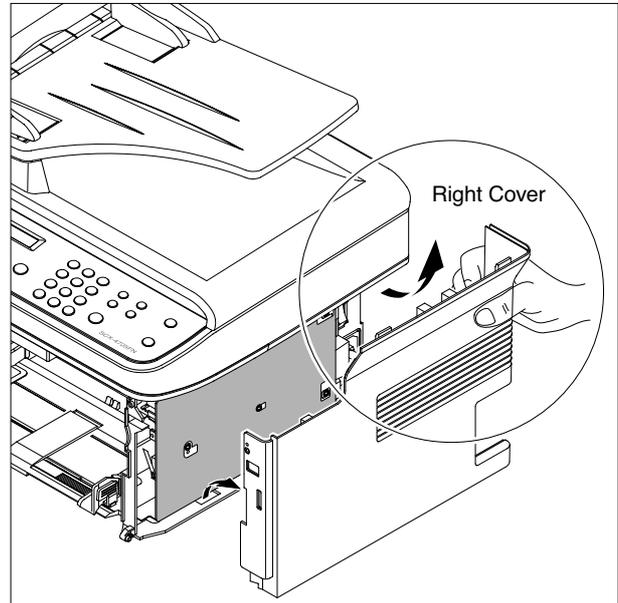
1. Before you remove the Right Cover, you should remove:

- Front Cover (Refer to the 3.4)
- Rear Cover (Refer to the 3.6)

2. Remove the one screws securing the Right Cover.



3. Apply light pressure to the back of the Right Cover and pull it to the right side in the direction of arrow, as shown below.

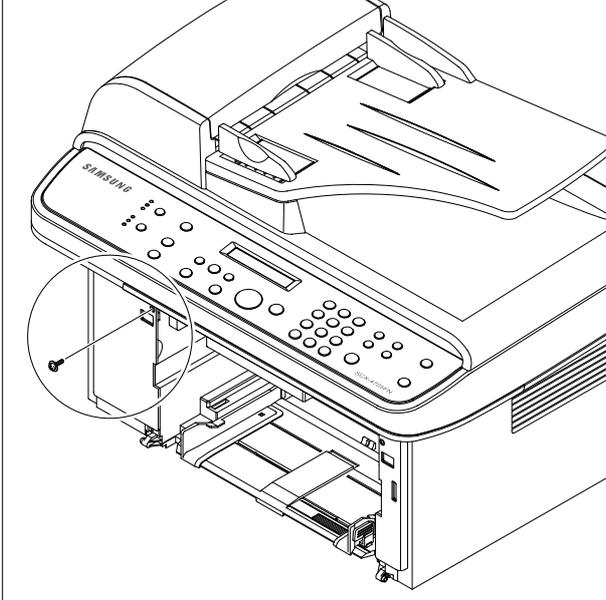


3.8 Left Cover

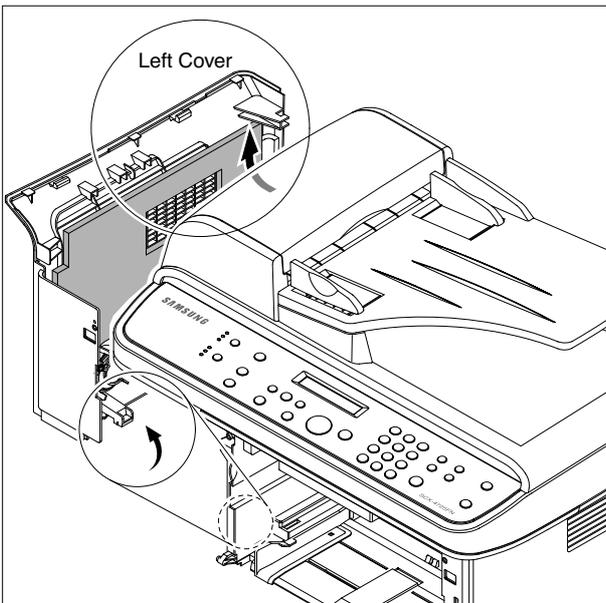
1. Before you remove the Left Cover, you should remove:

- Front Cover (Refer to the 3.4)
- Rear Cover (Refer to the 3.6)

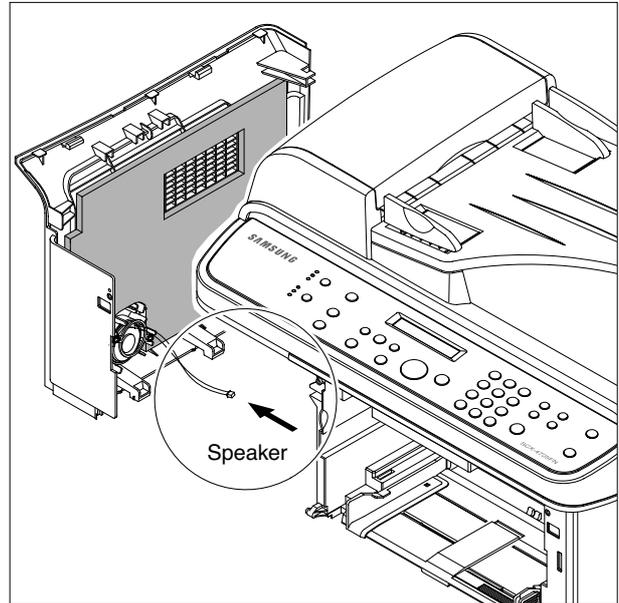
2. Remove the one screws securing the Left Cover.



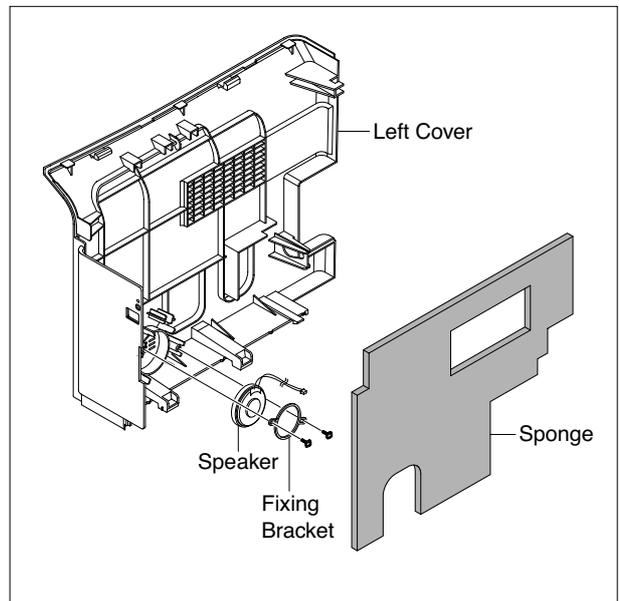
3. Apply light pressure to the back of the Left Cover and pull it to the left side in the direction of arrow, as shown below.



4. Unplug the Speaker Connector from the Main PBA.



5. If necessary, remove the two screws securing the Speaker and remove it.

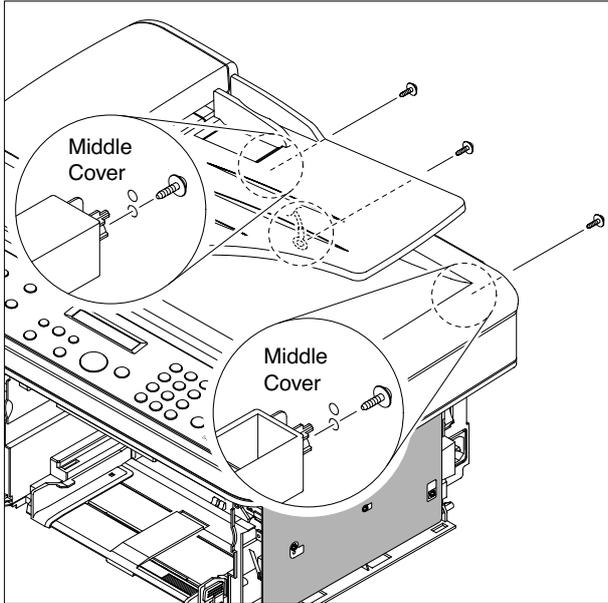


3.9 Scan Ass'y

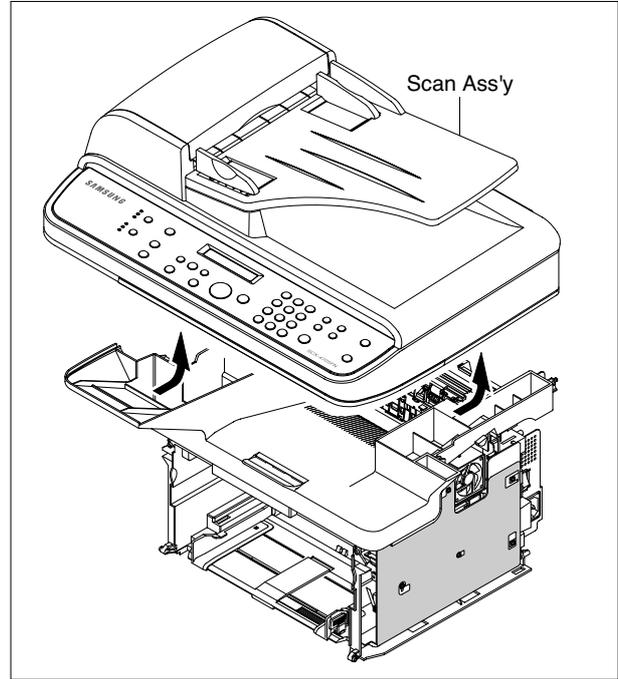
1. Before you remove the Scan Ass'y, you should remove:

- Rear Cover (Refer to the 3.6)
- Right Cover (Refer to the 3.7)
- Left Cover (Refer to the 3.8)

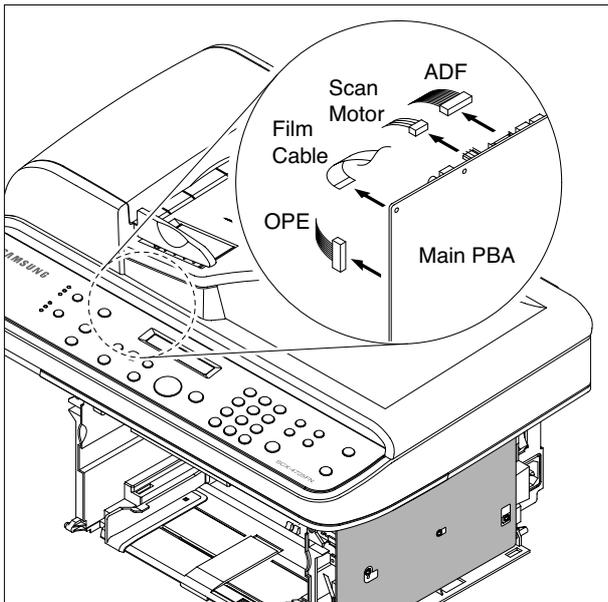
2. Remove the two screws from the Middle Cover and remove the screw securing the Ground Cable from the Main PBA, as shown below.



4. Release the Scan Ass'y in the direction of arrow, as shown below.

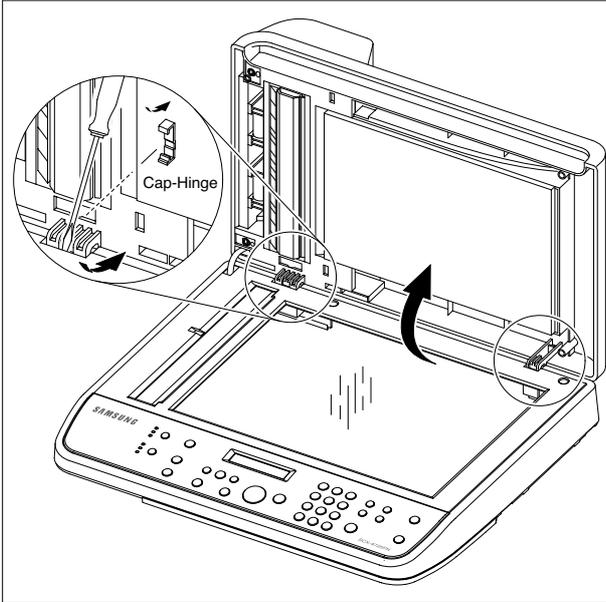


3. Unplug the three Connectors(ADF, Scan Motor, OPE) and Film Cable-CIS, as shown below.

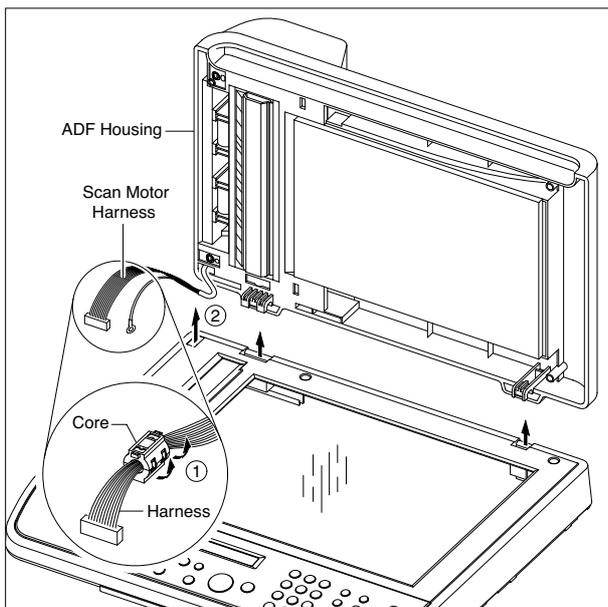


3.10 ADF Housing

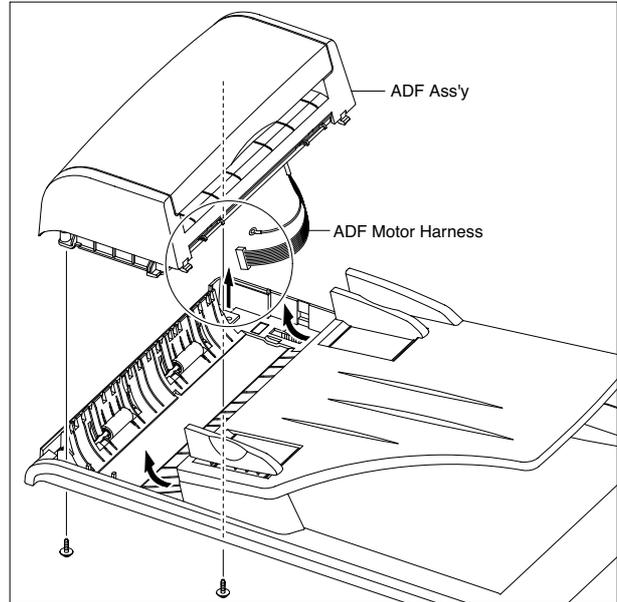
- Before you remove the ADF Housing, you should remove:
 - Scan Ass'y (Refer to the 3.9)
- Open the ADF Housing and insert a flat-blade screwdriver into the slot as shown below, and remove the Cap-Hinge from the Platen Housing and ADF Housing.



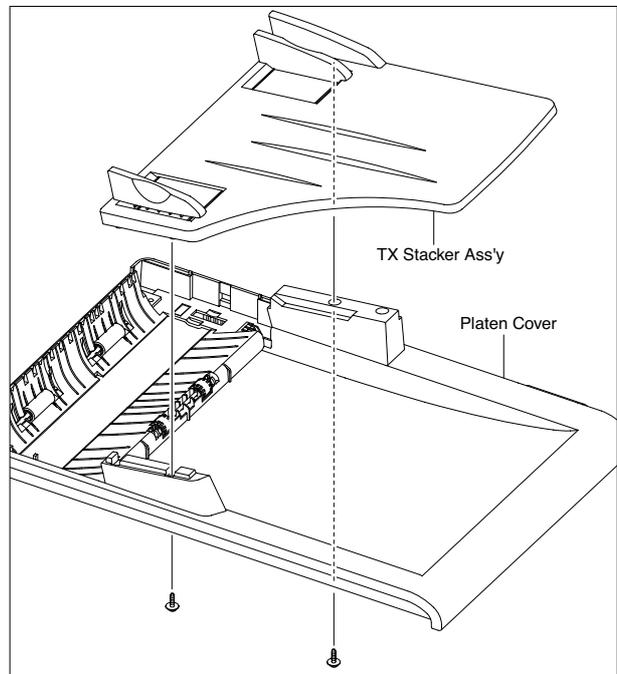
- Remove the ADF Housing from the Platen Housing. At that time, carefully release the ADF Motor Harness from the Platen Housing, as shown below.



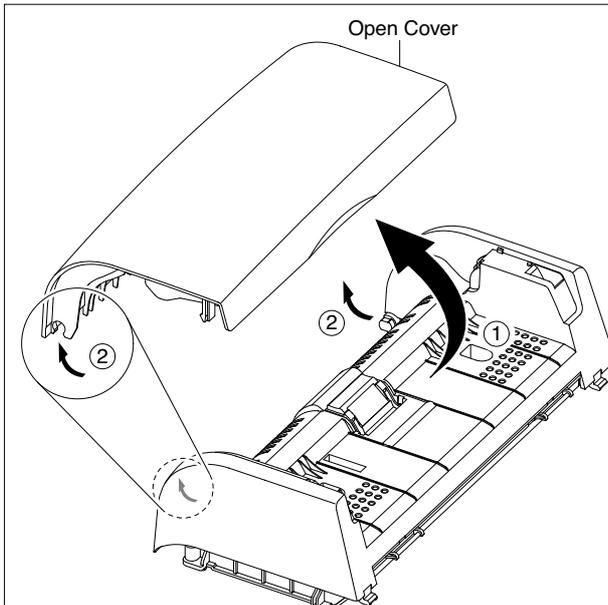
- Remove the two screws securing the ADF Ass'y and remove it. At that time, carefully release the ADF Motor Harness from the Platen Cover, as shown below.



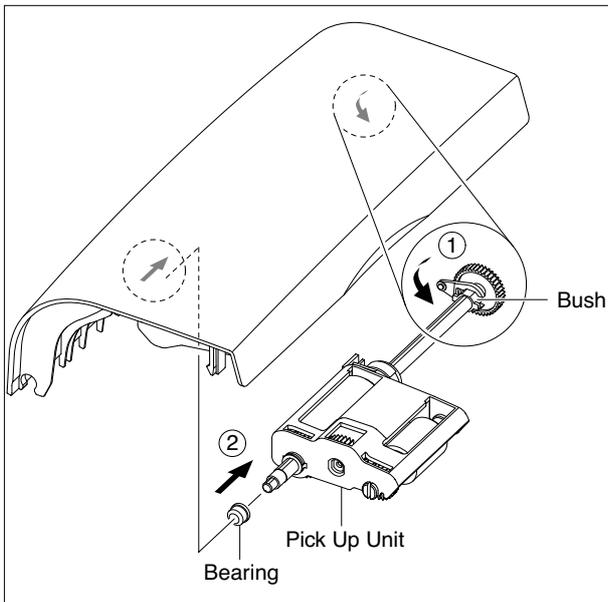
- If necessary, remove the two screws securing the TX Stacker Ass'y and remove it, as shown below.



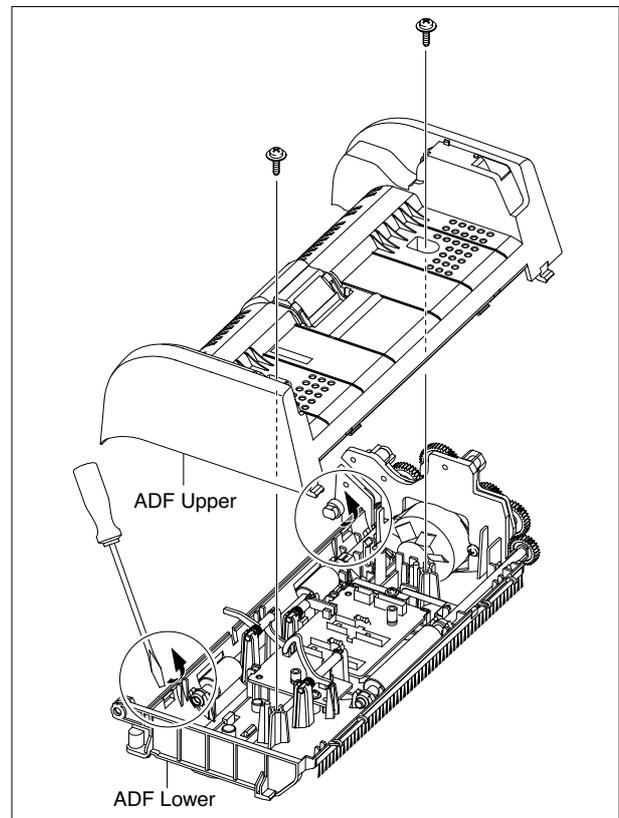
6. Open the Open Cover and remove the Open Cover in the direction of arrow, as shown below.



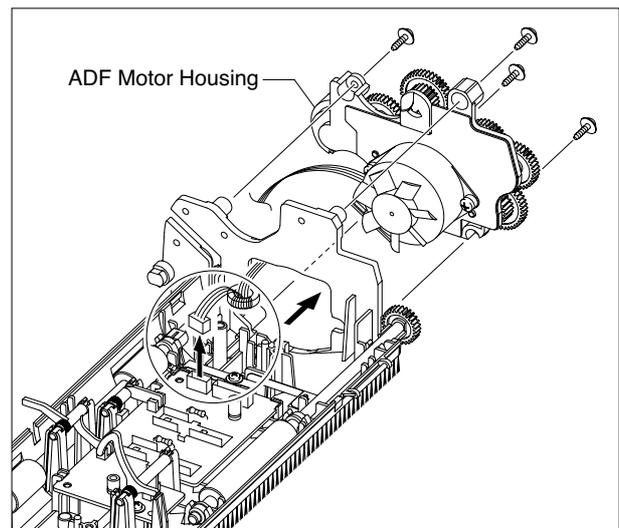
7. Pull the Bush, then rotate until it reaches the slot, as shown below. Then lift the Pick Up Unit.



8. Remove the two screws securing the ADF Upper and insert a flat-blade screwdriver in to slot as shown below, and remove the ADF Upper.

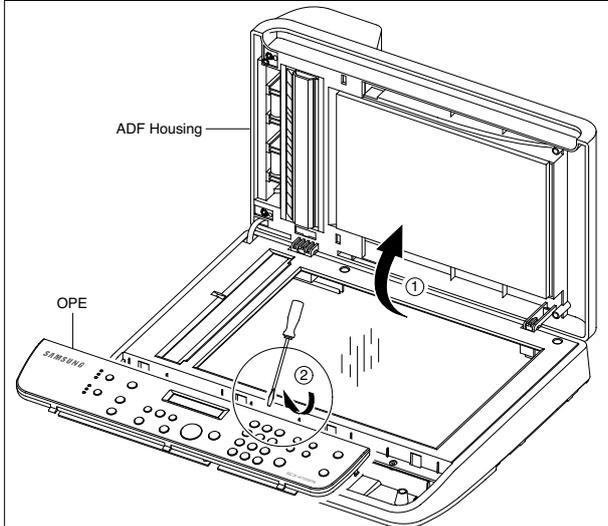


9. Unplug the Connector from the ADF PBA and remove the four screws securing the ADF Motor Housing and remove it in the direction of arrow, as shown below.

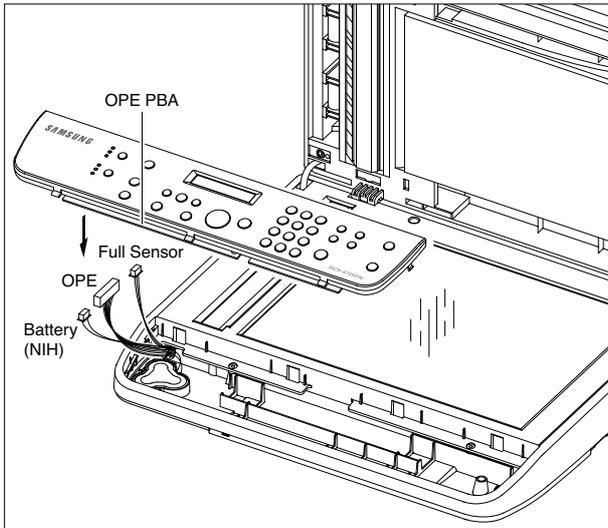


3.11 OPE Unit

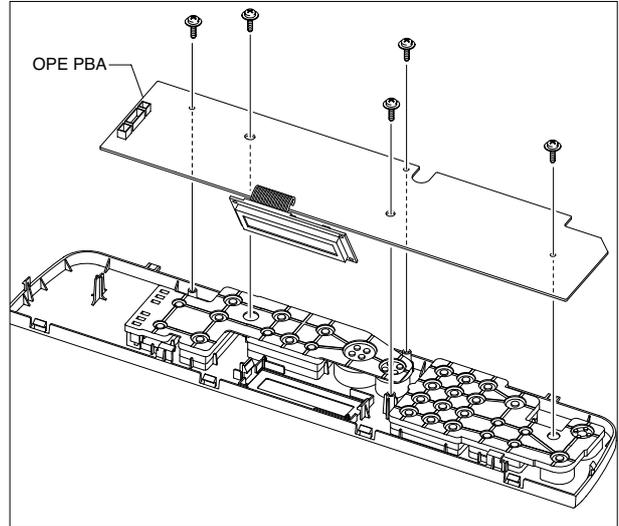
1. Open the ADF Housing and insert a flat-blade screwdriver into the crack as shown below, and remove the OPE Unit from the Platen Housing.



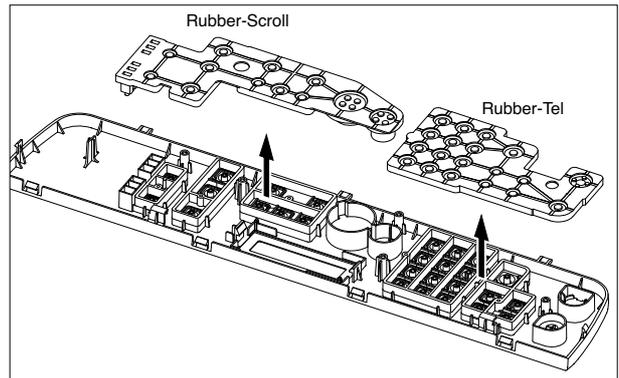
2. Unplug the three Connectors (Battery, OPE, Full Sensor), as shown below.



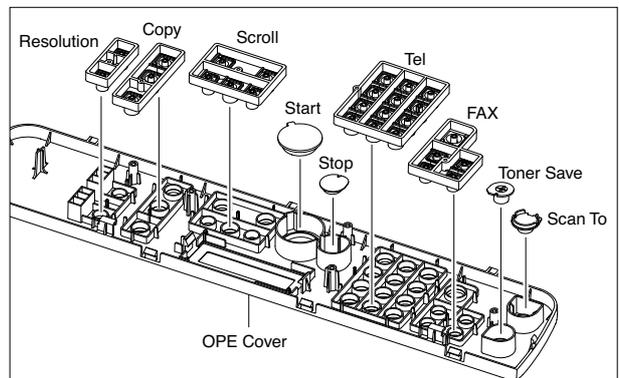
3. Remove the five screws securing the OPE PBA and remove it.



4. Release the Contact Rubbers, as shown below.

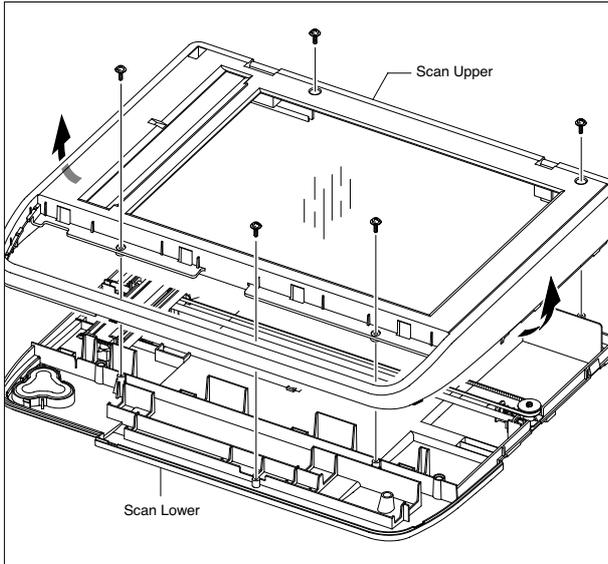


5. Release the Keys, as shown below.

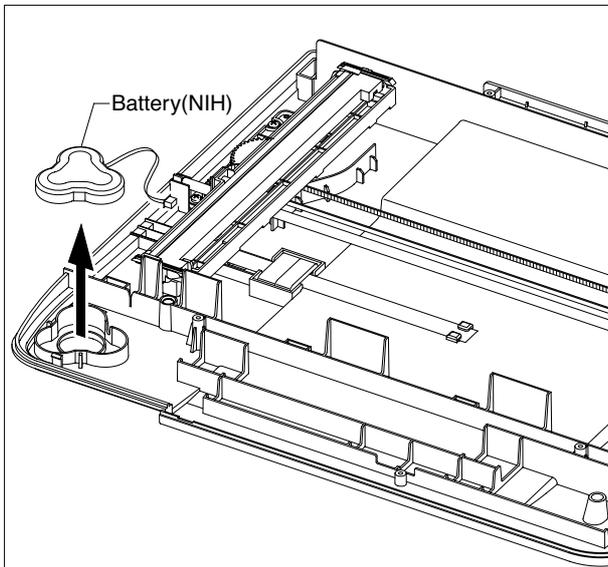


3.12 Platen Housing

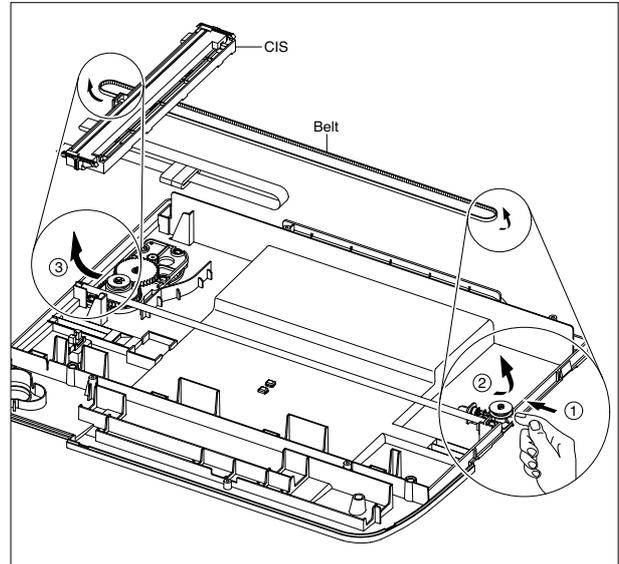
1. Before you remove the Platen Housing, you should remove:
 - Scan Ass'y (Refer to the 3.9)
 - ADF Housing (Refer to the 3.10)
 - OPE Unit (Refer to the 3.11)
2. Remove the five screws from the Scan Upper and remove it from the Scan Lower, as shown below.



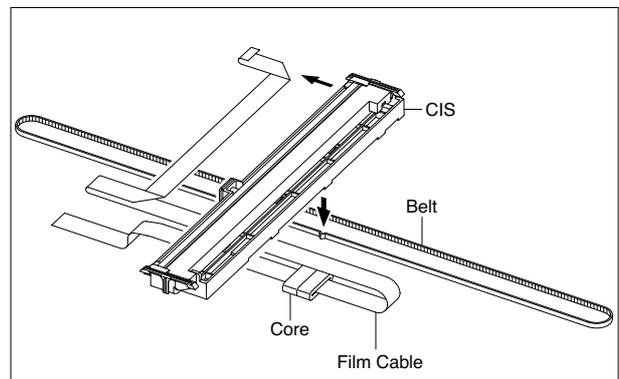
3. Take out the Battery(NIH).



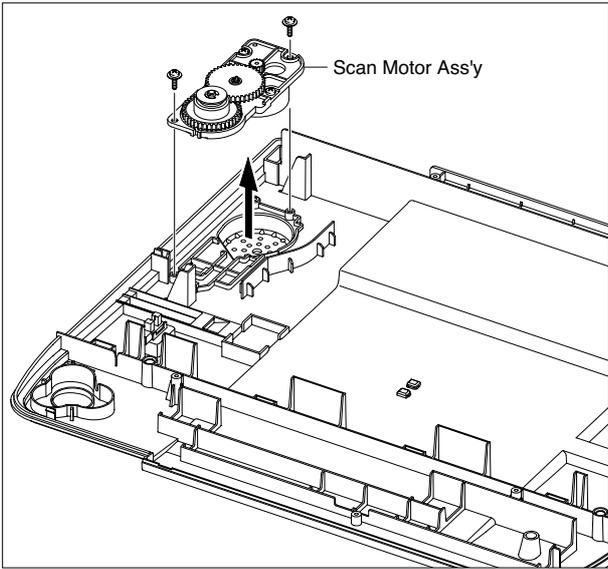
4. Push the Holder in the direction of arrow and remove the Belt, as shown below. (The CIS will come out at the same time.)



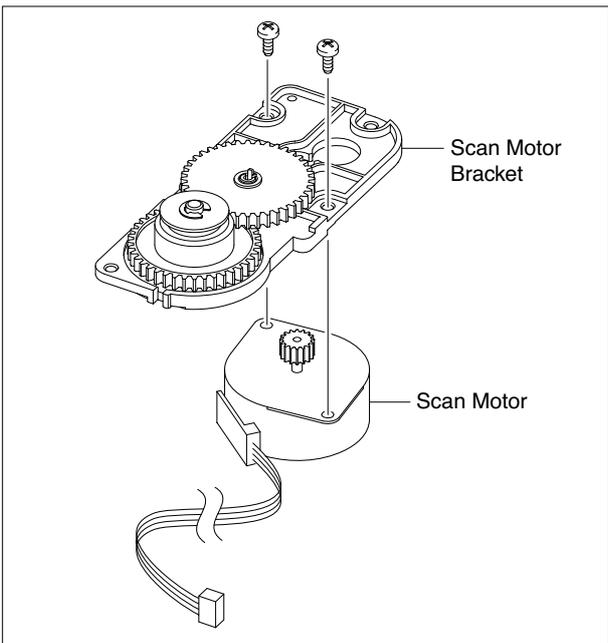
5. Release the Belt and Flat Cable from the CIS.



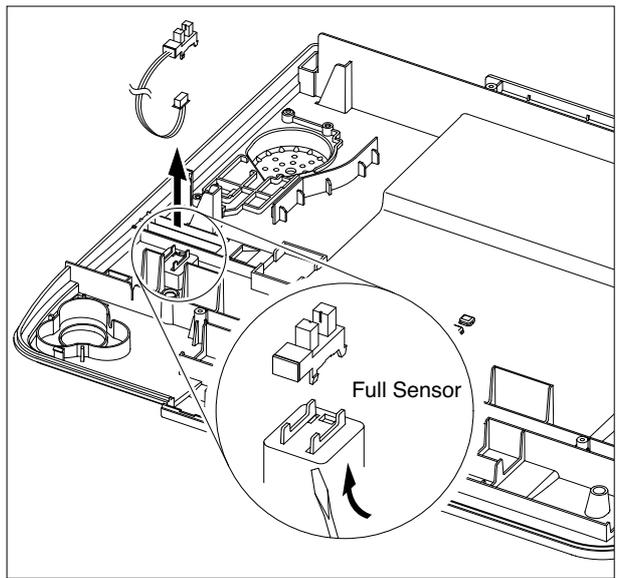
6. Remove the two screws securing the Scan Motor Ass'y and remove it.



7. If necessary, remove the two screws securing the Scan Motor and remove it.



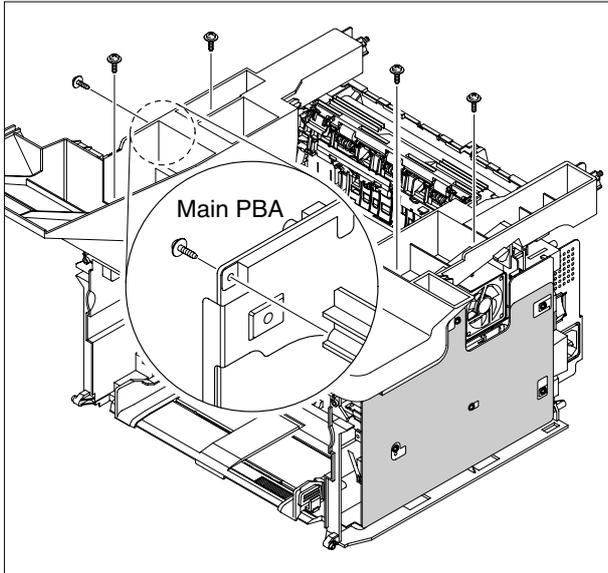
8. Using a flat-blade screwdriver remove the Full Sensor, as shown below.



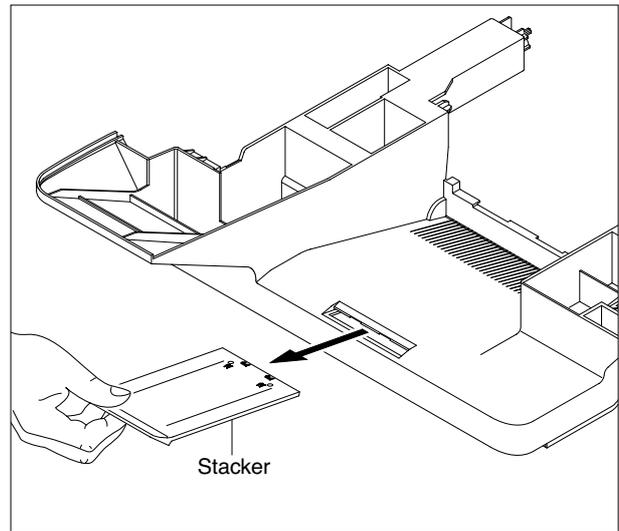
3.13 Middle Cover

1. Before you remove the Middle Cover, you should remove:
 - Scan Ass'y (Refer to the 3.9)

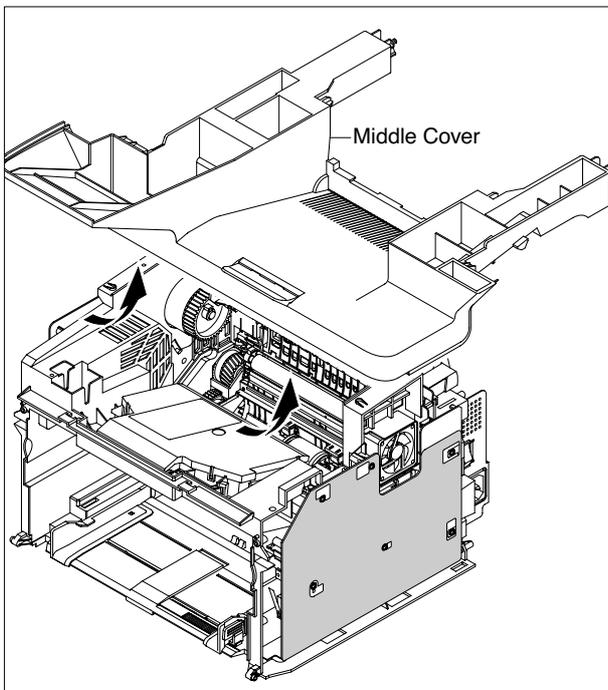
2. Remove the five screws securing the Middle Cover, as shown below.



4. If necessary, take out the Stacker.

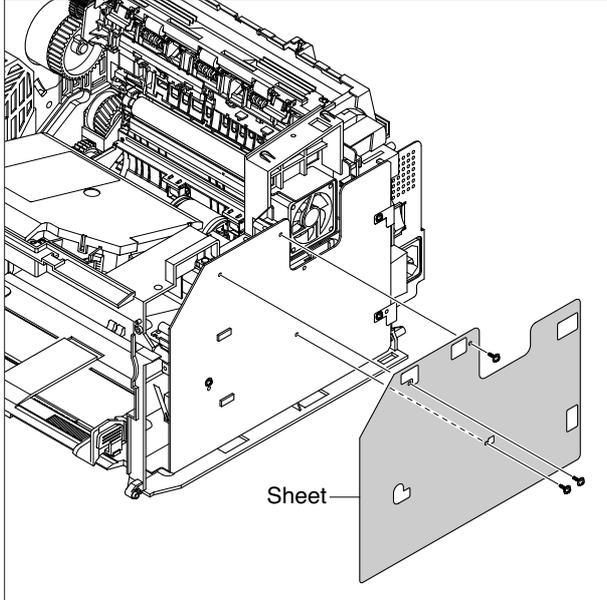


3. Carefully release the Middle Cover in the direction of arrow, as shown below.

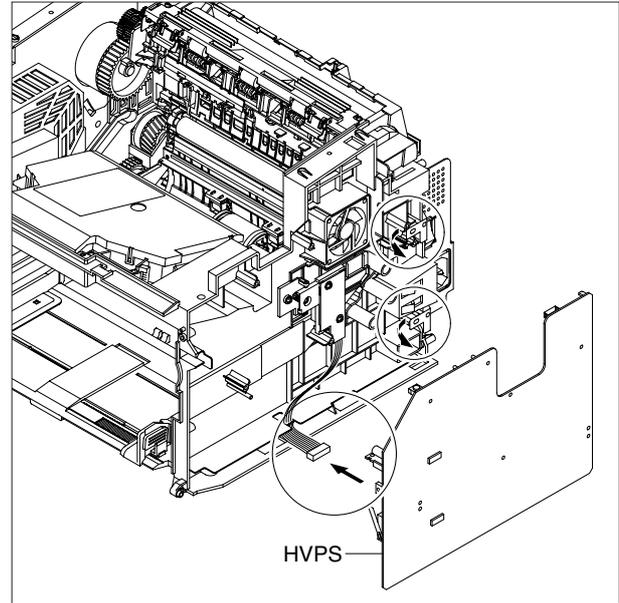


3.14 HVPS

- Before you remove the HVPS, you should remove:
 - Scan Ass'y (Refer to the 3.9)
 - Middle Cover (Refer to the 3.13)
- Remove the three screws securing the Sheet and remove it.

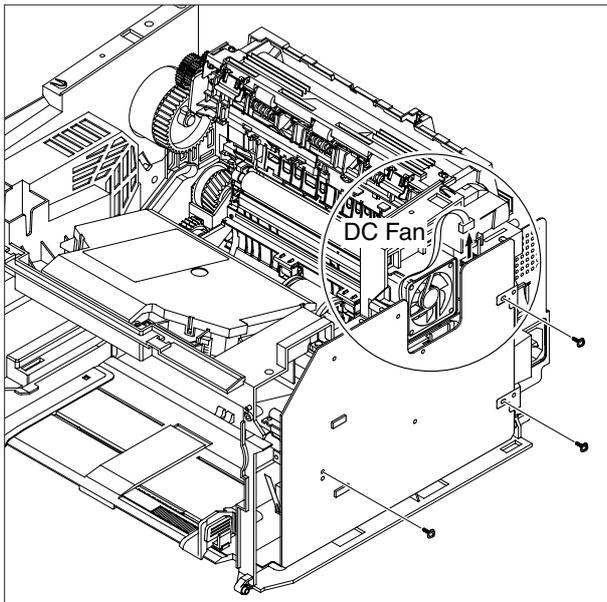


- Unplug the Connector from the HVPS and remove it.



Notice : Be awer of the Terminals(TR L) to ensure they are not lost.

- Remove the three screws securing the HVPS and unplug the connector(DC Fan) from the HVPS, as shown below.

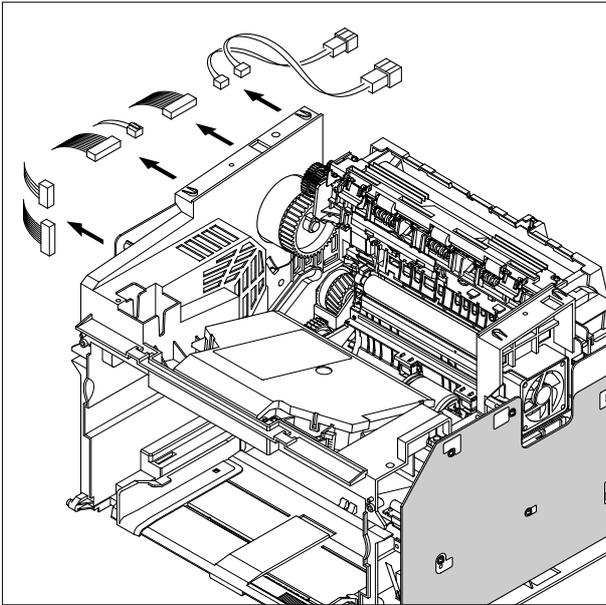


3.15 Main PBA

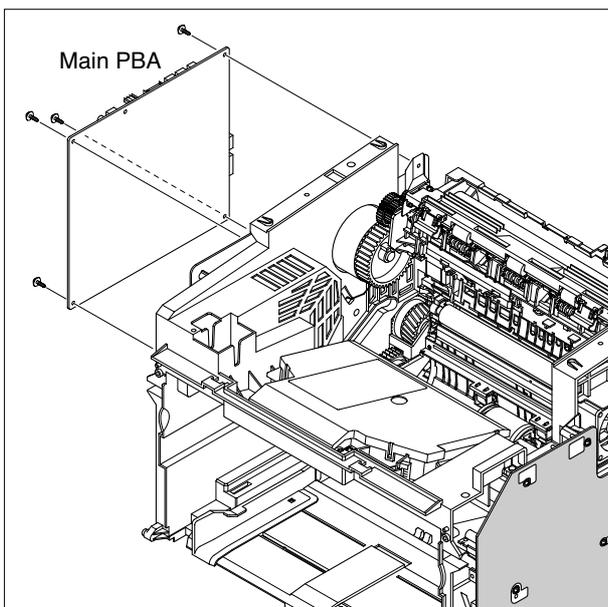
1. Before you remove the Main PBA, you should remove:

- Scan Ass'y (Refer to the 3.9)
- Middle Cover (Refer to the 3.13)

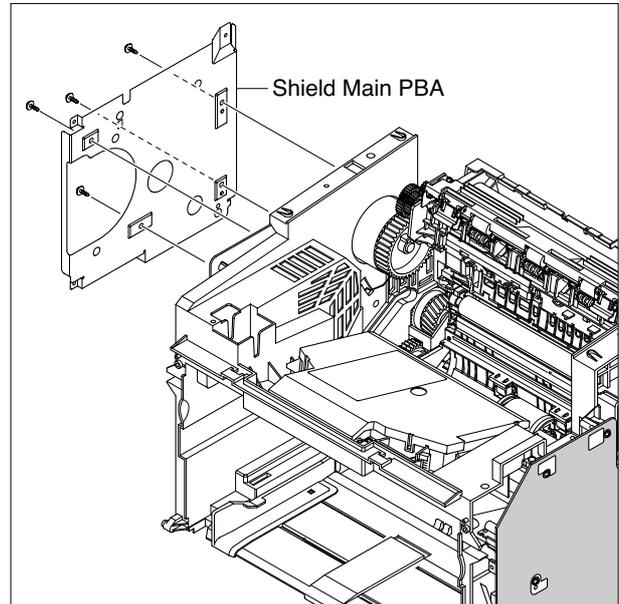
2. Unplug the all Connectors from the Main PBA, as shown below.



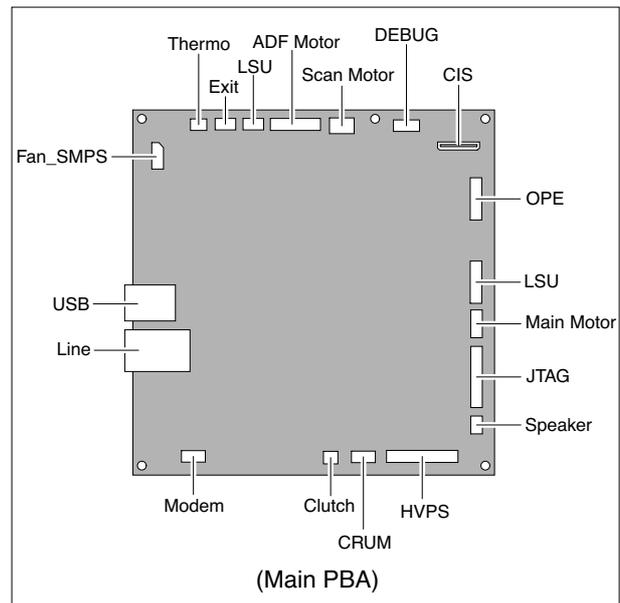
3. Remove the four screws securing the Main PBA and remove it.



4. Remove the four screws securing the Shield Main PBA and remove it.

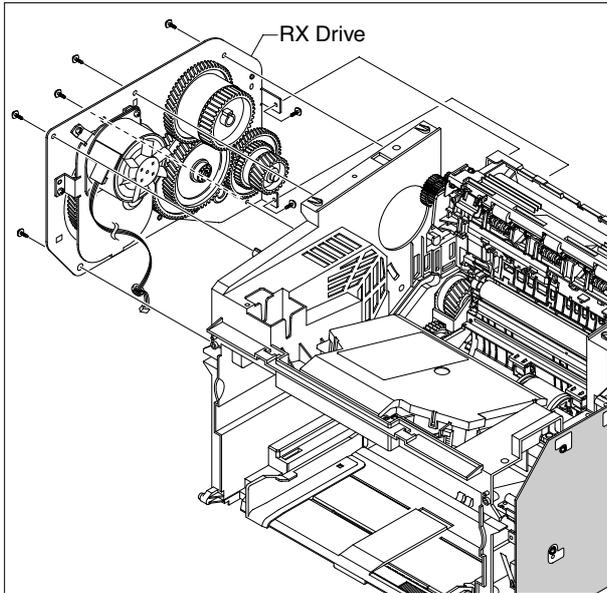


5. The connectors are located, as shown below.



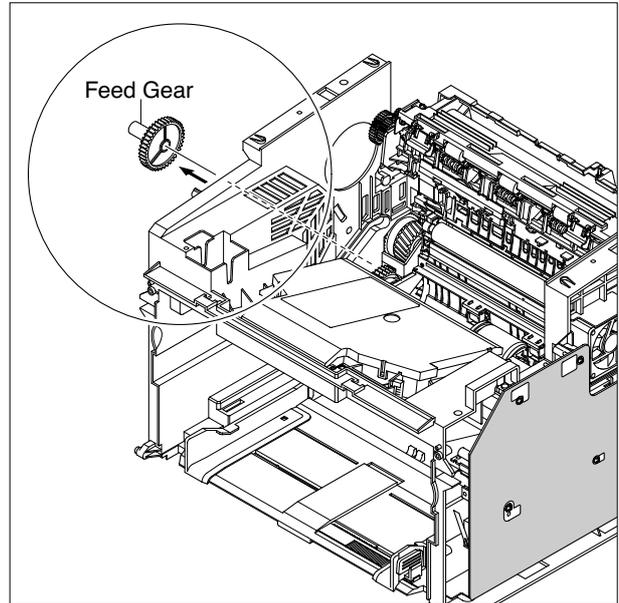
3.16 RX Drive

- Before you remove the RX Drive, you should remove:
 - Scan Ass'y (Refer to the 3.9)
 - Middle Cover (Refer to the 3.13)
 - Main PBA (Refer to the 3.15)
- Remove the two screws securing the Engine Shield and remove the five screws securing the Frame then remove the RX Drive in the direction of arrow, as shown below.

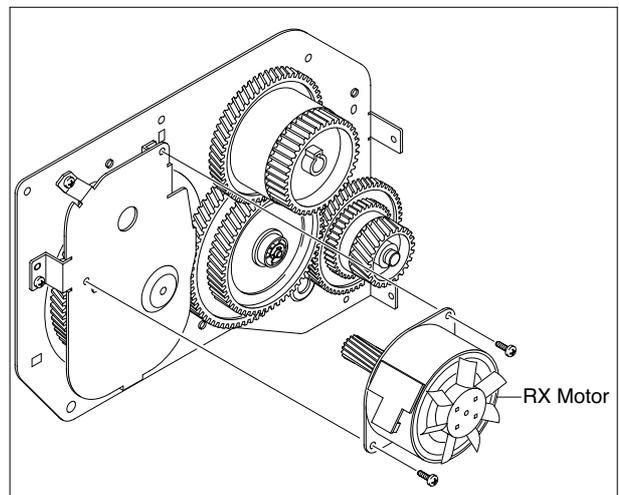


Notice : The five screws have numbers stamped into the RX Drive Ass'y base plate. When refitting the Rx Drive Ass'y tighten the screws the order they are numbered.

- For easy disassembly, release the Feed Gear from the Frame.

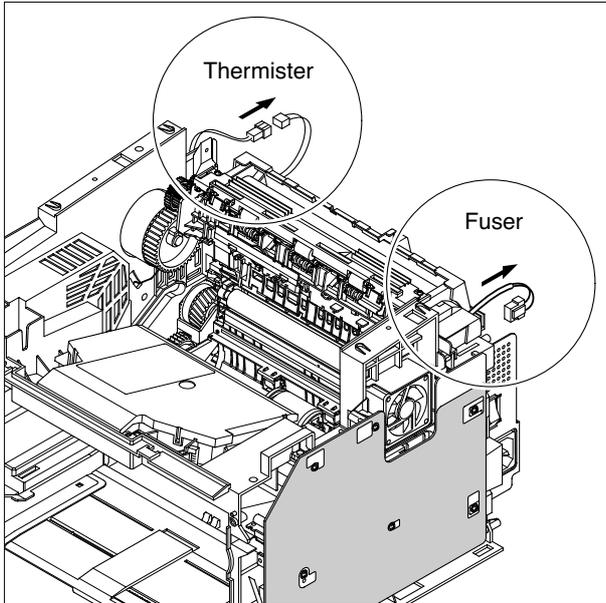


- If necessary, remove the two screws securing the RX Motor and remove it.

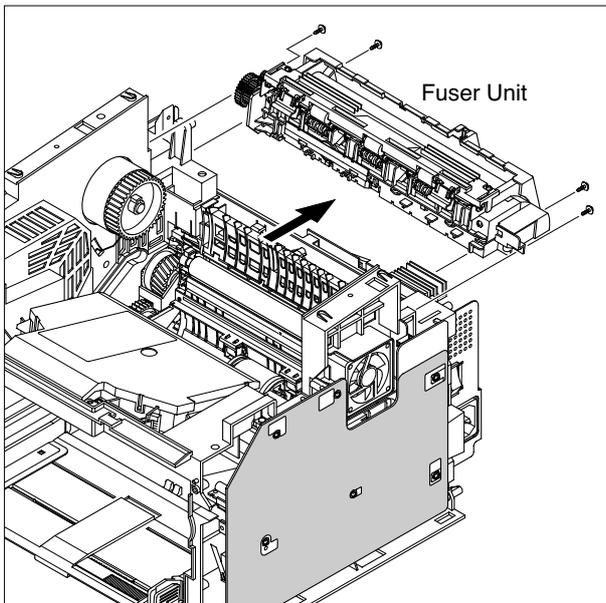


3.17 Fuser Unit

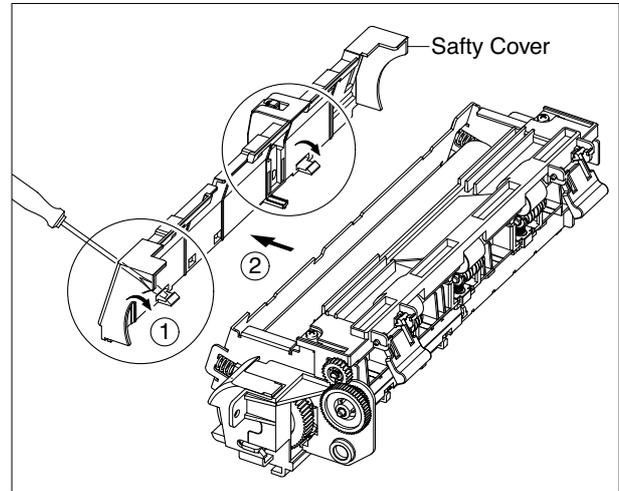
1. Before you remove the Fuser, you should remove:
 - Scan Ass'y (Refer to the 3.9)
 - Middle Cover (Refer to the 3.13)
2. Unplug the two Connectors from the SMPS and Main PBA, as shown below.



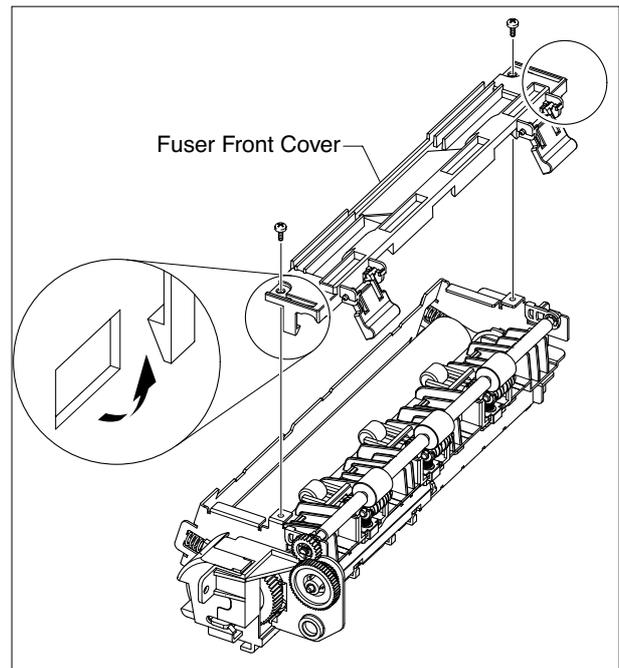
3. Remove the four screws securing the Fuser and remove it, as shown below.



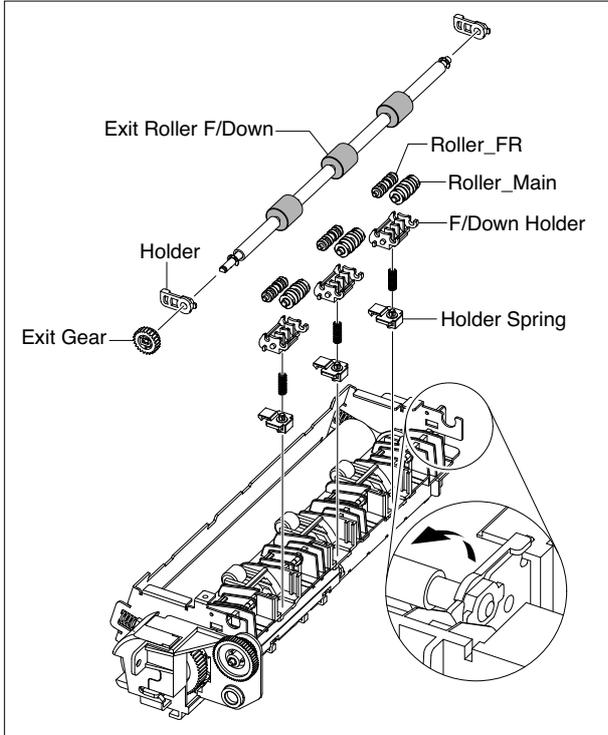
4. Remove the Safty Cover using a flat-blade screwdriver, as shown below.



5. Remove the two screws securing the Fuser Front Cover and remove it, as shown below.

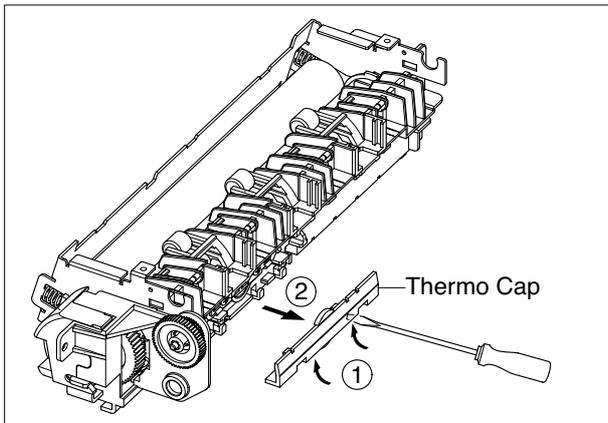


6. As shown below rotate the Holder to the direction of the arrow which is attached to the Exit Roller F/Down and Exit Gear(DR38/25).
(The Roller_Main, Roller_FR, F/Down Holder, Spring will come out at the same time.)

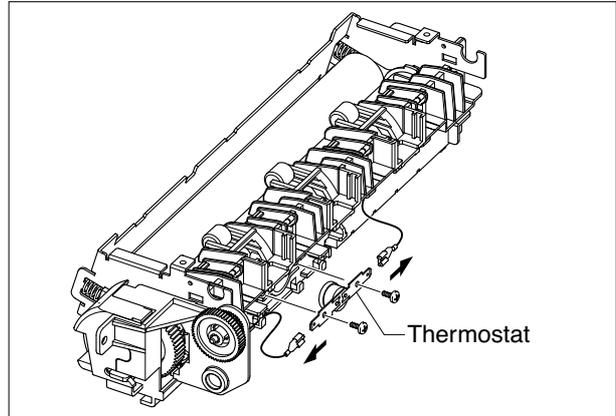


Notice : If you don't follow the direction above the Spring will come out forcing the Roller_Main, Roller_FR, F/Down Holder inside the Frame Ass'y.

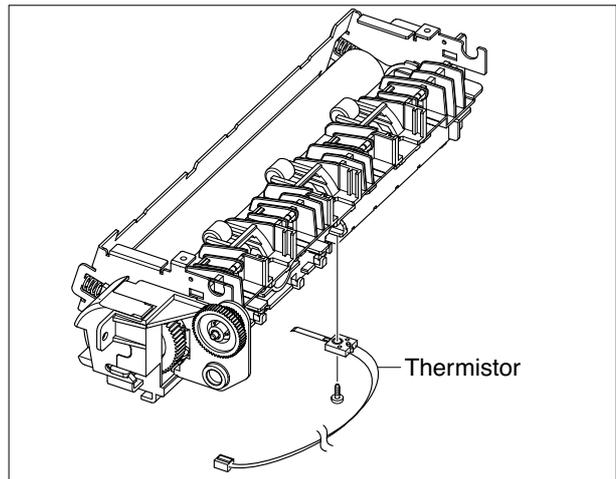
7. To remove the Thermo Cap, first unlatch the hooks using a flat-blade screwdriver in the direction of arrow and then pull the Thermo Cap, as shown below.



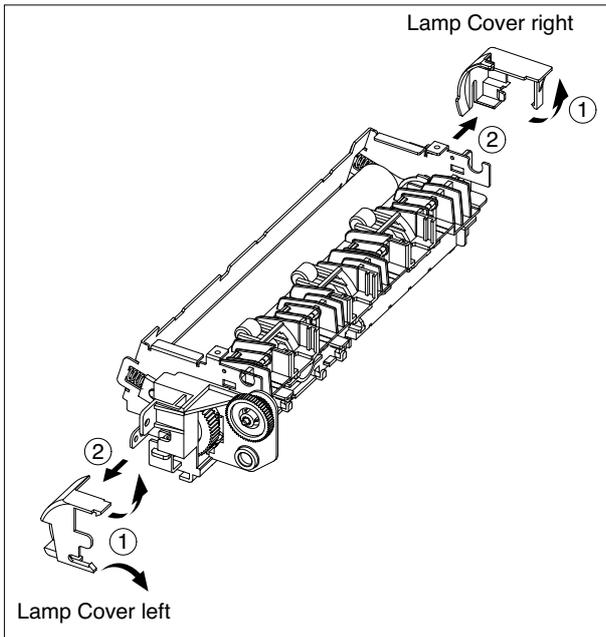
8. First remove the two screws securing the Thermostat and then take out the Thermostat and release the CBF Harness, as shown below.



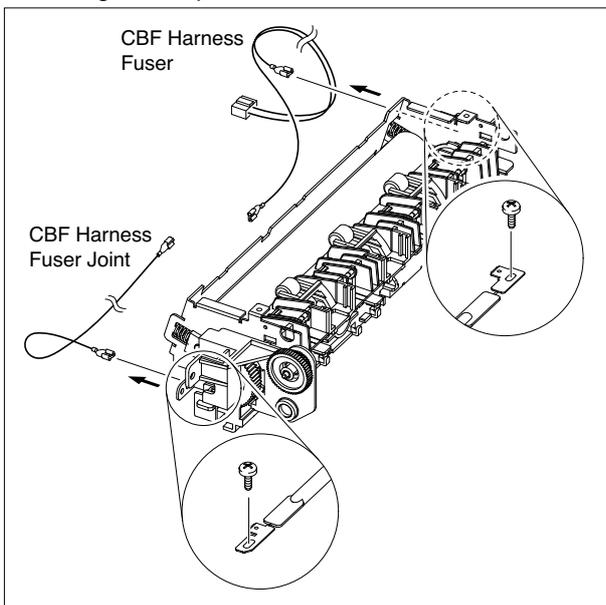
9. Remove the screw securing the Thermistor Harness and take out the Thermistor, as shown below.



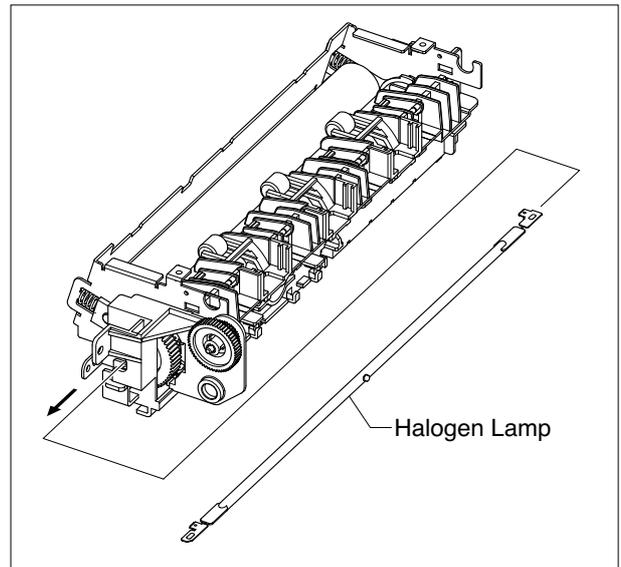
10. First unlatch the hooks and remove the Lamp Cover right and left, as shown below.



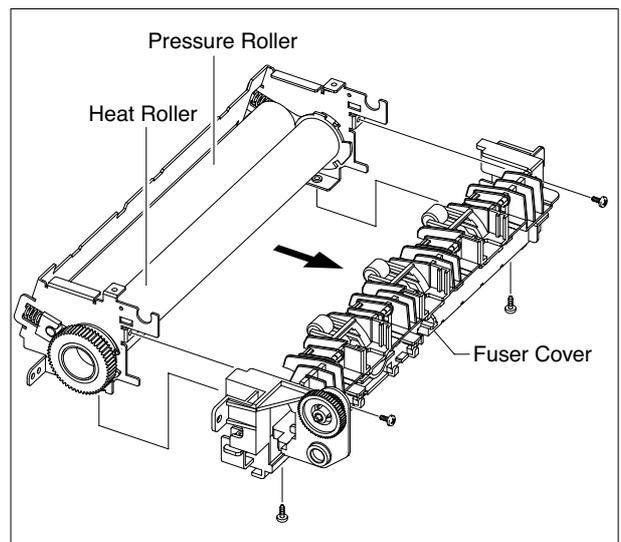
11. Release the CBF Harness from the Halogen Lamp and remove the two screws securing the Halogen Lamp, as shown below.



12. Carefully release the Halogen Lamp in the direction of arrow.



13. If necessary, remove the four screws securing the Fuser Cover and remove it.



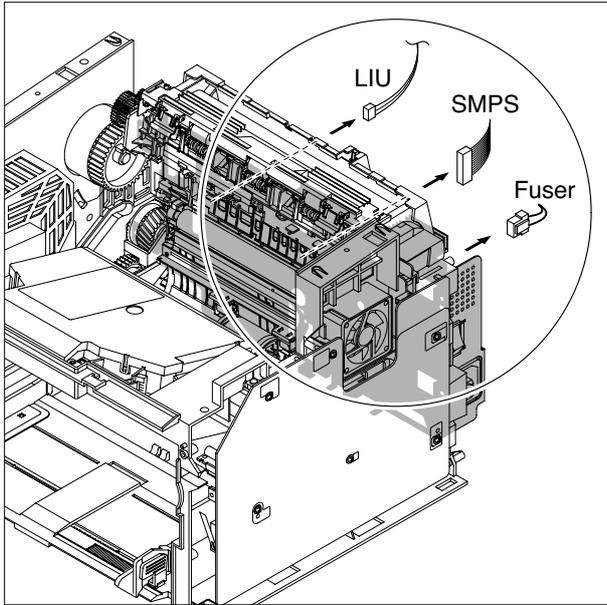
Notice : Be careful not to damage or contaminate the surface of the roller when assembling and disassembling the Heat Roller.

3.18 Engine Shield (With LIU PBA, SMPS)

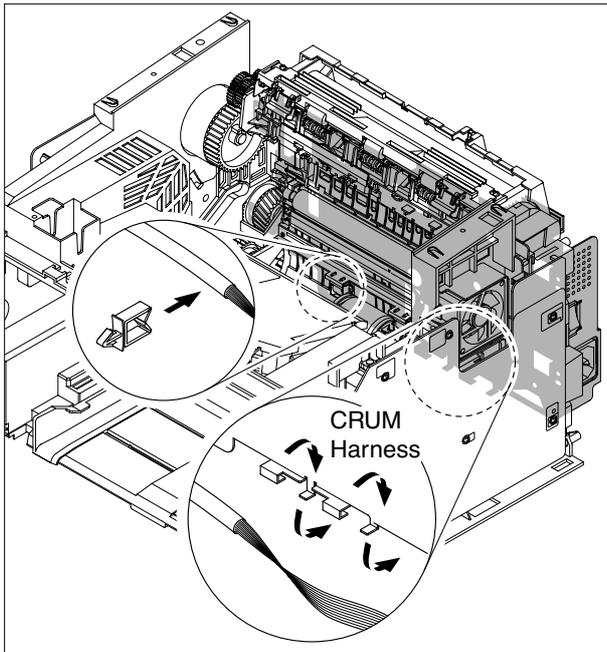
1. Before you remove the Engine Shield, you should remove:

- Scan Ass'y (Refer to the 3.9)
- Middle Cover (Refer to the 3.13)

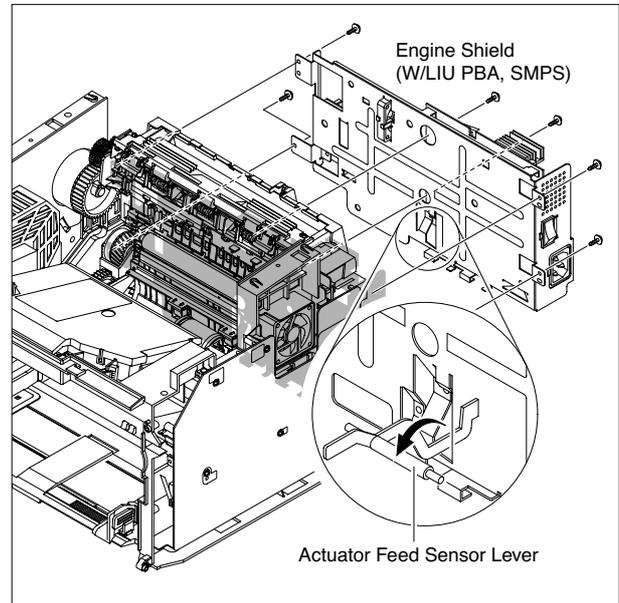
2. Unplug the all Connectors from the SMPS and LIU PBA.



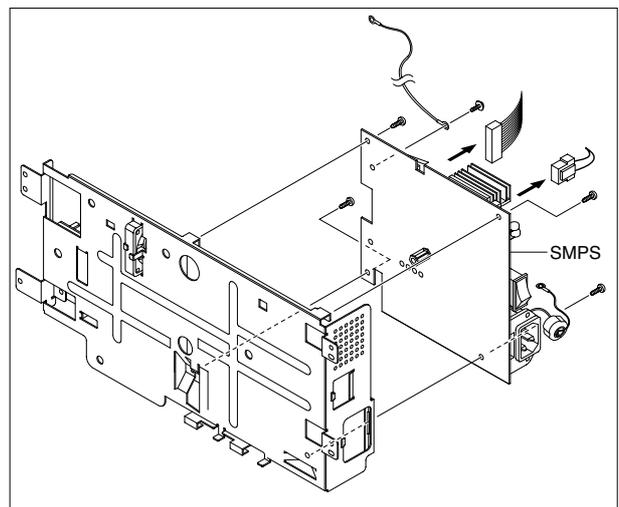
3. Carefully release the CRUM Harness below the bottom of the Engine Shield in the direction of arrow.



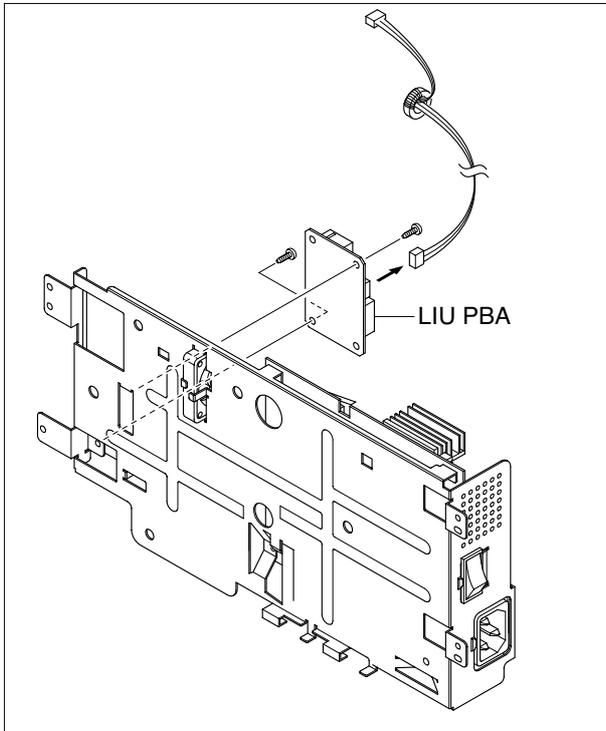
4. Remove the six screws securing the Engine Shield and unplug the DC Fan connector from the Main PBA. Then carefully release the Engine Shield from the Actuator Feed Sensor Lever, as shown below.



5. When if only remove the SMPS, first remove the Rear Cover(refer to the 3.6) and unplug the two Connectors from the SMPS, as shown below. Then remove the six screws securing the SMPS and remove it.



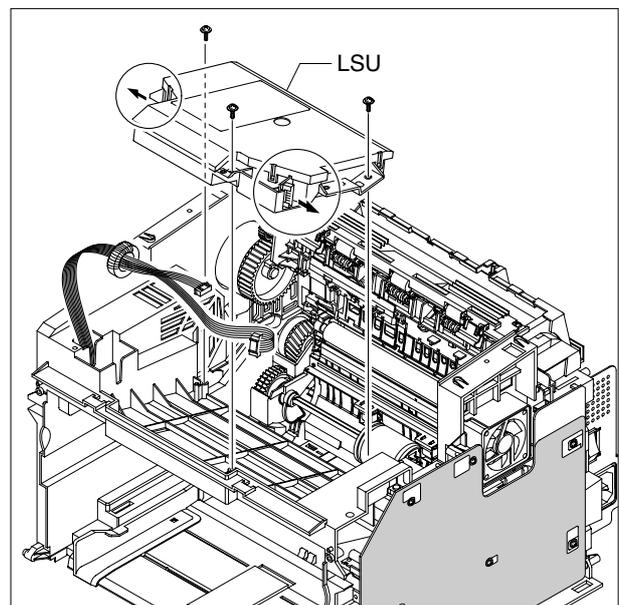
6. When if only remove the LIU PBA, first remove the Rear Cover(refer to the 3.6) and then unplug the connector from the LIU PBA, as shown below. Then remove the two screws securing the LIU PBA and remove it.



3.19 LSU

1. Before you remove the LSU, you should remove:
- Scan Ass'y (Refer to the 3.9)
 - Middle Cover (Refer to the 3.13)

2. Remove the three screws securing the LSU and remove it. Then unplug the two Connectors from the LSU.

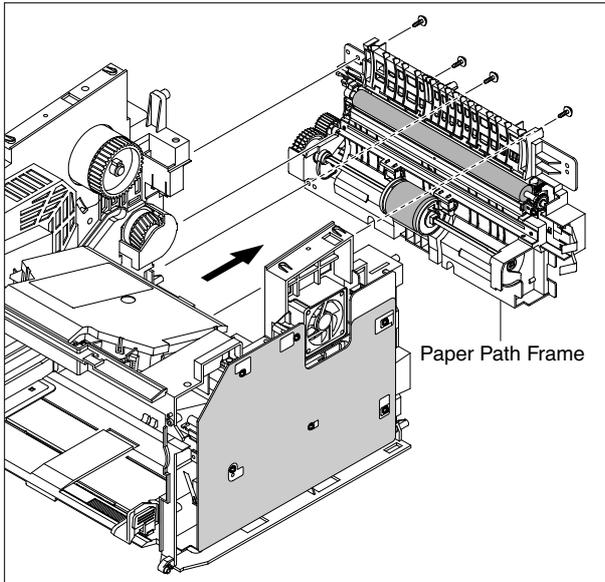


3.20 Paper Path Frame

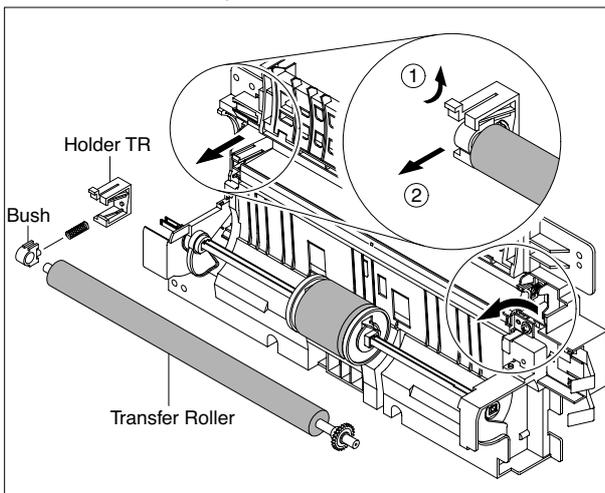
1. Before you remove the Paper Path Frame, you should remove:

- Scan Ass'y (Refer to the 3.9)
- Middle Cover (Refer to the 3.13)
- Fuser (Refer to the 3.17)
- Engine Shield (Refer to the 3.18)

2. Remove the four screws securing the Paper Path Frame and remove it, as shown below.

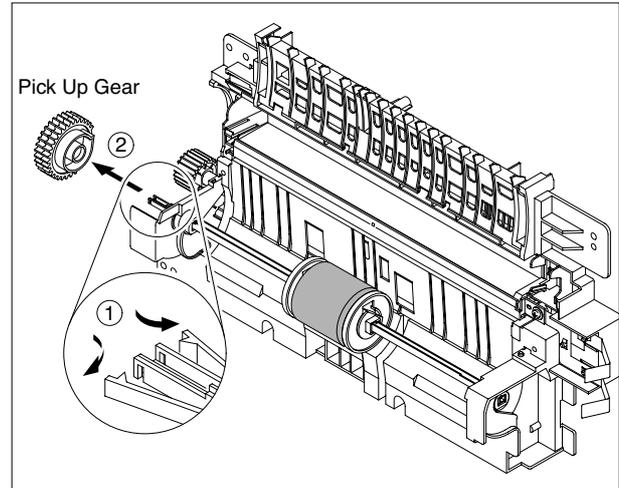


3. To remove the Transfer Roller, first unlatch the lock device of the Holder TR from the Frame and then pull the Transfer Roller(with Holder TR) in the direction of arrow, as shown below.

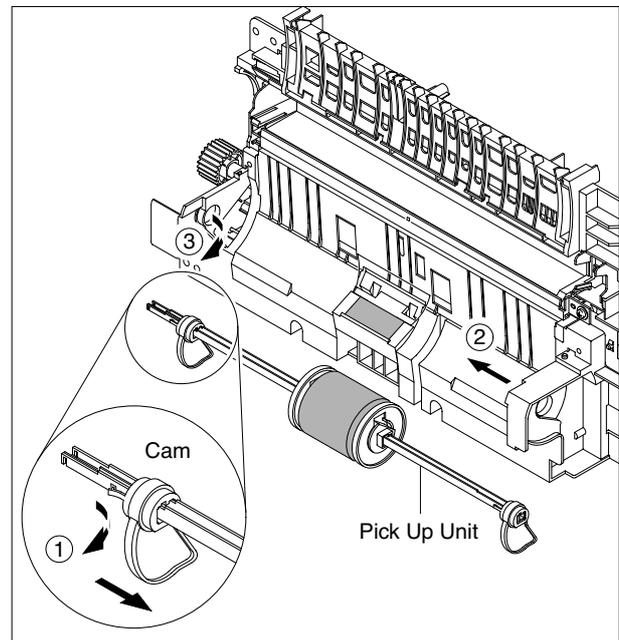


Notice : Do not grab the rubber part of the Transfer Roller, it may cause a malfunction due to a foreign object. Hold the both side of the Transfer Roller when replacing it.

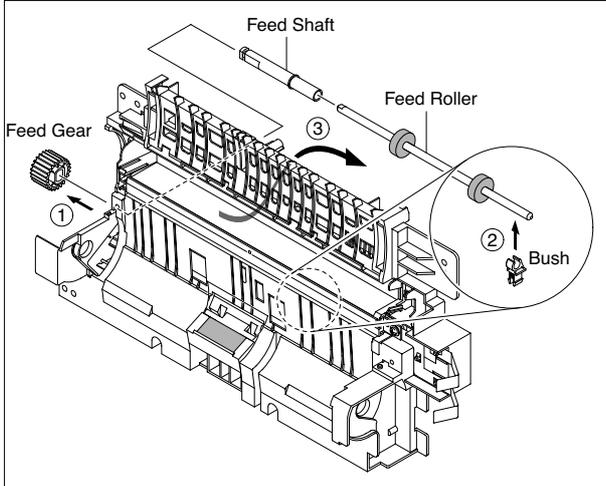
4. Unlatch the lock device of the Pick Up Gear and remove it.



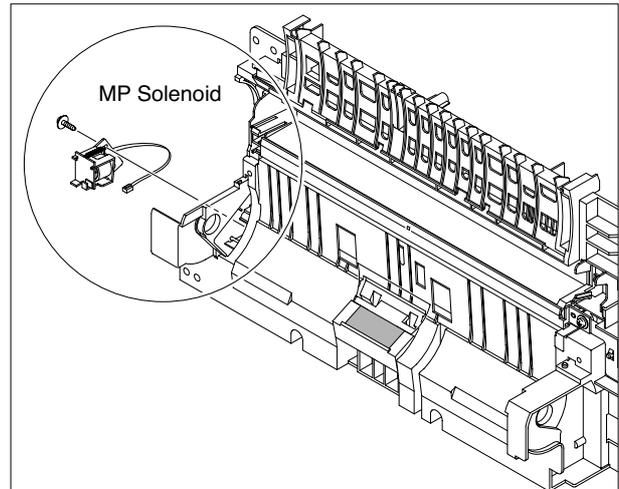
5. To remove the Pick Up Unit, first lift the notch attached to the left side Pick Up Cam so that it's slide the left to right from the Pick Up Shaft, and then slide the Pick Up Unit right side to left side and take out the right side, as shown below.



6. To remove the Feed Roller, first unlatch the lock device of the Feed Gear and remove it. Then pull the Feed Roller from the Bush and take out the Feed Roller(with Feed Shaft) from the Frame in the direction of arrow, as shown below.



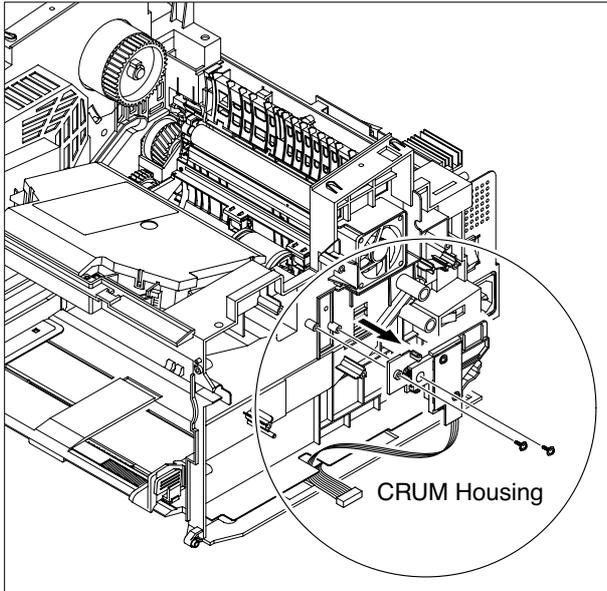
7. Remove the screw securing the MP Solenoid and remove it, as shown below.



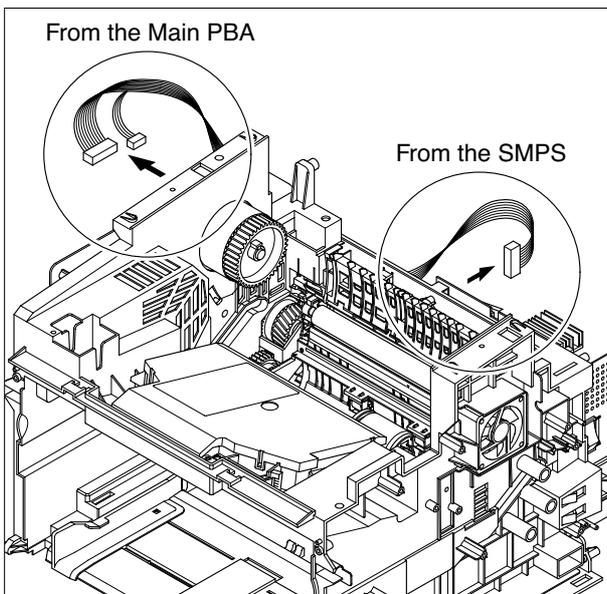
3.21 CRUM Harness

- Before you remove the CRUM Harness, you should remove:
 - Scan Ass'y (Refer to the 3.9)
 - Middle Cover (Refer to the 3.13)
 - HVPS (Refer to the 3.14)

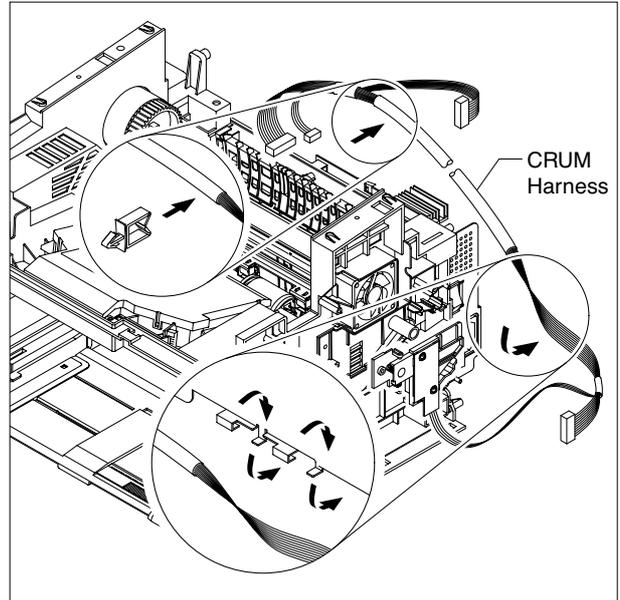
- Remove the two screws securing the CRUM Hausing and remove it.



- Unplug the three connectors from the Main PBA and SMPS, as shown below.



- Carefully release the CRUM Harness(with CRUM PBA) below the bottom of the Engine Shield in the direction of arrow.



- If necessary, remove the two screws securing the CRUM PBA and remove it, as shown below.

