

# 5. Disassembly and Reassembly

## 5.1 General Precautions on Disassembly

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

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

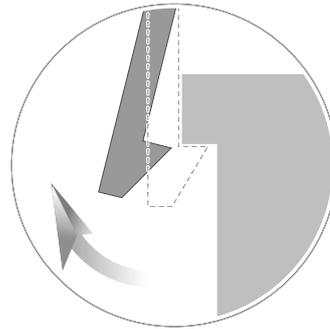
### Whenever servicing the machine, you must perform as follows:

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

### Releasing Plastic Latches

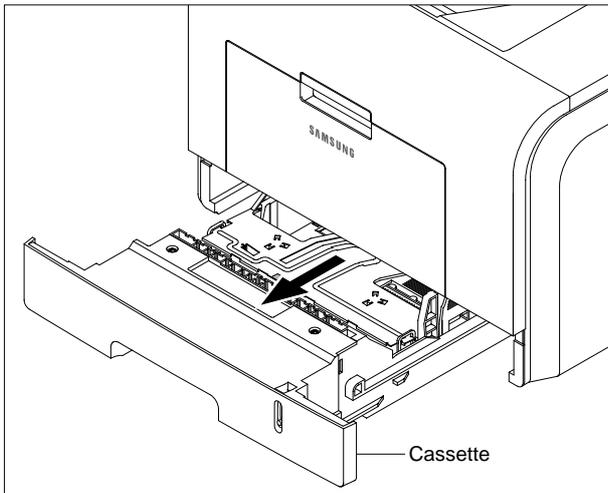
Many of the parts are held in place with plastic latches. The latches break easily; release them carefully.

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

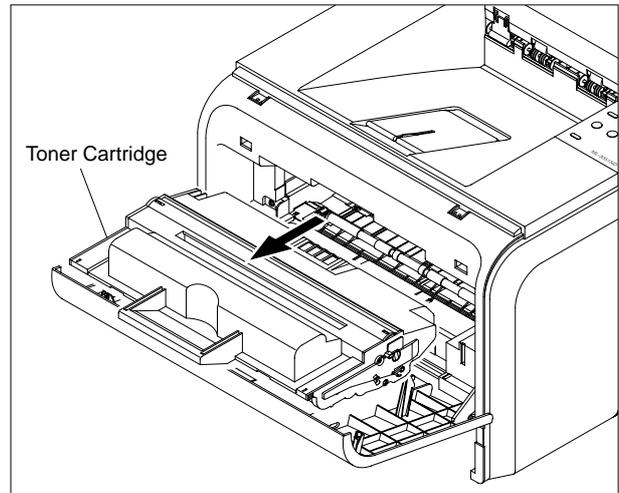


## 5.2 Front Cover

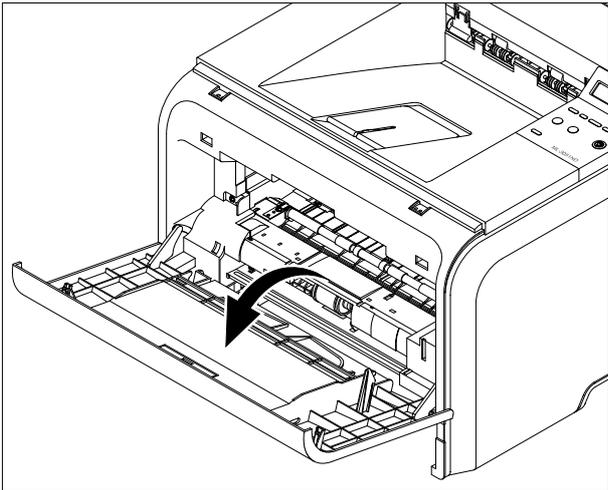
1. Take out the Cassette.



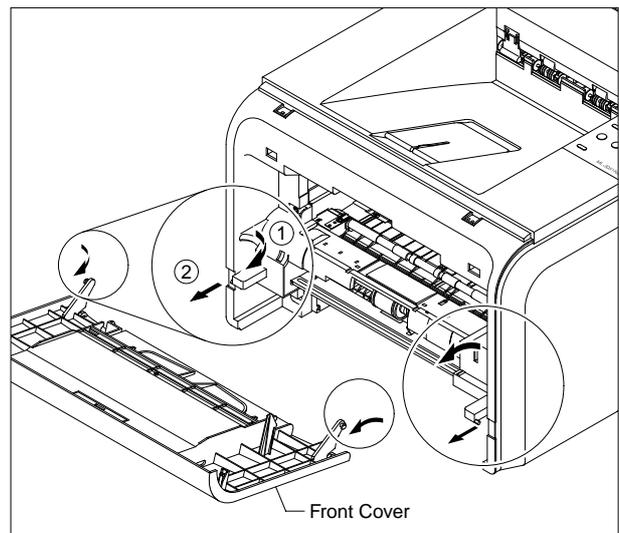
3. If necessary, remove the Toner Cartridge.



2. Open the Cover.

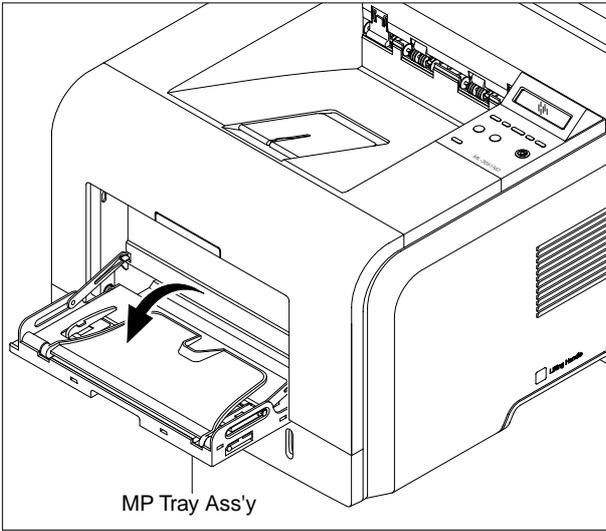


4. To remove the Front Cover, first pull the part below the both side of the Front Cover with a light pressure to the direction of arrow.

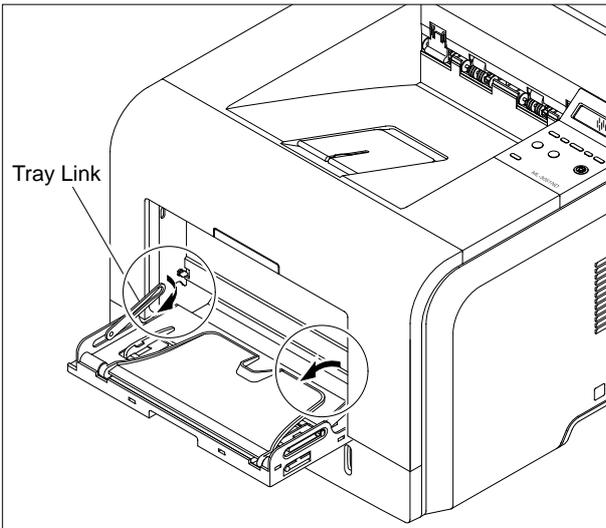


### 5.3 MP Tray Ass'y

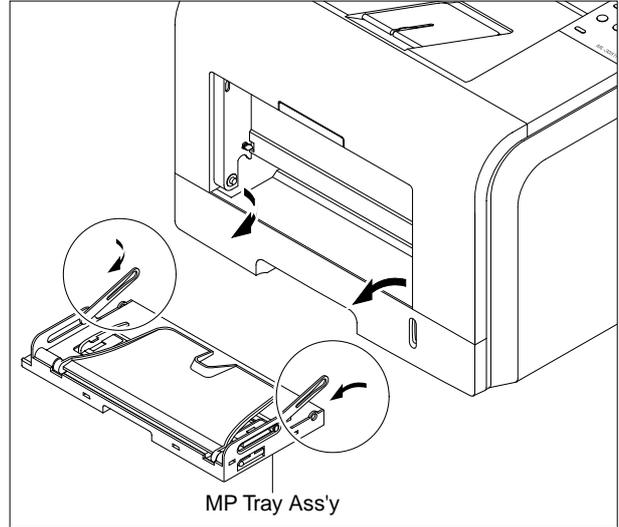
1. Open the MP Tray Ass'y



2. Pull the Tray Links from the both side of the Front Cover with a light pressure to the direction of arrow.

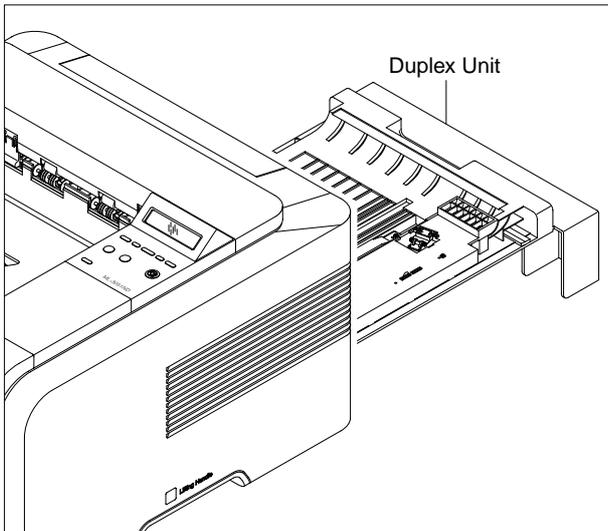


3. Apply light pressure to the both side of the MP Tray Ass'y and pull it in the direction of arrow, as shown below.

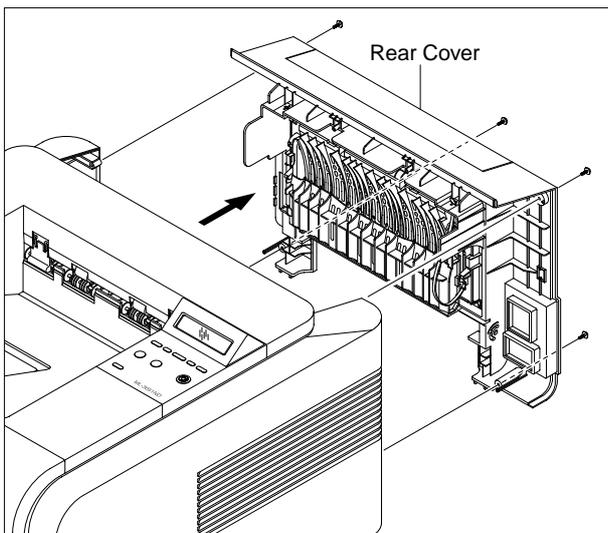


## 5.4 Rear Cover

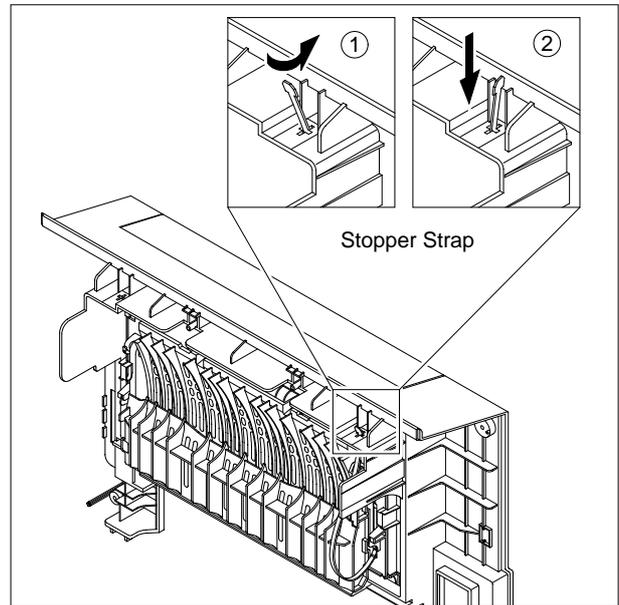
1. Take out the Duplex Unit.



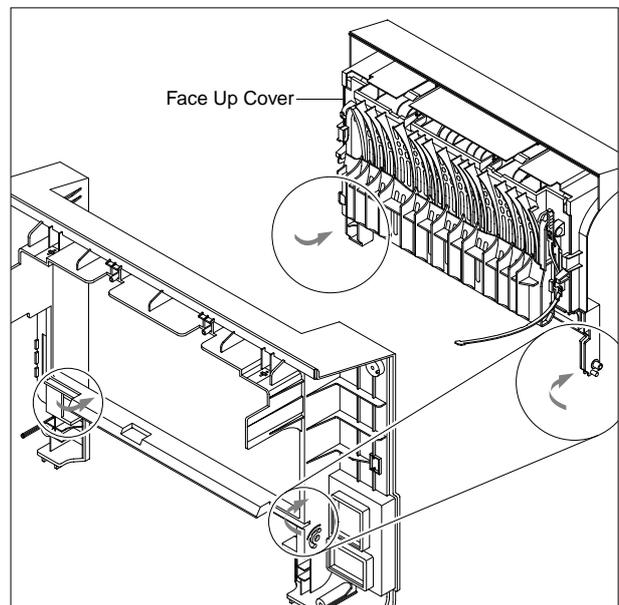
2. Remove the four screws securing the Rear Cover and then Release the Rear Cover from the Set.



3. To remove the Face Up Cover, first release the Stopper Strap in the direction of arrow.



4. Unlatch the Face Up Cover from the Rear Cover and then release the Face Up Cover, as shown below.

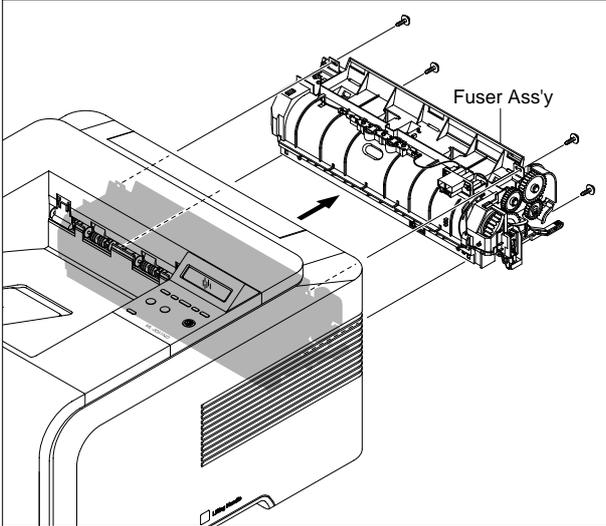


## 5.5 Fuser Ass'y

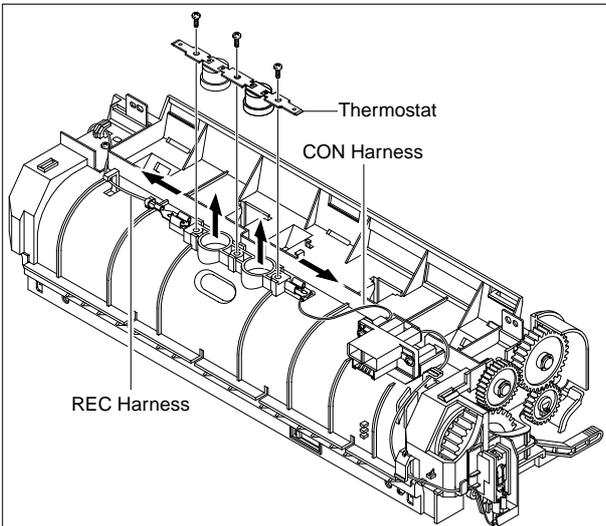
1. Before you remove the Fuser Ass'y, you should remove:

- Rear Cover (Refer to 5.4)

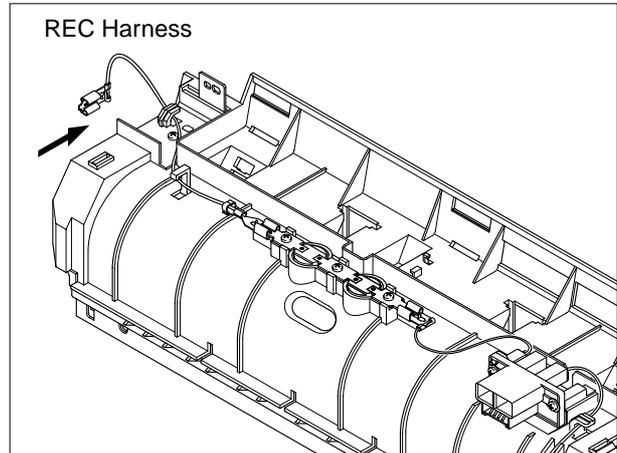
2. Remove the four screws securing the Fuser Ass'y and then pull the Fuser Ass'y.



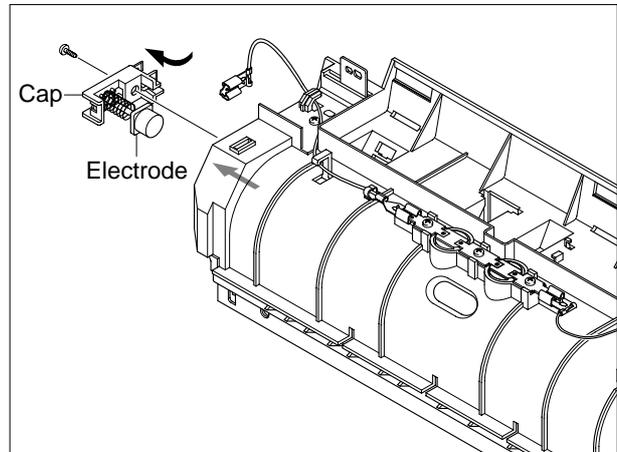
3. Release the CON Harness and REC Harness from the Thermostat and then remove the three screws securing the Thermostat and remove it.



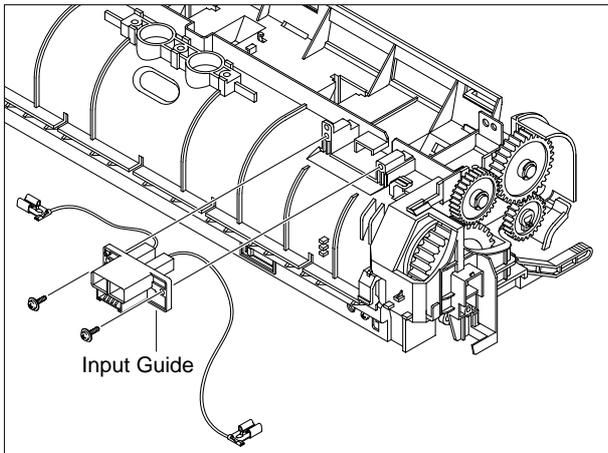
4. To remove the Electrodes, first release REC Harness from the left side of the Electrode and then release the CON Harness from the right side of the Electrode, as shown below.



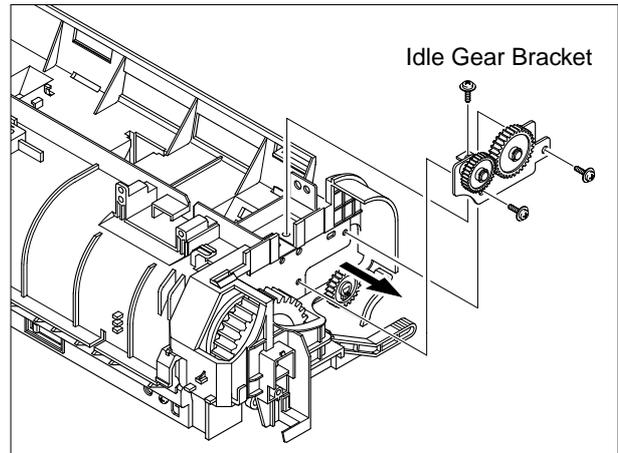
5. Remove the two screws securing the both side of the Electrode and then release the Caps and Electrodes in the direction of arrow, as shown below.



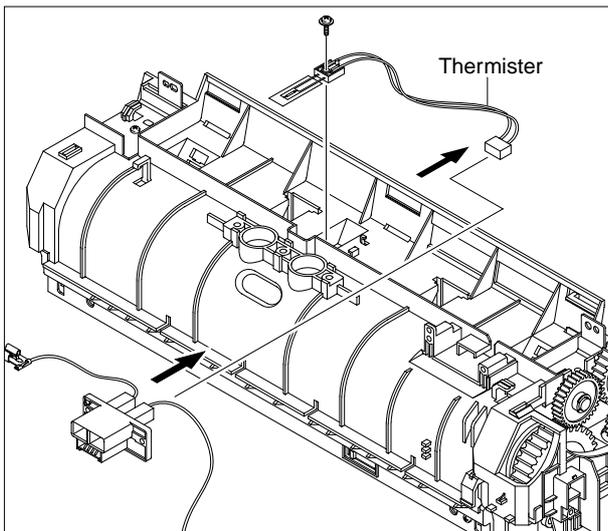
6. Remove the two screws securing the Input Guide and remove it.



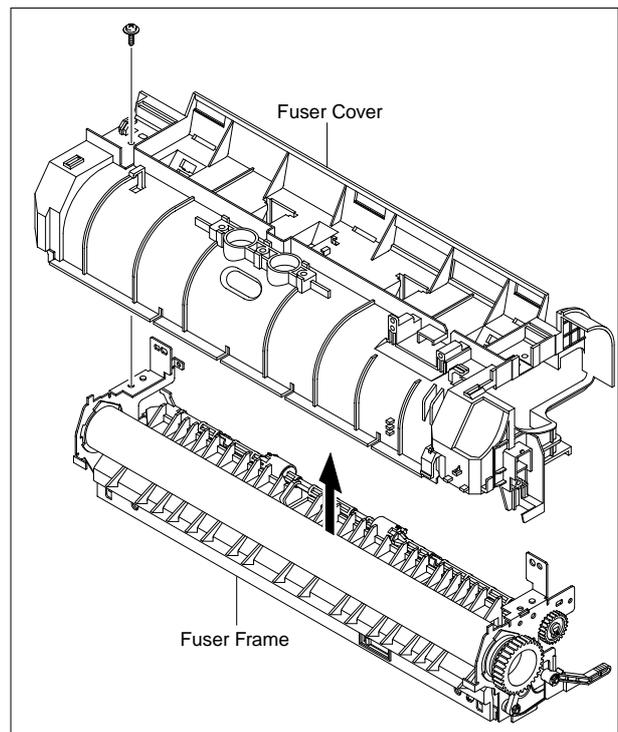
8. Remove the three screws securing the Idle Gear Bracket and remove it.



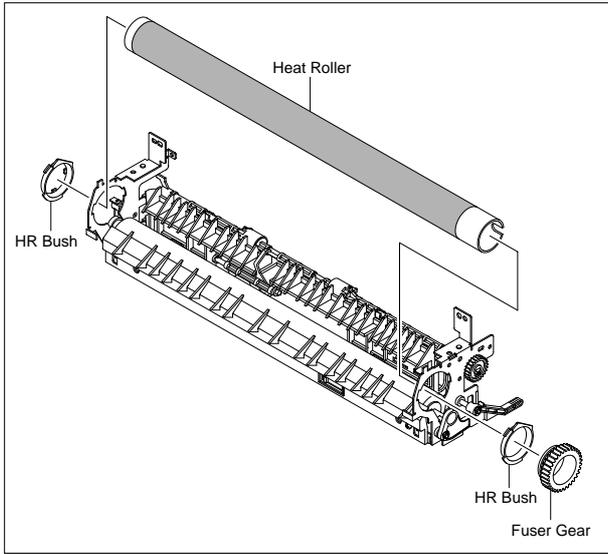
7. Unplug the connector from the Input Guide and remove the one screw securing the Thermistor and remove it.



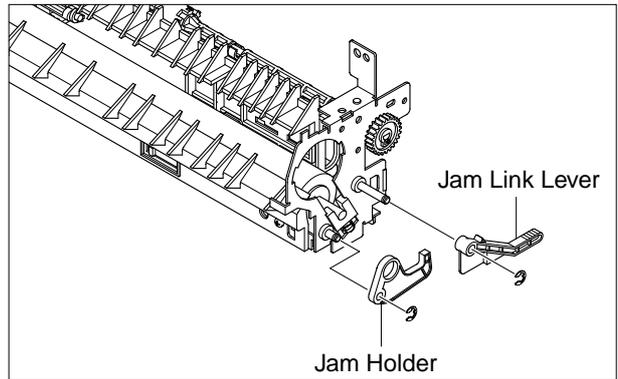
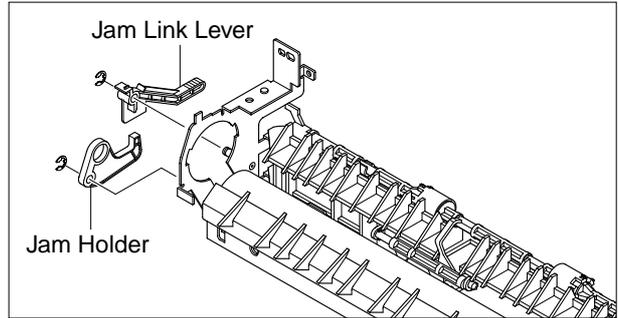
9. Remove the one screw securing the Fuser Cover and release the Fuser Cover from the Fuser Frame.



10. Release the Fuser Gear and HR Bush and then remove the Heat Roller, as shown below.



11. Remove the Jam Link Lever (L,R) and Jam Holder (L,R) and then remove the Pressure Roller, as shown below.

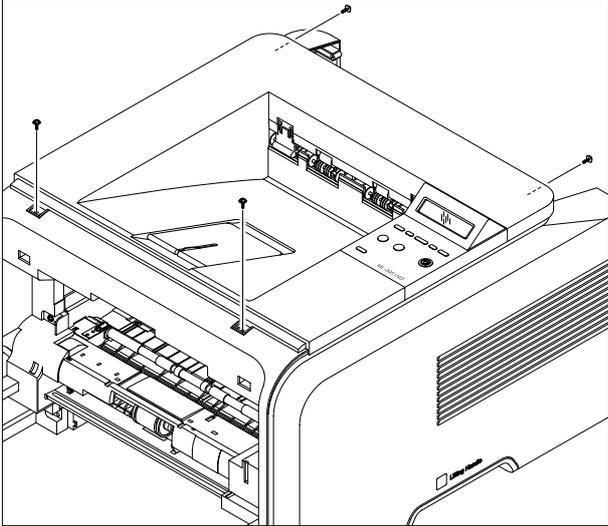


## 5.6 Top Cover

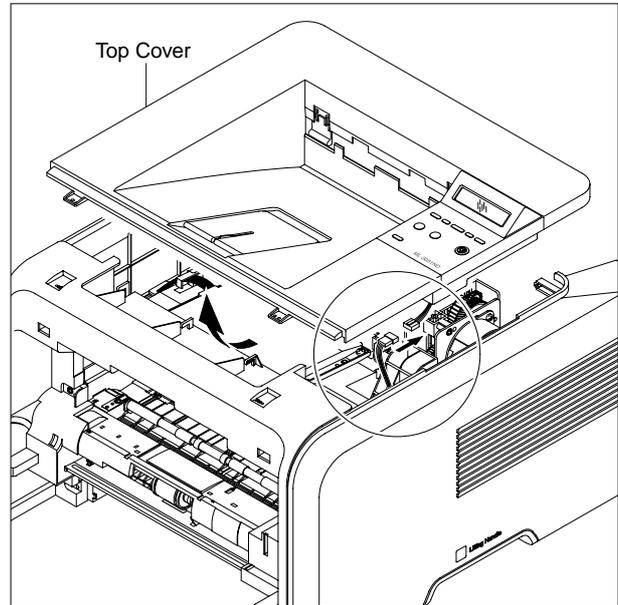
1. Before you remove the Top Cover, you should remove:

- Rear Cover (Left, Right) (Refer to 5.4)

2. Remove the four screws securing the Top Cover, as shown below.

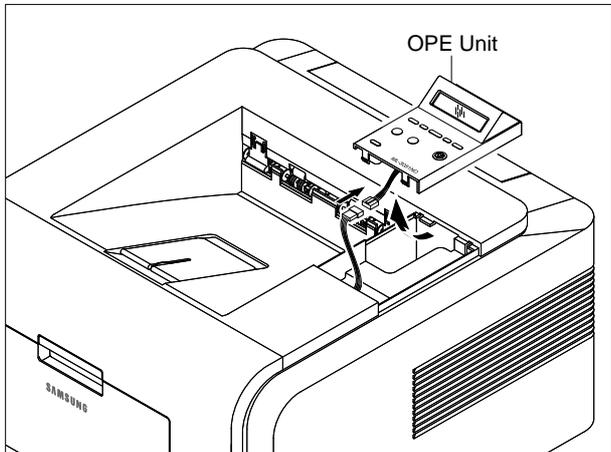


3. To remove the Top Cover, first lift the Top Cover with a light pressure to the direction of arrow. Then unplug the OPE Harness, as shown below.



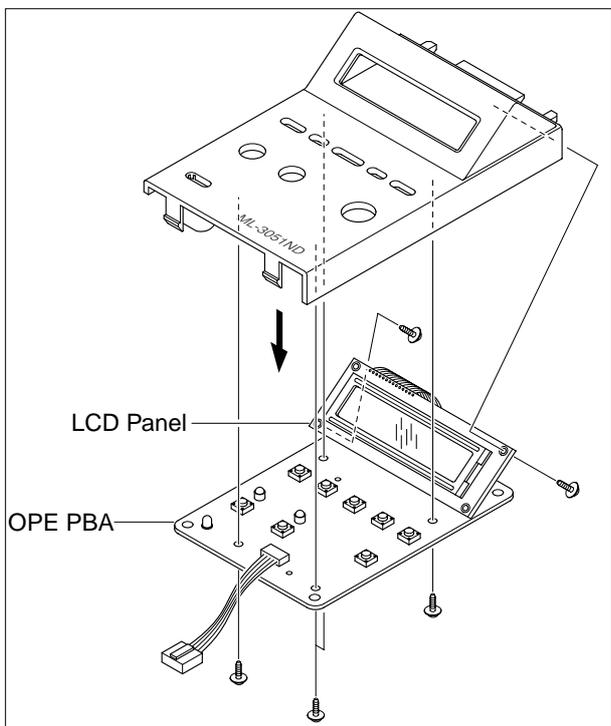
### 5.7 OPE Unit

1. To remove the OPE Unit, first lift the OPE Unit with a light pressure to the direction of arrow, Then unplug the OPE Harness, as shown below.

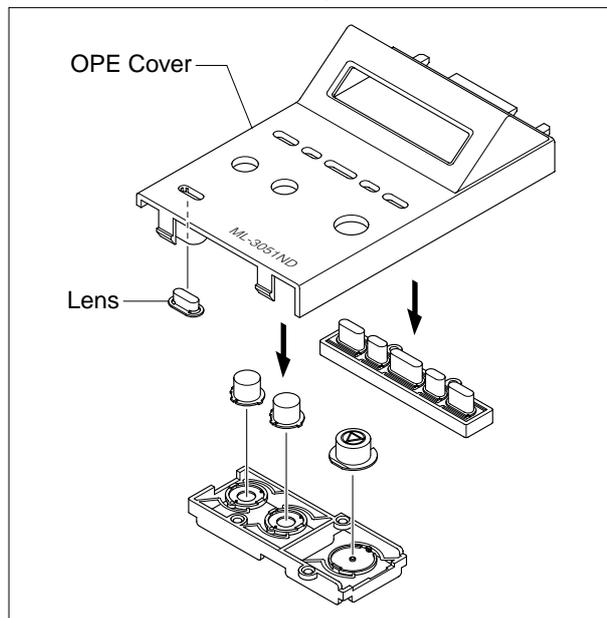


**Notice :** When reassembly the OPE Unit, hole inside of figure insert a harness.

2. Remove the six screws securing the OPE PBA and LCD Panel to the OPE Cover and remove it, as shown below.



3. Release the Lens and Keys from the OPE Cover.

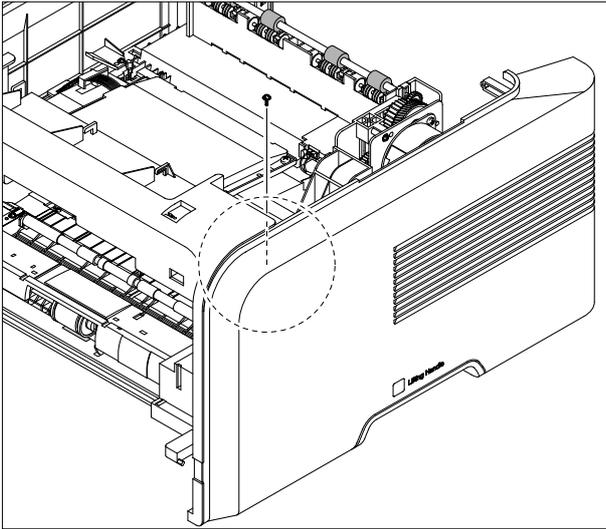


## 5.8 Side Cover (Left, Right)

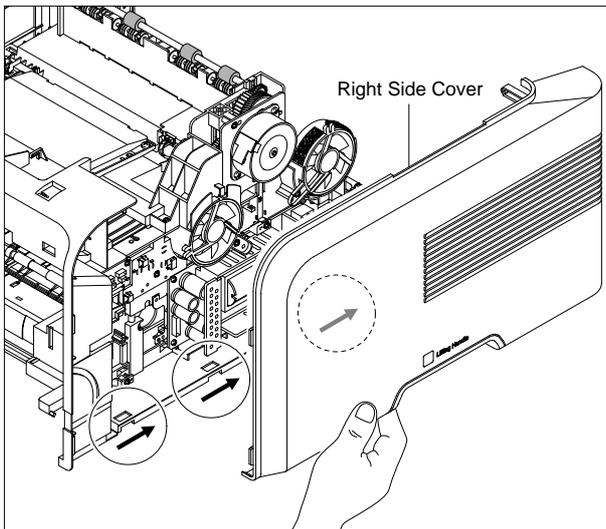
1. Before you remove the Side Cover (Left, Right), you should remove:

- Rear Cover (Refer to 5.4)
- Top Cover (Refer to 5.6)

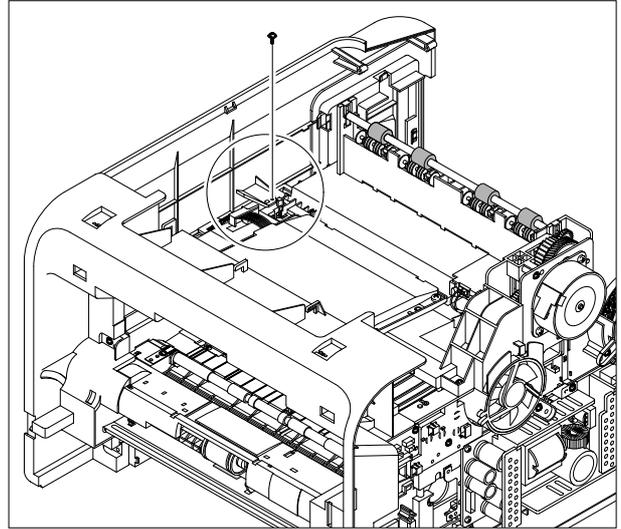
2. Remove the one screw securing the Right Side Cover, as shown below.



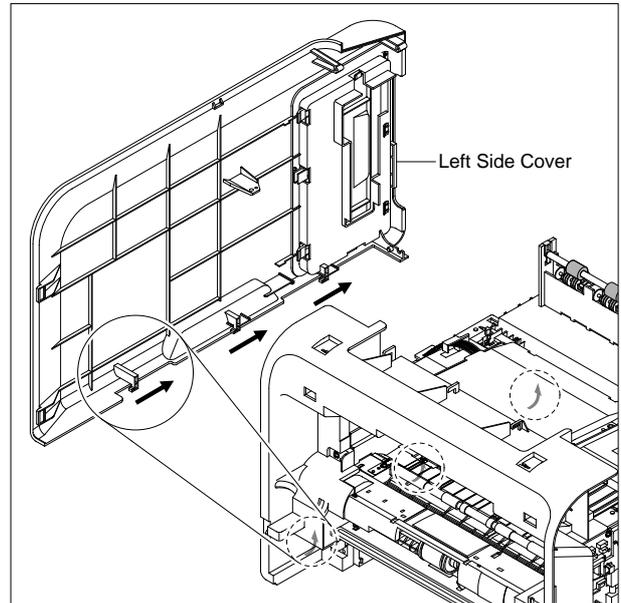
3. Apply light pressure to the bottom of the Right Side Cover and pull it to the right side in the direction of arrows, as shown below.



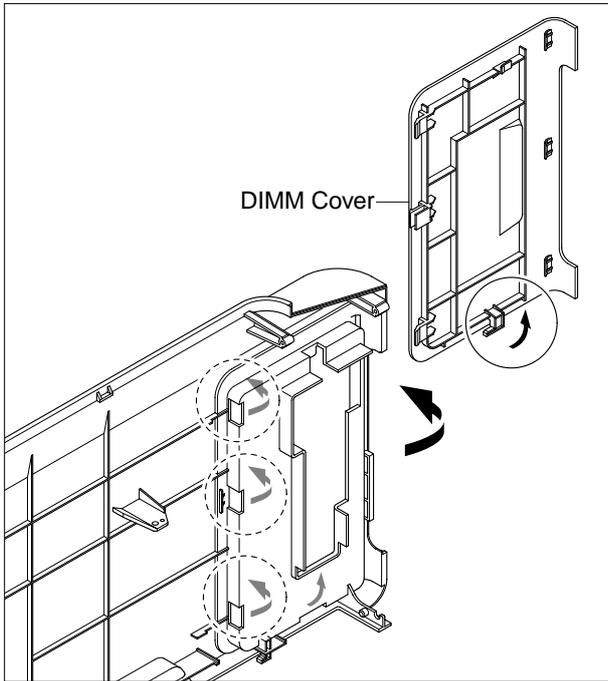
4. Remove the one screw securing the Left Side Cover, as shown below.



5. Apply light pressure to the bottom of the Left Side Cover and pull it to the left side in the direction of arrows, as shown below.



6. If necessary, pull the DIMM Cover in the direction of arrow and remove it, as shown below.

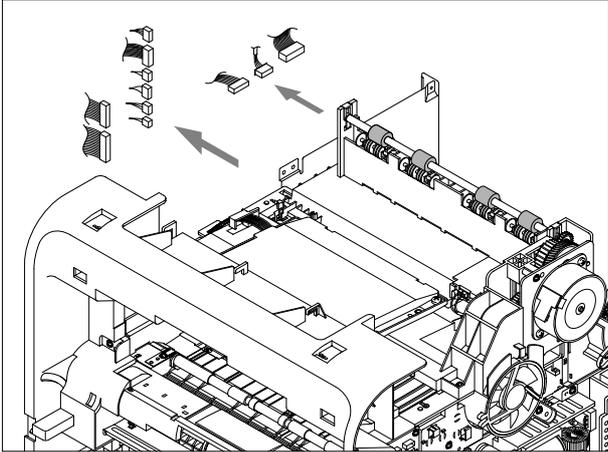


**Notice :** Be careful not to damage the hooks when remove the Side Cover (Left, Right).

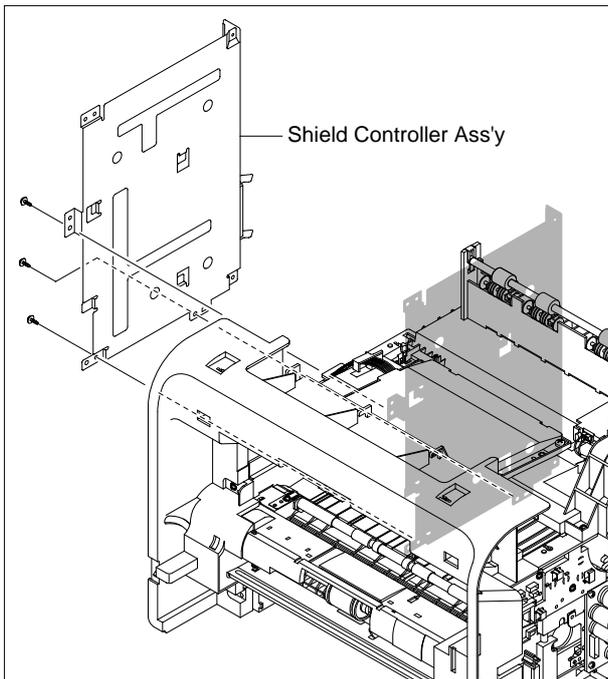
## 5.9 Shield Controller Ass'y

1. Before you remove the Shield Controller Ass'y, you should remove:
  - Side Cover Left (Refer to 5.8)

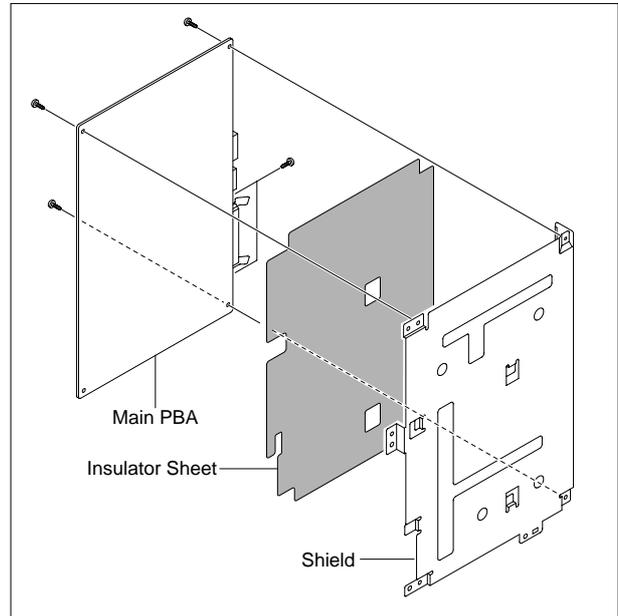
2. Unplug the all connectors from the Main PBA.



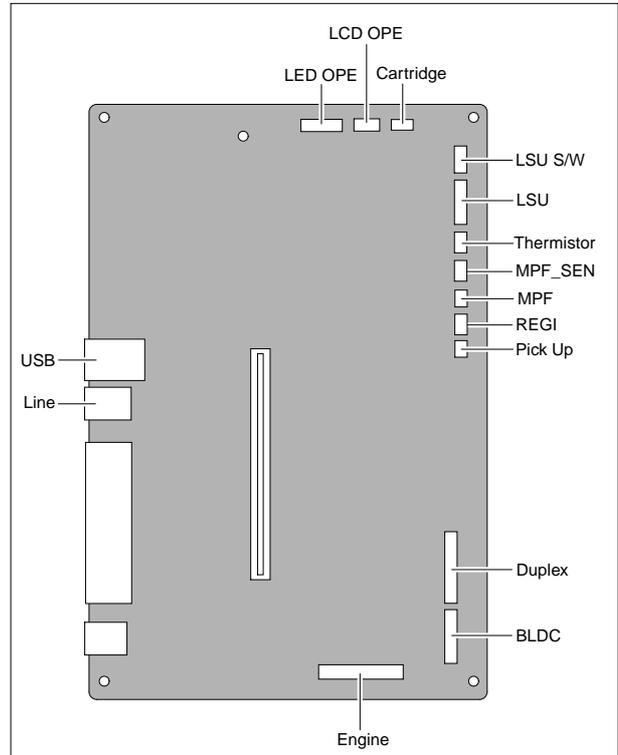
3. Remove the three screws securing the Shield Controller Ass'y and remove it.



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



5. The connectors are located, as shown below.

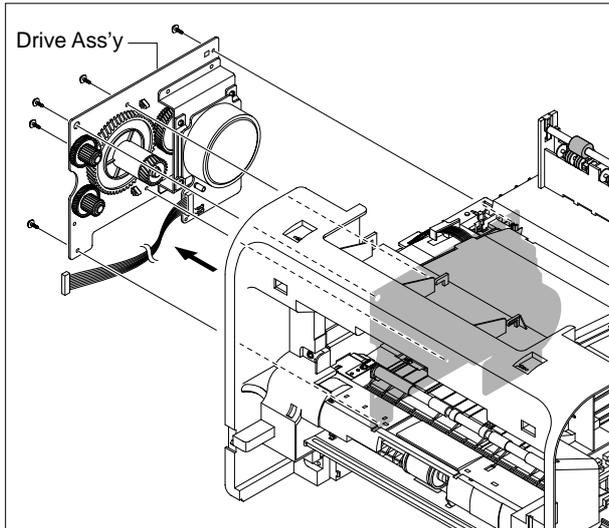


## 5.10 Drive Ass'y

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

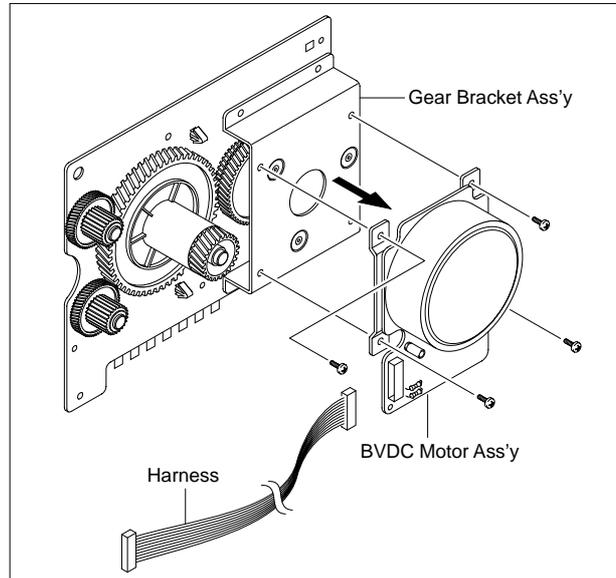
- Side Cover Left (Refer to 5.8)

2. Remove the six screws securing the Drive Ass'y and remove it.



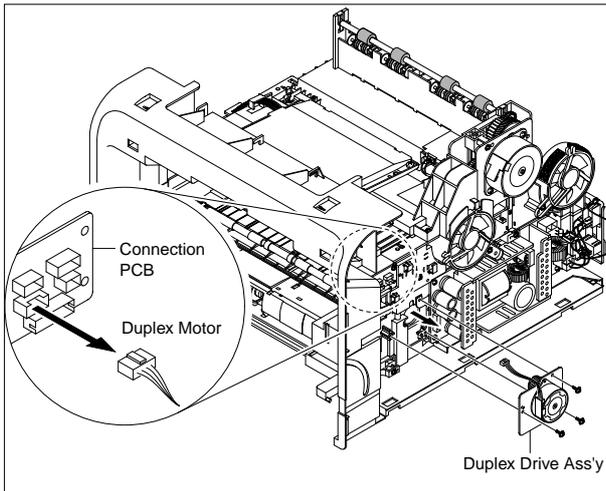
**Notice :** The six screws have numbers stamped into the Drive Ass'y base plate. When refitting the Drive Ass'y tighten the screws the order they are numbered. Only screws numbered 1 to 5 are fitted at this stage. Screw 6 is fitted when the Shield Controller Ass'y is refitted.

3. If necessary, remove the four screws securing the BVDC Motor Ass'y and remove it.

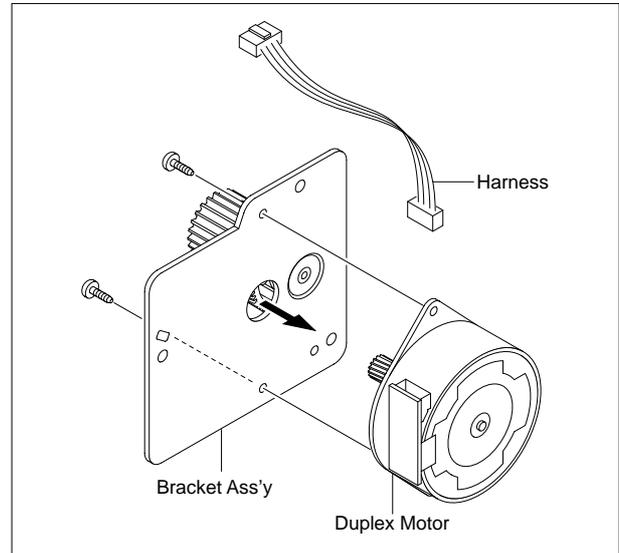


## 5.11 Duplex Drive Ass'y

1. Before you remove the Duplex Drive Ass'y, you should remove:
  - Side Cover Right (Refer to 5.8)
2. Unplug the connector from the Connection PCB and remove the three screws securing the Duplex Drive Unit and remove it.

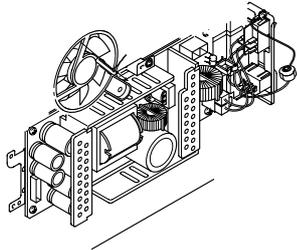


3. If necessary, remove the two screws securing the Duplex Motor and remove it.



## 5.12 Shield SMPS Ass'y

1. Before you remove the Shield SMPS Ass'y, you should remove:
  - Side Cover Right (Refer to 5.8)
  - Duplex Drive Ass'y (Refer to 5.11)
2. Unplug the two connectors (HVPS, Fuser).
3. Remove the three screws securing the Shield SMPS Ass'y and remove it.
4. Unplug the connector (AC Inlet) and remove the four screws securing SMPS and remove it.



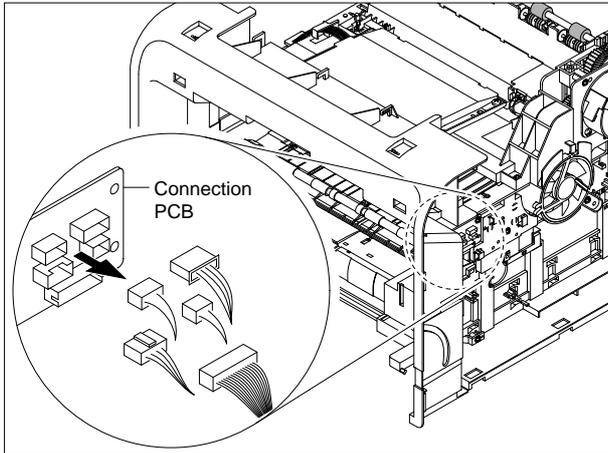
3. Remove the three screws securing the Shield SMPS Ass'y and remove it.

## 5.13 Connection PCB

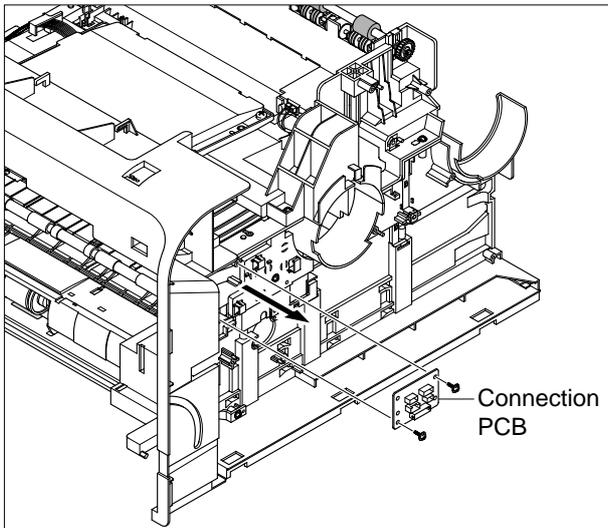
1. Before you remove the Connection PCB, you should remove:

- Side Cover Right (Refer to 5.8)

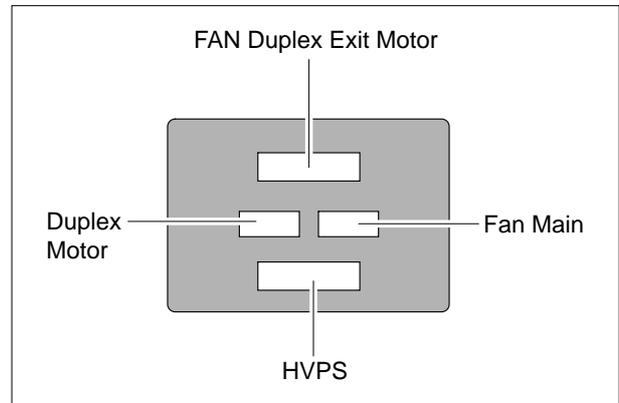
2. Unplug the all connectors.



3. Remove the two screws securing the Connection PCB and remove it.



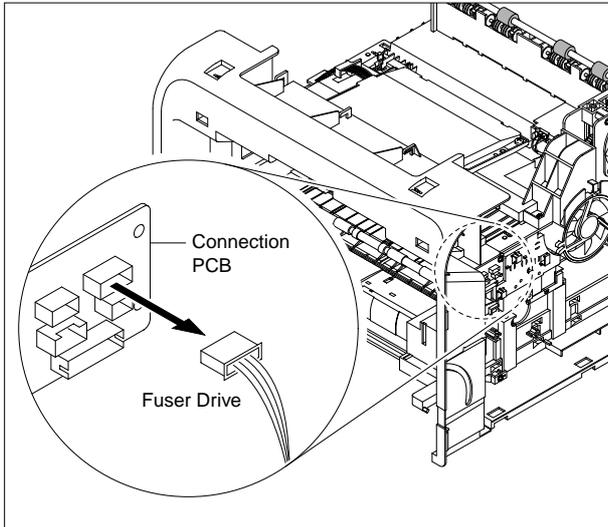
4. The connectors are located, as shown below.



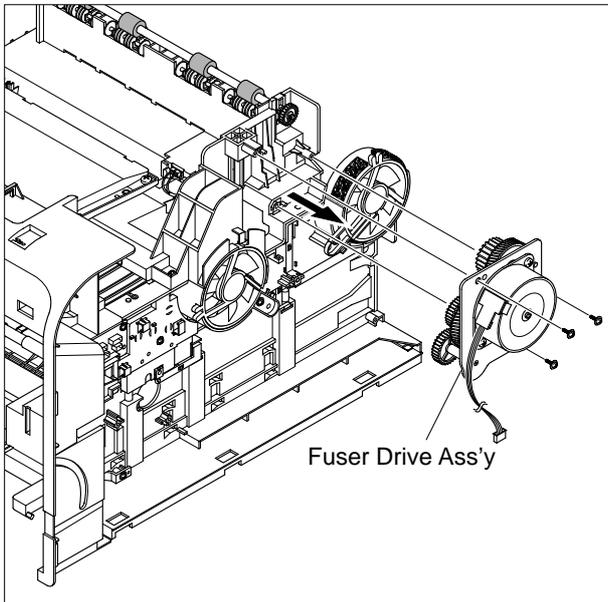
## 5.14 Fuser Drive Ass'y

1. Before you remove the Fuser Drive Ass'y, you should remove:
  - Side Cover Right (Refer to 5.8)

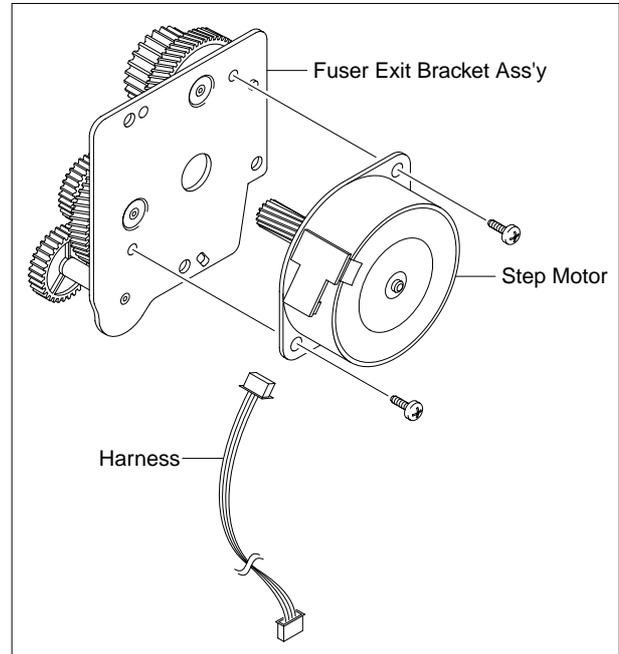
2. Unplug the connector from the Connection PCB.



3. Remove the three screws securing the Fuser Drive Ass'y and remove it.

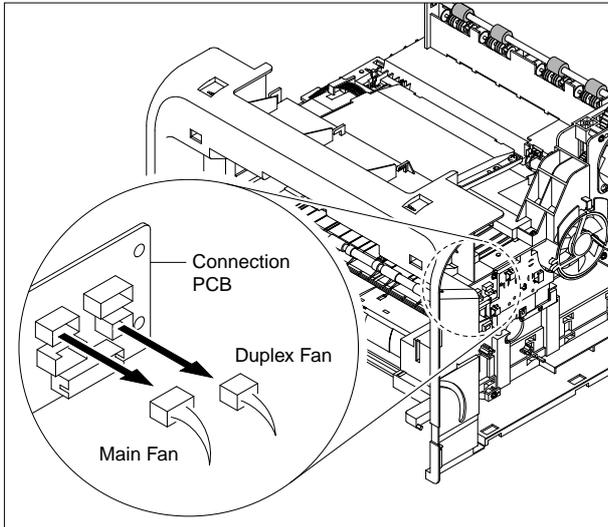


4. If necessary, remove the two screws securing the Step Motor and remove it.

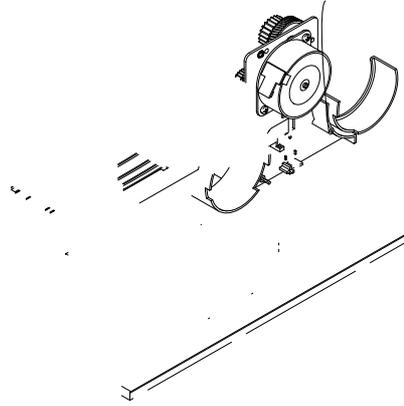


## 5.15 Fan

1. Before you remove the Fan, you should remove:
  - Side Cover Right (Refer to 5.8)
2. Unplug the two connectors from the Connection PCB, as shown below.

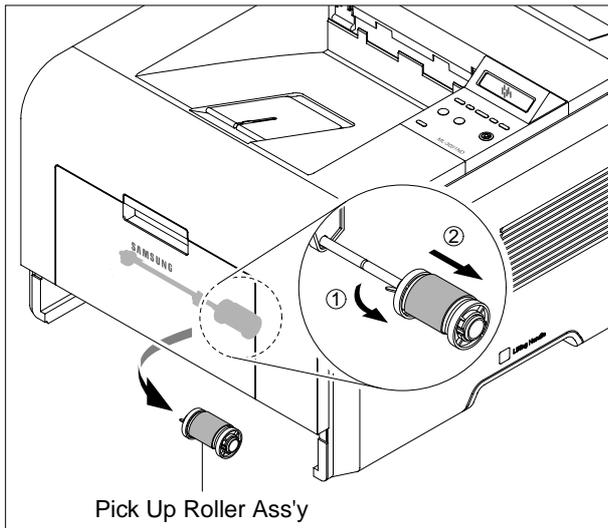


3. Remove the two screws securing the Fans and then pull the Fans (Main, Duplex).

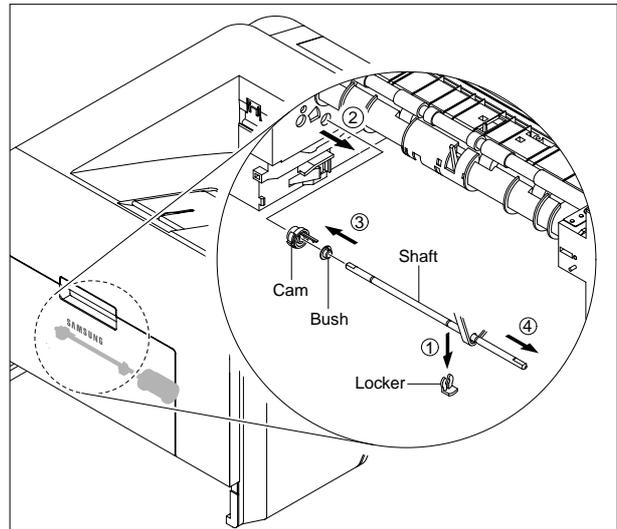


## 5.16 Pick Up Roller Ass'y

1. Take out the Cassette.
2. To remove the Pick Up Roller Ass'y, first lift the notch attached to the Pick Up Roller Ass'y from the Shaft, then slide the Pick Up Roller Ass'y from left to right and it will be released completely, as shown below.

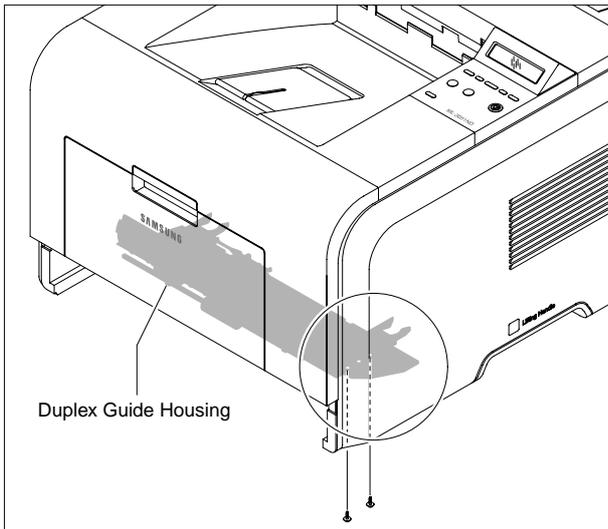


3. To remove the Shaft, first release the locker and slide the Shaft from left to right, then lift the notch attached to the Cam so that it's released from the Shaft. Then release the Bush from the Shaft and remove the Shaft from the Duplex Guide Housing, as shown below.

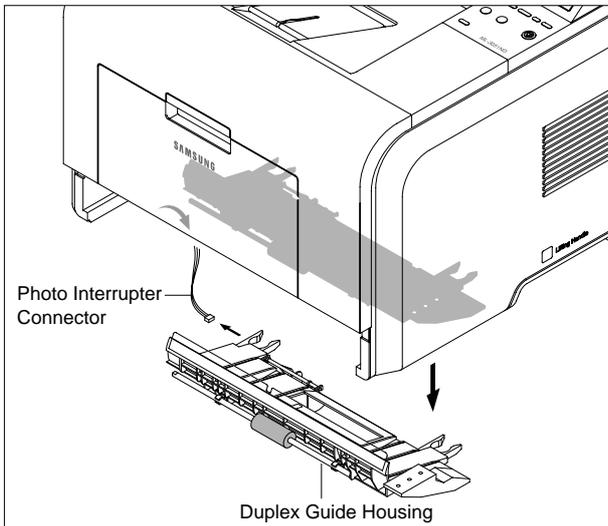


## 5.17 Duplex Guide Housing (With Feed Roller)

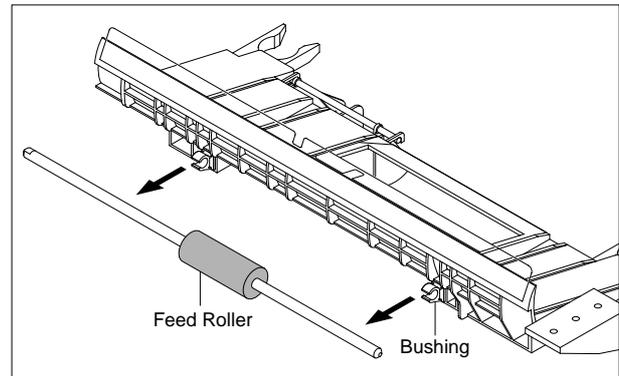
1. Before you remove the Duplex Guide Housing, you should remove:
  - Pick Up Roller Ass'y (Refer to 5.16)
2. Remove the two screws securing the Duplex Guide Housing.



3. Unplug the one connector (Photo Interrupter) and remove the Duplex Guide Housing (with Feed Roller), as shown below.



4. Pull the Feed Roller from the Bushing.

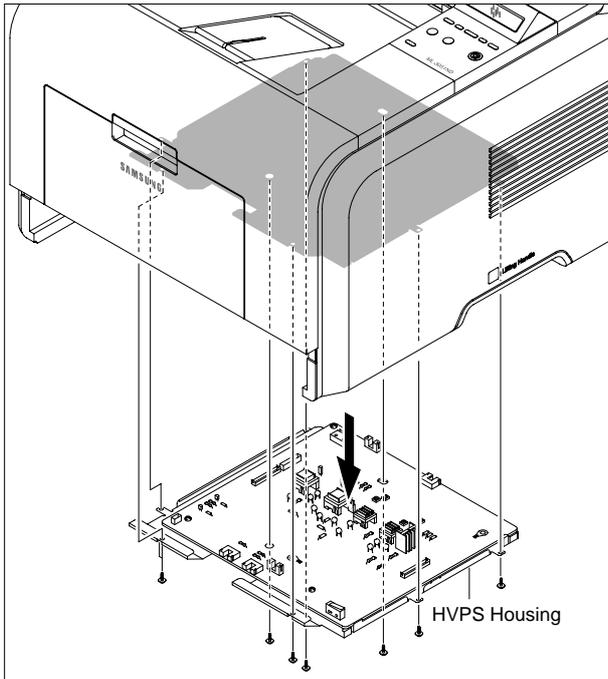


## 5.18 HVPS Housing

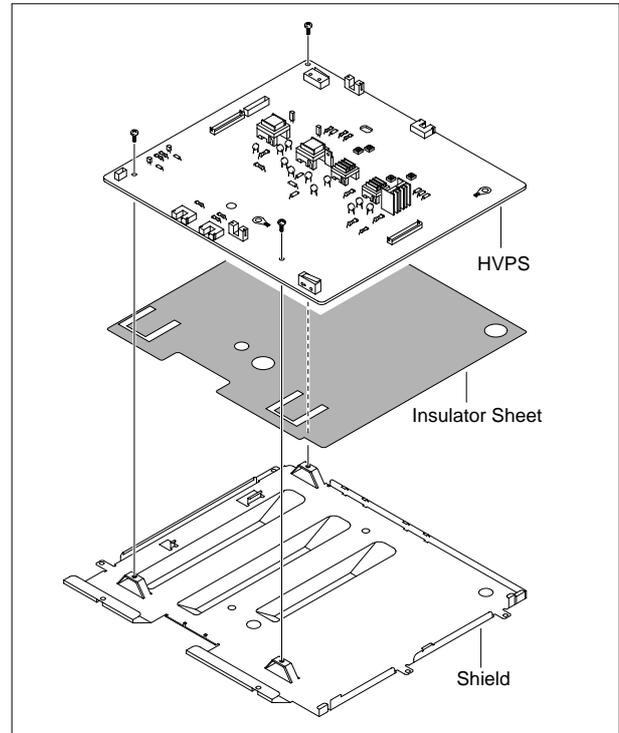
1. Before you remove the HVPS Housing, you should remove:

- Pick Up Roller Ass'y (Refer to 5.16)
- Duplex Guide Housing (Refer to 5.17)

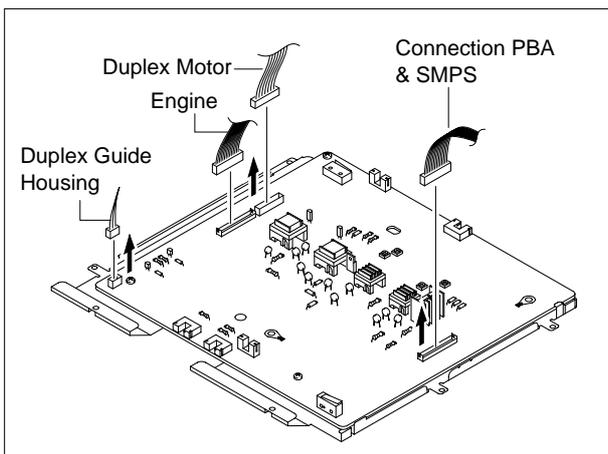
2. Remove the eight screws securing the HVPS Housing, as shown below.



4. If necessary, remove the three screws securing the HVPS and remove it.



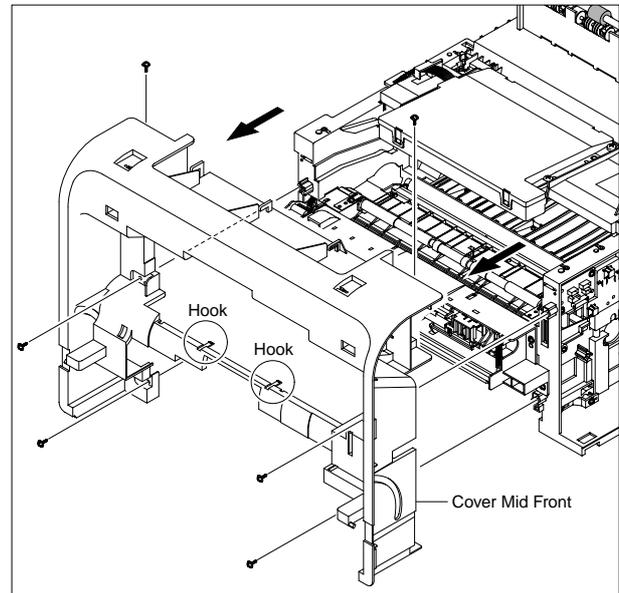
3. Unplug the all connectors and remove the HVPS Housing, as shown below.



## 5.19 Cover Mid Front

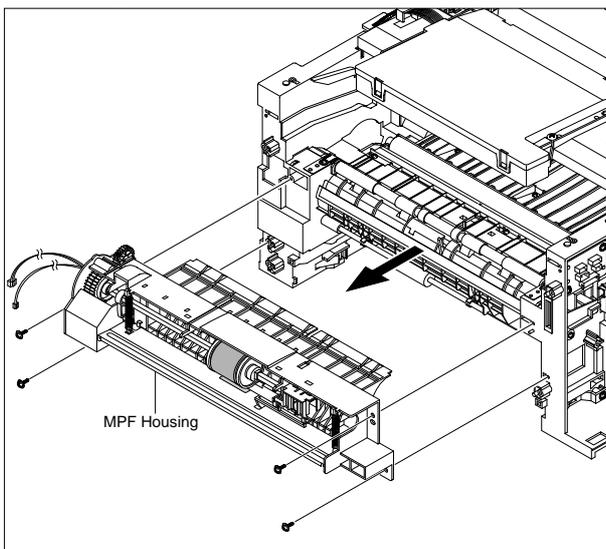
- Before you remove the Cover Mid Front, you should remove:
  - Top Cover (Refer to 5.6)
  - Side Cover (Refer to 5.8)

- Remove the six screws securing the Cover Mid Front and release two hooks in the center. This cover is fragile take care when removing it.

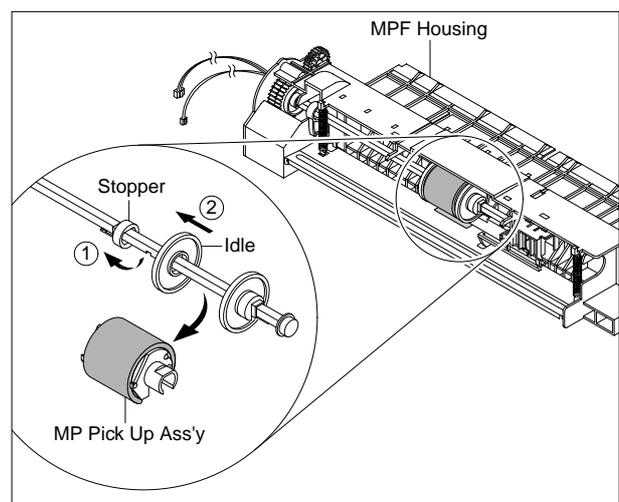


## 5.20 MPF Housing

- Before you remove the MPF Housing, you should remove:
  - Cover Mid Front (Refer to 5.19)
- Remove the four screws securing the MPF Housing and remove it.



- To remove the MP Pick Up Ass'y, first lift the notch attached to the left side Stopper so that it's slide the right to left from the Shaft, then left side Idle slid the right to left from the Shaft and take out the MP Pick Up Ass'y, as shown below.

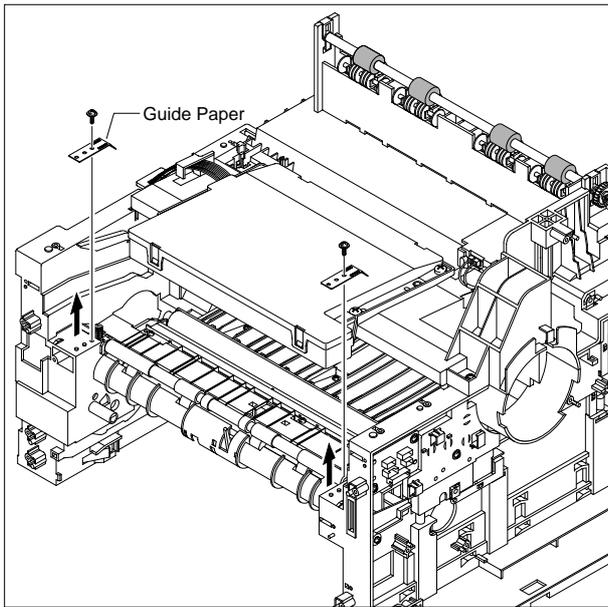


## 5.21 Feed Roller Parts

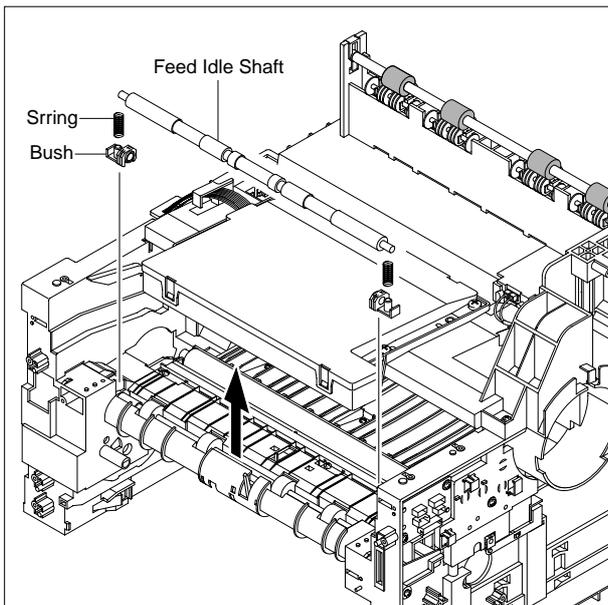
1. Before you remove the Feed Roller Parts, you should remove:

- Pick Up Roller Ass'y (Refer to 5.16)
- Duplex Guide Housing (Refer to 5.17)
- Middle Cover Ass'y (Refer to 5.19)
- MPF Housing (Refer to 5.20)

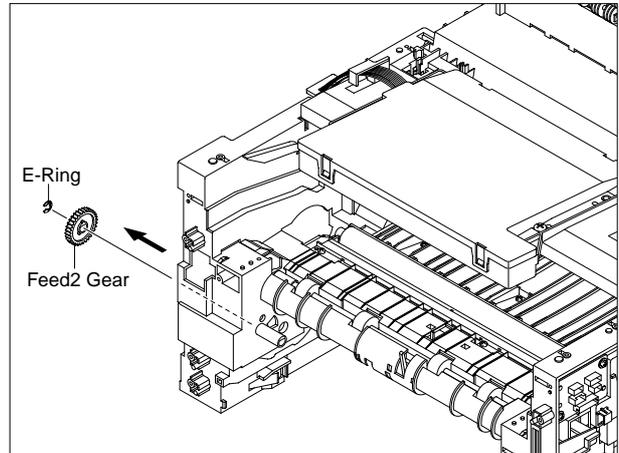
2. Remove the two screws securing the both side of the Guide Paper and then remove the Guides.



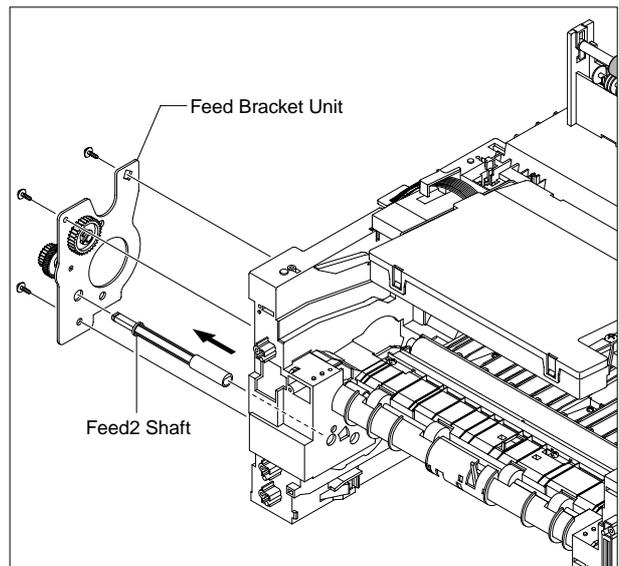
3. Pull up the Feed Idle Shaft and the Bushs (with Spring).



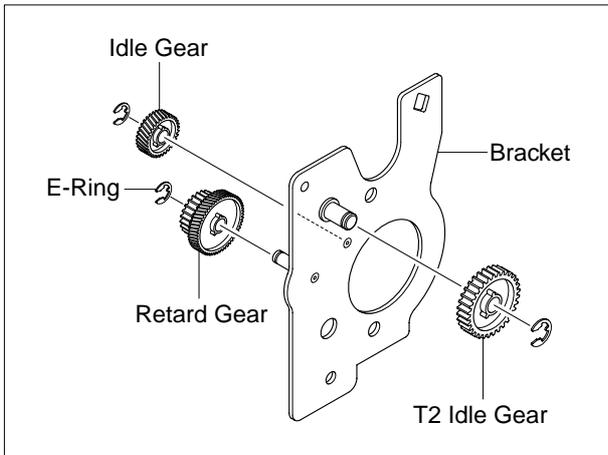
4. Release the E-Ring securing the Feed2 Gear and remove it.



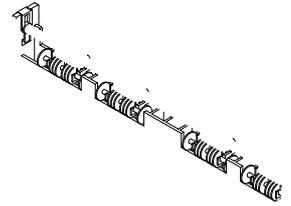
5. Remove the three screws securing the Feed Bracket Unit and then remove the Feed Bracket Unit and Feed2 Shaft.



6. If necessary, release the three E-Rings securing the Gears (T2 Idle, Retard, Idle) and then remove the Gears from the Feed Bracket, as shown below.

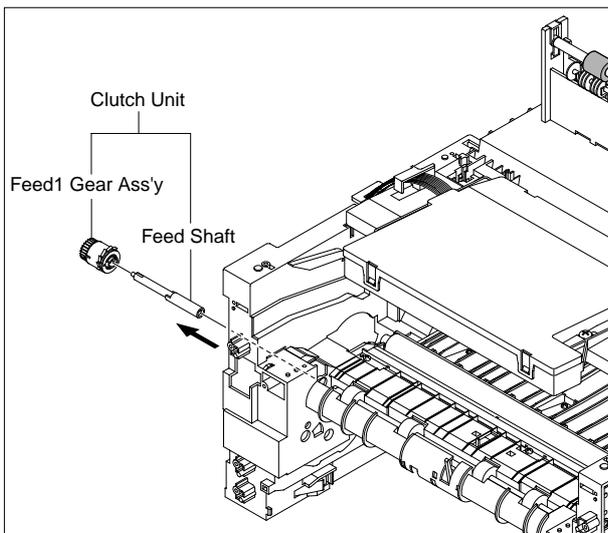


8. Pull up the Feed1 Roller from the Bushing, as shown below.



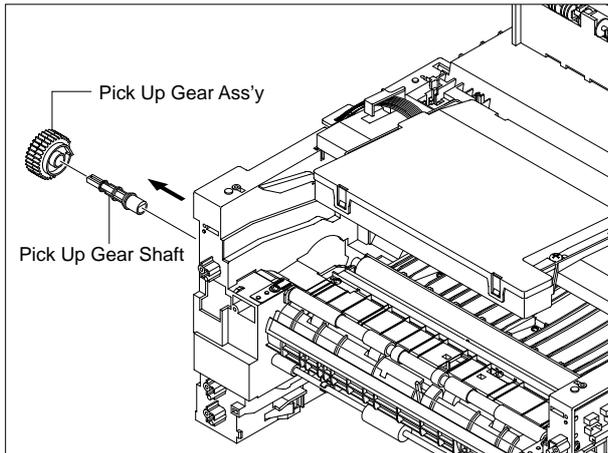
**Notice :** Be aware of the E-Rings to ensure they are not lost.

7. Remove the Clutch Unit, as shown below.

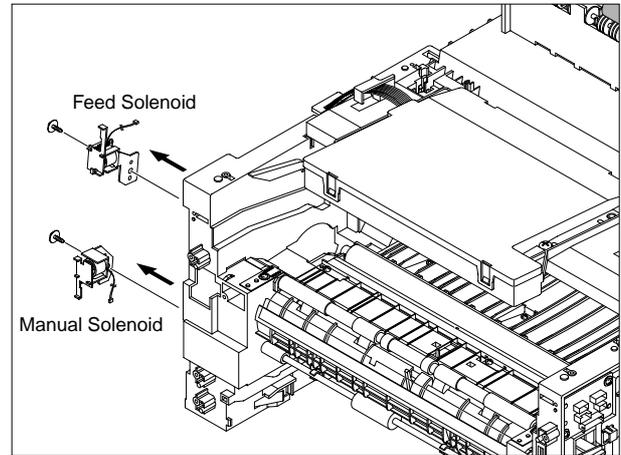


## 5.22 Pick Up Gear Ass'y & Solenoids

- Before you remove the Pick Up Gear Ass'y & Solenoids, you should remove:
  - Duplex Guide Housing (Refer to 5.17)
  - Feed Bracket Unit (Refer to 5.21.5)
- Release the Pick Up Gear Ass'y and Pick Up Gear Shaft, as shown below.



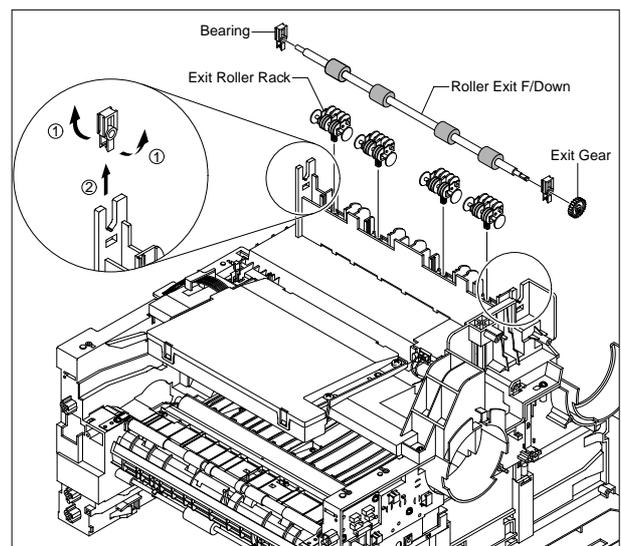
- Remove the two screws securing the Manual Solenoid and Feed Solenoid and then remove the Solenoids, as shown below.



## 5.23 Exit Roller

- Before you remove the Exit Roller, you should remove:
  - Top Cover (Refer to 5.6)
  - Side Cover (Refer to 5.8)
  - Fuser Drive Ass'y (Refer to 5.14)

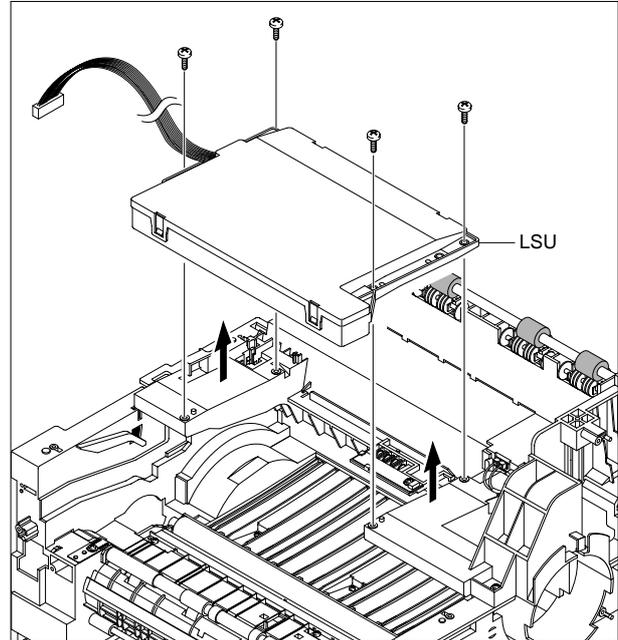
- Remove the Exit Gear, and release the Bearing at one end then remove the Roller Exit F/Down and Exit Roller Rack, as shown below.



## 5.24 LSU

- Before you remove the LSU, you should remove:
  - Top Cover (Refer to 5.6)
  - Side Cover (Refer to 5.8)

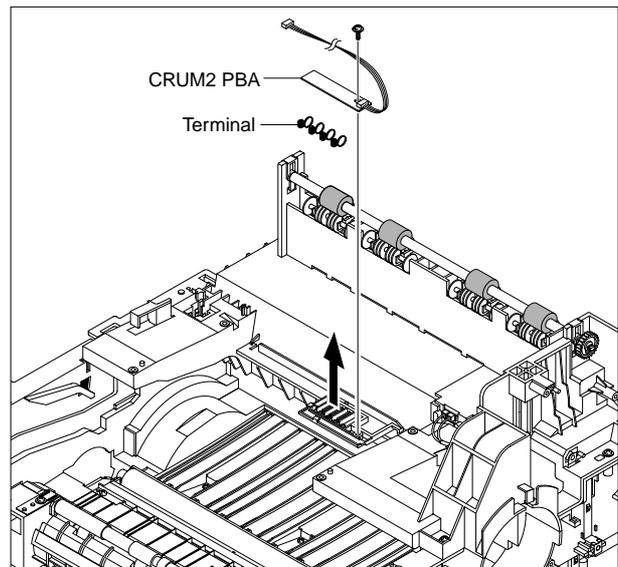
- Remove the four screws securing the LSU and remove it.



## 5.25 TERMINAL

- Before you remove the CRUM2 PBA, you should remove:
  - Top Cover (Refer to 5.6)
  - Side Cover (Refer to 5.8)
  - LSU (Refer to 5.24)

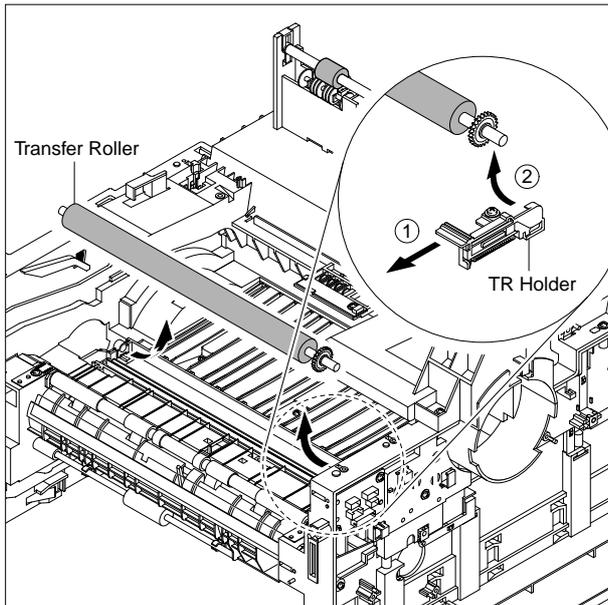
- Remove the one screw securing the CRUM2 PBA and remove it and then release the four Terminals, as shown below.



**Notice :** Be aware of the Terminals to ensure they are not lost.

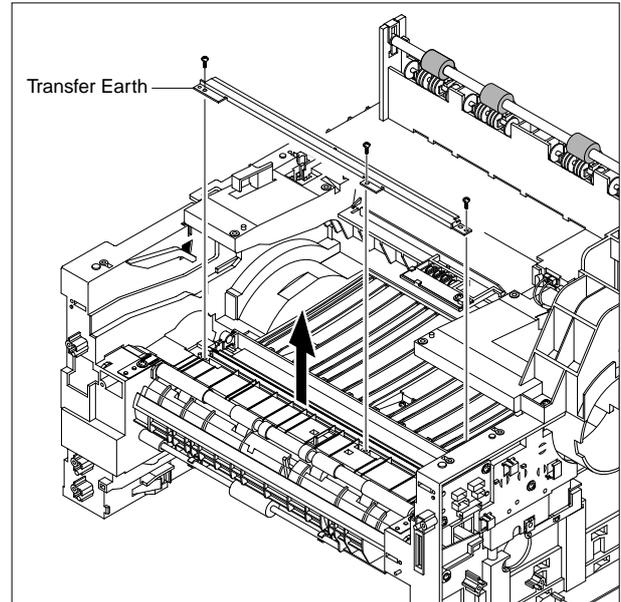
## 5.26 Transfer Roller and PTL Holder

- Before you remove the Transfer Roller Parts, you should remove:
  - Top Cover (Refer to 5.6)
  - Side Cover (Refer to 5.8)
  - LSU (Refer to 5.24)
- To remove the Transfer Roller, first pull the TR Holder and then take out the Transfer Roller, 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.

- Remove the three screws securing the Transfer Earth and remove it.



- Release the PTL Holder, as shown below.

