5. Disassembly and Reassembly

5.1 General Precautions on Disassembly

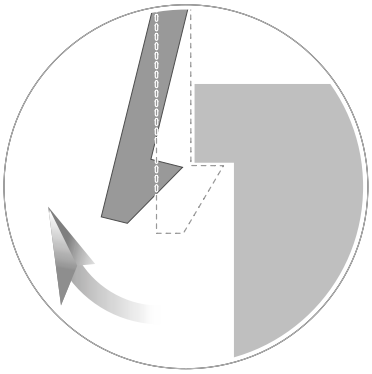
When you disassemble and reassemble components, you must use extreme caution. The close proximity of cables to moving parts makes proper routing a must.
If components are removed, any cables disturbed by the procedure must be restored as close as possible to their original positions. Before removing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

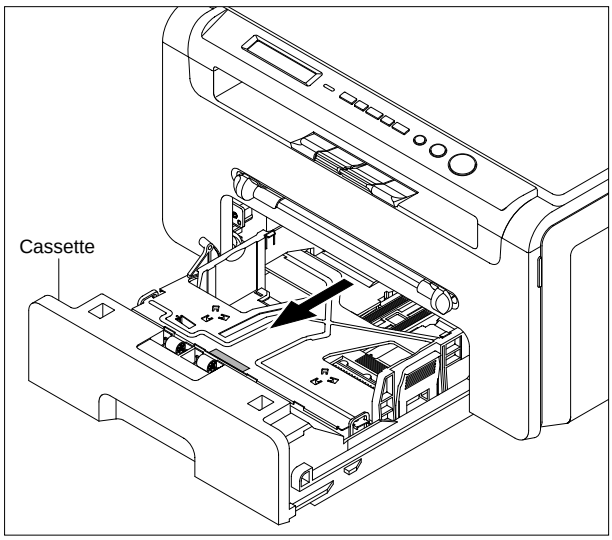
Releasing Plastic Latches

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.

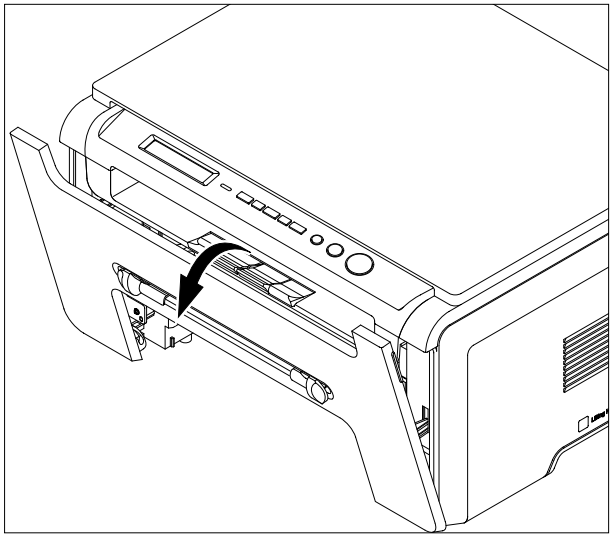


5.2 Front Cover

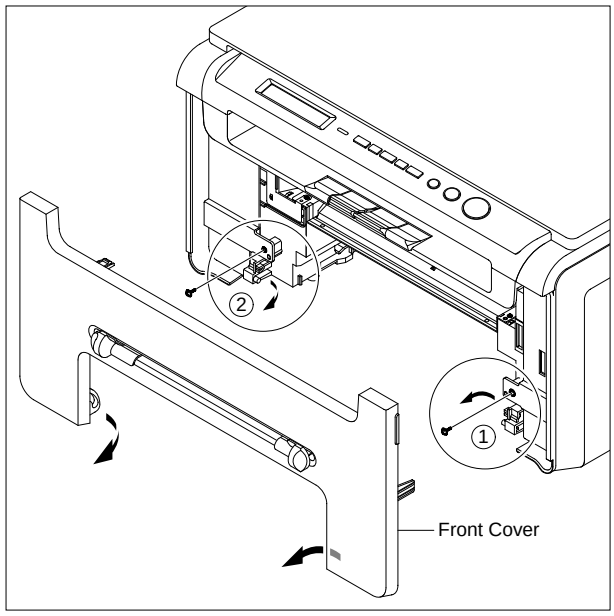
1. Take the Cassette out of the printer.



2. Open the Front Cover.

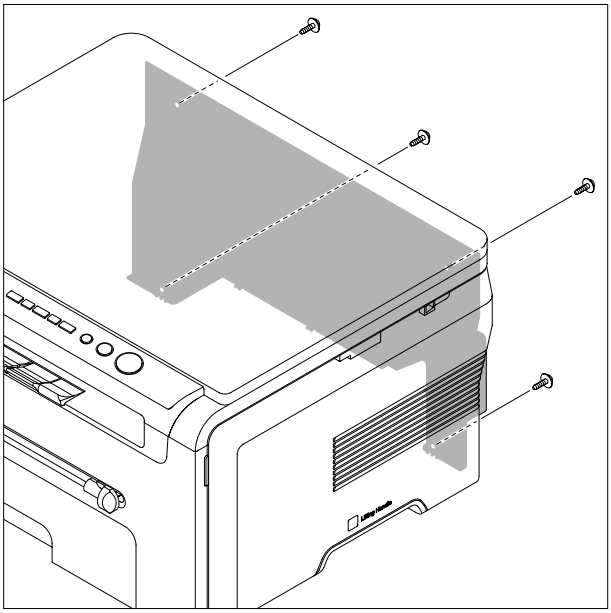


3. To remove the Front Cover, first pull the part below the right side of the Front Cover with a light pressure to the direction of arrow and then remove the Front Cover, as shown below.

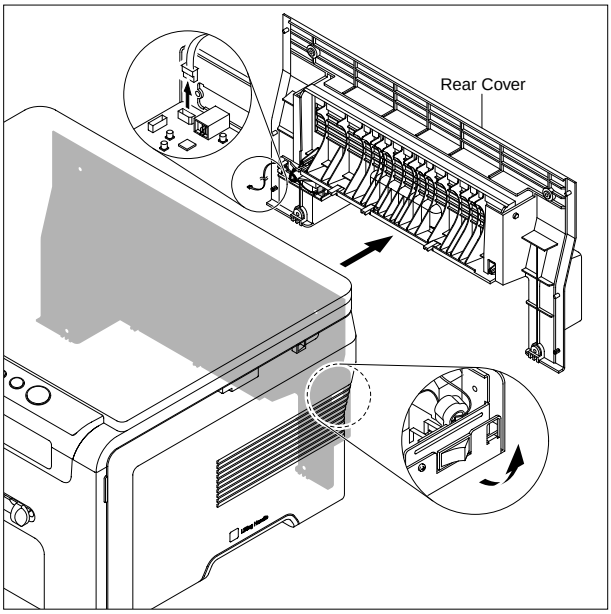


5.3 Rear Cove

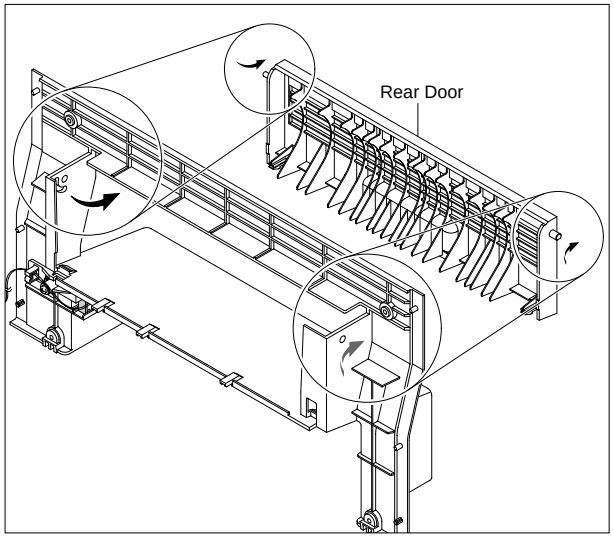
1. Remove the four screws securing the Rear Cover, as shown below.



2. To remove the Rear Cover make sure the Power Switch doesn't get jammed to Rear Cover and then Unplug the one connector(DC Fan) from the Main PBA, as shown below.



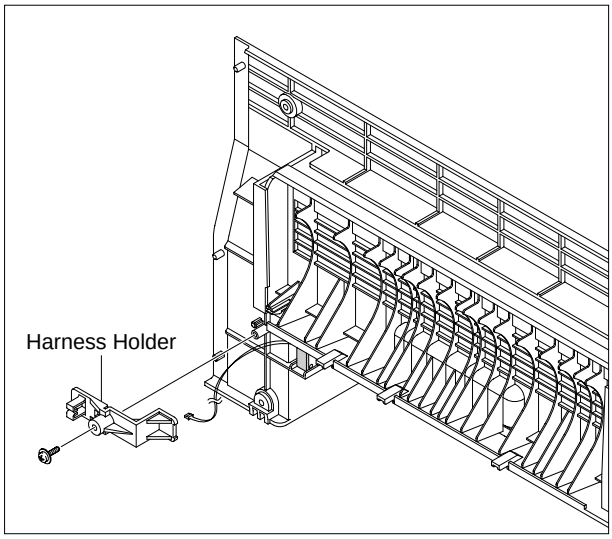
3. If necessary, remove the Rear Door in the direction of arrow, as shown below.



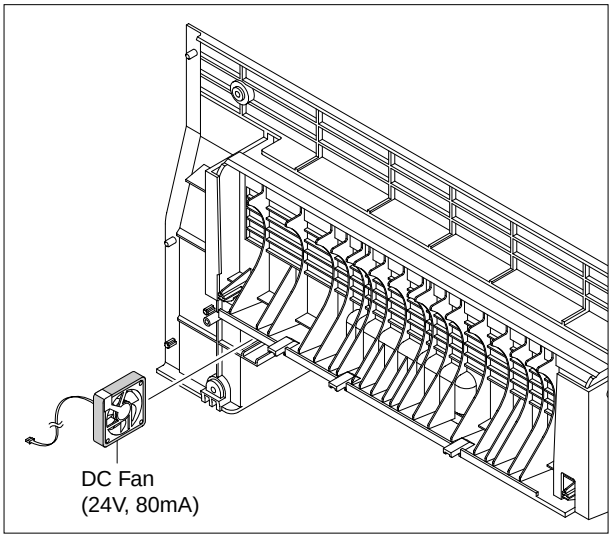
5.4 DC Fan

1. Before you remove the DC Fan, you should remove:
   - Rear Cover (Refer to 5.3)

2. First release the harness from the Harness Holder and then remove the one screw securing the Harness Holder and remove it, as shown below.



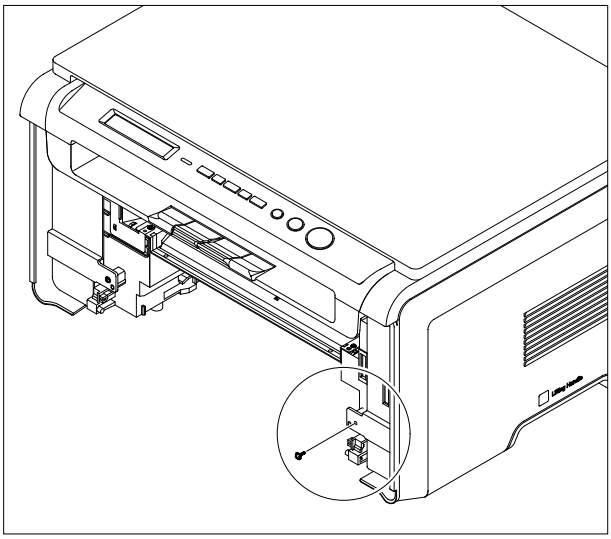
3. Pull the DC Fan out of the Rear Cover.



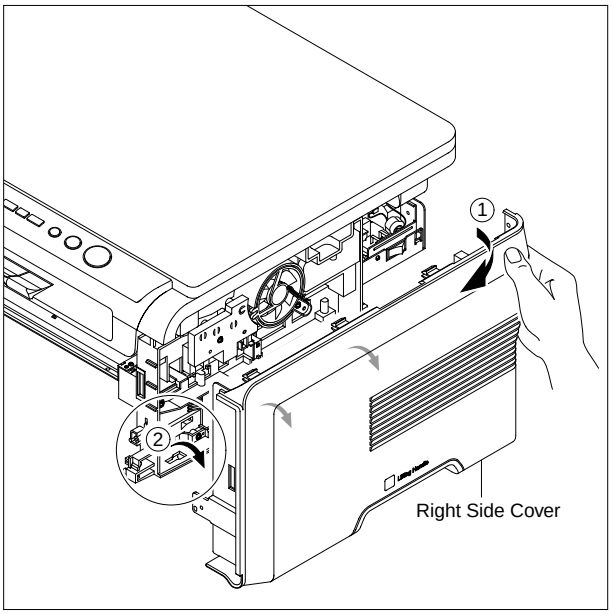
5.5 Right Side Cover

1. Before you remove the Right Side Cover, you should remove:
   - Front Cover (Refer to 5.2)
   - Rear Cover (Refer to 5.3)

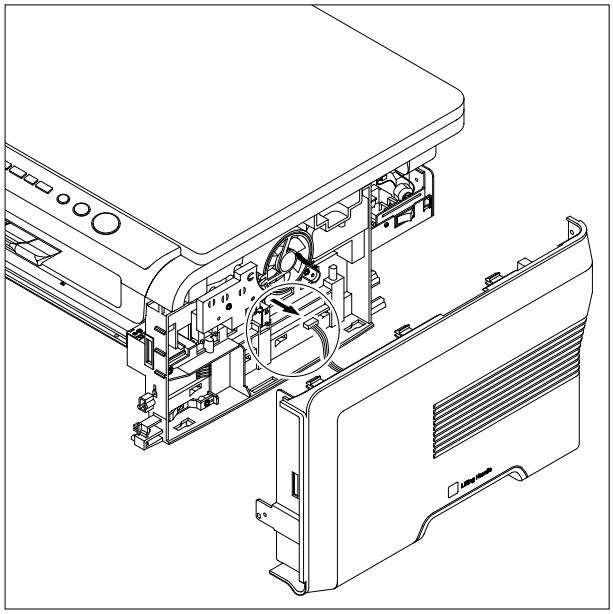
2. Remove the one screw at the front of the unit.



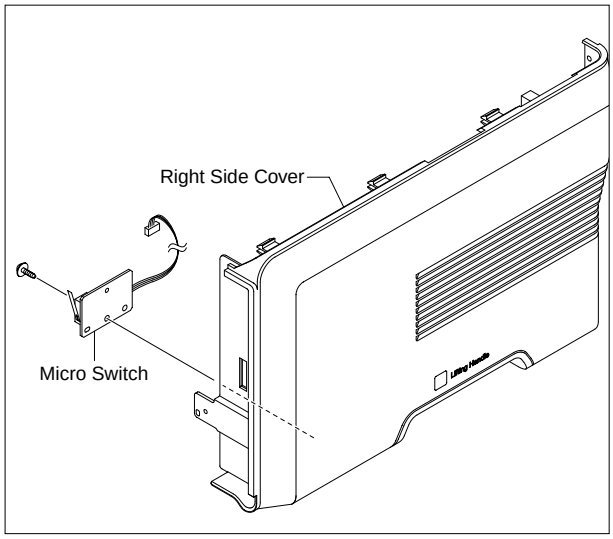
3. Apply light pressure to the back of the Right Side Cover and pull it to the right side in the direction of arrow, as shown below.



4. Unplug the connector(Micro Switch) from the SMPS, as shown below.



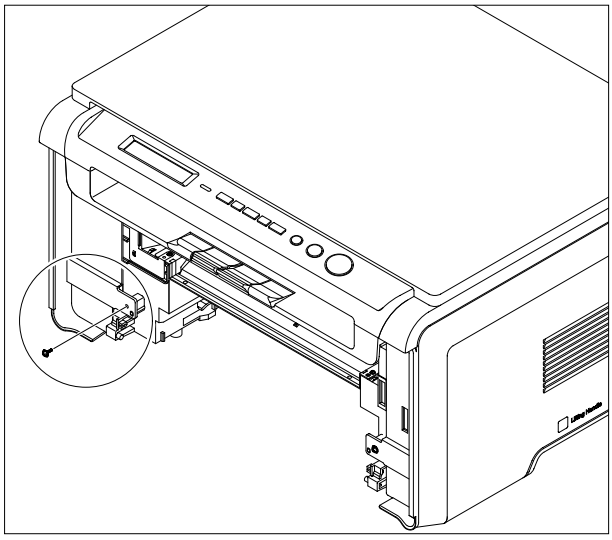
5. If necessary, remove the one screw securing the Micro Switch and remove it.



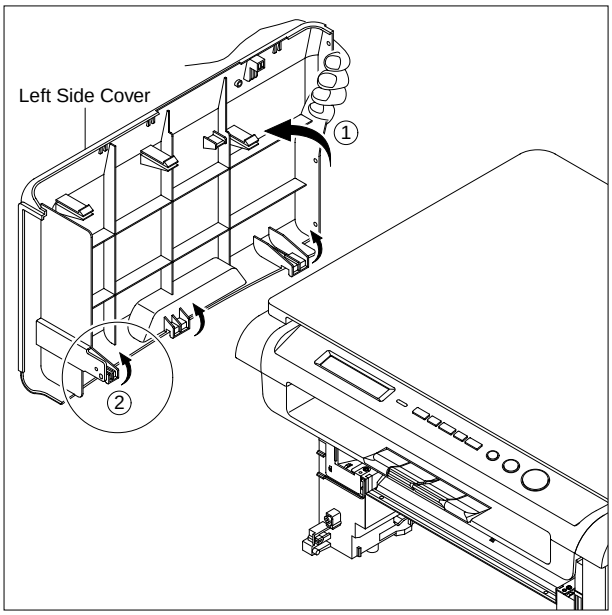
5.6 Left Side Cover

1. Before you remove the Left Side Cover, you should remove:
   - Front Cover (Refer to 5.2)
   - Rear Cover (Refer to 5.3)

2. Remove the one screw at the front of the unit.



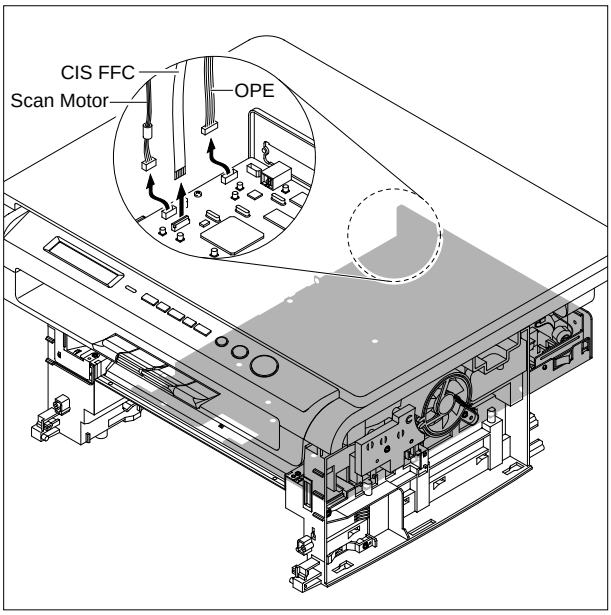
3. Apply light pressure to the back of the Left Side Cover and pull it to the left side in the direction of arrow, as shown below.



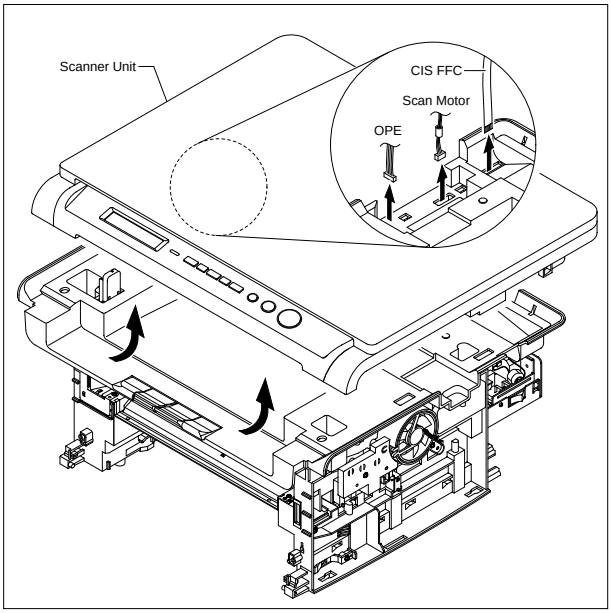
5.7 Scanner Unit

1. Before you remove the Scanner Unit, you should remove:
   - Front Cover (Refer to 5.2)
   - Rear Cover (Refer to 5.3)
   - Right Side Cover (Refer to 5.5)
   - Left Side Cover (Refer to 5.6)

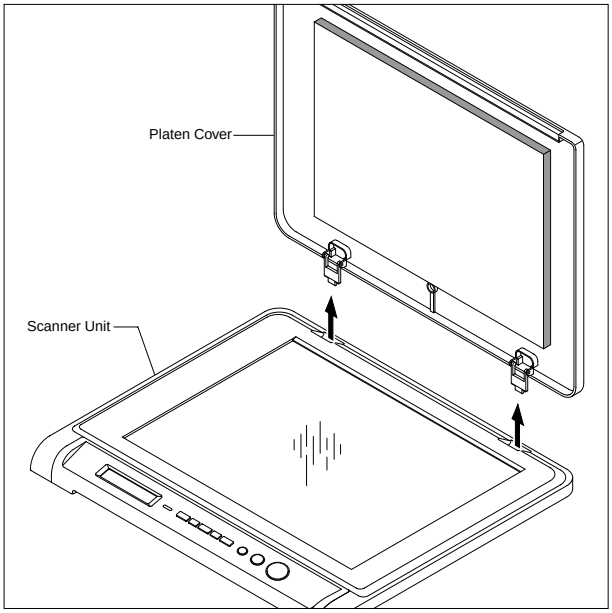
2. Unplug the two connectors(Scan Motor, OPE Unit) and CIS FFC from the Main PBA, as shown below.



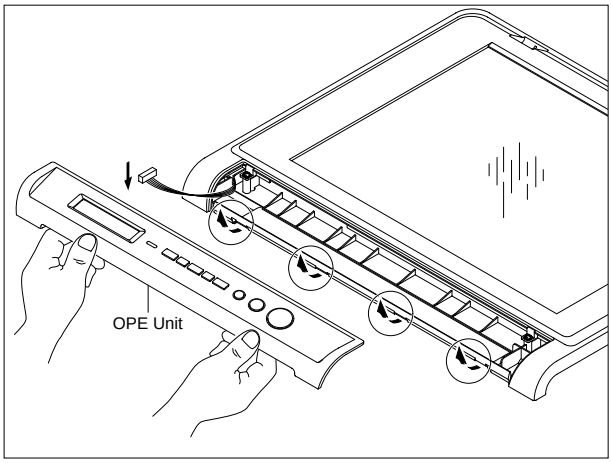
3. Carefully lift the Scanner Unit from the base taking care to thread the cables through the frame.



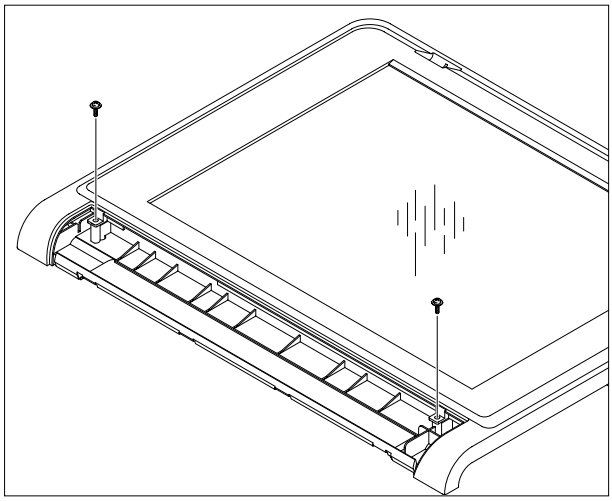
4. Lift the Platen Cover upward and remove it.



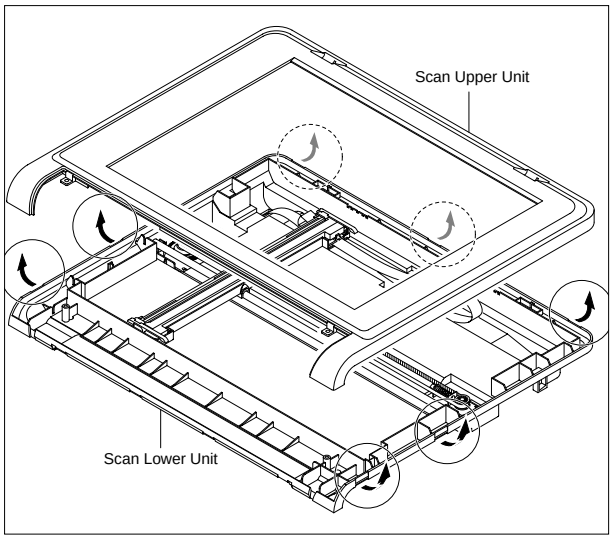
5. To remove OPE Unit, first pull the part below the front of the OPE Unit with a light pressure to the direction of arrow.



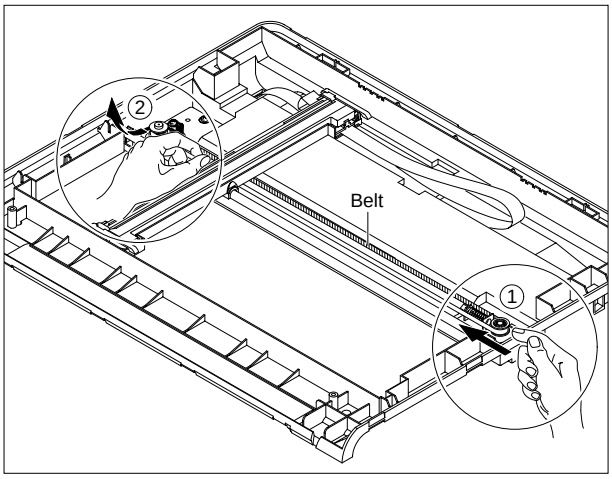
6. Remove the two screws securing the Scan Upper Unit.



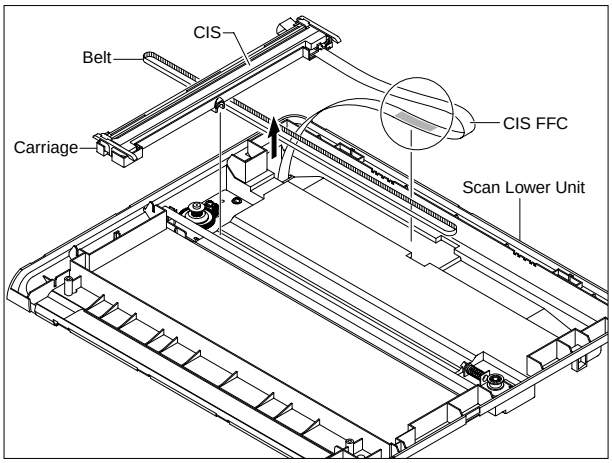
7. Release the seven hooks securing the Scan Upper Unit to the Scan Lower Unit and remove it, as shown below.



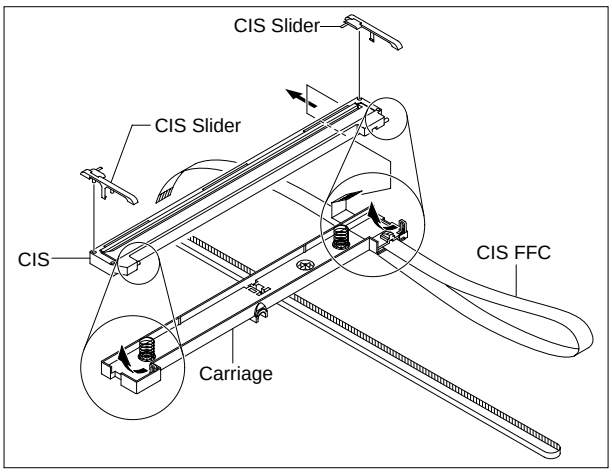
8. Using the right hand to push the Idle Pulley from right to left, and the left hand to lift and remove the Belt.



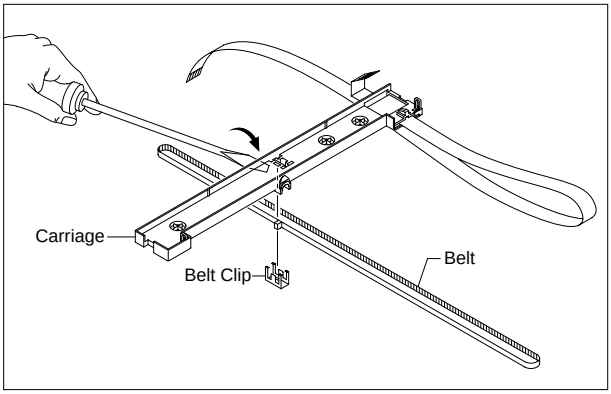
9. When removing CIS FFC, note that the cable is taped to the Scan Lower Unit. Then take the CIS(with Carriage, Belt, CIS FFC) out of OPE Lower Unit.



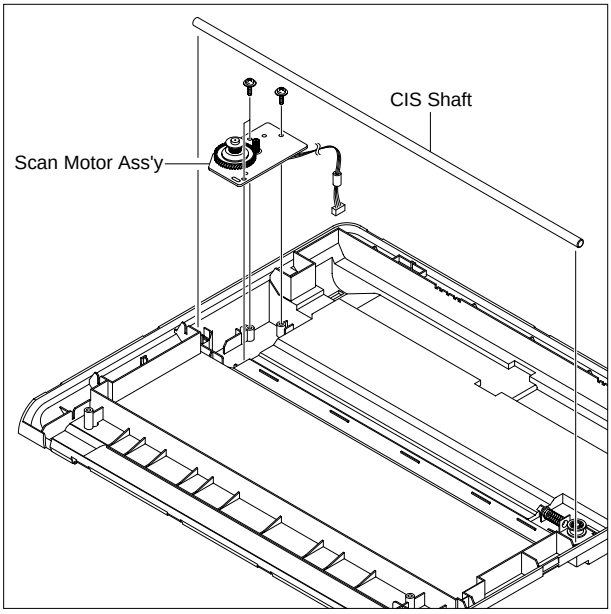
10. To remove the CIS from the Carriage, first unplug the CIS FFC from the CIS and remove two CIS Slider from each end of the CIS. Then Release the CIS in the direction of arrow, as shown below.



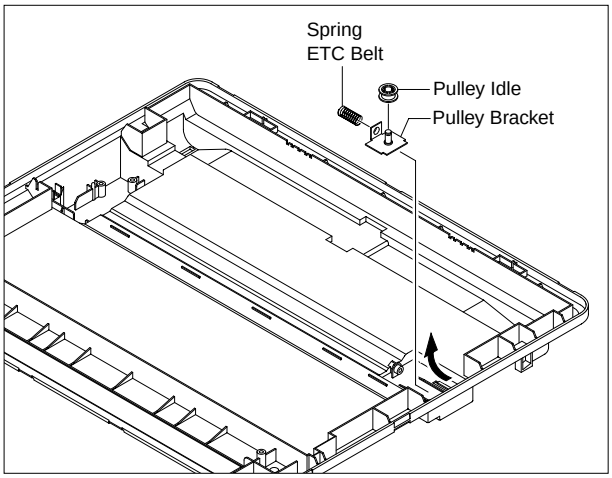
11. To remove Belt using a screw driver, remove the Belt Clip at the center of the Carriage and remove the Belt, as shown below.



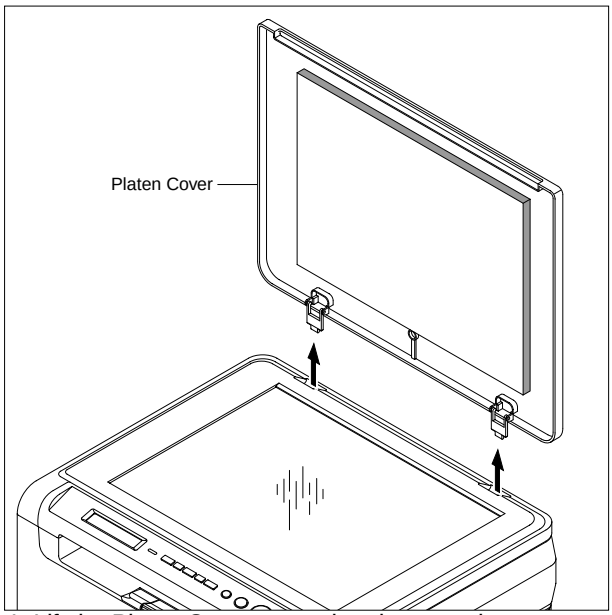
12. Take the CIS Shaft out of OPE Lower Unit and then remove the three screws securing the Scan Motor Ass'y and remove it.



13. Remove the Idle Pulley in the direction of arrow, as shown below.

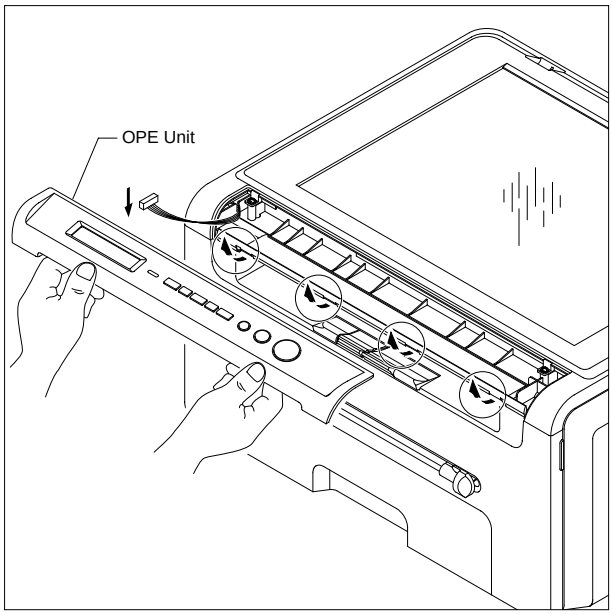


5.8 OPE Unit

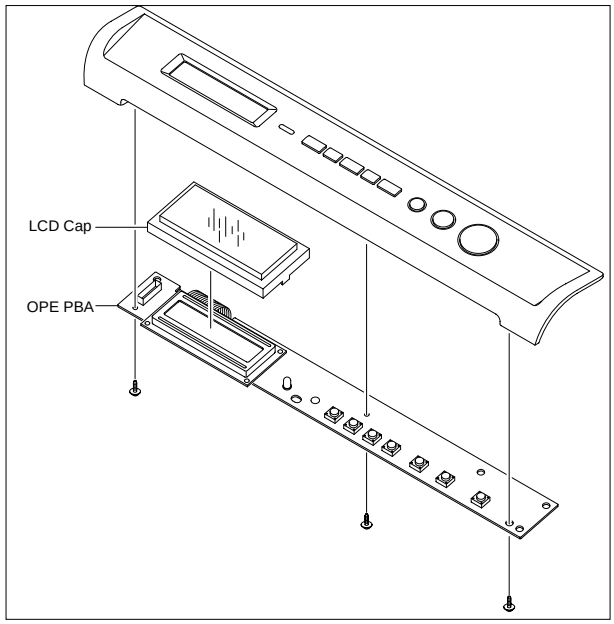


1. Lift the Platen Cover upward and remove it.

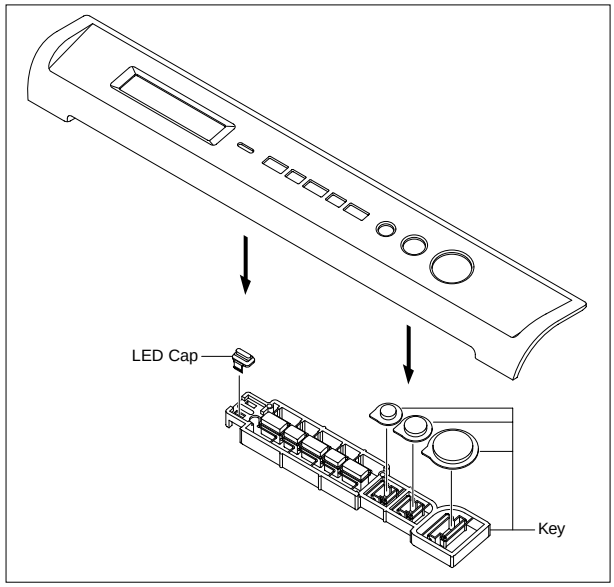
2. To remove OPE Unit, first pull the part below the front of the OPE Unit with a light pressure to the direction of arrow.



3. Remove the three scrrews securing the OPE PBA and remove it.



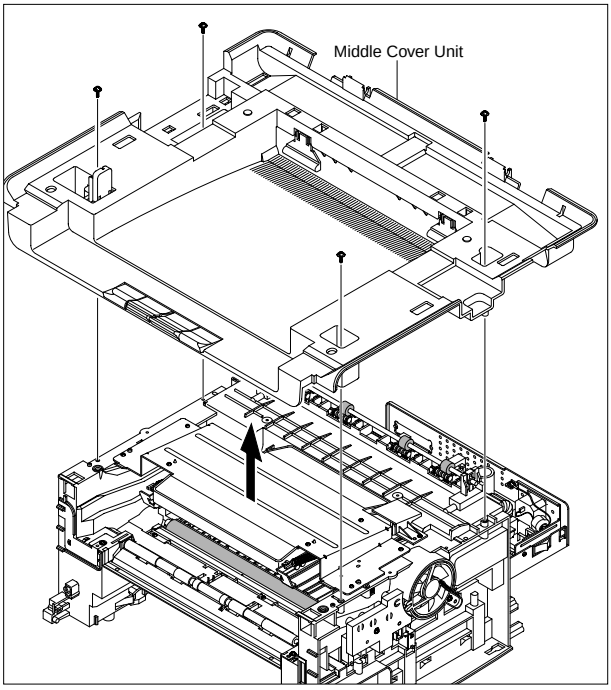
4. Release the Keys.



5.9 Middle Cover Unit

1. Before you remove the Middle Cover Unit, you should remove:
   - Scanner Unit (Refer to 5.7)

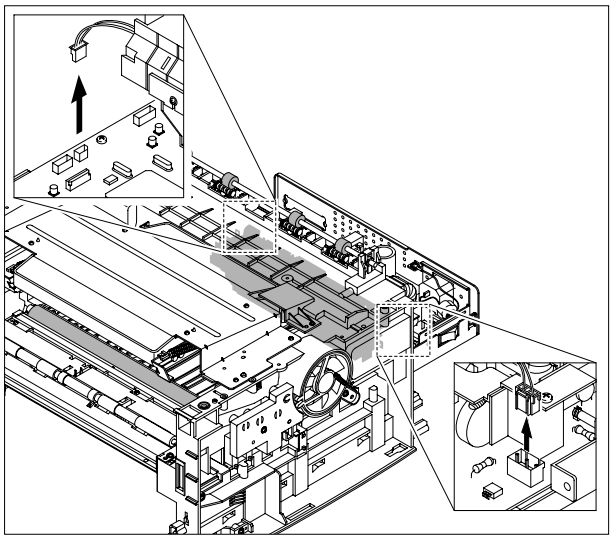
2. Remove the four screws securing the Middle Cover Unit and remove it, as shown below.



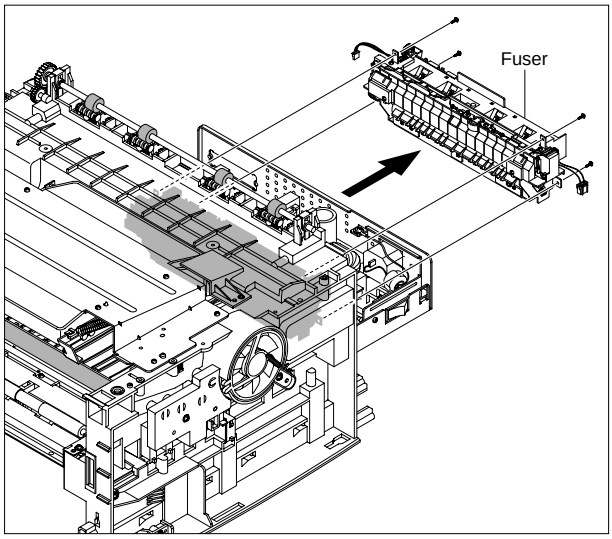
5.10 Fuser

1. Before you remove the Fuser, you should remove:
   - Rear Cover (Refer to 5.3)

2. Unplug the two connectors from the Main PBA and SMPS, as shown below.

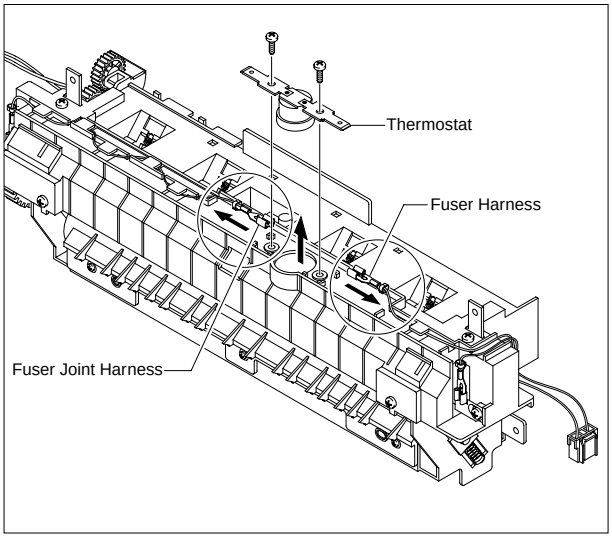


3. Remove the four screws securing the Fuser and remove it.

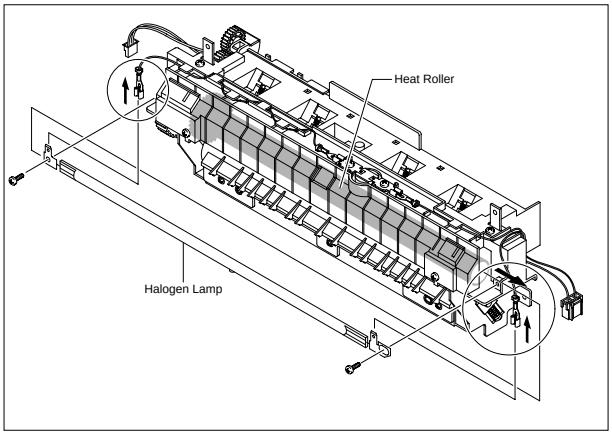


Notice: *Remove the Fuser taking care not to damage the Exit Sensor.*

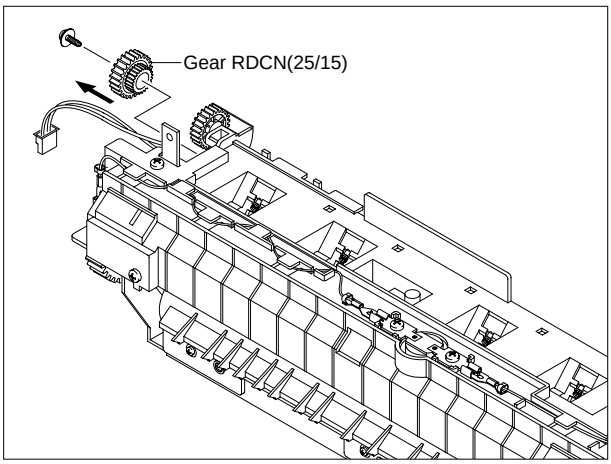
4. Remove the two screws securing the Thermostat and then release the Fuser Harness and Fuser Joint Harness from both side of the Thermostat, as shown below. Then take the Thermostat out of the Fuser.



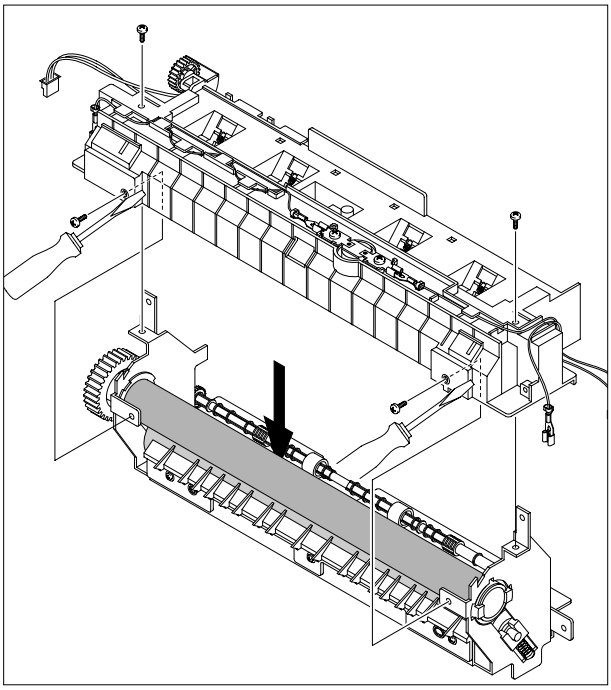
5. Remove the two screws securing the Halogen Lamp and then release the Fuser Harness and Fuser Joint Harness from both side of the Halogen Lamp, as shown below. Then take the Halogen Lamp out of the Heat Roller.



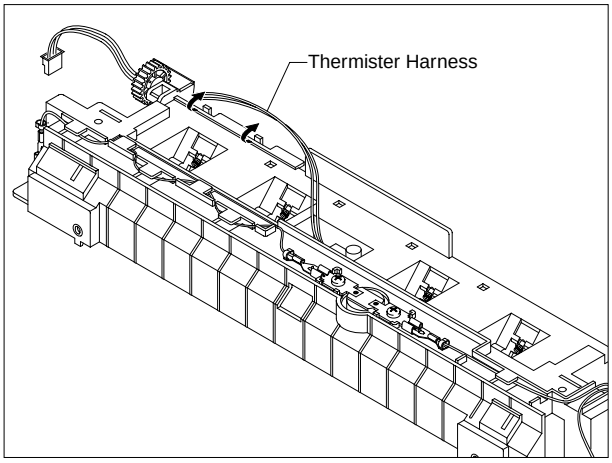
6. Remove the one screw securing the Gear RDCN(25/15) and remove it.



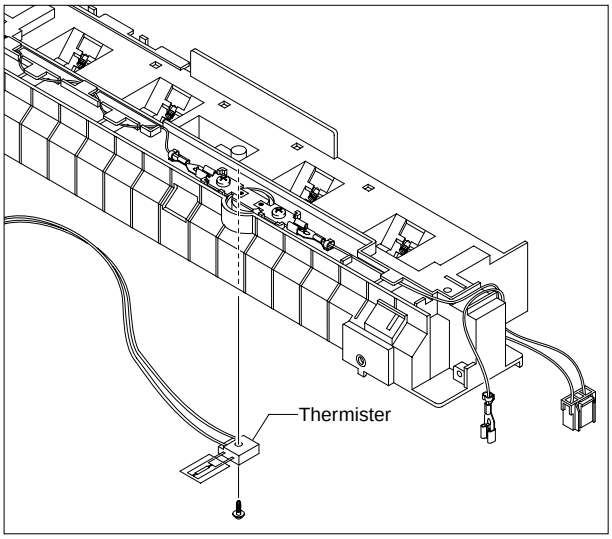
7. Remove the four screws and divide the Fuser into two parts.



8. Unwrap the Thermistor Harness, as shown below.



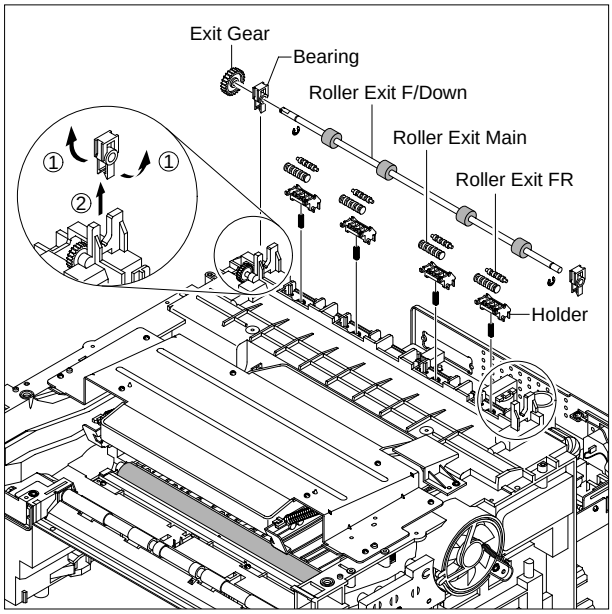
9. Remove the Thermistor from the Fuser Cover.



5.11 Exit Roller

1. Before you remove the Exit Roller, you should remove:
   - Scanner Unit (Refer to 5.7)
   - Middle Cover Unit (Refer to 5.9)

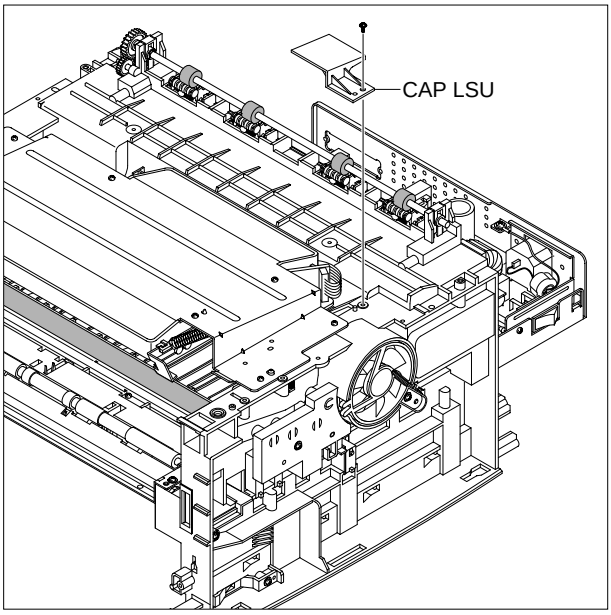
2. Remove the Exit Gear and Bearing using a screw driver at one end then remove the shaft and rollers, as shown below.



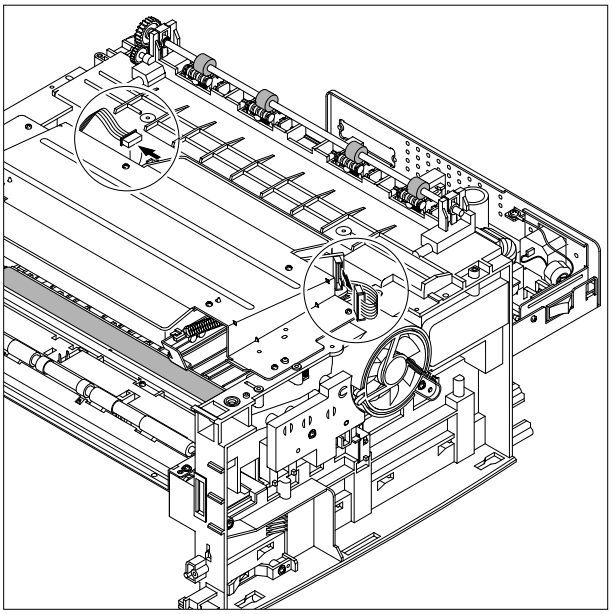
5.12 LSU

1. Before you remove the LSU, you should remove:
   - Scanner Unit (Refer to 5.7)
   - Middle Cover Unit (Refer to 5.9)

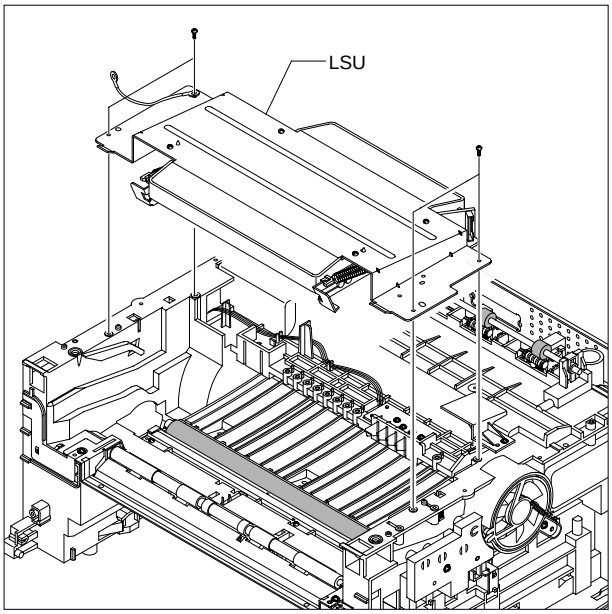
2. Remove the one screw securing the CAP LSU and remove it.



3. Unplug the two connectors from the LSU.



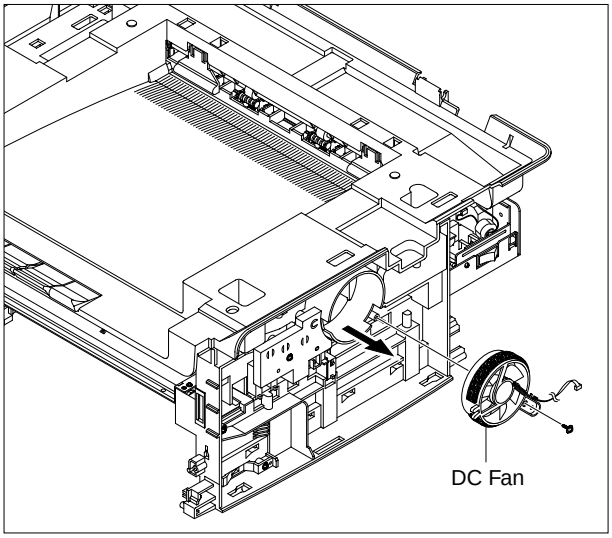
4. Unplug the four screws and take the LSU out.



5.13 Fan

1. Before you remove the Fan, you should remove:
   - Front Cover (Refer to 5.2)
   - Rear Cover (Refer to 5.3)
   - Right Side Cover (Refer to 5.5)

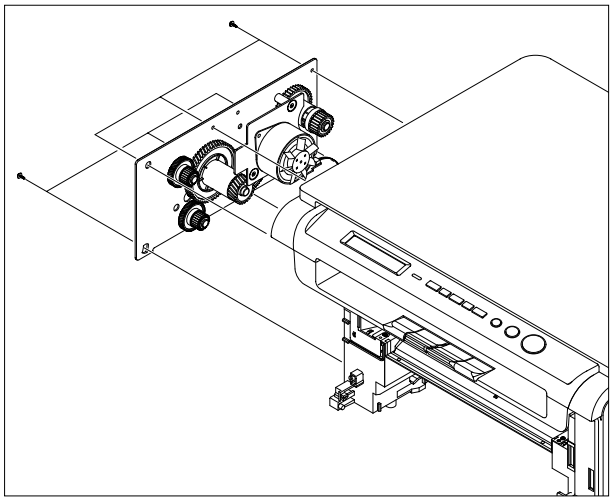
2. Unplug the connector from the SMPS and remove the one screw. Then take out the Fan.



5.14 Drive Ass'y

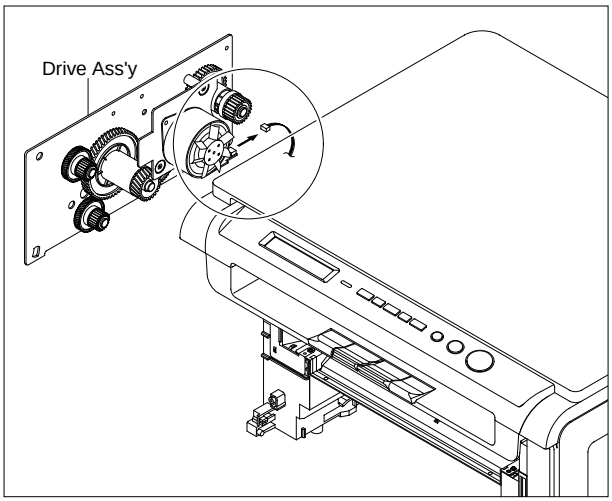
1. Before you remove the Drive Ass'y, you should remove:
   . Front Cover (Refer to 5.2)
   . Rear Cover (Refer to 5.3)
   . Left Side Cover (Refer to 5.6)

2. Remove the six screws securing the Drive Ass'y.



Notice: *When refitting the Drive Ass'y tighten the screws in the order that they are numbered on the Drive Ass'y base plate.*

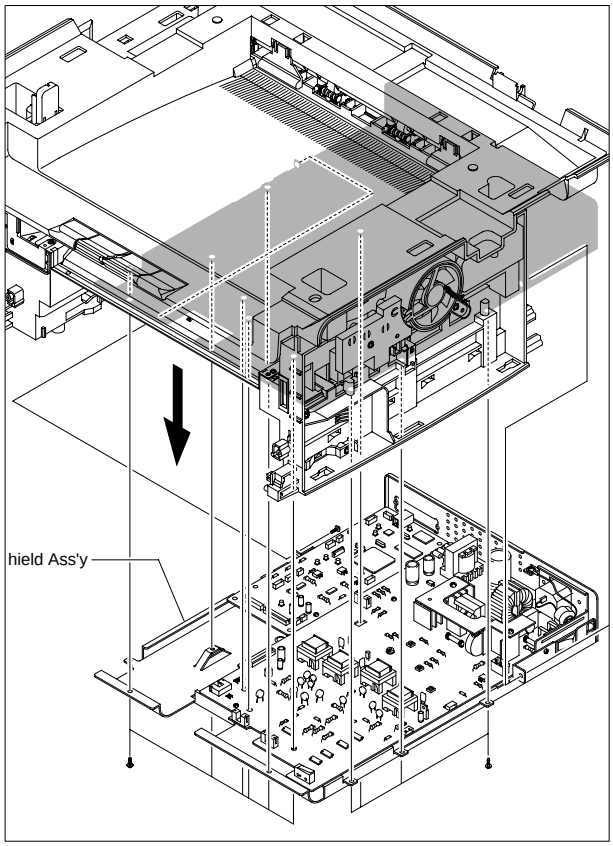
3. Unplug the connector from the Drive Motor, as shown below.



5.15 Engine Shield Ass'y

1. Before you remove the Engine Shield Ass'y, you should remove:
   - Scanner Unit (Refer to 5.7)
   - Fuser Connectors (Refer to 5.10.2)

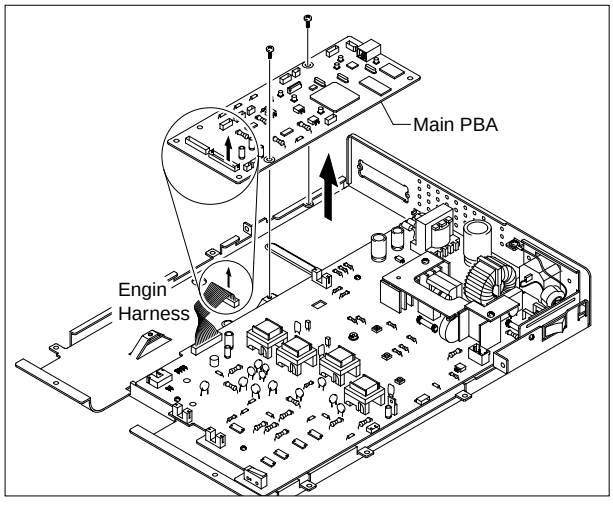
2. Remove the eleven screws securing the Engine Shield Ass'y and unplug the all connectors. Then remove the Engine Shield Ass'y.



5.16 Main PBA

1. Before you remove the Main PBA, you should remove:
   - Engine Shield Ass'y (Refer to 5.15)

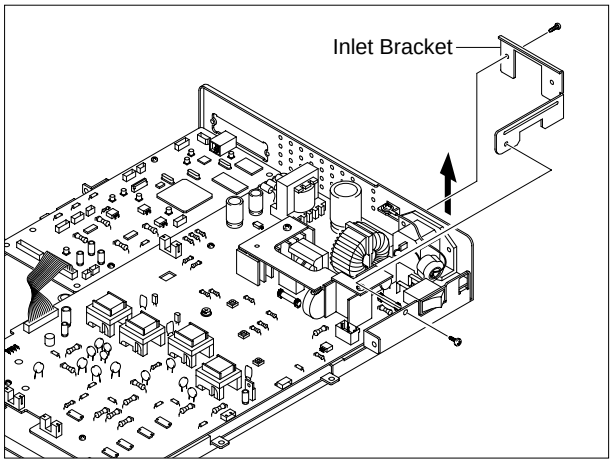
2. Unplug the Engine Harness and remove the two screws from the Main PBA. Then lift the Main PBA out, as shown below.



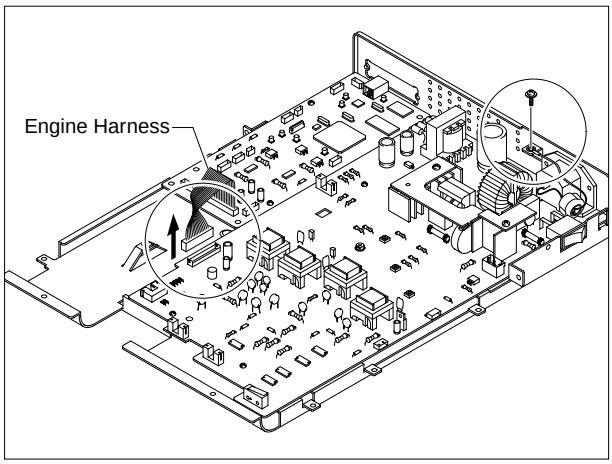
5.17 SMPS

1. Before you remove the SMPS, you should remove:
   - Engine Shield Ass'y (Refer to 5.15)

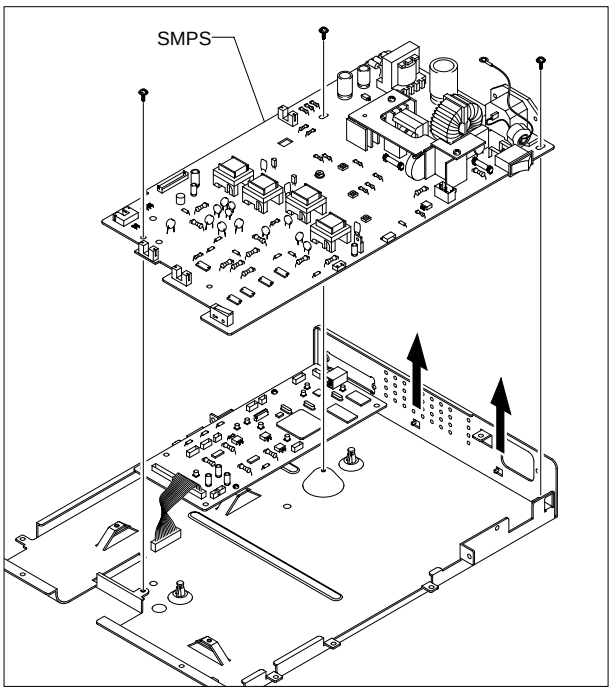
2. Remove the two screws then take the Inlet Bracket out, as shown below.



3. Unplug the Engine Harness from the SMPS and then remove the one screw securing the ground cable, as shown below.



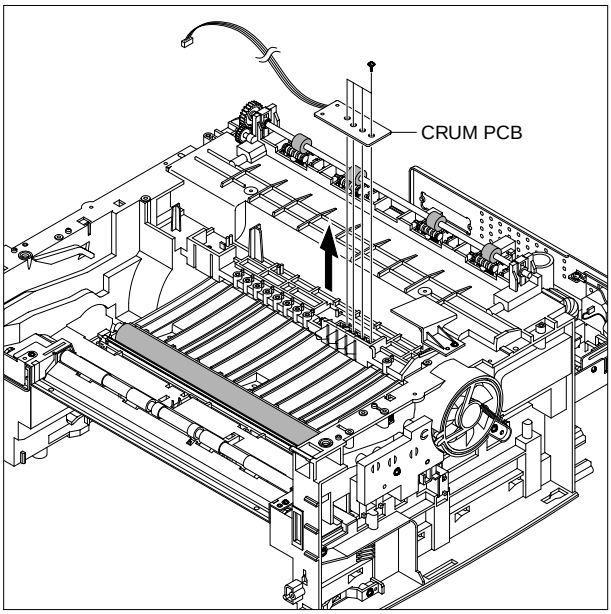
4. Remove the three screws and take the SMPS out.



5.18 CRUM PCB

1. Before you remove the CRUM PCB, you should remove:
   - LSU (Refer to 5.12)
   - Engine Shield Ass'y (Refer to 5.15)

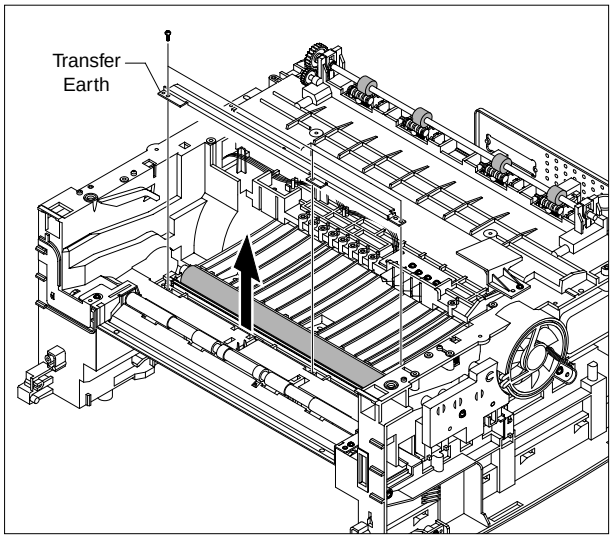
2. Remove the four screws securing the CRUM PCB and remove it, as shown below.



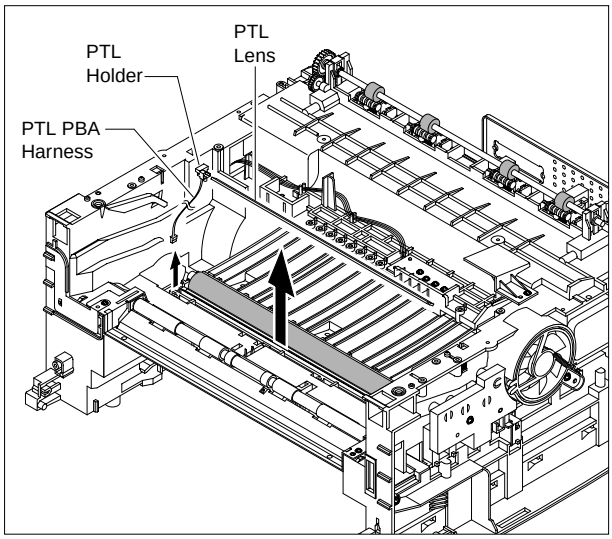
5.19 Transfer Roller

1. Before you remove the Transfer Roller, you should remove:
   - Scanner Unit (Refer to 5.7)
   - Middle Cover Unit (Refer to 5.9)
   - LSU (Refer to 5.12)

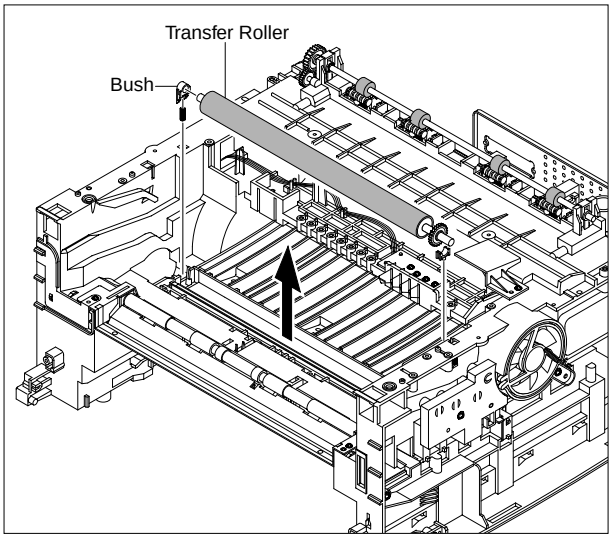
2. Remove the three screws and take the Transfer Earth out.



3. Unplug the PTL PBA Harness then remove the PTL Holder and PTL Lens, as shown below. Take care to note the orientation of the PTL Lens and ensure it is refitted correctly.



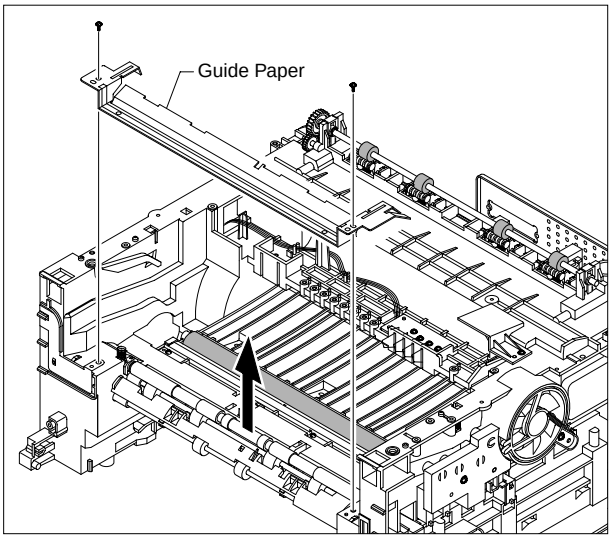
4. Unlatch the Bush and remove it. Then lift the Transfer Roller out, as shown below.



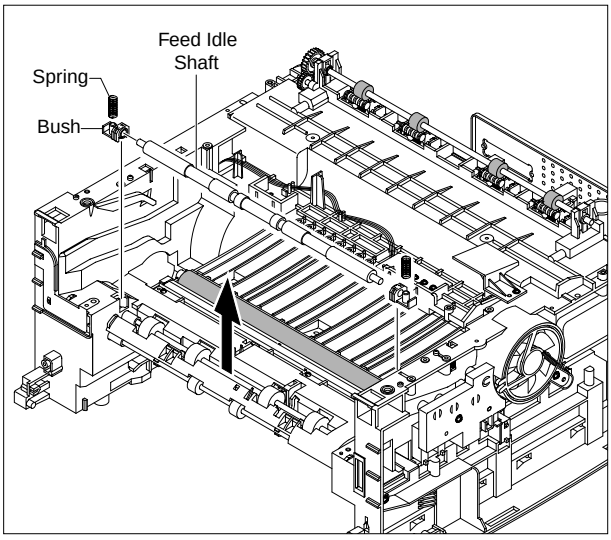
5.20 Feed Roller

1. Before you remove the Feed Roller, you should remove:
   - Middle Cover Unit (Refer to 5.9)
   - LSU (Refer to 5.12)
   - Drive Ass'y (Refer to 5.14)

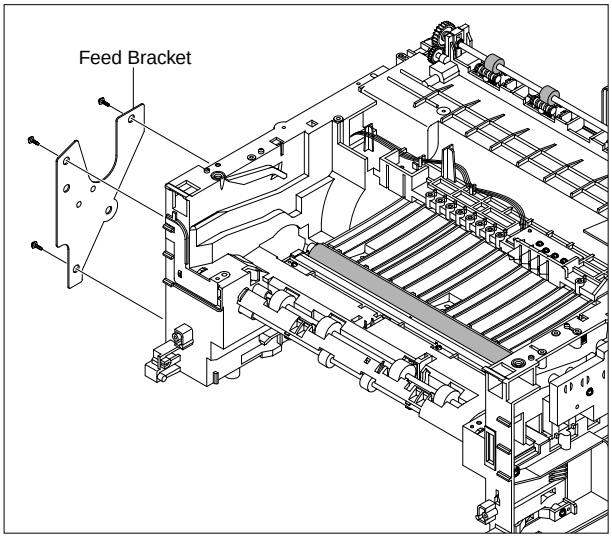
2. Remove the two screws from the Guide Paper and take it out.



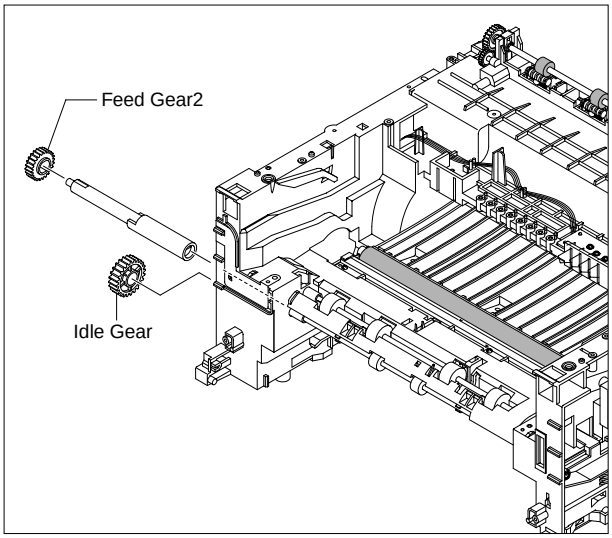
3. Pull up the Feed Idle Bush and Feed Idle Shaft, as shown below.



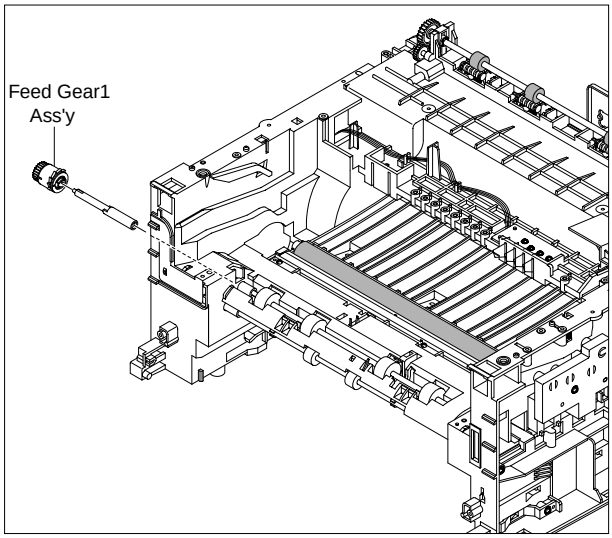
4. Remove the three screws from the Feed Bracket and take it out.



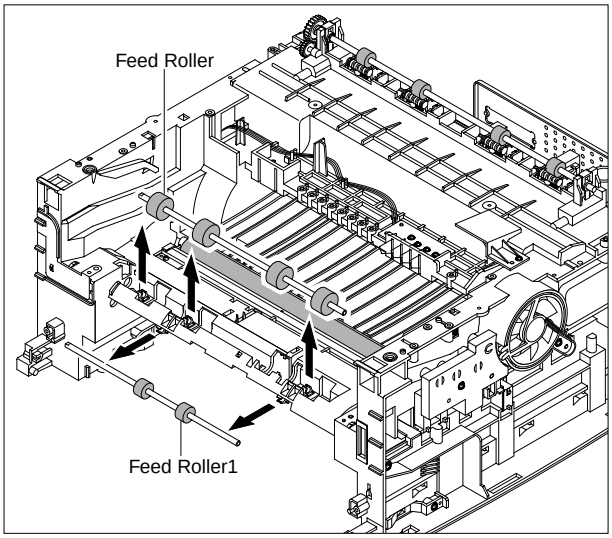
5. Remove the Idle Gear and Feed Gear2.



6. Remove the Feed Gear1 Ass'y, as shown below.



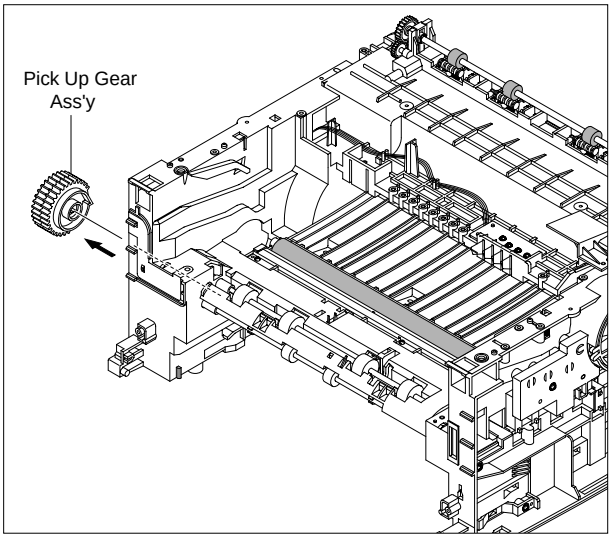
7. Pull the Feed Roller and Feed Roller1, as shown below.



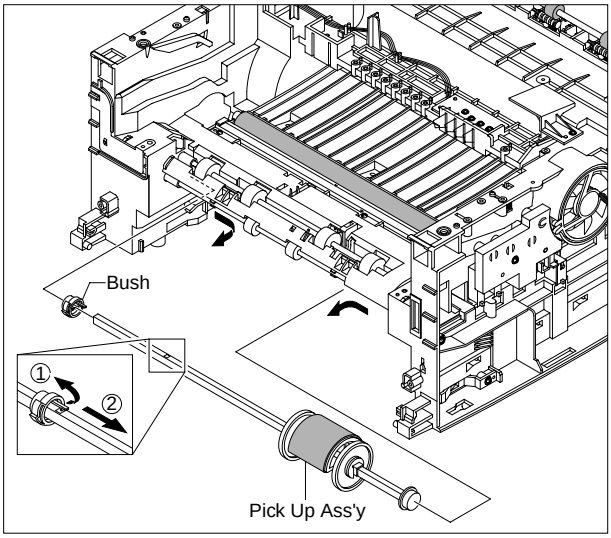
5.21 Pick Up Roller & Solenoid

1. Before you remove the Pick Up Roller & Solenoid, you should remove:
   - Middle Cover Unit (Refer to 5.9)
   - LSU (Refer to 5.12)
   - Drive Ass'y (Refer to 5.14)
   - Feed Bracket and Gear (Refer to 5.19 steps 4~6)

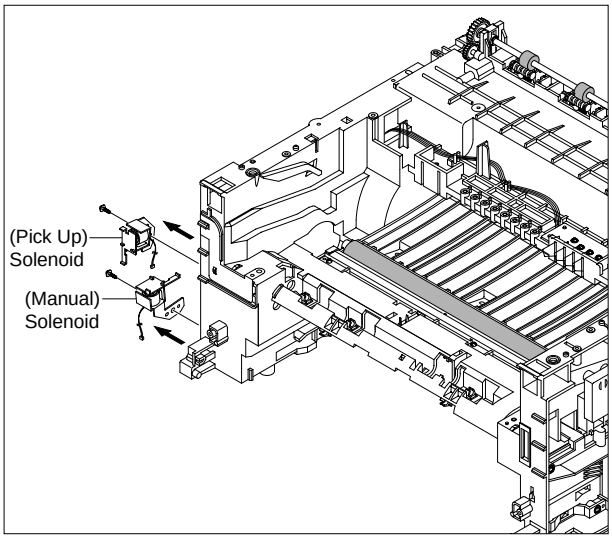
2. Remove the Pick Up Gear Ass'y, as shown below.



3. To remove the Pick Up Ass'y, first lift the notch attached to the Bush so that it's released from the shaft, then slide the Pick Up Ass'y from right to left and it will be released completely, as shown below.



4. Remove the two screws and then remove the Regi Solenoid and Pick Up Solenoid.



Memo