

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.

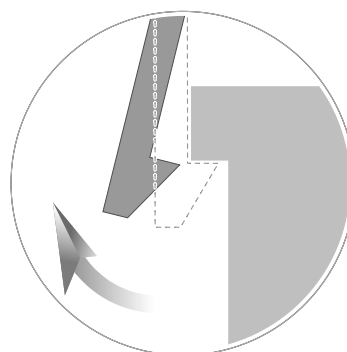
Whenever servicing the machine, you must perform as follows:

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

Releasing Plastic Latches

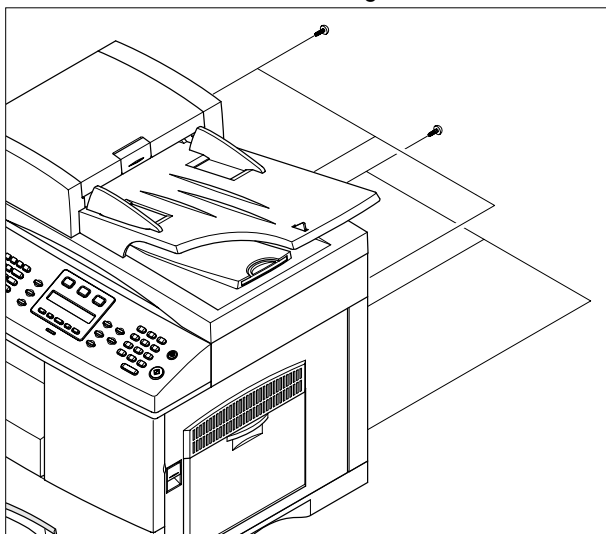
Many of the parts are held in place with plastic latches. The latches break easily; release them carefully.

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

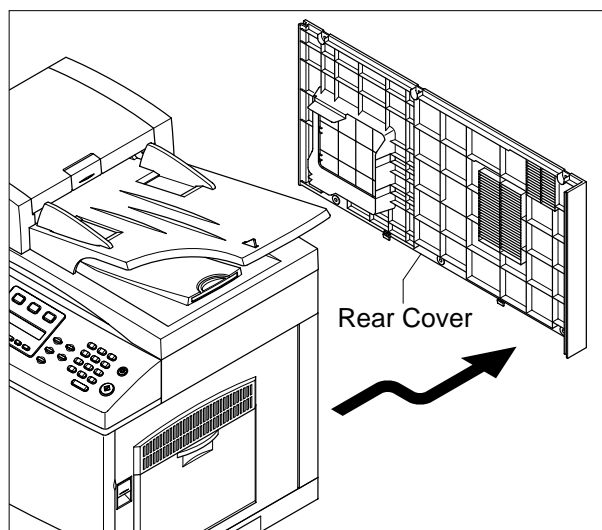


5.2 Rear Cover

1. Remove the six screws securing the Rear Cover.

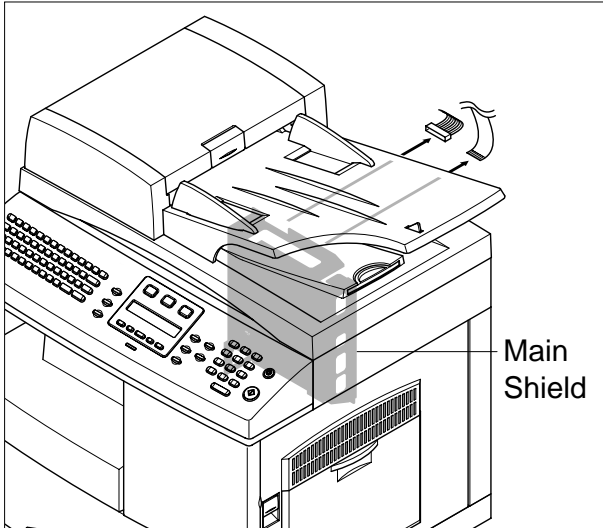


2. Separate the rear cover from the base frame and Scanner Ass'y.



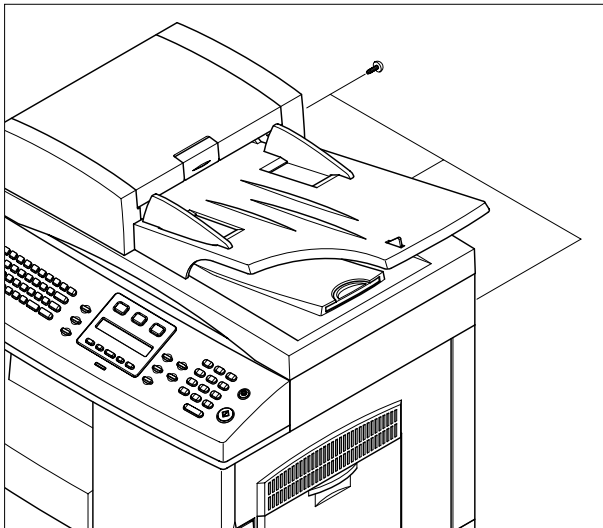
5.3 Scanner Ass'y

1. Before you remove the Scanner Ass'y, you should remove:
- Rear Cover (see page 5-1)
2. Unplug the DADF harness connector and CCD cable.

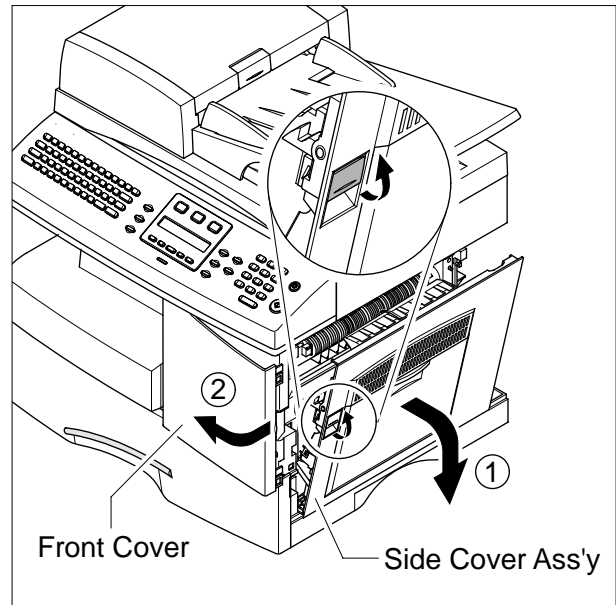


Notice : When removing the CCD flat cable pull firmly taking care not to bend or crack the cable.

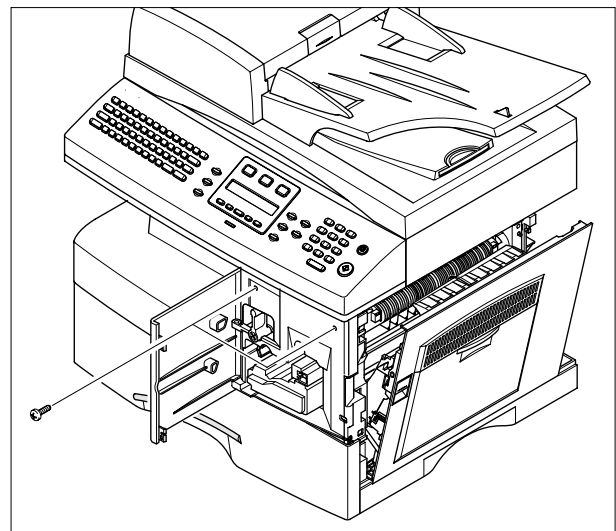
3. Remove the three screws, as shown below. Also remove the single screw securing 2 ground cables.



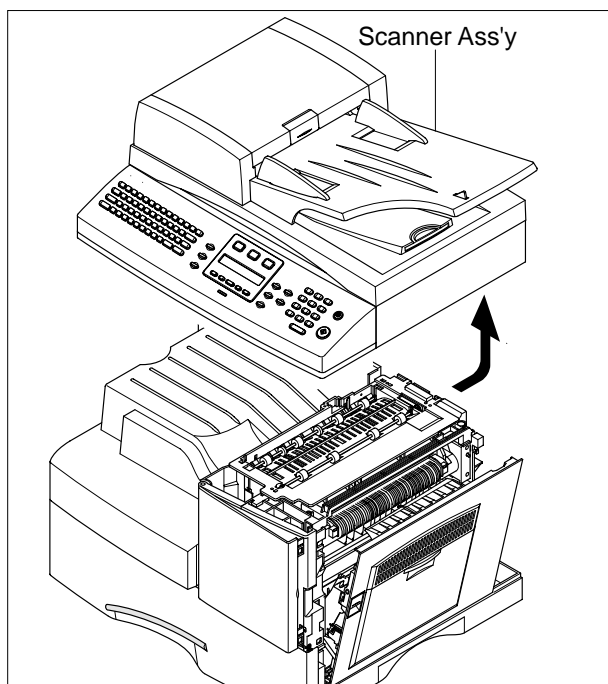
4. The side and front covers are interlocked. Open the side door before opening the front door. When closing the doors the front door must be closed before the side door.
Open the front and side doors to gain access to the screws in the following steps.



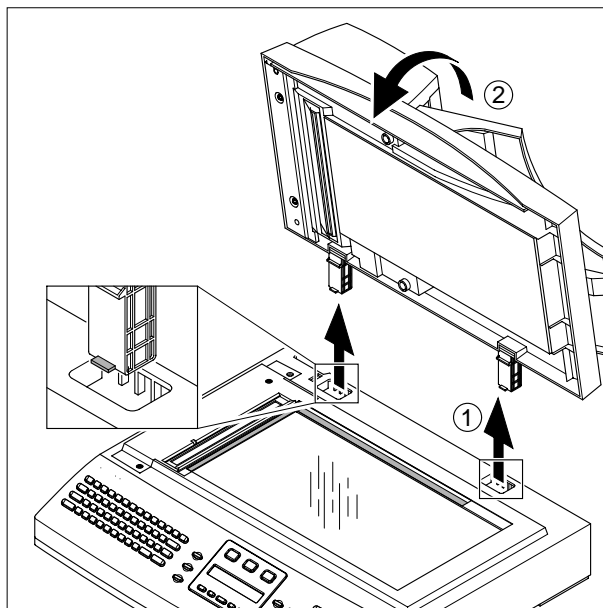
5. Remove two screws.



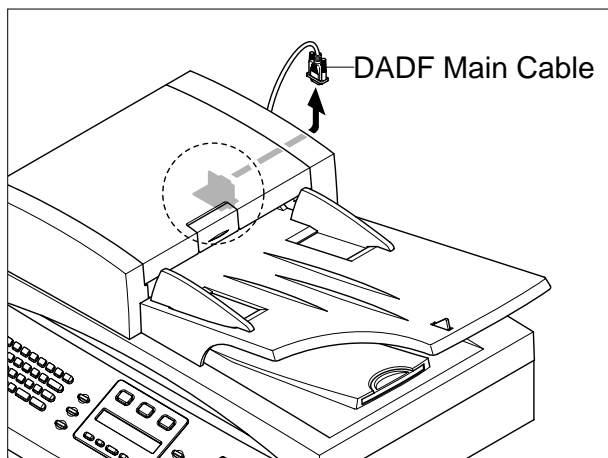
6. Pull up the Scanner Ass'y in the direction of arrow.



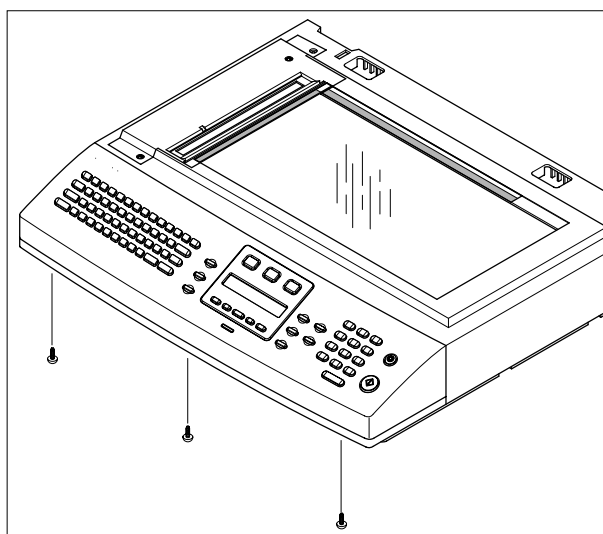
8. Open the DADF Ass'y in the direction of arrow. Pull the DADF Ass'y upward and remove it.



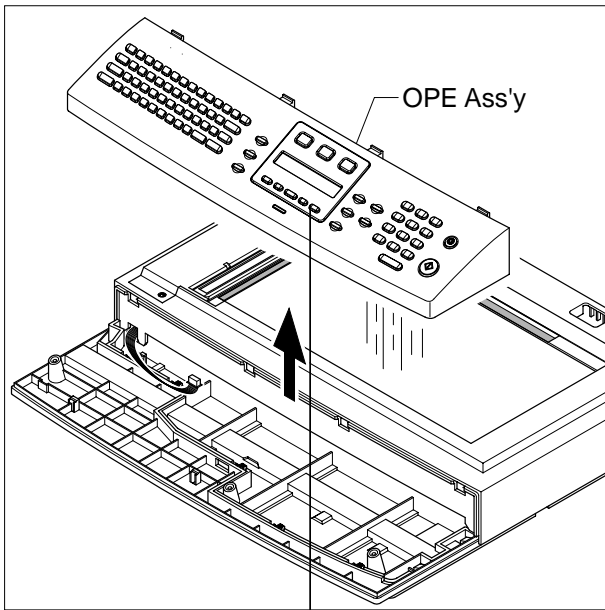
7. Remove the DADF Main Cable.



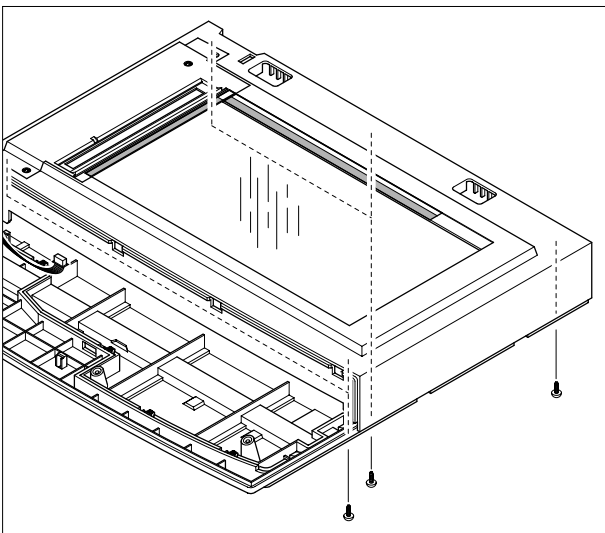
9. Remove the three screws securing the Platen Ass'y.



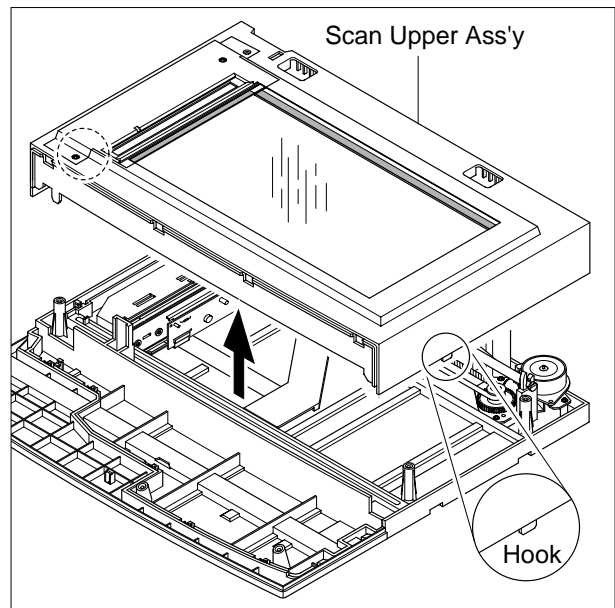
10. Pull the OPE Ass'y and unplug the one connector.



11. Remove the five screws securing the Platen Ass'y.

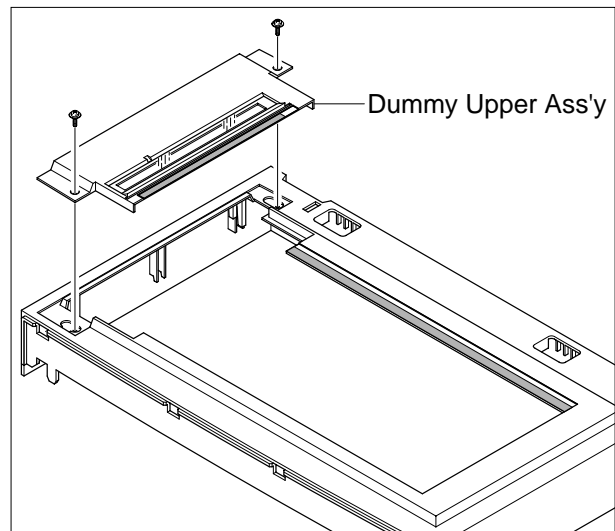


12. Release 2 clips (1 each side) to release the Scan Upper Ass'y securing the glass and remove it. Take care to ensure that the DADF connector is clear.



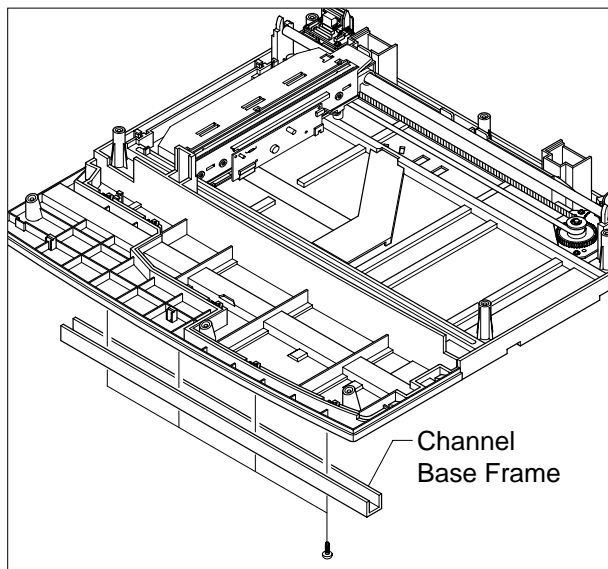
Notice : When reassembling the Scan Upper take care to ensure that the Lever Sensor is free to operate

13. Remove the two screws to remove the Dummy Upper Ass'y.

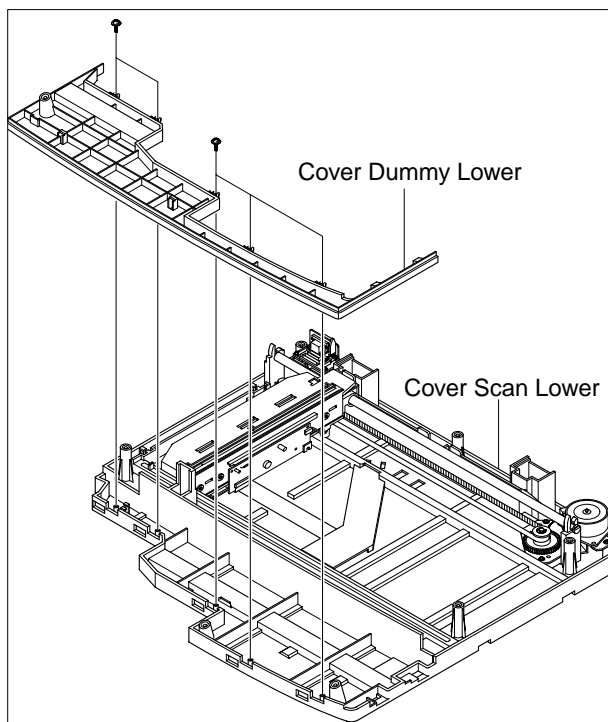


Notice : Dust or other foreign matter can cause the module to jam or image quality to deteriorate. Only open the scanner in a clean environment and ensure all parts are clean when reassembling the scanner.

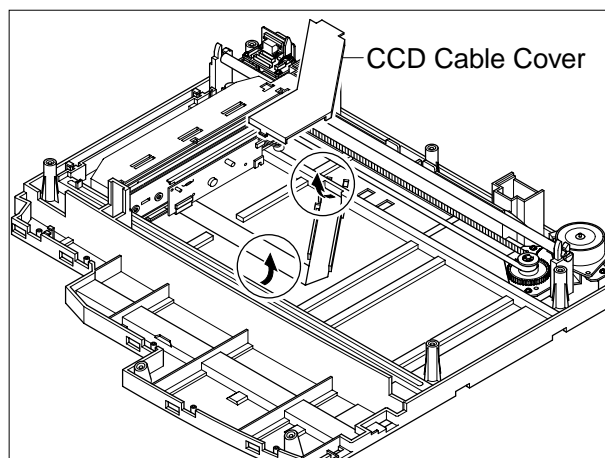
14. Remove four screws to release the Channel Base Frame.



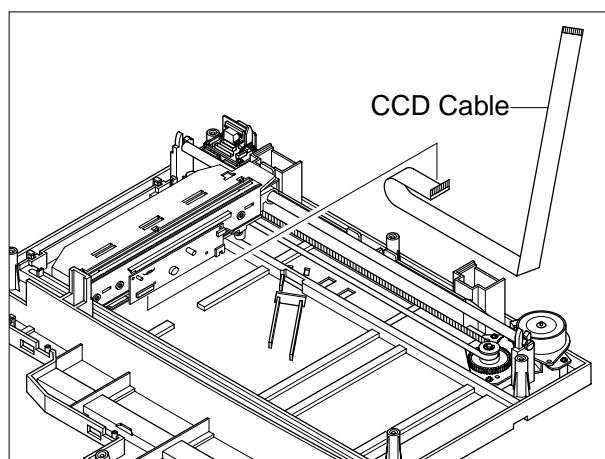
15. Remove the five screws securing the Cover Dummy Lower and remove it.



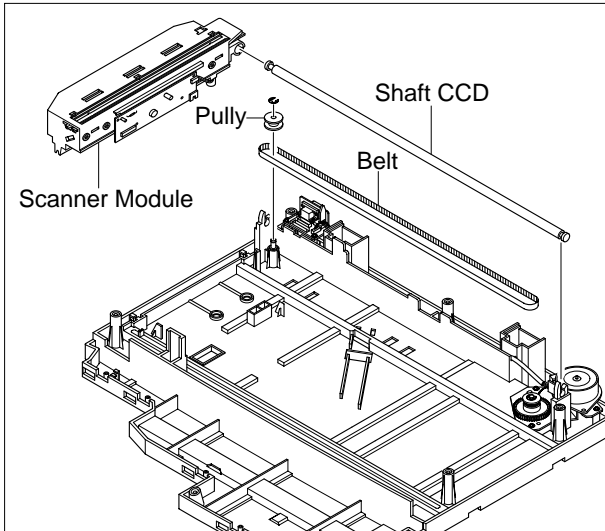
16. Remove the CCD cable cover by flexing and releasing the front clip. Slide the scan module to a position half way along the scanner bed and raise it to a vertical position. Disconnect the CCD cable



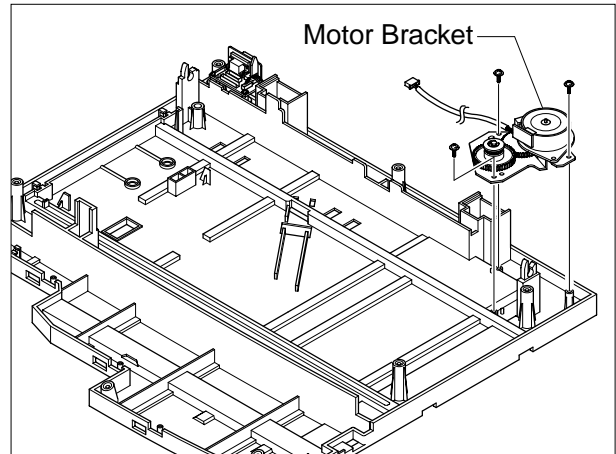
17. Release the belt from the underside of the scanner module. Unclip the Shaft CCD and take out the Scanner Module.



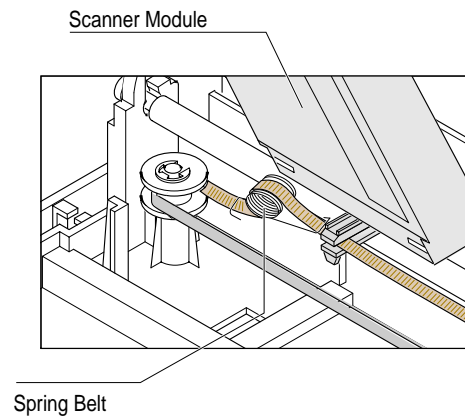
18. Disconnect the motor harness. Remove three screws and take out the Motor Bracket.



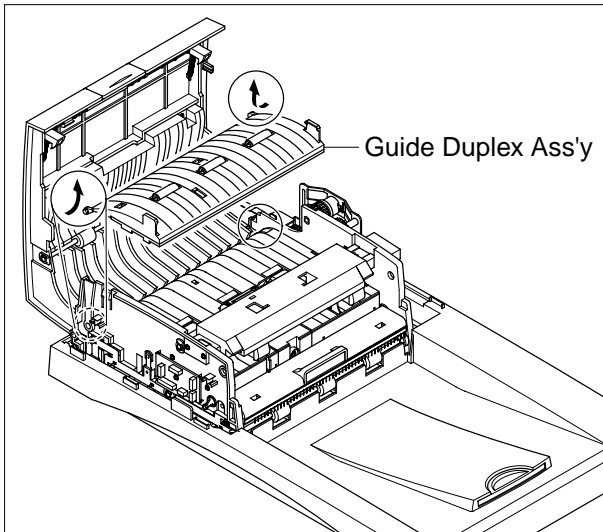
19. Remove the OPE Harness from the Platen PBA. Remove two screws and take out the Platen PBA.



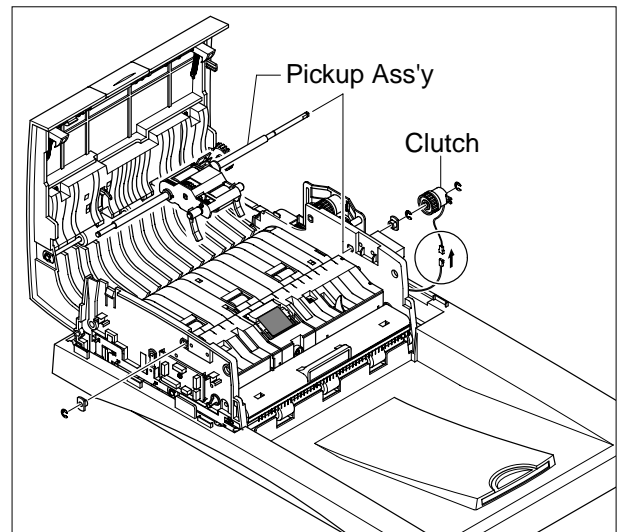
Notice : Take care when reassembling the scanner module to the belt. The CCD Module should be located just to the right of the belt tension spring as shown below.



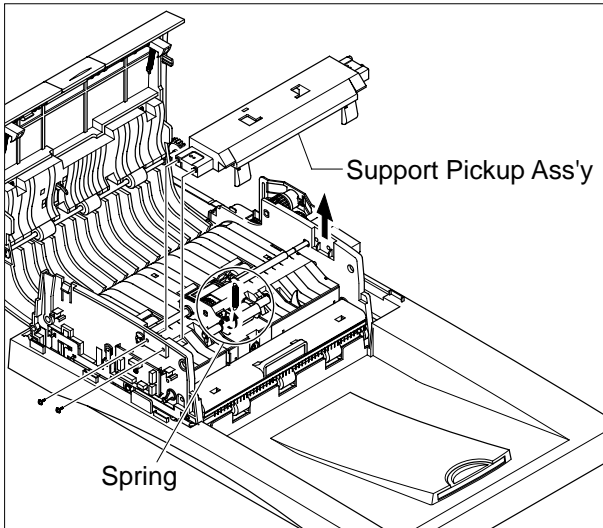
6. Lift the Guide Duplex Ass'y at the front hinge. It may be necessary to gently flex the plastic frame to release the hinge. Take out the Guide Duplex Ass'y, as shown below.



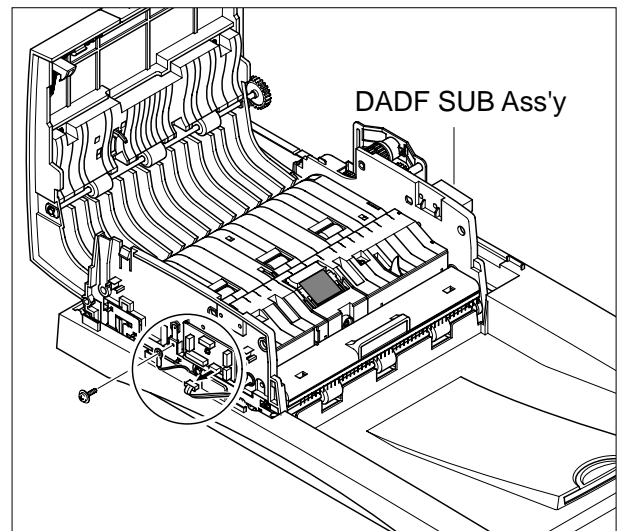
8. Unplug the one connector and remove the circlip on the end of the shaft. Remove the Clutch. Remove 2 further circlips and bushes then take out the Pickup Ass'y, as shown below.



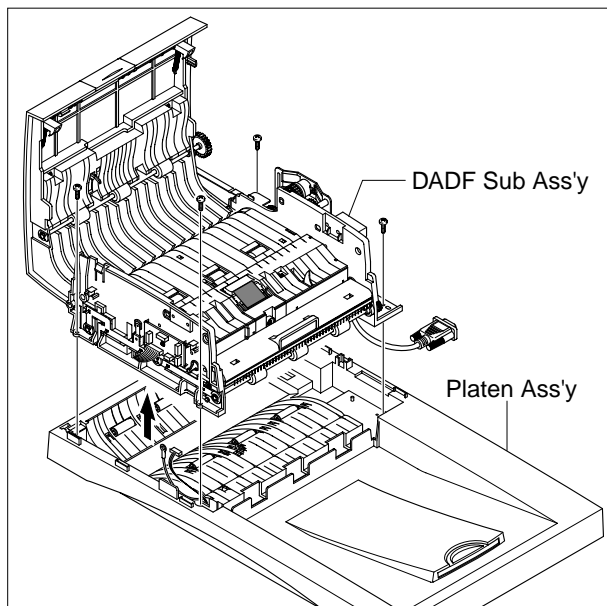
7. Remove the two screws securing the Support Pickup Ass'y. Look under the edge of the Support Pickup Ass'y and release the spring from the Pickup Ass'y. Then remove the Support Pickup Ass'y, as shown below.



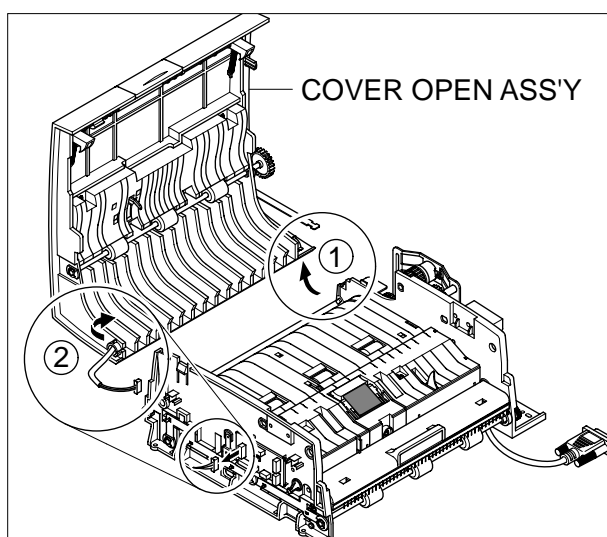
9. Unplug The Gate Sensor connector and remove one screw securing the ground cable.



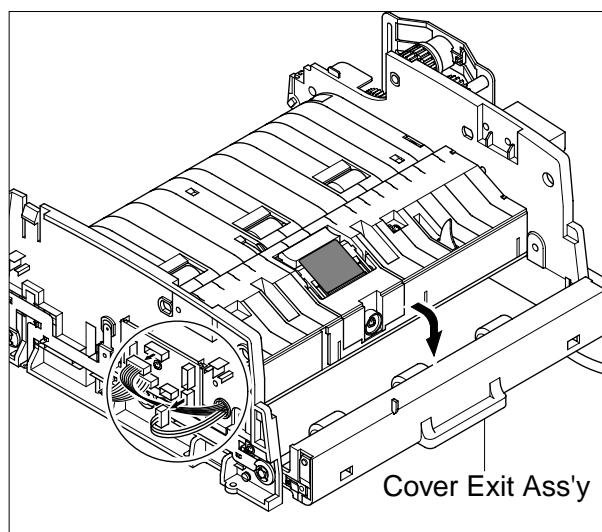
10. Remove the four screws securing the Scan Main Ass'y and remove it.



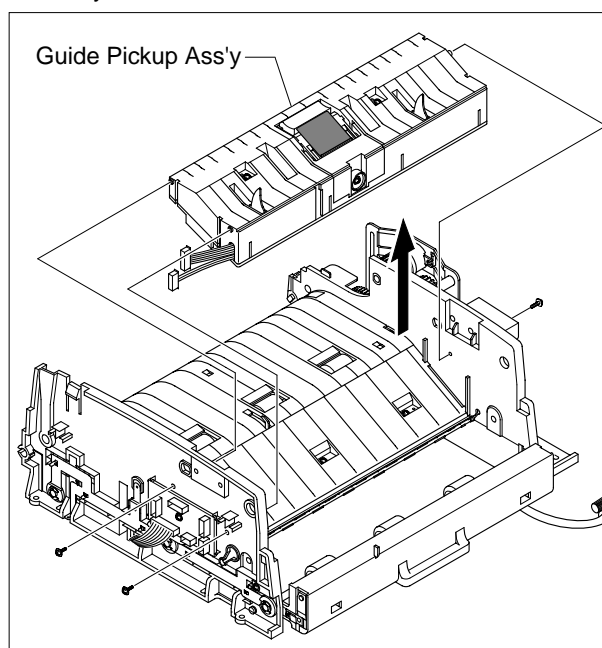
11. Unplug the Open Cover Sensor connector and remove the Open Cover Ass'y in the direction of arrow. Then release the harness, as shown below.



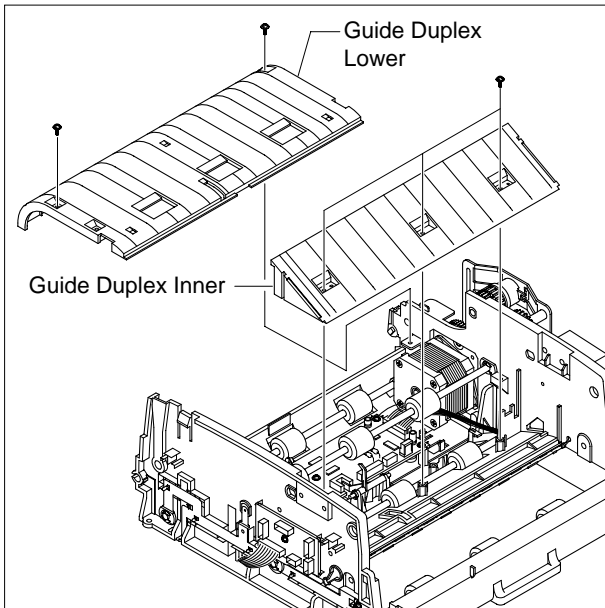
12. Open the Cover Exit Ass'y and unplug the two connectors.



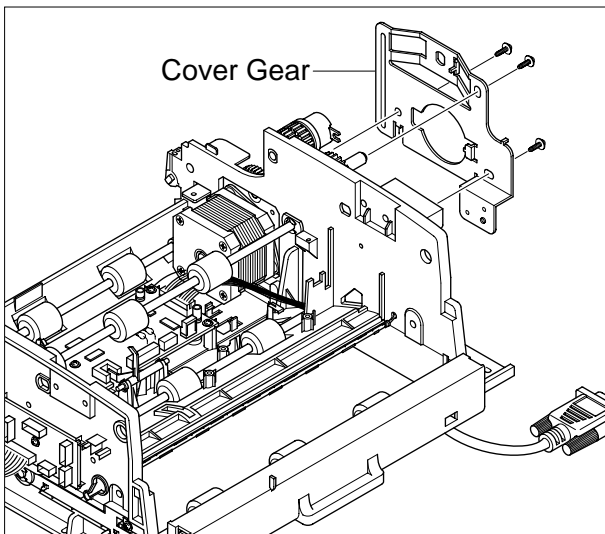
13. Remove the three screws securing the Guide Pickup Ass'y and remove it.



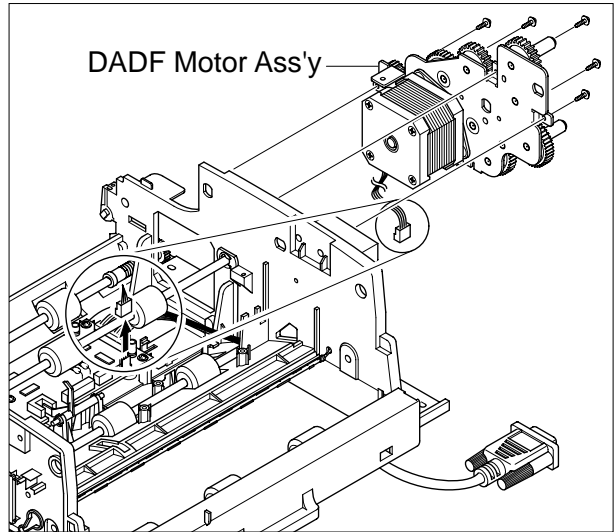
14. Remove the five screws securing the Guide-Duplex-Inner and Guide-Duplex-Lower covers. Then remove them.



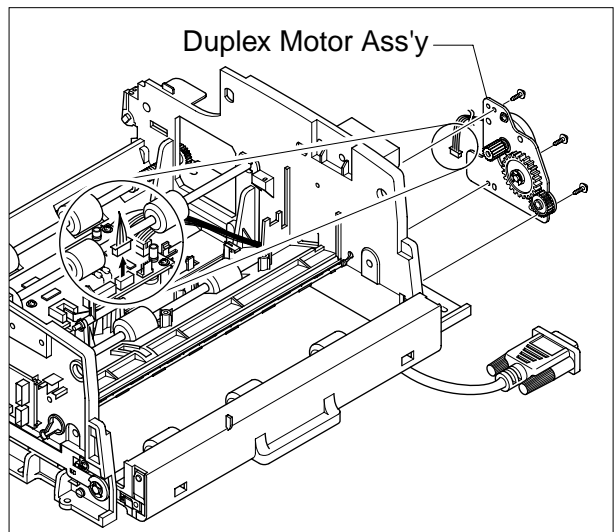
15. Remove the three screws securing the Cover Gear and remove it, as shown below.



16. Unplug the one connector. Then remove the five screws securing the DADF Motor Ass'y and remove it, as shown below.

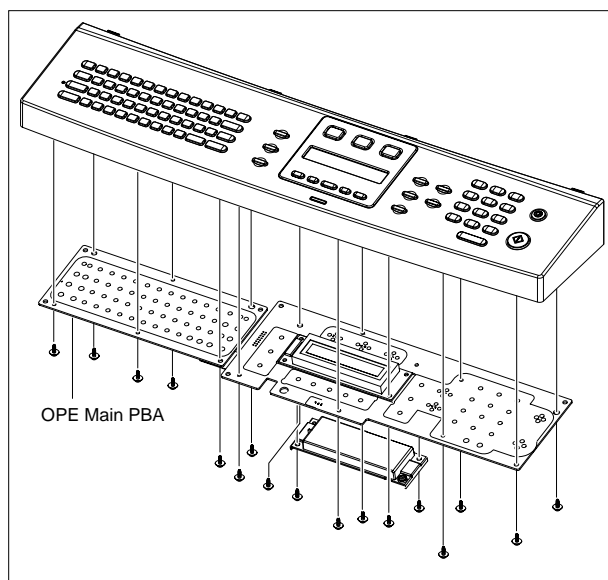


17. Unplug the one connector and three screws securing the Duplex Motor Ass'y and remove it.

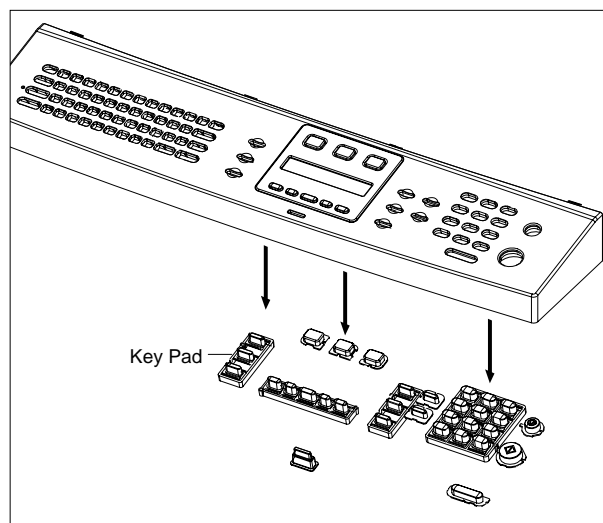


5.5 OPE Ass'y

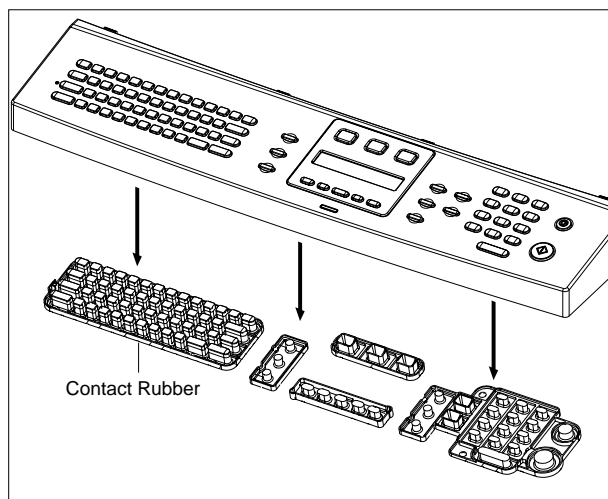
1. Before you remove the OPE Ass'y, you should remove:
 - Rear Cover (see page 5-1)
 - Scanner Ass'y (see page 5-2)
2. Remove eleven screws securing the OPE Main PBA and the LCD Module from the OPE Cover.



4. Remove the Key and Key Pad from the unit.

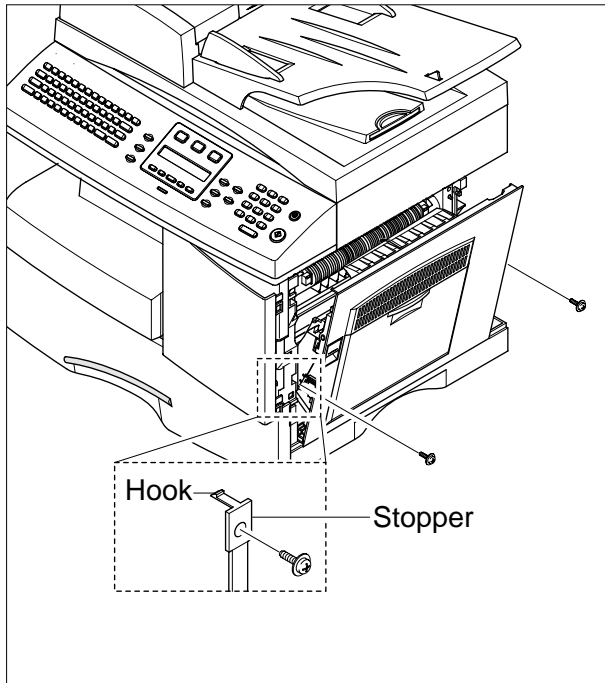


3. Remove the Contact Rubbers from the unit.

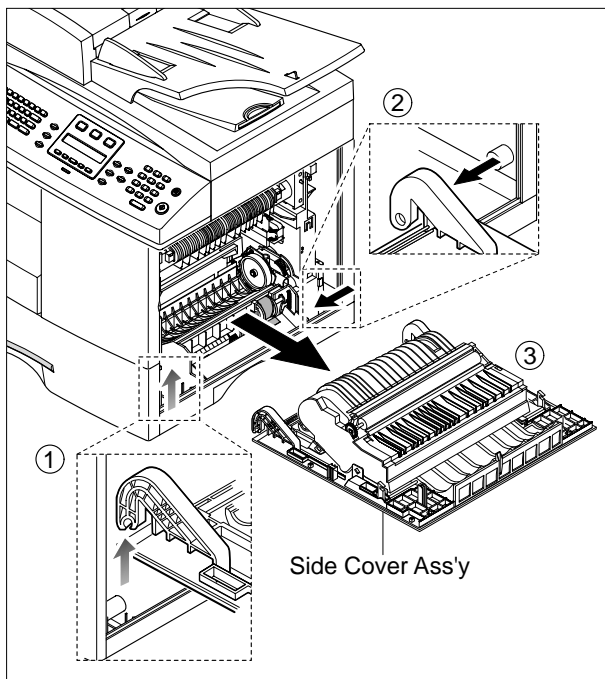


5.6 Side Cover Ass'y

1. Remove two screws to release the Stopper securing the Side Cover to the Main Frame.

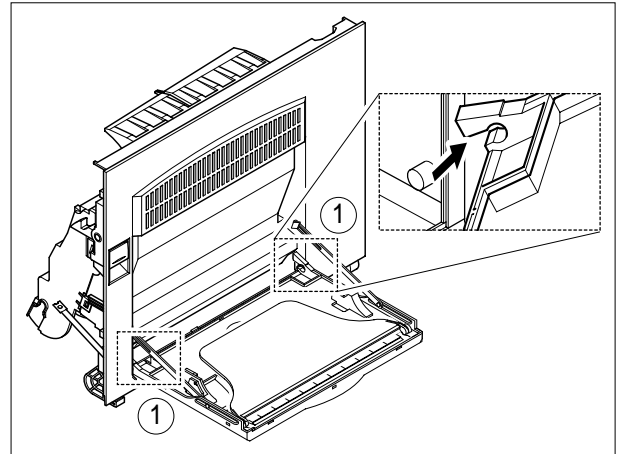


2. Lift hinge ① to release it and then slide the Side Cover Ass'y towards the front to release hinge ② and lift out the cover.

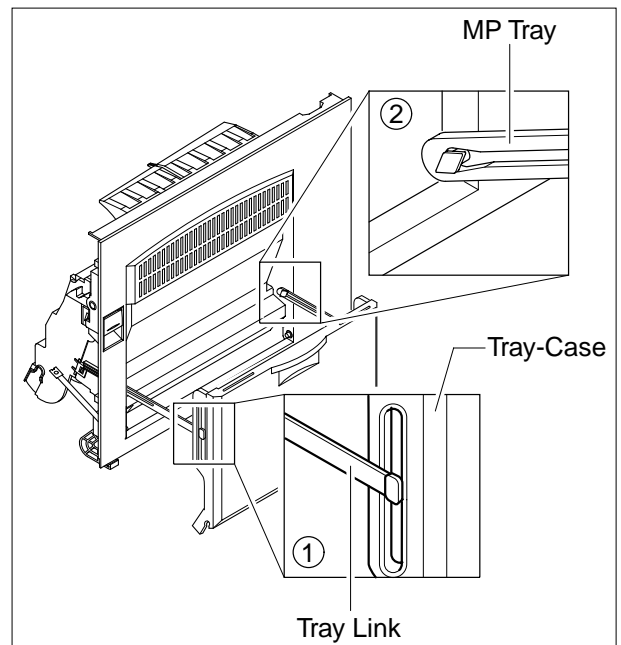


* MP-Tray

1. Pull firmly on both hinges ① to release them.

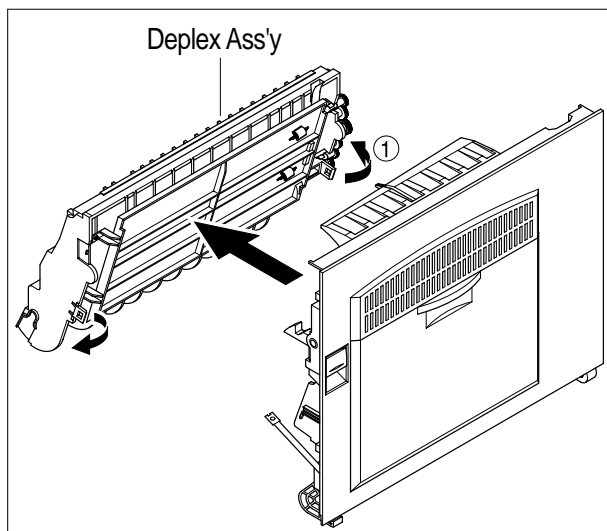


2. Taking care not to damage the Tray Links position the Tray Case so that the Tray Links are at 45° and release the Tray Links from the slot in the Tray Case.



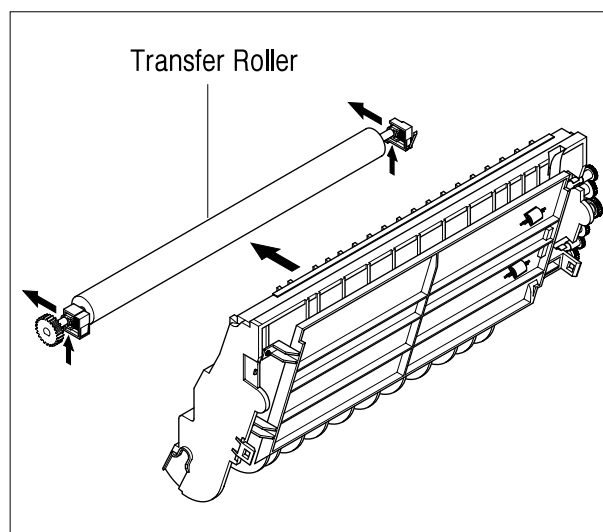
* Duplex Ass'y

1. Release 4 clips (2 each side – 1 black and 1 white). Then lift the Duplex Ass'y away from the Side Cover.



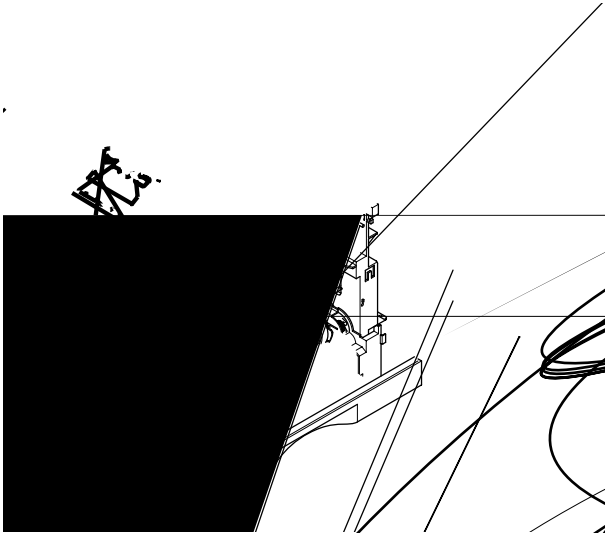
* Transfer Roller Ass'y

1. Release the colored plastic bushes at each end of the Transfer Roller and lift the roller out, as shown below.

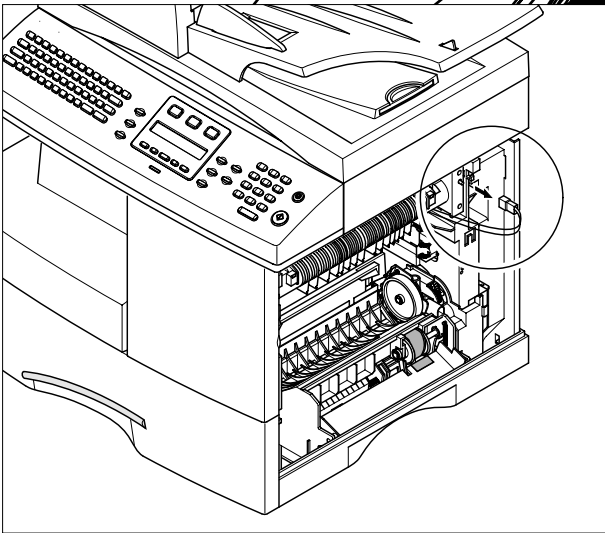


5.7 Fuser Ass'y

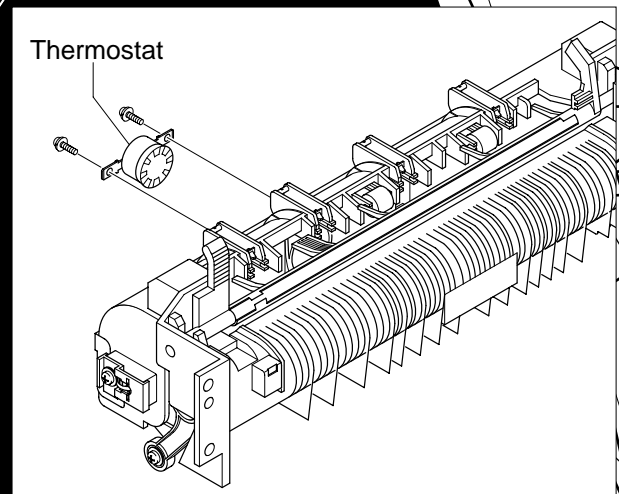
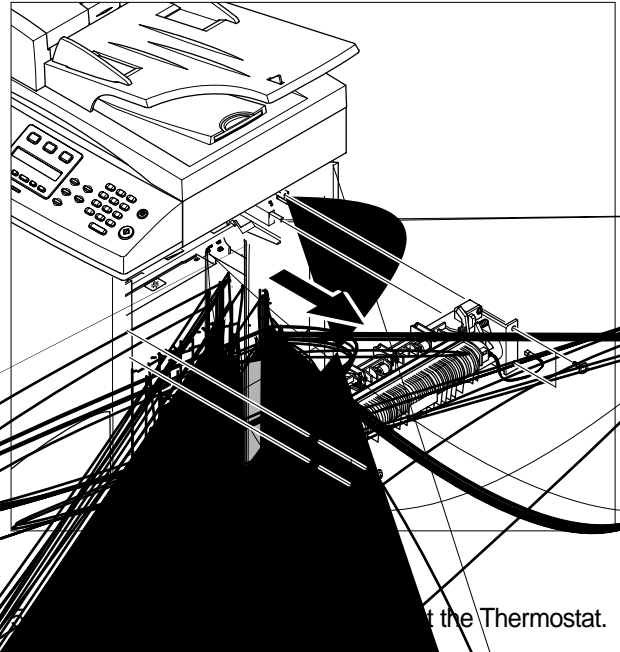
1. Before you remove the Fuser Ass'y, you should be power off and remove:
 - Rear Cover (see page 5-1)
 - Side Cover Ass'y (see page 5-12)
2. Remove the one screw and take out the Cover Sheet Connector.



3. Unplug the one connector.

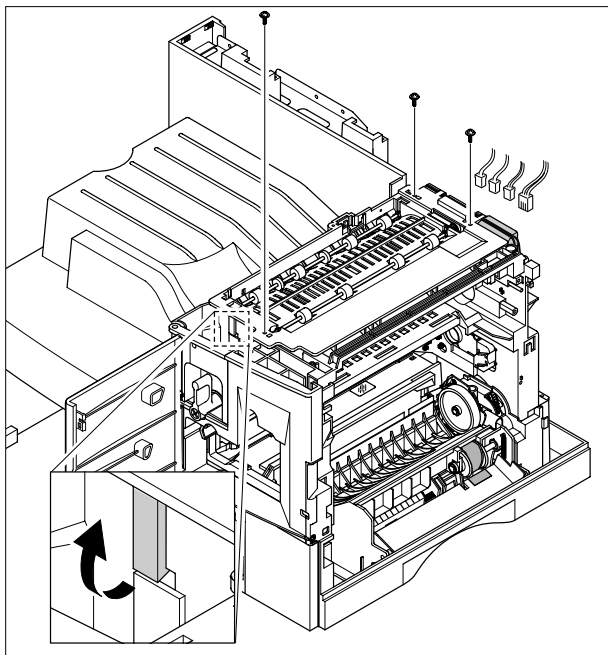


4. Open the Front Door and then remove the three screws and take out the Fuser Ass'y.

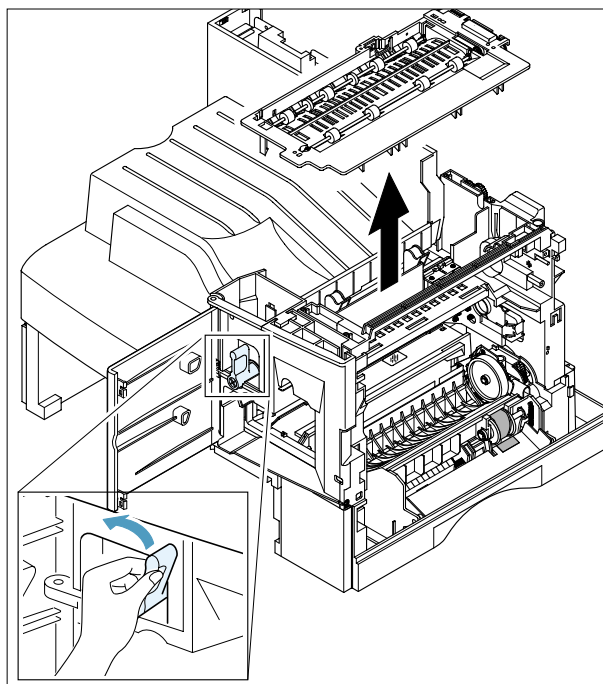


5.8 Exit Ass'y

- Before you remove Exit Ass'y, you should remove:
 - Rear Cover (see page 5-1)
 - Scanner Ass'y (see page 5-2)
- Remove three screws, and then untie the harness from the Exit Upper. Unplug one connector from the Main PBA and unlatch the Dummy Base Frame using a flat blade screwdriver, as shown below.

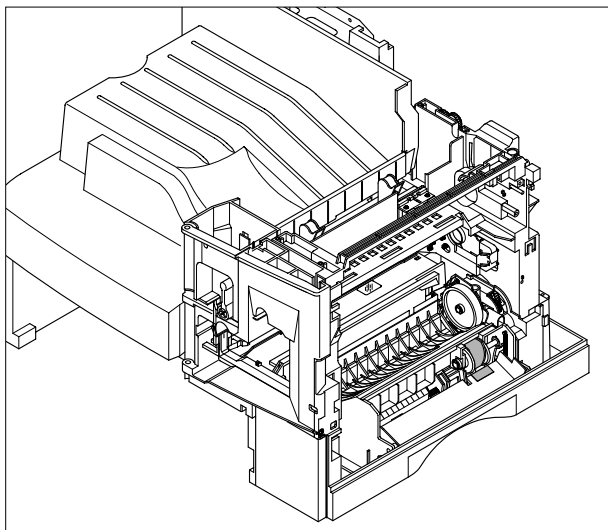


- Lift the exit ass'y and remove it.

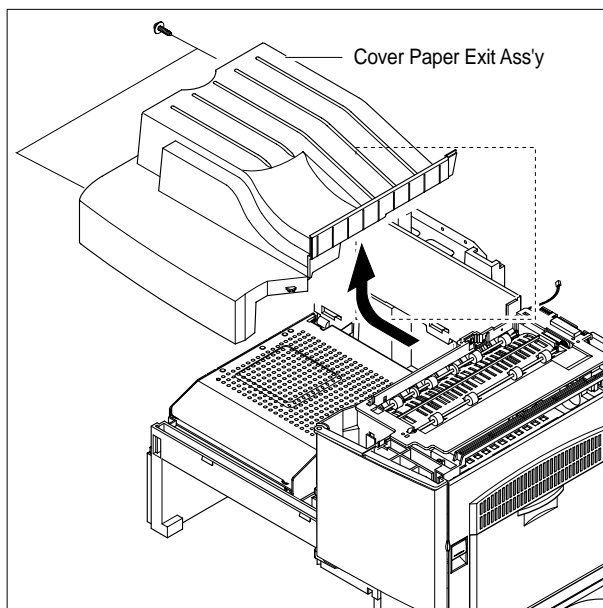


5.9 Cover Paper Exit Ass'y

- Before you remove the Cover Paper Exit Ass'y, you should remove:
 - Rear Cover (see page 5-1)
 - Scanner Ass'y (see page 5-2)

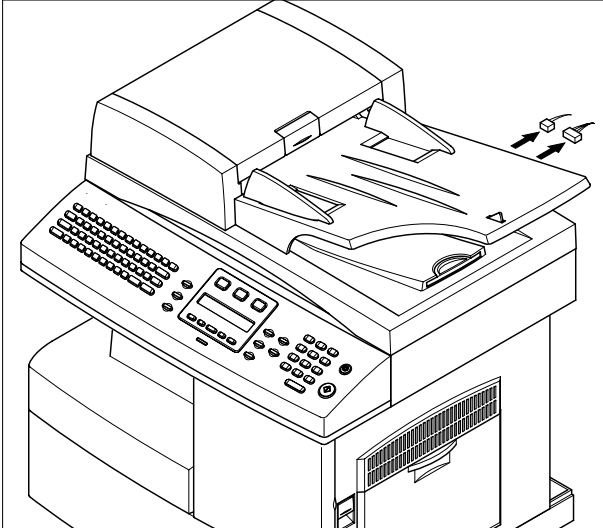


- Remove two screws and Cover Paper Exit Ass'y, as shown below.

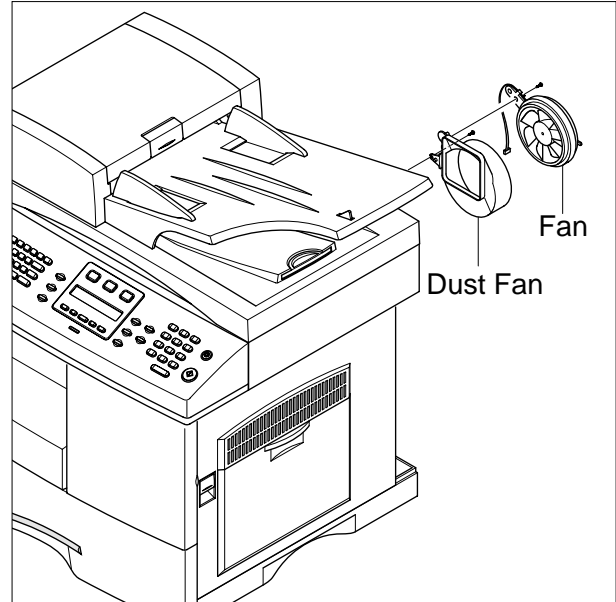


5.10 Drive Ass'y

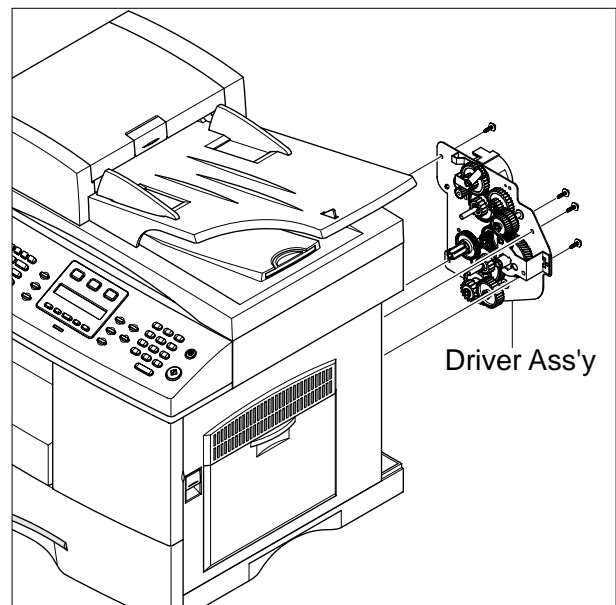
1. Before you remove the Drive Ass'y, you should remove:
- Rear Cover (see page 5-1)
2. Unplug the two connectors.
(Main Motor : 10 pin, Duplex Motor : 4 pin)



3. Disconnect the fan harness from the Main PBA.
Remove one screw and take out the Fan and Dust Fan.



4. Remove Five screws (2 screws securing ground wires and 1 screw securing the Zener PBA) and take out the Drive Ass'y. taking care not to damage the Zener PBA.

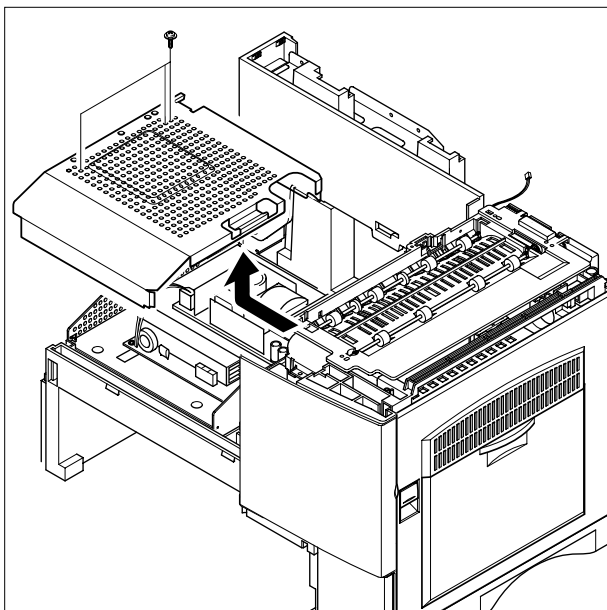


5.11 SMPS

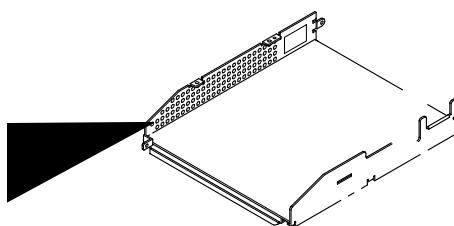
1. Before you remove the LSU, you should remove:

- Rear Cover (see page 5-1)
- Scanner Ass'y (see page 5-2)
- Cover Paper Exit Ass'y(see page 5-15)

2. Remove three screws and take out the Shield SMPS Upper.



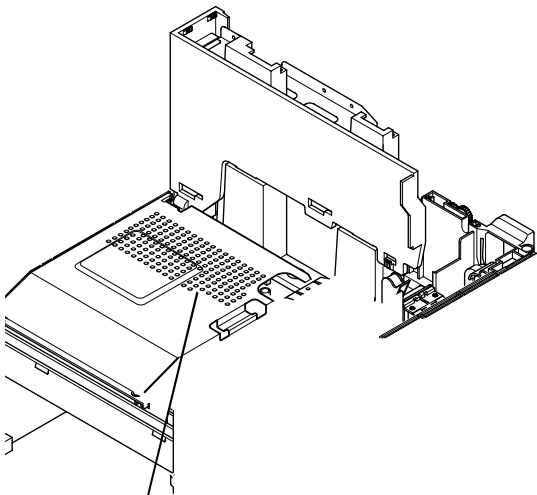
3. Unplug the all connectors, Remove the AC_INPUT Harness.



4. Remove the SMPS, as shown below.

5.12 LSU (Laser Scanning Unit)

1. Before you remove the LSU, you should remove:
 - Rear Cover (see page 5-1)
 - Scanner Ass'y (see page 5-2)
 - Cover Paper Exit Ass'y (see page 5-15)
2. Unplug the two connectors.
3. Remove the three screws and take out the LSU.

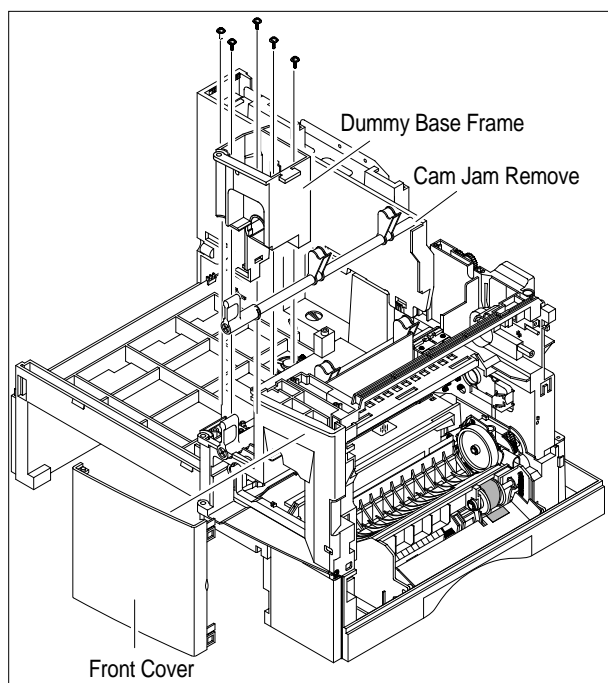


5.14 Main Frame Ass'y

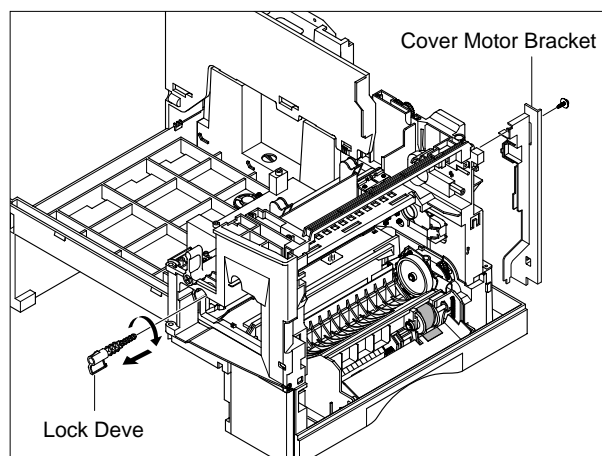
1. Before you remove the LSU, you should remove:

- Rear Cover (see page 5-1)
- Scanner Ass'y (see page 5-2)
- Side Cover Ass'y (see page 5-12)
- Fuser (see page 5-14)
- Exit Ass'y (see page 5-15)
- Cover Paper Exit Ass'y (see page 5-15)
- SMPS (see page 5-17)
- LSU (see page 5-18)

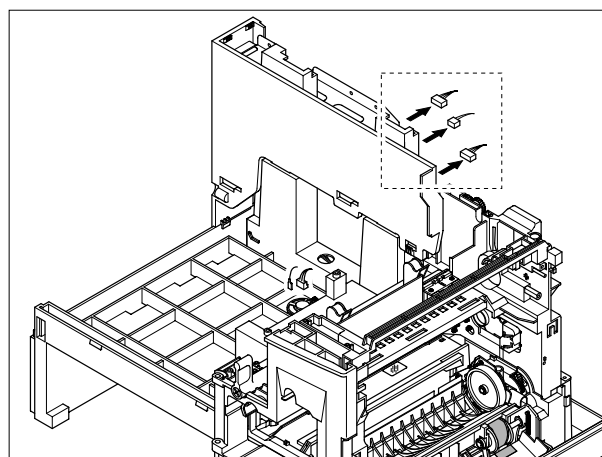
2. Remove 3 screws located inside the Dummy Base Frame and 1 screw securing the Dummy Base Frame to the Channel Base Frame. Disconnect the Counter harness. Lift out the Dummy Base Frame and the jam release mechanism.



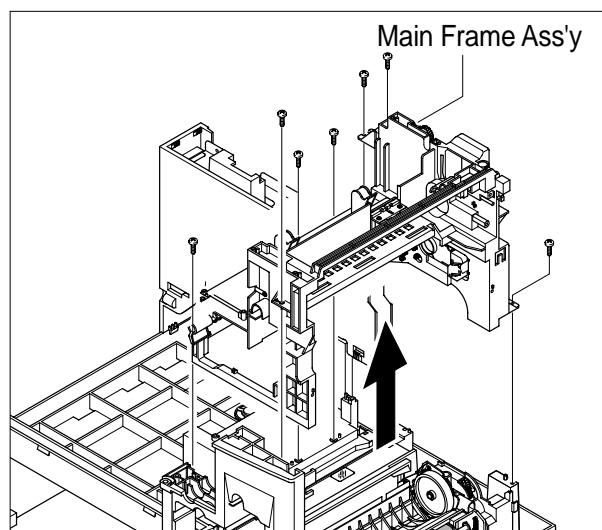
3. Remove the Lock Deve, and then remove one screw and the Cover Motor Bracket.



4. Disconnect the all harness.



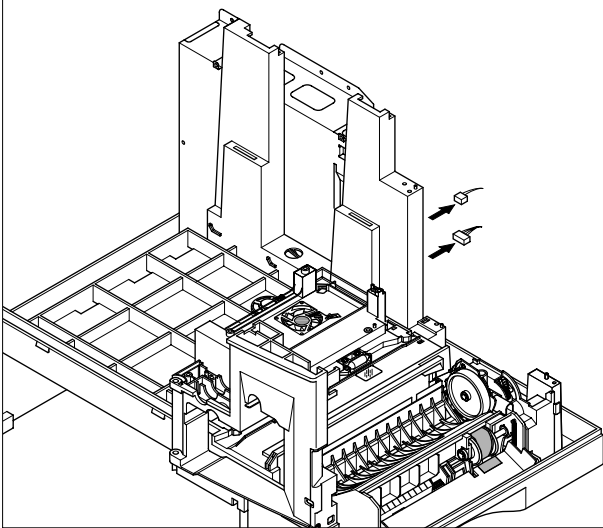
5. Remove the seven screws and take out the Main Frame Ass'y.



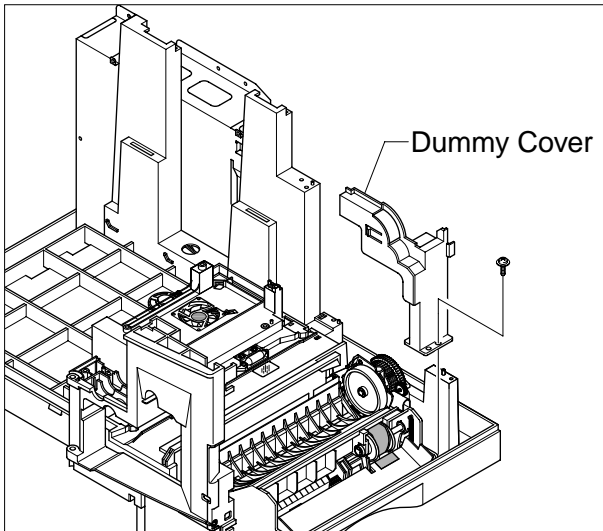
5.15 MP Ass'y

1. Before you remove the MP Ass'y, you should remove:
 - Rear Cover (see page 5-1)
 - Side Cover Ass'y (see page 5-12)

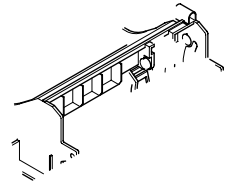
2. Unplug the two connectors.



3. Remove the one screw and take out the Dummy Cover.



4. remove the three screws.



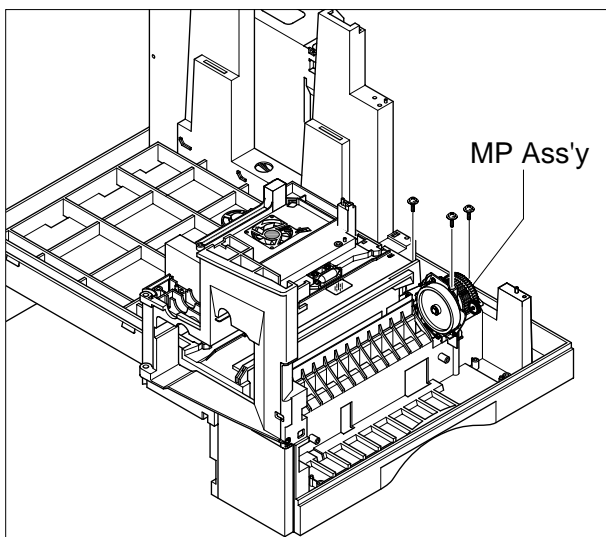
5. Release two hooks underneath the frame. Pull the MP Ass'y upward and remove it.

5.16 Feed Ass'y

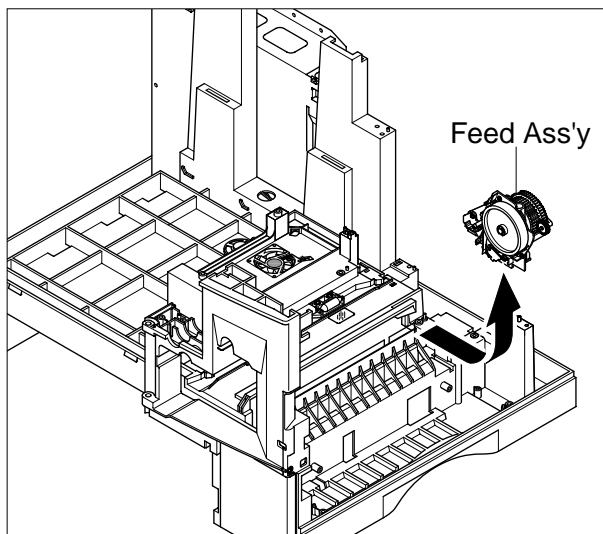
1. Before you remove the Feed Ass'y, you should remove:

- Rear Cover (see page 5-1)
- Scanner Ass'y (see page 5-2)
- Side Cover Ass'y (see page 5-12)
- Exit Ass'y (see page 5-15)
- Cover Paper Exit Ass'y (see page 5-15)
- LSU (see page 5-18)
- Main Frame Ass'y (see page 5-19)
- MP Ass'y (see page 5-20)

2. Remove the three screws.



3. Pull the Feed Ass'y upward and remove it.

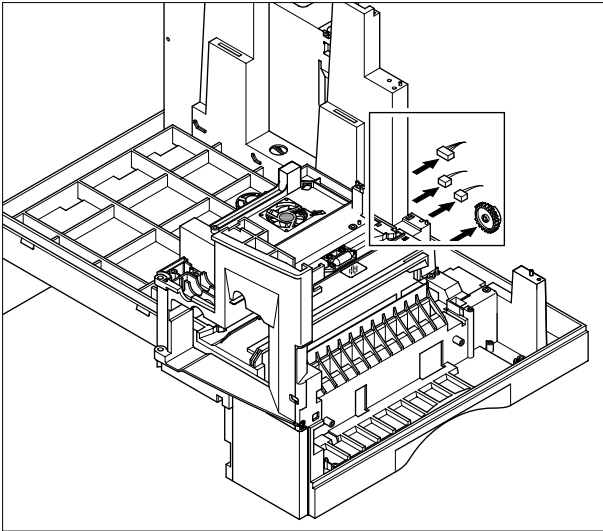


5.17 Pick Up Ass'y

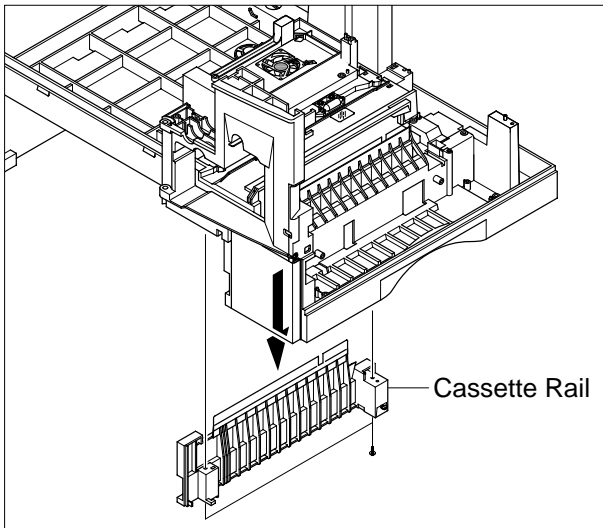
1. Before you remove the Pick Up Ass'y, you should remove:

- Rear Cover (see page 5-1)
- Drive Ass'y (see page 5-16)

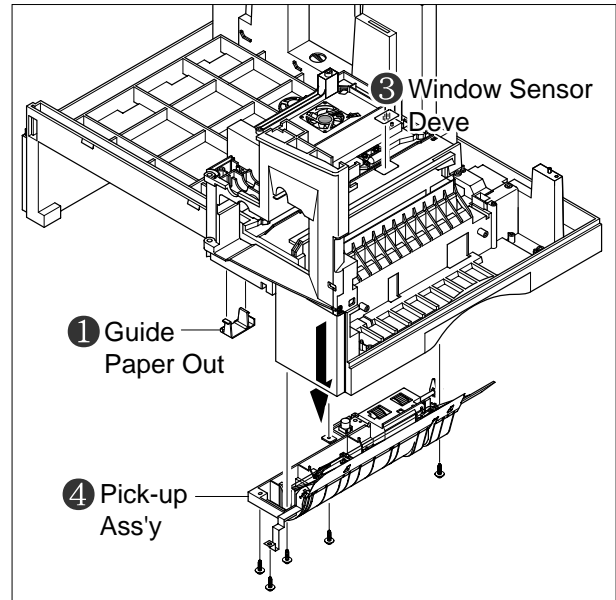
2. Remove three connector and take out the pick up gear.



3. Remove the two screws and take out the Cassette Rail.



4. Remove the five screws and remove the Guide Paper Out shown below. Release the paper Pickup Roller bush(white plastic clip) and take out the Pick Up Ass'y, as shown below.



*② lift the Bearing Shaft by cross at right angles



5.18 Main PBA

To remove the Main PBA without major disassembly

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

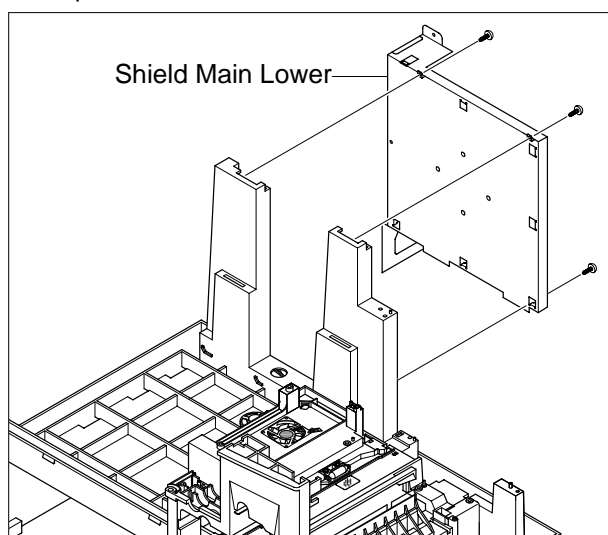
- Rear Cover (see page 5-1)

Goto Step 4

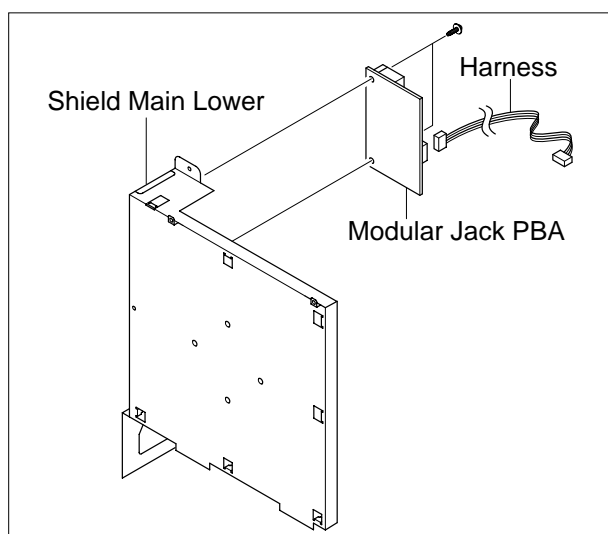
In order to remove the Shield Main Lower you must also remove:

- Scanner Ass'y (see page 5-2)
- Cover Paper Exit Ass'y (see page 5-15)
- SMPS (see page 5-17)

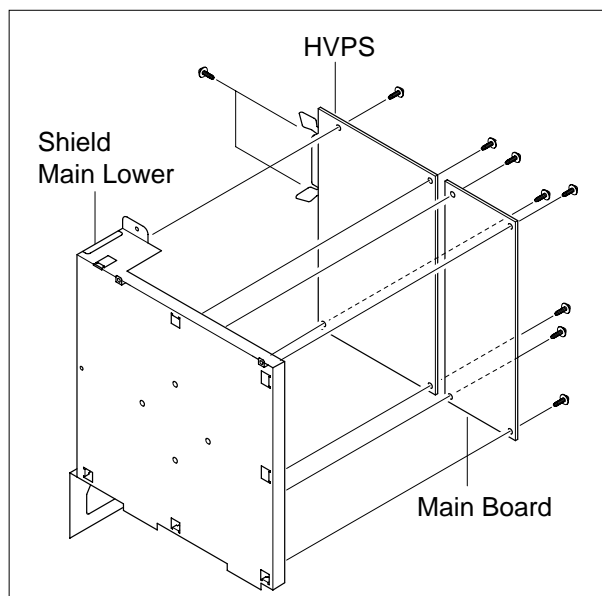
2. Remove the three frame screws and 2 ground wire screws. Take out the Shield Main taking care to ease the power socket from the LH frame.



3. Remove the two screws securing the connect screw. Take out the Modular Jack PBA from the Shield Main Lower.



4. Remove the ten screws securing the connect screw. Take out the Main PBA and HVPS from the Shield Main Lower.



5. If fitted release the plastic support securing the network card to the Main PBA and HVPS.

