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.
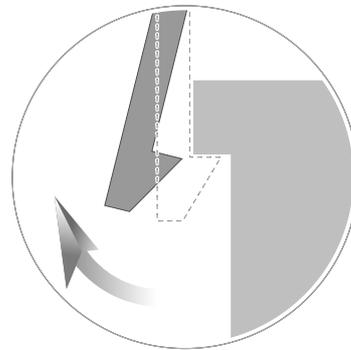
5.1.1 Screws used in the printer

No.	SEC_Code	Location	Description & Specification	QT'y
S1 (BH Short)	6001-000130	HDD	SCREW-MACHINE;BH,+,M3,L6,ZPC(WHT), SWRCH18A,-,-	4
S2 (WH Long)	6002-000440	GND EXIT ROLL	SCREW-TAPPING;PWH,+,-,2,M3,L8,ZPC(BLK), SWRCH18A,-	1
			SWRCH18A,-	1
S3 (WH Long)	6003-000196	BRACKET_JOINT+MAIN FRAME	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
			SWRCH18A	1
		GROUND_OPE SIDE	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		PBA SUB-AIR_TMP	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		PLATE-P_FEED UPPER	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		STOPPER_M FAN80	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		UNIT SUPPORT SCAN	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		BRACKET-P_CHANNEL	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		BRACKET-P_SUP SCAN F	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	3
		CBF HARNESS_HVPS(3P	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		ELA HOU-CVR OPN	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		ELA HOU-TERMINAL	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		FAN-DC LSU	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		FRAME-M_COVER REAR	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		GROUND-P_OPC CONTACT	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		HOLDER-M_DEVE CONN	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		HOLDER-M_FUSER TERM	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		HOLDER-P_FUSER	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		MEA UNIT-DAMPER,L	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		MEA UNIT-F DR	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1

No.	SEC_Code	Location	Description & Specification	QT'y
		MEA UNIT-REGI F	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		MEA UNIT-REGI R	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		HOLDER_CST_R	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		HOLDER_FEED_MP	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		UNIT MP	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		UNIT_BASE_PLATE_R	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	5
		UNIT_HOLDER_PAD	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		BRACKET_ARM_FR	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		GUIDE_PICKUP_BASE	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	3
		SPEAKER	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		HOUSING_BASE_LEFT:3	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	3
		PBA DADF	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		COVER-EXIT BRK	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		COVER-EXIT REAR	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
		COVER-FRONT ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		COVER-PANEL MFP	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		COVER-UPPER ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	5
		DRIVE-FUSER	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		DRIVE-MAIN	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	7
		EXIT-ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	4
		LSU GND	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	1
		OPE ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	3
		SIDE-COVER ASSY	SCREW-TAPTITE;PWH,+,B,M3,L10,NI PLT, SWRCH18A	2
S4 (BH Short)	6003-000269	BASE FRAME+MAINFRAME	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	5
		CAP_INLET	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		GROUND_FUSER	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
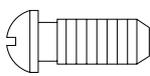
No.	SEC_Code	Location	Description & Specification	QT'y
		GROUNND_DRV	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	1
		UNIT-SUPPORT	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	7
		VARISTOR	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	1
		BASE PLATE_R	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		ELA FEED UPPER DP	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		GUIDE-P_SHIELD SMPS	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	1
		GUIDE_FEED_UPPER	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	3
		HOUS_CST_SENSOR	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	3
		BRACKET_HANDLE_	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		BRACKET_HANDLE_L	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		GROUND_TOP	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	1
		HOLDER_CST	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		BRACKET-P_JOINT BASE	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		HOUS_PICKUP	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	4
		PLATE_BEAM_BASE	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		CBF_HARNESS_GND	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	1
		GROUND-P_SPRING SCAN	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	1
		GUIDE_SHIELD_SMPS	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		PLATE_FINISHER_REAR	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	4
		SHIELD_MAIN LOWER	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	7
		(dadf motor)	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		duplex motor	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	2
		WHITE BAR	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	1
		COVER-M BARRIER	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	1
		HVPS	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	4
		IH + SHIELD ASSY	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL),SWRCH18A,-	5

No.	SEC_Code	Location	Description & Specification	QT'y
		IH ASSY	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
		MAIN BD	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	5
		SMPS ASSY	SCREW-TAPTITE:BH,+,-,S,M3,L6,ZPC(YEL), SWRCH18A,-	1
S5 (BH Long)	6003-001256	PLATE-P_FINISHER F	SCREW-TAPTITE:BH,+,B,M4,L10,NI PLT, SWRCH18A	2
		COVER-EXIT- BOTTOM	SCREW-TAPTITE:BH,+,B,M4,L10,NI PLT, SWRCH18A	2
		LSU ASSY	SCREW-TAPTITE:BH,+,B,M4,L10,NI PLT, SWRCH18A	4
		REAR COVER	SCREW-TAPTITE:BH,+,B,M4,L10,NI PLT, SWRCH18A	6
		SCAN-ASSY	SCREW-TAPTITE:BH,+,B,M4,L10,NI PLT, SWRCH18A	7
S6 (PH Long)	6006-001078	SMPS	SCREW-TAPTITE:WSP,PH,+,M3,L10,ZPC(YEL), SWRCH18A	4
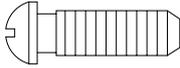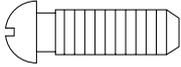
5.2 Customer Replaceable Units

There are 3 replaceable Customer Replaceable Units (CRUs) on the machine:

· **Toner Cartridge**

· **Drum Cartridge**

· **Staples**

· **Fuser Unit**

The machine will display a message on the touch screen when any of the above need to be reordered. This message is a warning that the unit is nearing the end of its life. Only replace the unit when a message actually instructs you to do so.

To replace a CRU, follow the instructions on the User Interface or refer to the relevant sections below.

CAUTION: When replacing consumables, DO NOT remove the covers or guards that are fastened with screws. You cannot maintain or service any of the parts that are behind these covers and guards. DO NOT attempt any maintenance procedure unless specifically described in the documentation supplied with your machine.

5.2.1 Toner Cartridge

This procedure shows you how to remove a used toner cartridge and replace it with a new toner cartridge.

New toner cartridges have a capacity of approximately 20,000 images with an average area coverage of ISO19752 Std.. The machine will indicate the percentage of toner used and the number of days remaining. When the notification message is enabled, the machine will tell you when you will need to order a new cartridge and when to fit it.

If the feature is enabled, a message will appear on the display screen advising you to replace the toner cartridge. If you want to replace the toner cartridge now, open the front door. The instructions on the screen will tell you how to fit a new cartridge.

If you do not want to replace the toner cartridge now you can select the Abort button. The machine will continue to operate but will NOT make copies or prints.

1. Open the right side cover
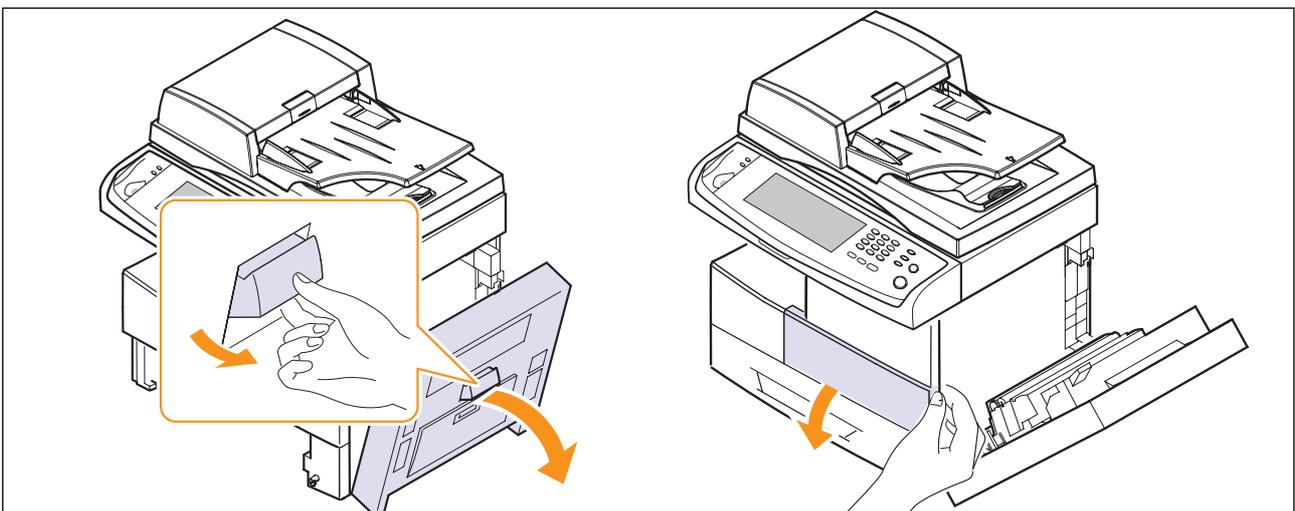
2. Open the front cover.

3. Turn the locking lever clockwise

Locking lever

4. Lift the latch to release the toner cartridge and remove the used toner cartridge.

Latch
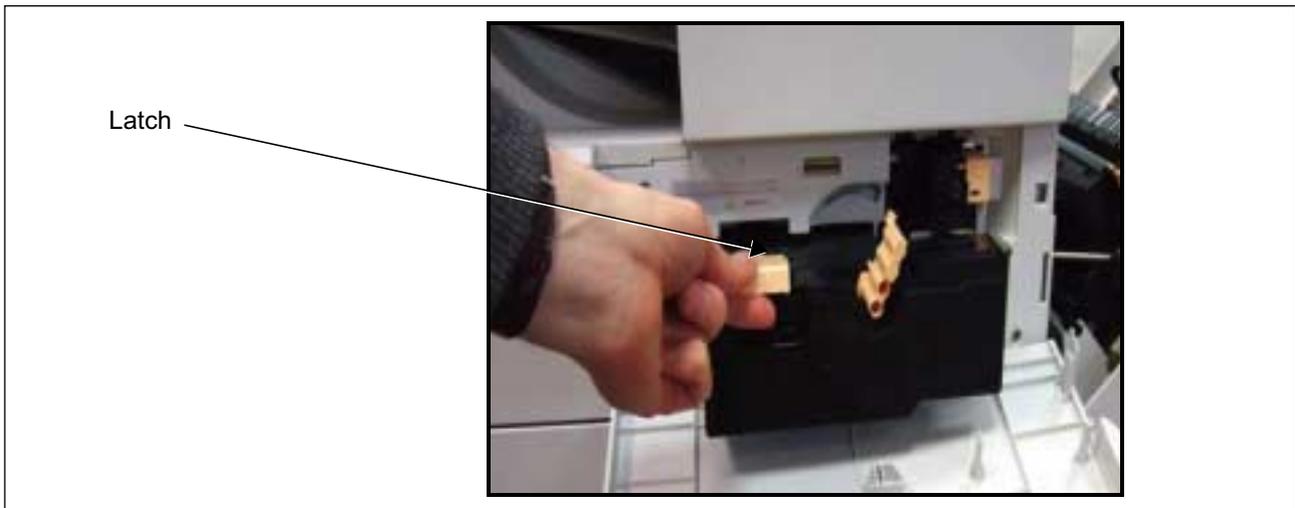
The instructions that are packed with the new toner cartridge will tell you how to dispose of the used toner cartridge.

⚠ **WARNING:** Only install the correct samsung Toner Cartridge in the machine.

5. Before unpacking the new toner cartridge, shake well to distribute the toner. Remove from packaging.

6. To fit the new toner cartridge, slide the top of the cartridge into the grooves at the top of the cartridge slot.

7. Turn the locking lever counter-clockwise.

8. Close the front cover.

9. Close the right side door.

10.Press the Confirm button on the machine display.
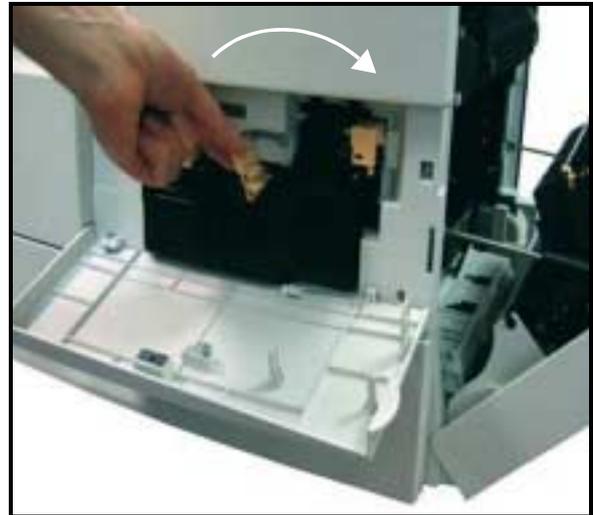
ⓘ *If after fitting a new toner cartridge the front door will not close, check that the toner cartridge is positioned and latched correctly.*

If you have replaced the toner cartridge as a result of a "Replace the Toner Cartridge" message on the machine display, the machine will assume that you have fitted a new cartridge and reset the toner usage counters and messages.

If, however, you have fitted a new toner cartridge without being instructed to do so by the machine display, the toner usage counters will need to be reset manually. This is done in the Access tools mode using the Supplies Management - Toner Cartridge Re-order Notification feature.

5.2.2 Replacing the Drum Cartridge

This procedure shows you how to remove a used Drum Cartridge and replace it with a new one.

Depending on the type of Drum Cartridge, approximately 60,000 images are provided. The machine will tell you when you need to order a new cartridge and when to replace the cartridge.

The Drum Cartridge can be recycled so please follow the disposal instructions you receive with the new items.

⚠ **WARNING:** Remove the toner cartridge before attempting to remove the ᴹ Drum Cartridge.

1. Open the right side cover.
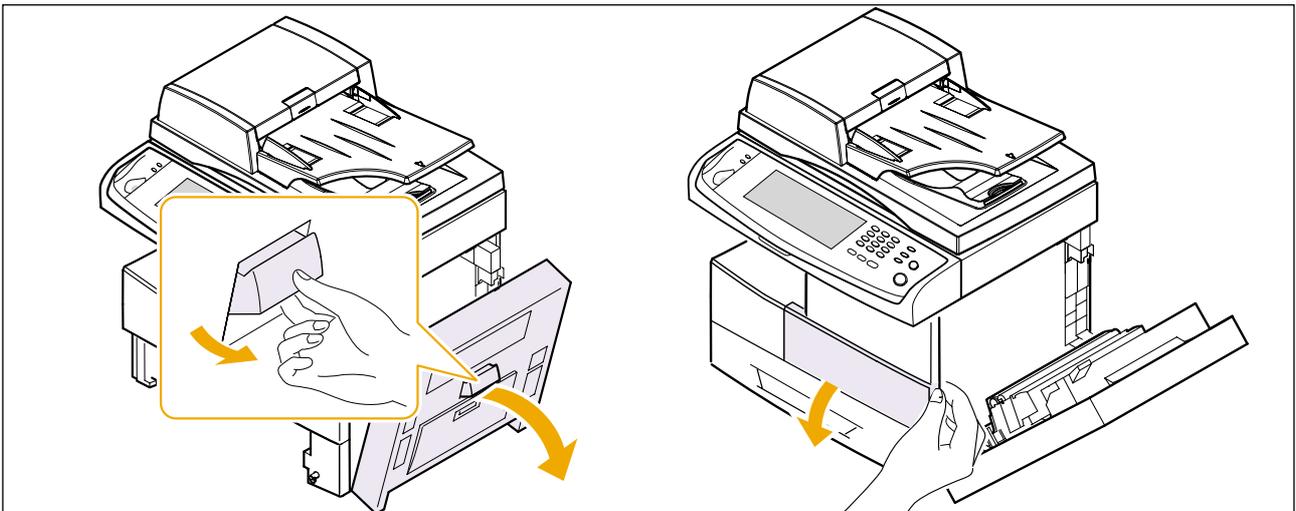
2. Open the front cover.

3. Turn the locking lever clockwise.

Locking lever
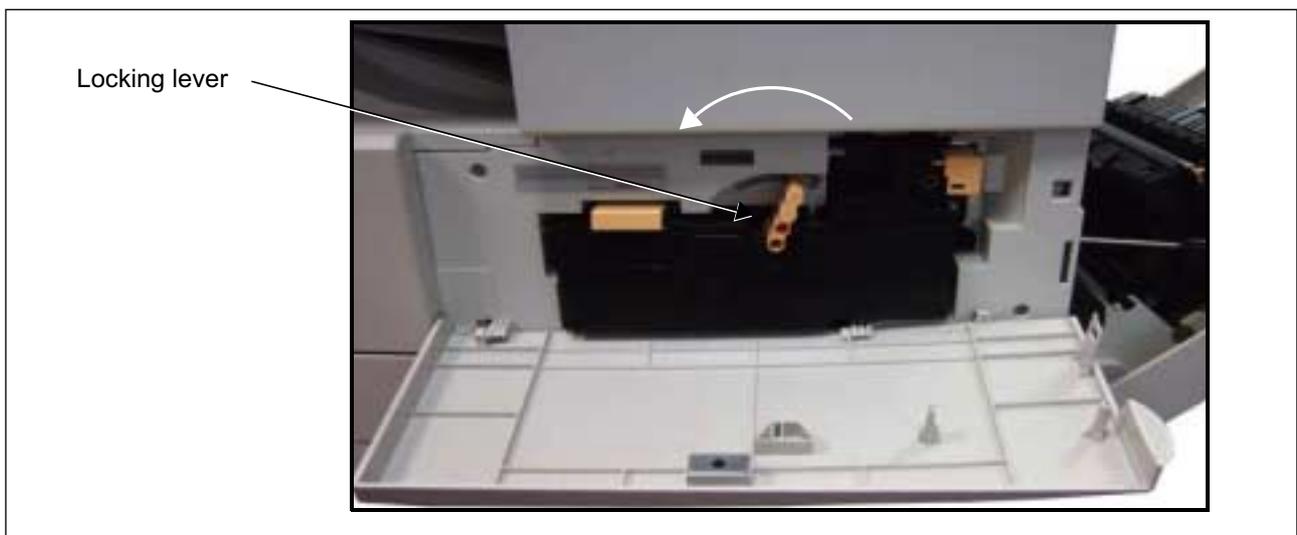
4. Lift the latch to release the toner cartridge and remove the toner cartridge.

Latch
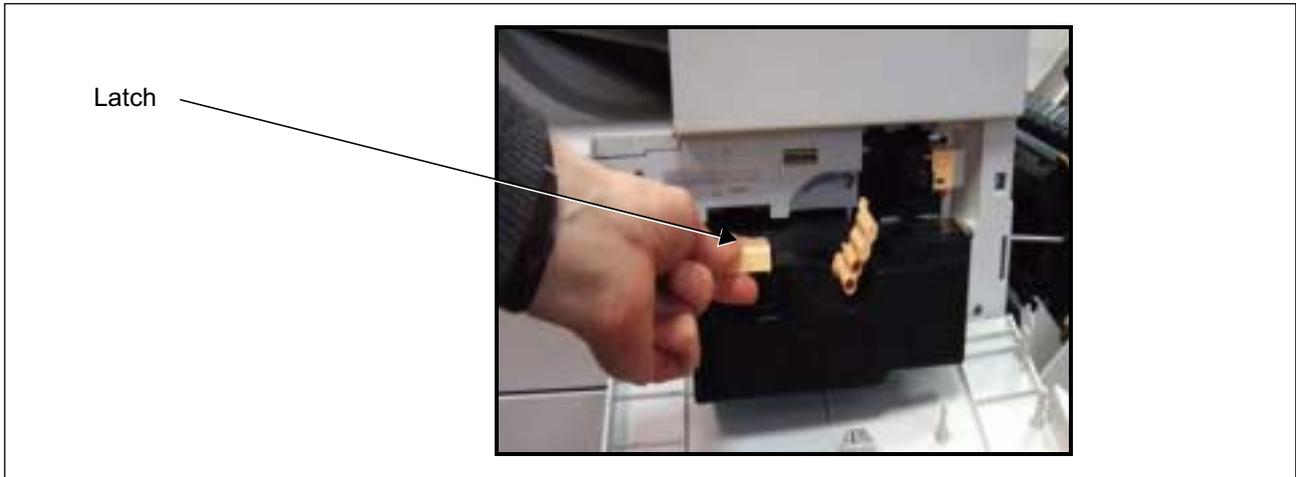
5. Squeeze the retaining clip and remove the used SMart Kit ™ Drum Cartridge.

Retaining Clip
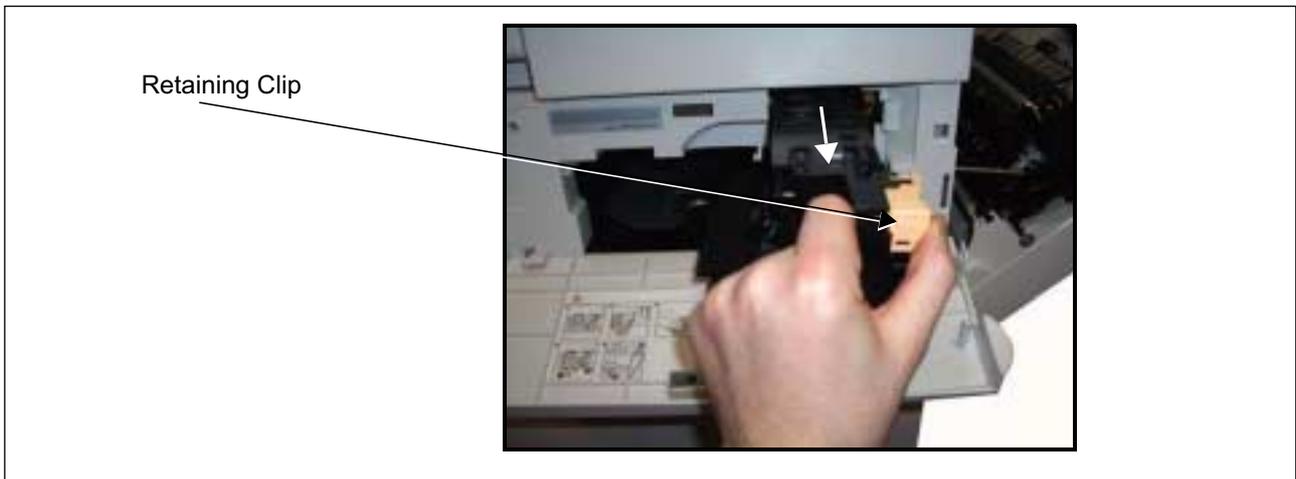
6. Hold the empy Drum Cartridge away from you to avoid spilling any toner residue and dispose of it according to the instructions contained in the new Drum Cartridge box.

⚠ **WARNING:** Only install the correct samsung Drum Cartridge in the machine.

7. Unpack the new Drum Cartridge.

8. Remove the protective paper and seal tape from the cartridge.

9. Slide the Drum Cartridge into the frame in the machine.

10.Replace the toner cartridge (see above).

11.Rotate the latch to lock the cartridge in place. Close the front door. If the front door will not close, check that the Drum Cartridge is positioned and latched correctly.

12.Close the side door.

13. Press the Confirm button on the machine display.

5.2.3 Staples

This procedure shows you how to remove a used staples unit and replace it with a new staples unit.The machine will tell you when you need to order a new cartridge and when to replace the cartridge.

1. Open front left cover.
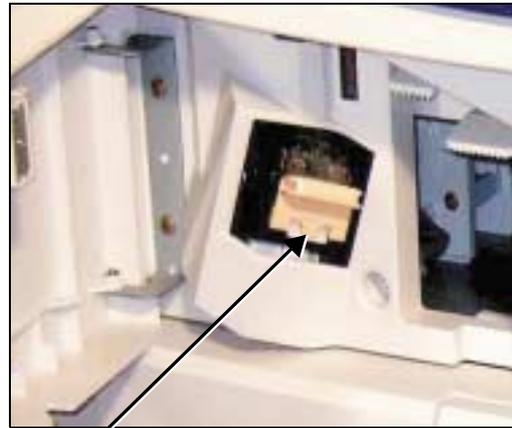
Staples Unit

2. Use the latch to pull out the staples unit. Remove the staples unit.

3. Lift the empty staple pack from the staple unit.

⚠ **WARNING:** Ensure that you have the correct Staples unit for your machine. Units for similar samsung machines may look the same but WILL NOT WORK.

4. Unpack the new staples pack.

5. Place staples pack back into the staples unit.

6. Ensure the unit is the correct way up. Slide the staples unit securely into the machine.

7. Close the front left cover.
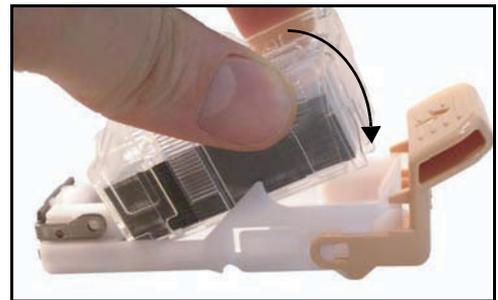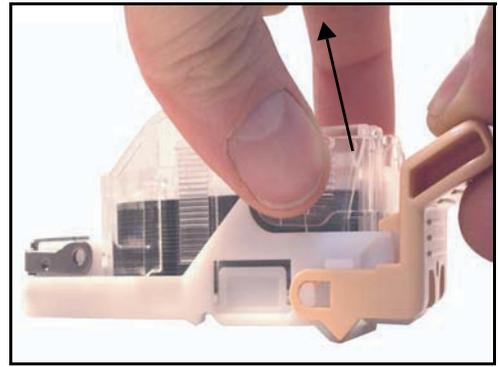
5.2.4 Fuser Unit

1. Open the side door.

2. Remove the four screw and take out Fuser Unit.
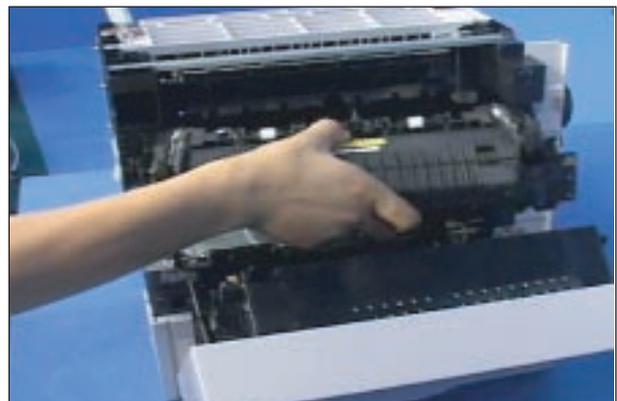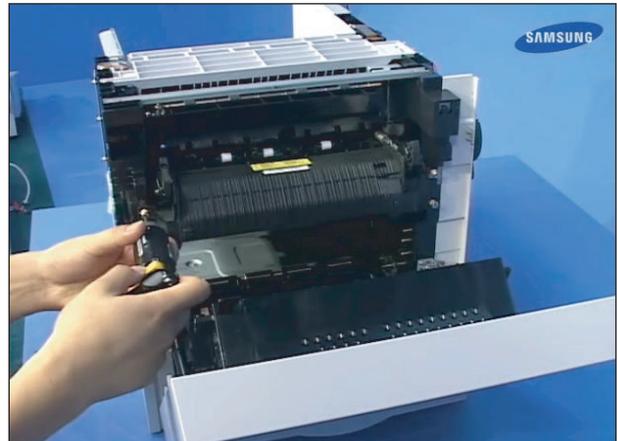
5.3 General Disassembly

5.3.1 Cover

1.Unplug the finisher harness connector.

2. Open front left cover.

3. Remove the finisher on machine.

Pushing Lever

4. Remove the screw cap of the side cover.

Screw cap

5. Remove the screw of the side cover.

6. Take out the frame case.

7. Frame to the case, shown below.

8. Open the side duplex cover.

9. Remove the cassette tray.

10. Remove the two screws securing the front cover ass'y.

11. Remove the two scres securing the Deve cover.

12. Frame to the case, shown below.

13. Remove the two screws.
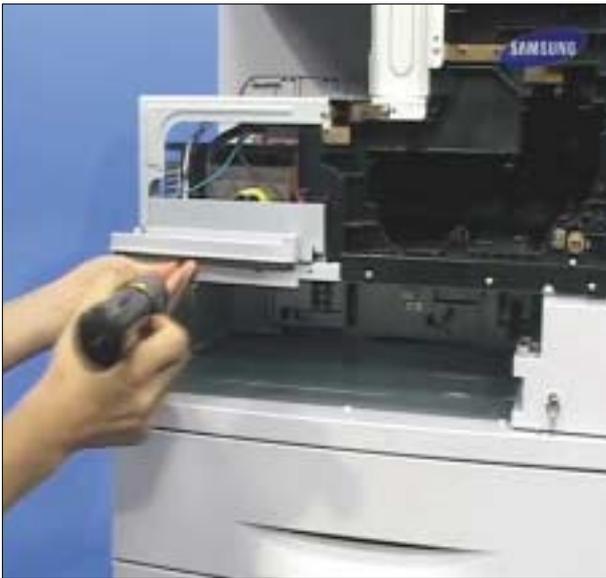
14. Remove the two screws of the stand base by hand.

15. Remove the five screws securing the rear cover ass' y.

16. Take off the rear cover ass'y.

17. Frame to the case, shown below.

5.3.2 Finisher Ass゛y

1. Pull the connector from the SET.

2. Pull the Finisher carefully from the SET with pushing the latch.

3. Release the stacker from the Finisher in the direction of arrow.
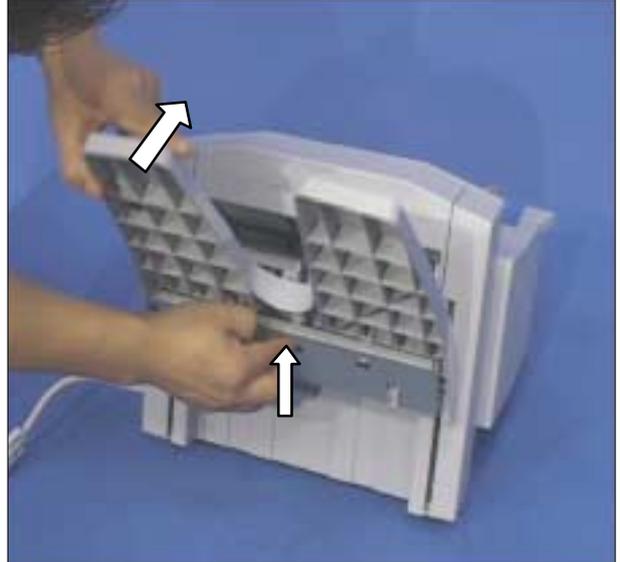
4. Use the latch to replace the staple unit
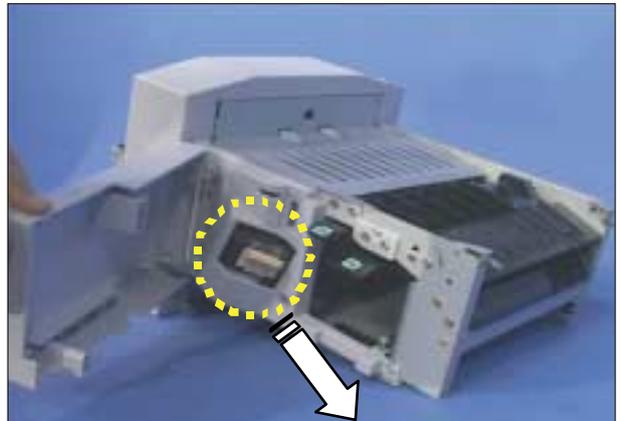
5.3.3 DADF Ass⟩y

1. Remove the one screw, and pull the cover in the direction of big arrow with releasing the hook in the direction of small arrow.
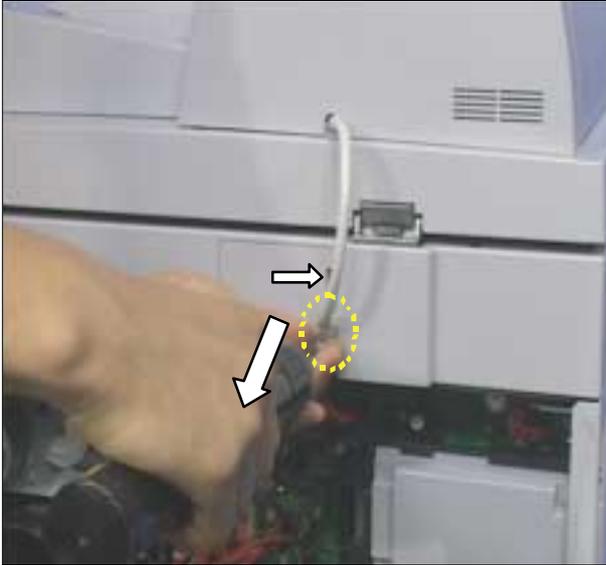
2. Pull the Scanner from the SET in the direction of arrow.
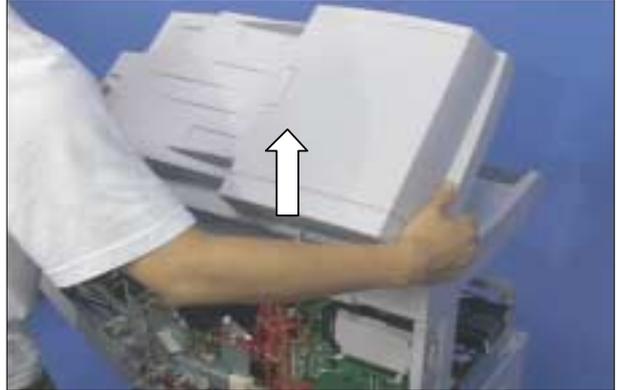
5.3.4 Platen Cover Ass⟩y

1. Remove the two screws, and pull the stacker cover.

2. Remove the two screws after pulling the Cassette.

3. Open the front cover and remove the two screws.

4. Remove the four screws.
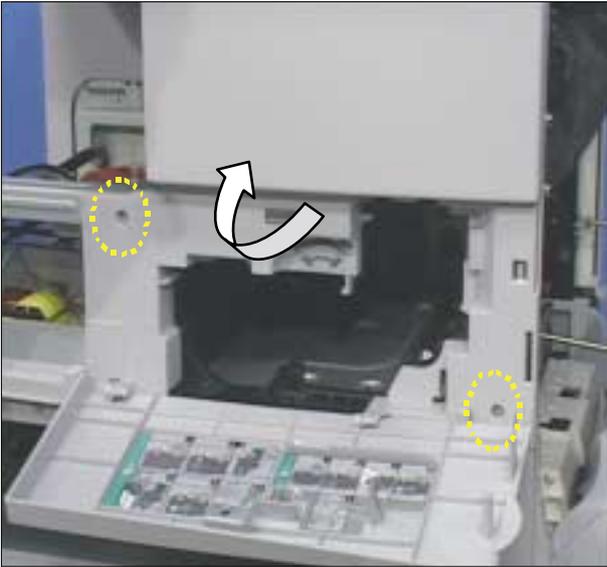
5. Remove the two pins and six screws.
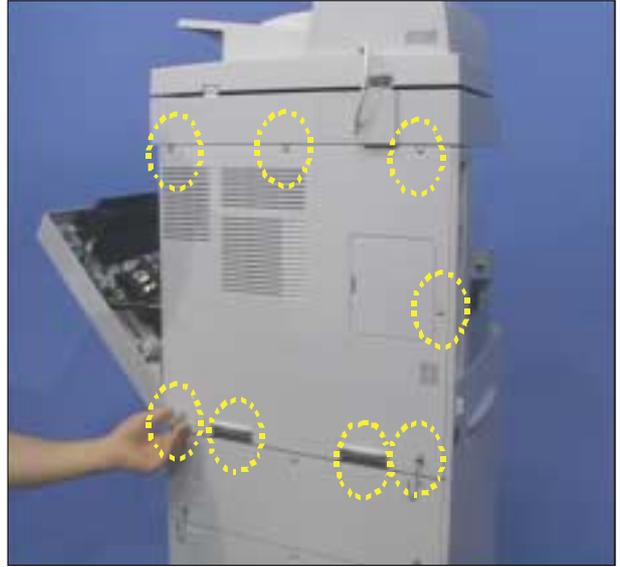
6. Remove the three screws and unplug the three connectors.
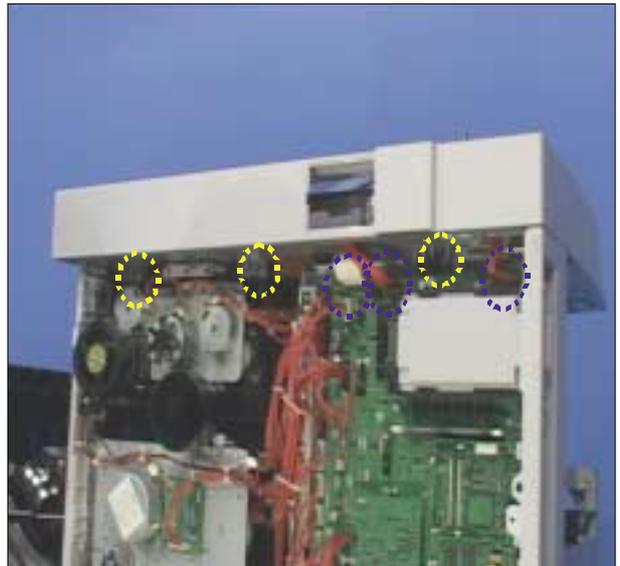
5.3.5 Fax Unit

1. Remove the two screws, and pull the FAX from the SET.
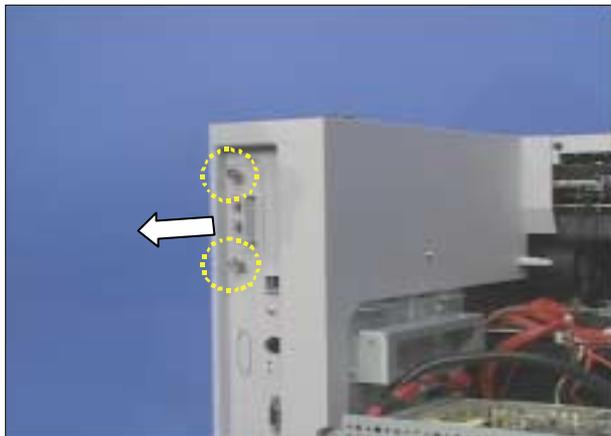
5.3.6 PBA(Main BOARD)

1. Remove the one screw and pull the USB board.

2. Unplug the hook and pull the sub board.

3. Unplug the connectors from the main board and remove five screws.
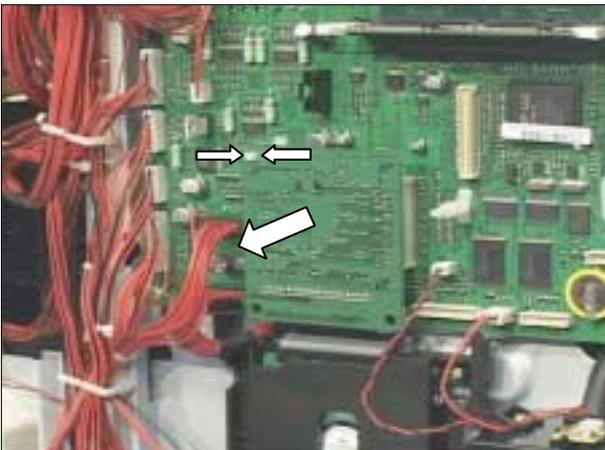
5.3.7 PBA(SMPS & IH board)

1. Remove the one screw.

2. Pull the SMPS and unplug the connectors.
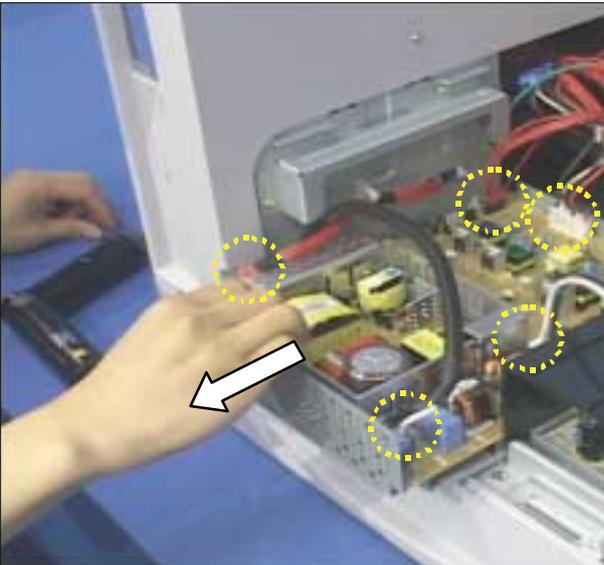
3. Remove the one screw, and pull the cover in the direction of arrow.
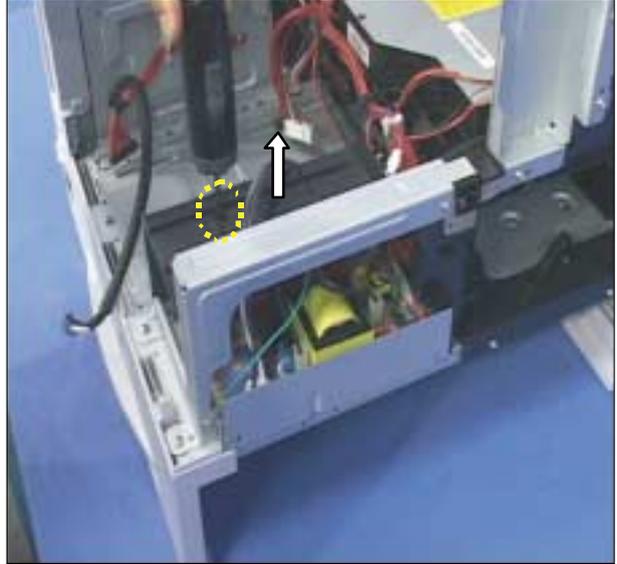
4. Remove the one screw, unplug the connectors and pull the IH board.
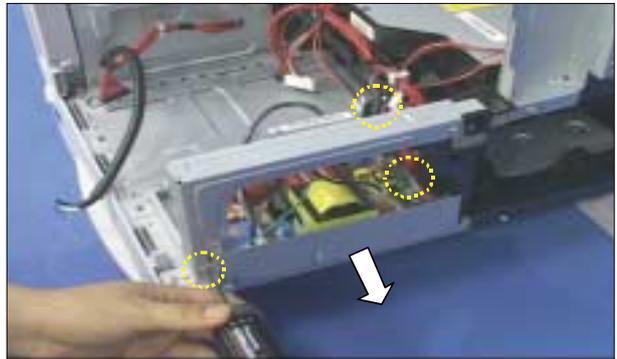
5.3.8 Transfer Roller

1. Push the latch in the two directions and pull the Transfer Roller.
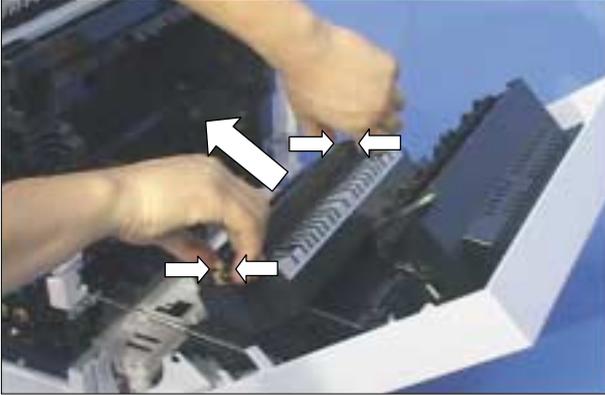
5.3.9 Exit Roller

1. Remove the five screws and the exit cover.
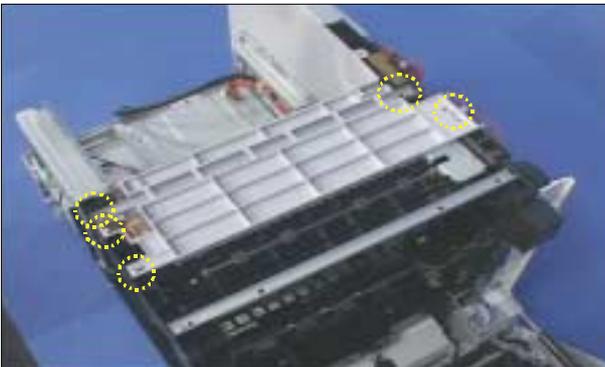
2. Remove the four screws and pull the Exit Ass'y in the direction of arrow.
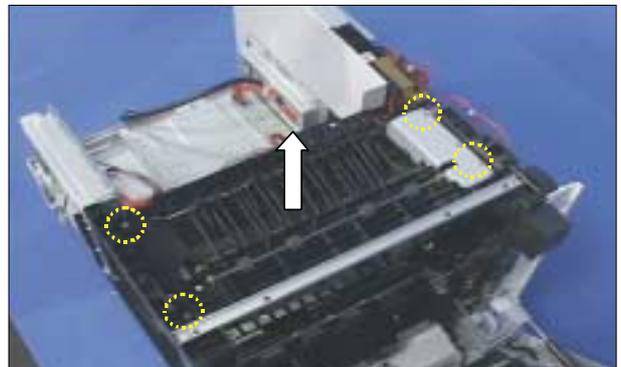
5.3.10 LSU Unit

1. Remove the six screws (including one ground screw)
   and pull the LSU in the direction of arrow.
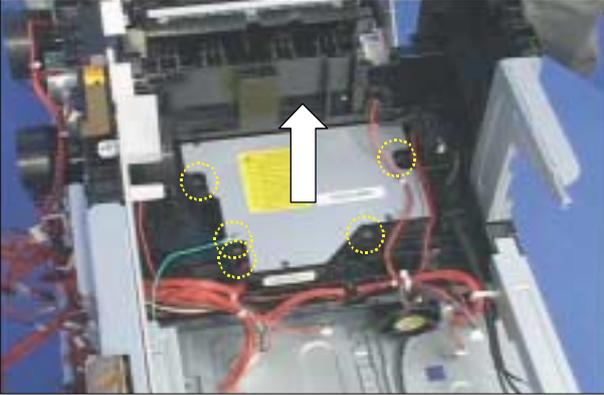
5.3.11 Drive-Exit Ass´y

1. Pull the fan in the direction of arrow.

2. Remove the four screws and unplug the threw
   connector from the motors.

3. Pull the Drive-Exit Ass´y in the direction of arrow.
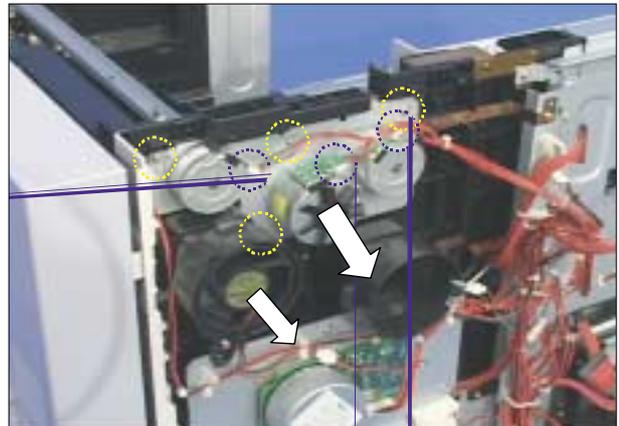
5.3.12 Drive-Main Ass'y

1. Unplug the mold e-ring and pull the three clutch.

2. Remove the duct and unplug the two connectors (main motor, dc motor).

3. Remove the seven screws and pull the Drive-Main Ass'y in the direction of arrow.
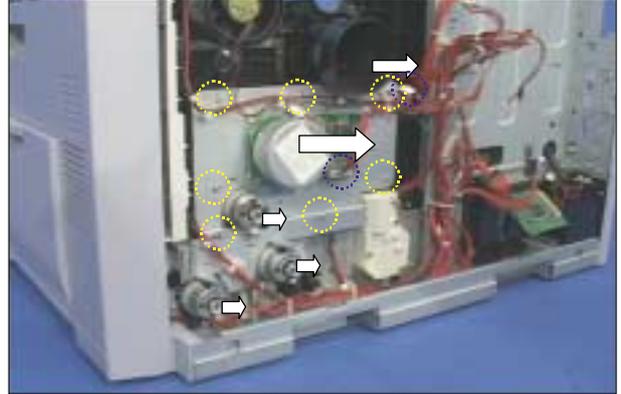
5.3.13 MP Ass'y

1. Remove the one screw, and release the one gear and press in the yellow circle.
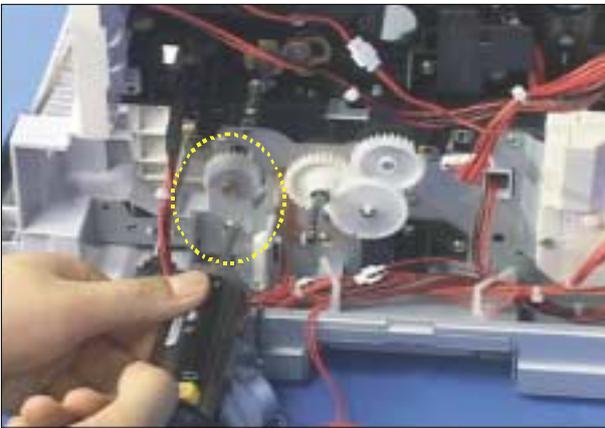
2. Remove the one screw and friction pad.

3. Remove the two screws.
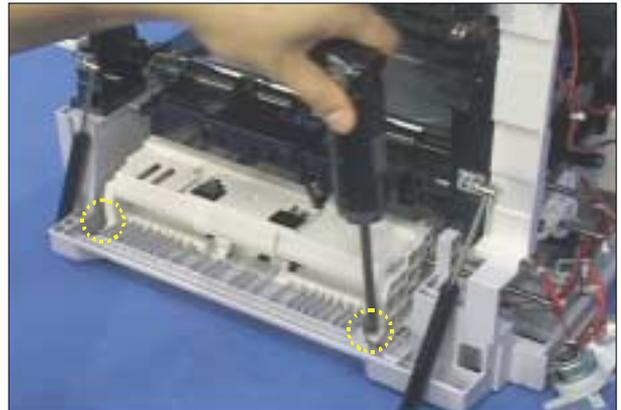
4. Release the MP Ass'y from the SET in the direction of arrow.
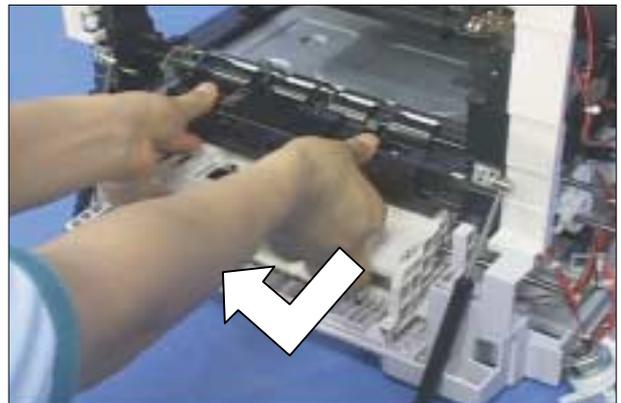
5.3.14 Engine Parts

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

   - Cover Parts (Refer to 5.3.1)

2. Open the Side Duplex Cover.
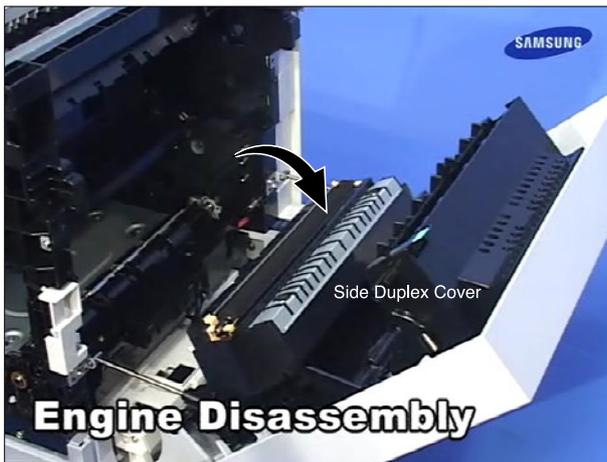
3. Release the Transfer Roller, as shown below.
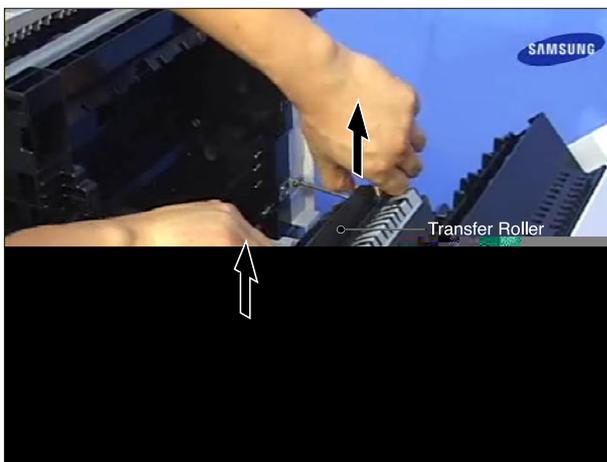
4. Remove the five screws securing the Upper Cover Unit, as shown below.
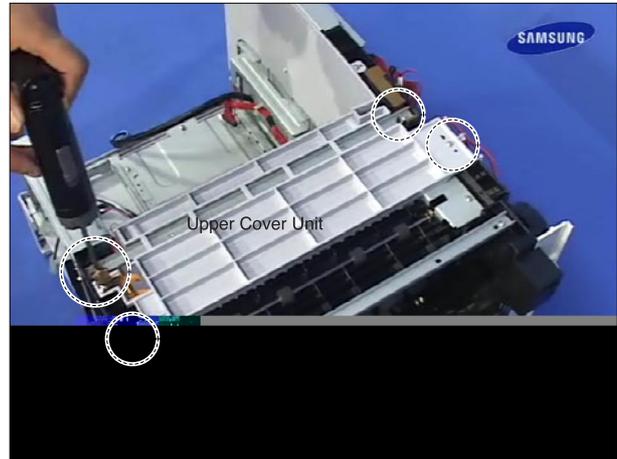
5. Lift the Upper Cover Unit.
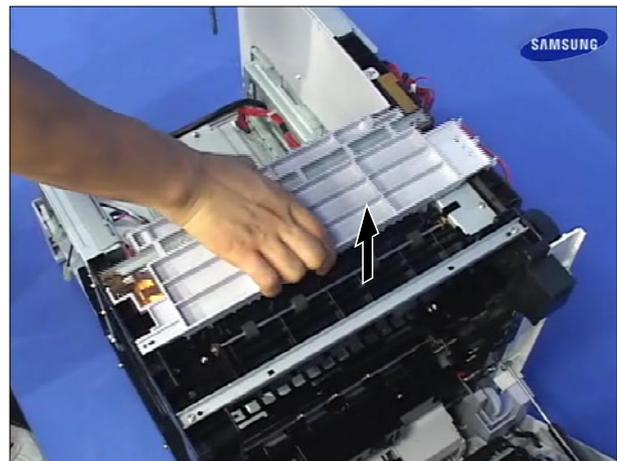
6. Remove the four screws securing the Exit Ass'y, as shown below.
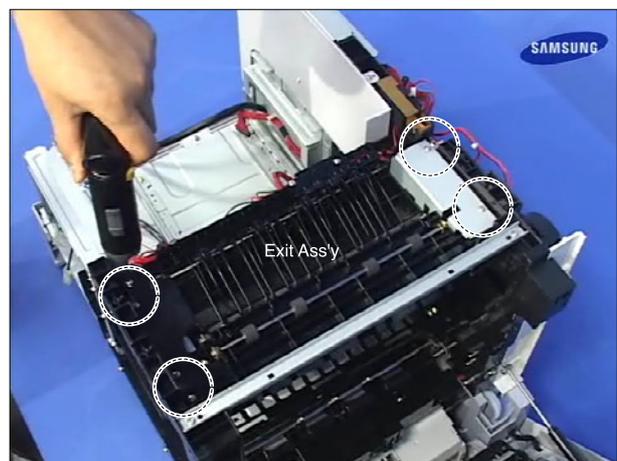
7. Lift the Exit Ass'y.
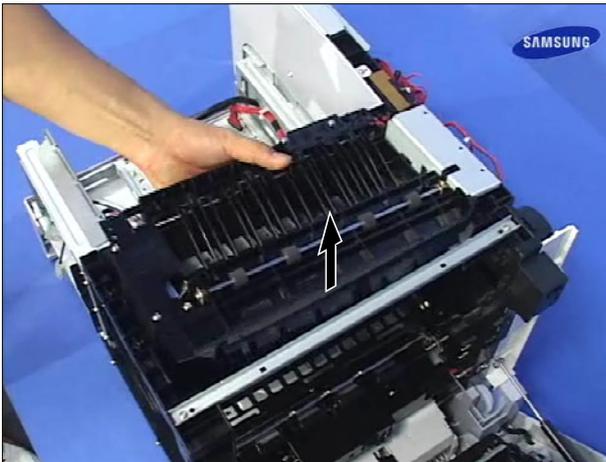
8. Remove the four screws securing the LSU and then remove the one screw securing the Ground Cable, as shown below.
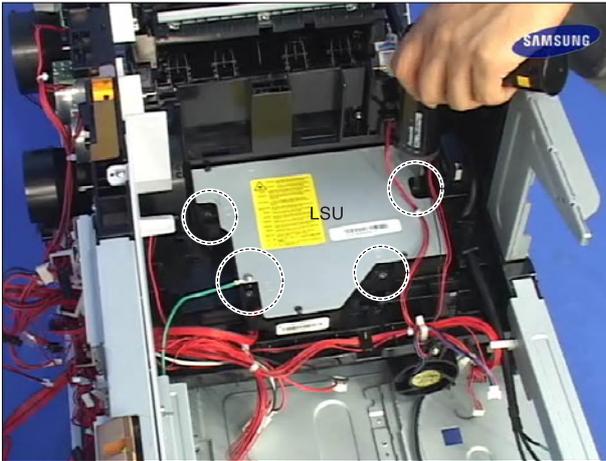

9. Lift the LSU.
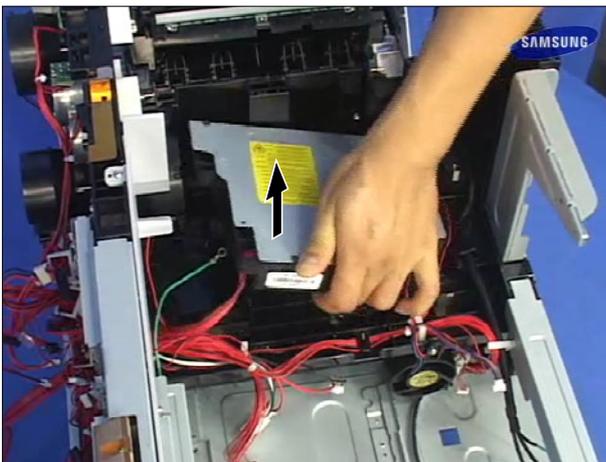
10. Remove the four screws securing the Fuser Drive and then pull the Duct(with Fan), as shown below.
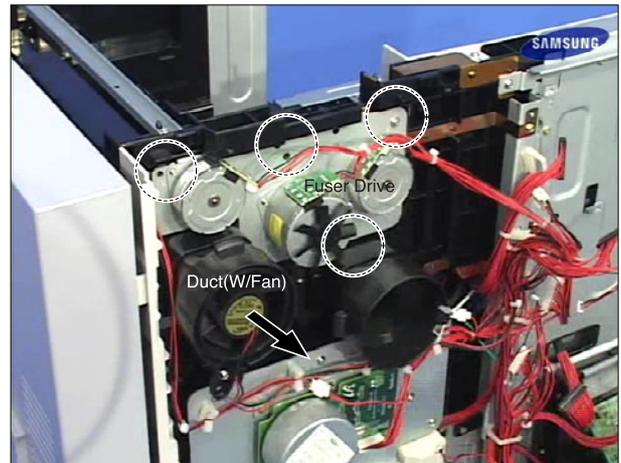

11. Remove the Fuser Drive.
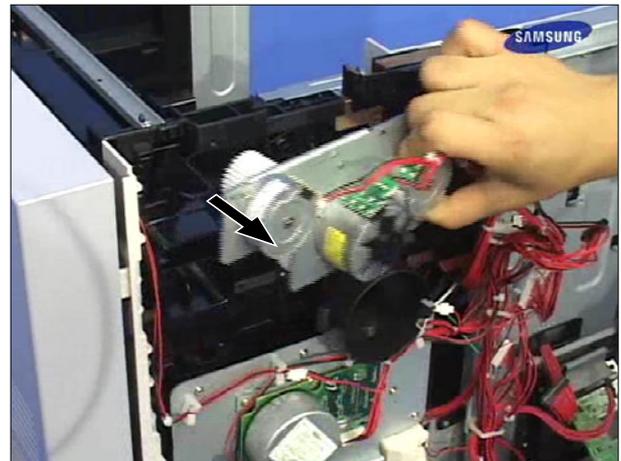
12. Remove the three Fixer securing the Clutchs and then pull the all Clutchs, as shown below.
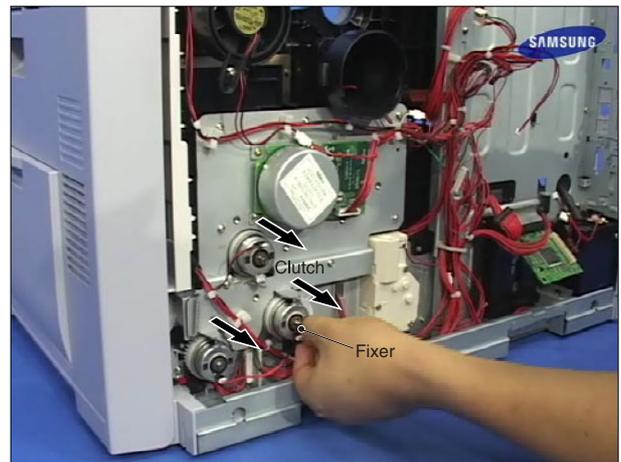
13. Remove the seven screws securing the Main Drive, as shown below.
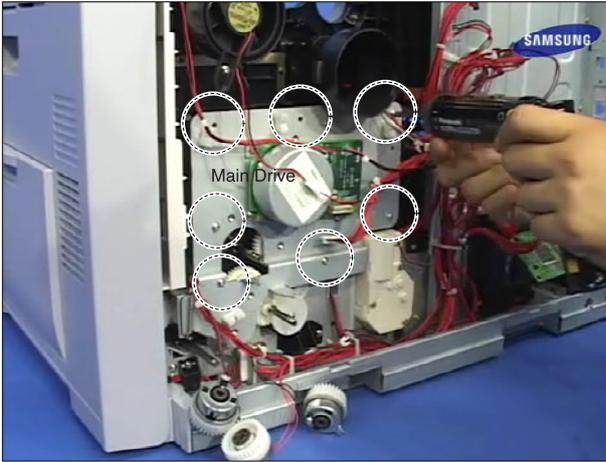

14. First release the Harness from the Cable Clamp, and then remove the Main Drive, as shown below.
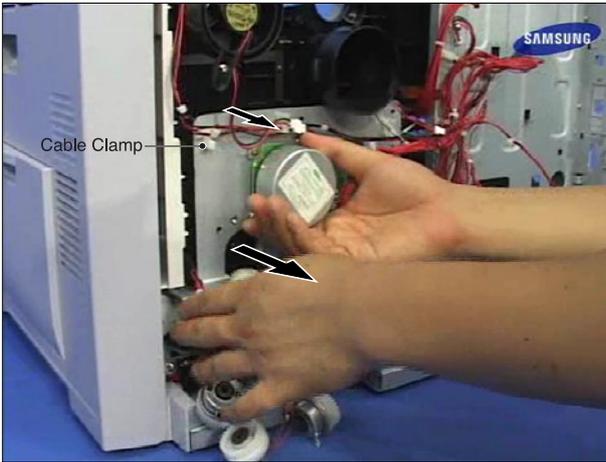

15. Pull the Damper Units securing the both side of the Side Duplex Cover in the direction of arrow, as shown below.


16. Apply light pressure to the both side of the Side Duplex Cover and pull it in the direction of arrow, as shown below.
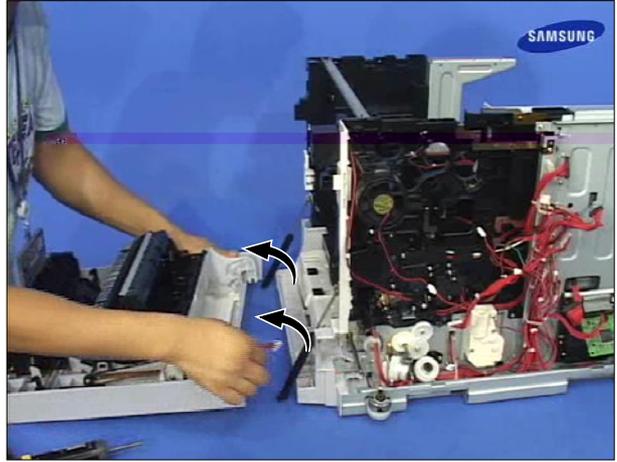

17. Remove the one screw securing the Bracket and remove it. Then release the Harness from the Cable Clamp.
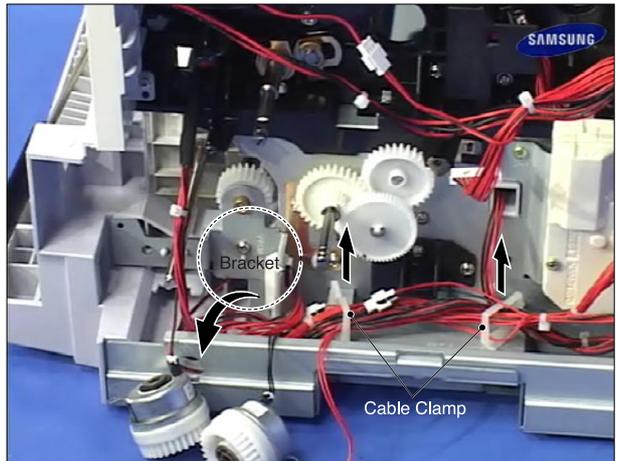
18. Remove the one screw securing the Holder Pad Unit and remove it.

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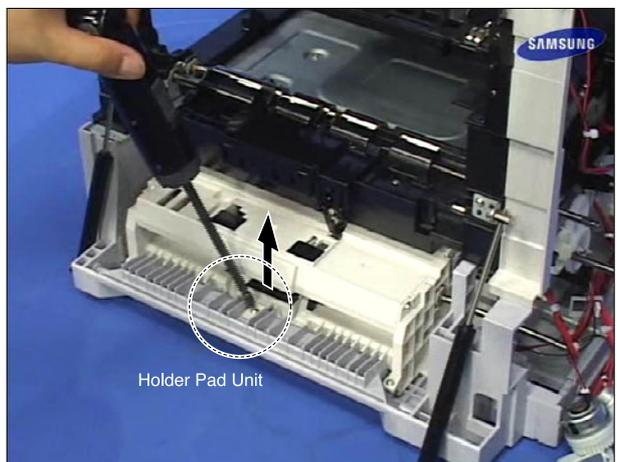
19. Remove the four screws securing the MP Unit.
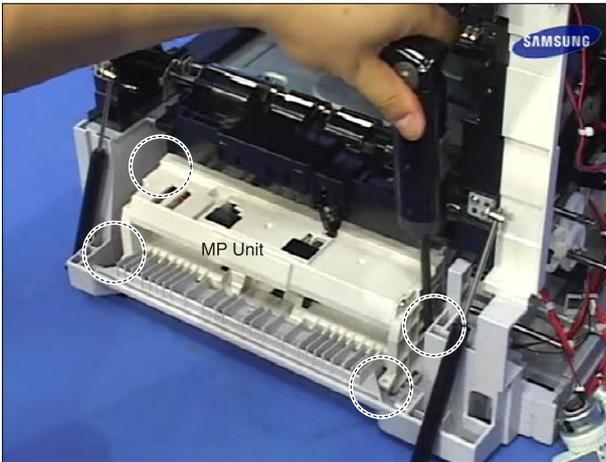
20. First lift the MP Unit, and then pull it in the direction of arrow, as shown below.
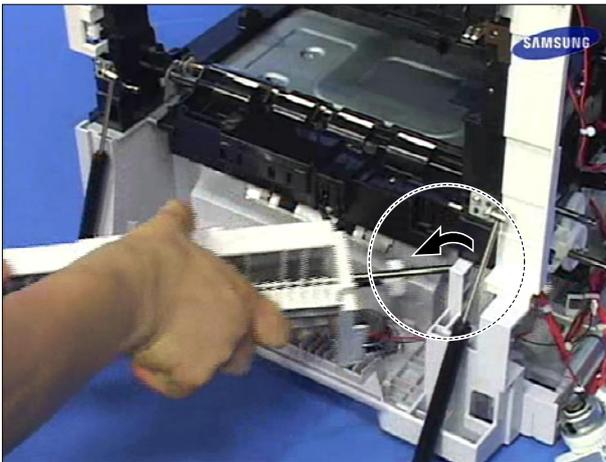
21. First turn over the frame, and then release the three Rollers, as shown below.