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Minolta® PagePro 9100

In the fall of 2002 Konica® Minolta® introduced the PagePro® 9100. In North America it is designated as the “9100N” the “N” only distiguishes the operating power requirements. It is available in 100 VAC, 120 VAC, 220 VAC, and 240 VAC models. The MSRP is $1399 in North America and £995 in Europe which is equivalent to approximately $1875. There are many options that can be added such as a duplexer, multiple paper trays, a 4 bin mailbox, and a hard disc drive.

This printer is also available in Japan as the Epson® LP-9400. It has a duplexer included standard, and all of the other accessories available like the Minolta® version. The price for the Epson® version is ¥178,000 or about $1750.

Use of Compressed Air

As of April 28, 1971, the Occupational Safety & Health Administration (OSHA) Standard, 29 CFR 1910.242 paragraphs a & b for general industry requires effective chip guarding and personal protective equipment (PPE) when using compressed air. When cleaning residual toner particles from cartridges using a compressed air system, you must use air nozzles meeting OSHA requirements. Air nozzles that regulate air pressure to a maximum of 30 psi comply with this standard. Refer to the OSHA publication for any updates or changes that have occurred since the date noted above.

Use of Isopropyl Alcohol

For best results 91-99% Isopropyl Alcohol should be used for cleaning as directed in this instruction. 91% Isopropyl Alcohol is available at most major drug stores; 99% Isopropyl Alcohol is available through distributors of chemical products. Follow the Alcohol manufacturer’s safety instructions.

CARTRIDGE REMANUFACTURING INSTRUCTIONS FOR:

KONICA® MINOLTA® PAGEPRO 9100; EPSON® LP-9400

TABLE OF CONTENTS

GO TO WWW.SCC-INC.COM

For the latest cartridge information
Click on “Online Engine Center”

Other System Support Series™ documents available in Adobe® Acrobat® format

QUESTIONS?

Please call one of our main numbers and ask for your Support Team Representative or E-mail us at:

US AND CANADA
info@scc-inc.com

UK
info@scceurope.co.uk

Purpose of this SSS

The purpose of this SSS is to provide you a guide and the basic information needed to remanufacture a Konica® Minolta® PagePro 9100 and the Epson® LP-9400. This SSS contains information about:

- Separating the two sections.
- Disassembling each section.
- Basic cleaning.
- Reassembling the cartridge.

Your cartridge might have been changed by the original equipment manufacturer (OEM) and include parts or features which are not described in this documentation. The documentation might be updated occasionally to include information about those changes, or technical updates might be available from the SCC Web site.

Before you begin, read the entire SSS to familiarize yourself with the procedures and take notes.

Be sure to follow all necessary safety precautions while working with tools, and chemicals, such as toner and alcohol.

Illustrations

The illustrations and photos in this document might differ slightly from your cartridge. Every effort is made to include the most up to date photos and illustrations at the time of printing. However, the OEM may make changes which were not available at the time of printing.

Safety

Statement 1:

Always wear eye protection while operating power tools.

Statement 2:

Always wear eye protection and protective clothing while working with toner and or other chemicals.

Statement 3:

Do not swallow or ingest toner, isopropyl alcohol, toner dust, or any chemicals or materials used in the process of remanufacturing

Needed Tools & Supplies

For Basic Remanufacturing:

- Needle Nose Pliers
- Hook Tool (HTOOL)
- Compressed Air for Cleaning
- Lint-Free Cleaning Cloth (LFCCLOTH)
- Safety Glasses
- Gloves
- Small Flat Blade Screwdriver
- Cotton Swab (QTIP)
- Hopper Cap (PCHCAP)
- Conductive Lubricant (CONCLUBE)
- Cartridge Lubricant (CLUBE)

Cartridge Specifications Table

The following table is summary of the Konica® Minolta® PagePro 9100 and the Epson® LP 9400 cartridge specifications. This information was obtained from the OEM's web site and is considered to be the most up to date information at the time of printing.

Printer Information	Minolta® QMS® PagePro™ 9100	Epson® LP-9400 (Japan)
Printer Introduction Price	$1,499	¥178,000/$1,640
Processor	250 MHz	200 MHz
First page	10 seconds	
Memory	64 MB / 512 MB	16 MB / 272 MB
Duplex	Manual	
Engine Information		
Print Resolution (dpi)	600/1200	600/1200/2400
Print Speed (pages per minute)	35 ppm	35 ppm
Duty Cycle (pages per month)	150,000	

* Prices as of 6/25/2004

Cartridge Information Table

The following is a summary of the cartridge information for the Konica® Minolta® PagePro™ 9100 and the Epson® LP 9400 series printer and printer cartridge.

Cartridge Information	Minolta® 9100 Starter	Minolta® 9100 Standard	Epson® Toner Cartridge
Cartridge Part Number	N/A	1710497-001	LPA3ETC11
OEM Rated Page Yield	6K	15K	N/A
OEM MSRP*	N/A	$220	¥45,000/$415

* Prices as of 6/25/2004

Separating the Toner Hopper and Waste Bin

REMANUFACTURING THE **MINOLTA® PAGEPRO 9100**

This SSS™ provides the information needed to completely remanufacture the Konica Minolta 9100 cartridge. Before attempting to perform the following procedures, read the entire SSS™ carefully. Ensure that you follow all necessary safety precautions.

1. Remove the E-Clip from the geared side of the cartridge, using a small flat blade screwdriver, see Figure 1.

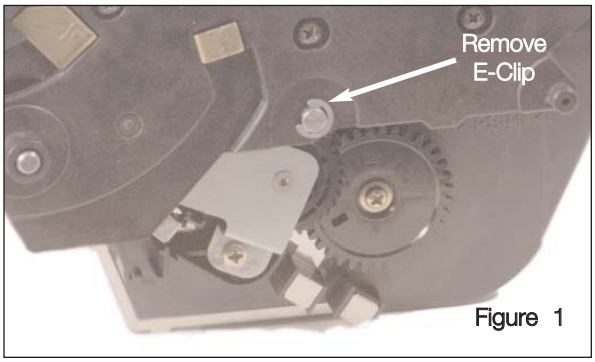

Figure 1

2. Use a Hook Tool to remove the Hopper Tension Spring on the non-geared side of the cartridge, see Figure 1.

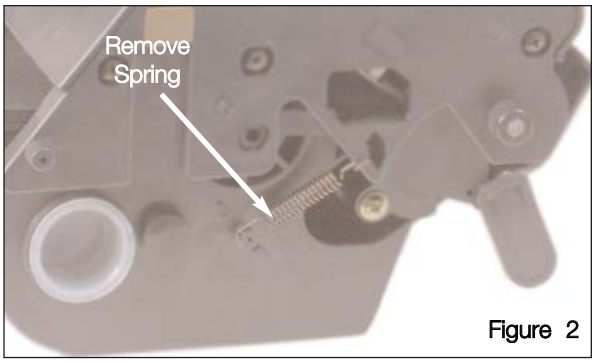

Figure 2

3. Position the cartridge as shown in Figure 3. Pry the post free from the non-geared side

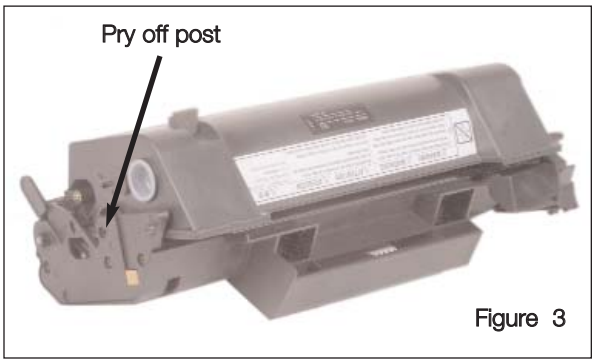

Figure 3

4. Lift and slide the Hopper away from the Waste Bin, see Figure 4.

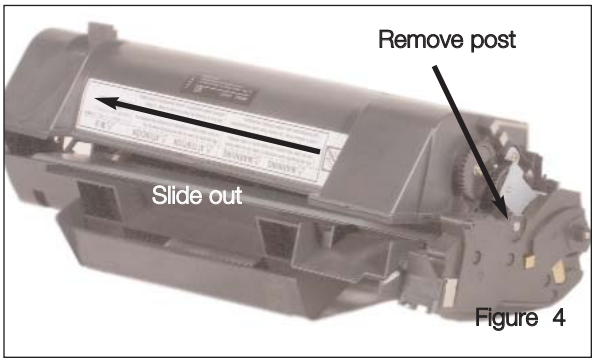

Figure 4

Disassembling the Toner Hopper Section

1. Remove the screw that secures the Developer Roller Stabilizer, then remove the Stabilizer, see Figure 5.

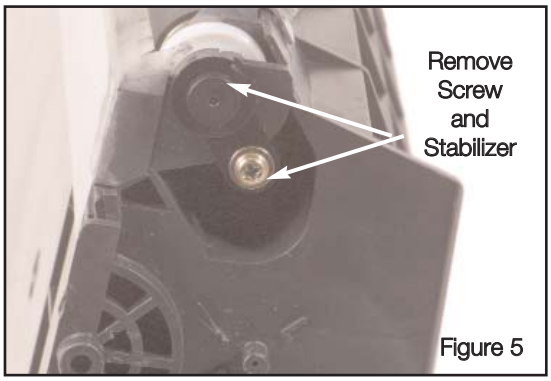

Figure 5

2. Lift the non-geared side of the Developer Roller to remove the Developer Roller Spacer, see Figure 6.

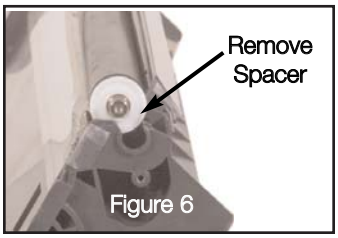

Figure 6

3. Grasp the non-geared side of the Developer Roller and slide the Developer Roller from the geared side, see Figure 7a. Lift the Developer Drive Gear and Spacer from the Hopper, see Figure 7b.

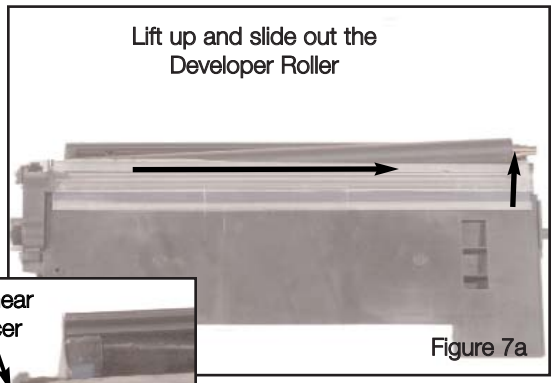

Figure 7a

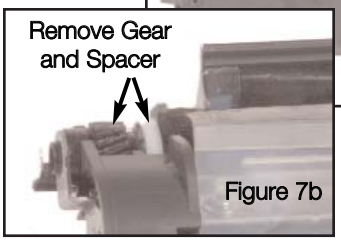

Figure 7b

Note: Clean the Developer Roller using dry, filtered compressed air. Clean the lubricant from the Developer Roller shaft using a lint free cloth. Then place the Developer Roller on a clean dry lint free cloth.

4. Cut the catcher strip along the line shown in Figure 8a. Remove the Doctor Blade by lifting up on the Catcher Strip and removing the two screws securing the Doctor Blade, see Figures 8a and 8b.

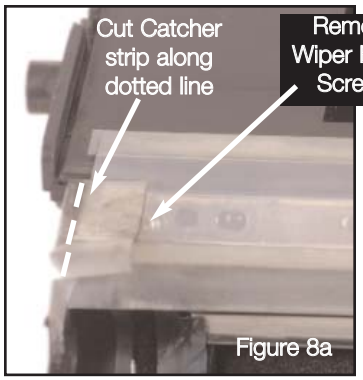

Figure 8a

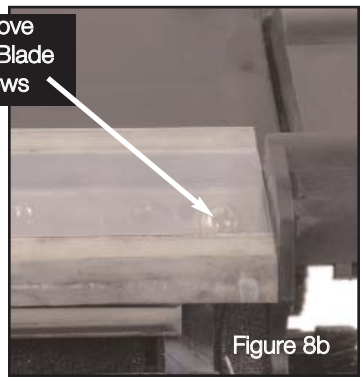

Figure 8b

5. Remove the Doctor Blade from the cartridge. Clean with dry, filtered compressed air. Wipe any toner build up with a dry lint free cloth.

Note 1: Be careful not to damage the perimeter foam while cleaning the cartridge. It is fragile and easily damaged, see Figure 9.

Note 2: It is very important to remove all of the residual OEM toner remaining in the Hopper. This cartridge is at high risk for backgrounding if any residual OEM toner mixes with the new toner.

6. Remove the Hopper Cap, and clean the remaining toner from the Hopper using dry, filtered compressed air, as shown in Figure 10.

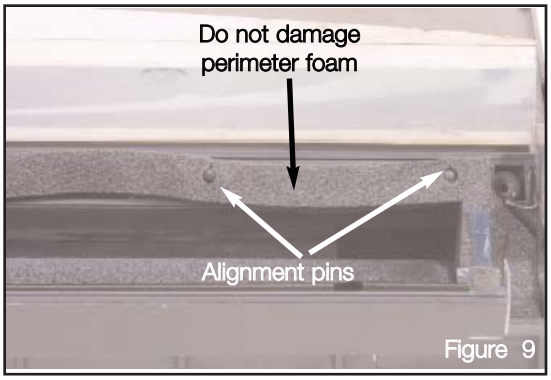

Figure 9

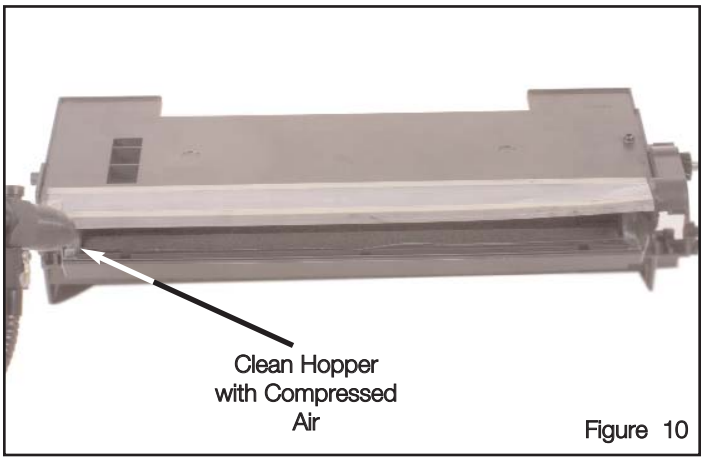

Figure 10

1. Position the Perimeter Foam on to the alignment pins and under the contact on the geared side, see Figure 11a.

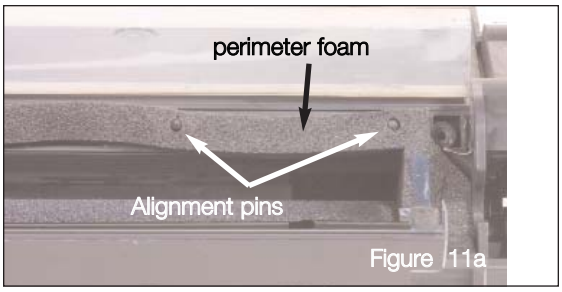

Figure 11a

2. Replace the Doctor Blade, aligning the Doctor Blade on the alignment pins and secure with two screws, see Figure 11b.

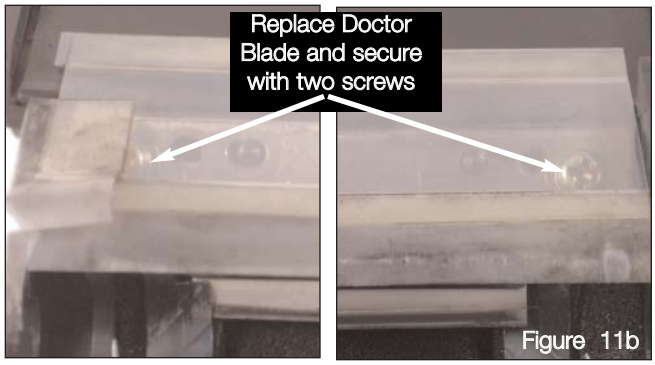

Figure 11b

3. Install the Developer Roller.

   a. Clean the geared side stabilizer with a cotton swab.

   b. Apply a small amout of conductive lube to the end of the Developer Roller shaft.

   c. Install the Developer Roller Spacer and Drive Gear into the slot, and slide the Developer Roller into the Hopper, as shown in Figure 12a. Be sure to fit the Developer Roller through the Spacer and Drive Gear.

   d. Install the Developer Roller Spacer on to the non-geared side of the Developer Roller.

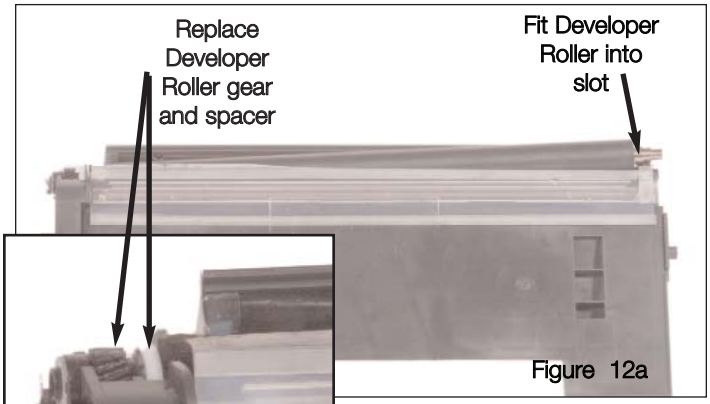

Figure 12a

Figure 12b

Note: Be sure that the Developer Roller drive gear is orientated correctly, see Figure 12b.

4. Replace the Developer Roller stabilizer.

   a. Clean the lubricant from the non-geared side Developer Roller Stabilizer, using a cotton swab.

   b. Using a cotton swab apply a small amount of cartridge lubricant to the non-geared side Developer Roller Stabilizer.

   c. Install the Developer Roller Stabilizer and secure with a screw, see Figure 13.

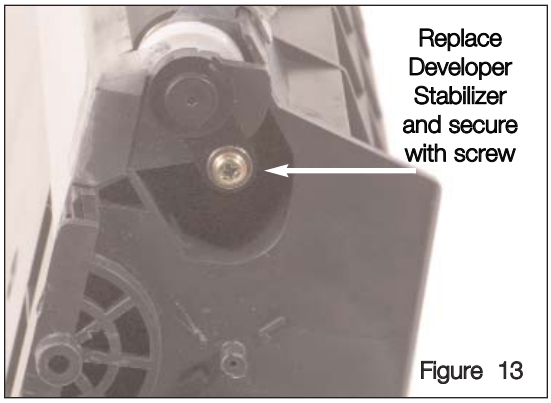

Figure 13

5. Fill the Hopper with Toner and install the Hopper Cap, see Figure 14.

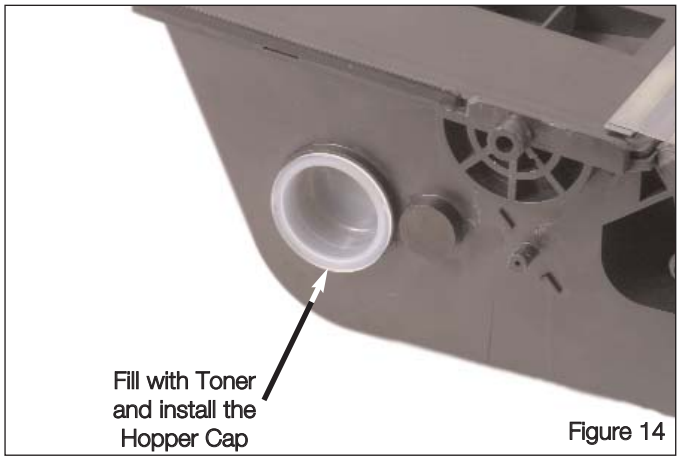

Figure 14

1. Remove the four screws from the non-geared side end plate, see Figure 15. The Drum Shutter will remain connected to the end plate.

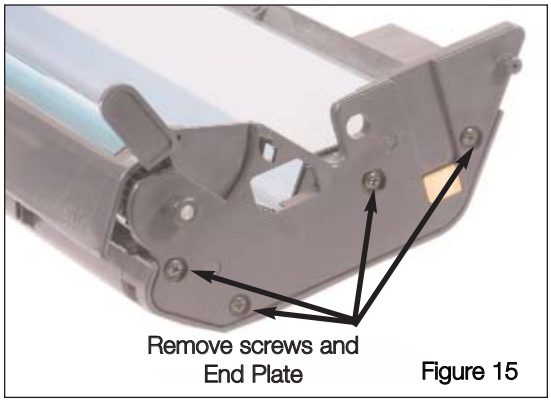

Figure 15

2. Slide the drum out of the Waste Bin as shown in Figure 16.

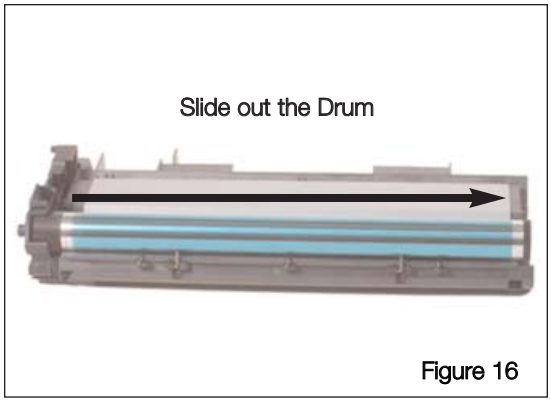

Figure 16

3. Remove three screws from the non-drive side End Plate, see Figure 17. The Corona Assembly will remain attached to the geared side end plate, to assist in the reassembly process.

Note: Clean the Corona Assembly with dry, filtered compressed air.

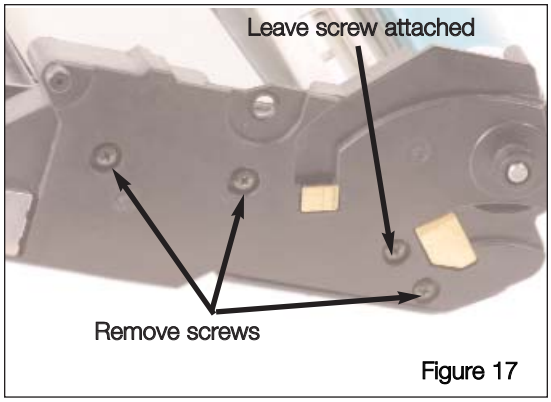

Figure 17

4. Remove the geared side end plate from the Waste Bin, see Figure 18. The Corona Assembly will remain attached to the end plate.

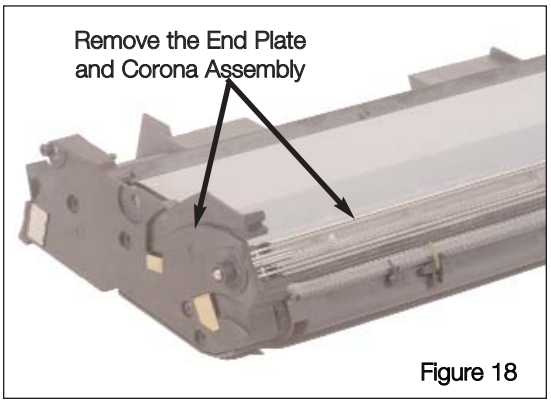

Figure 18

5. Remove the Waste Bin Agitator Gear, as shown in Figure 19.

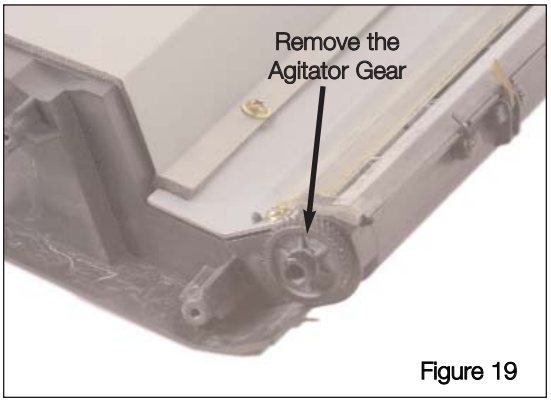

Figure 19

6. Remove the six screws that secure the Wiper Blade and Waste Bin Cover, see Figure 20.

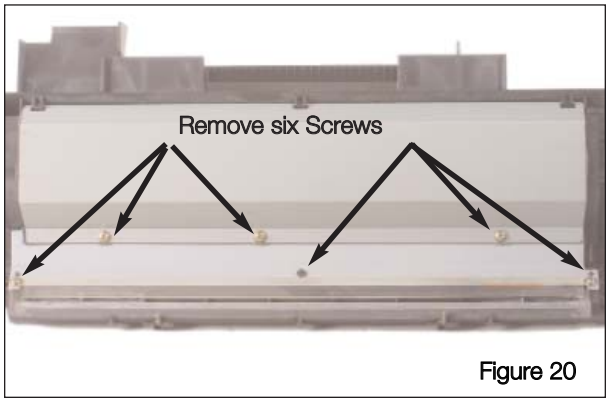

Figure 20

7. Remove the Waste Bin Cover, by lifting and tilting away from the Wiper Blade, see Figure 21.

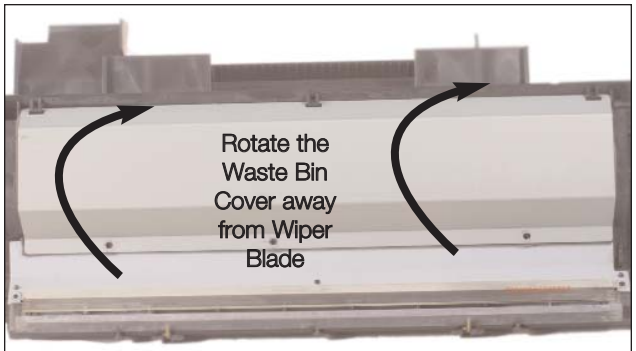

Figure 21

8. Lift the Wiper Blade from the Waste Bin, as shown in Figure 22.

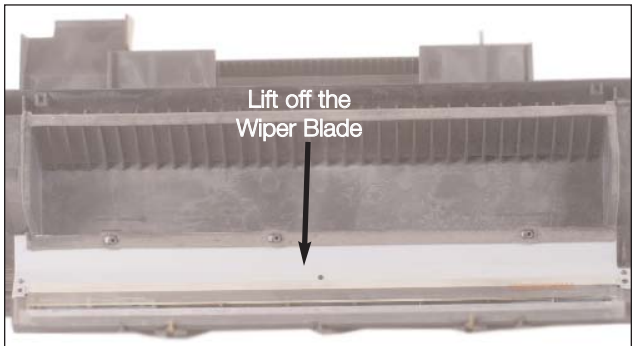

Figure 22

9. Clean the Waste Bin with dry, filtered compressed air. Inspect the felts, foams, and recovery blade for damage, see Figure 23.

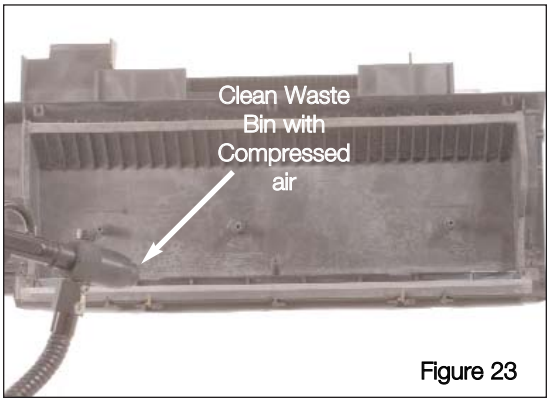

Figure 23

Reassembling the Waste Bin

Note: Dip the working edge of the Wiper Blade in a trough of Kynar powder. Using a screwdriver tap the metal stamping on the wiper blade to release any excess Kynar from the Blade.

1. Install the new Wiper Blade, see Figure 24.

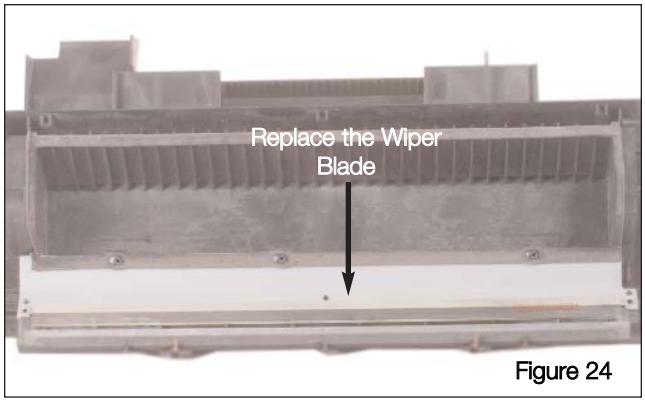

Figure 24

2. Install the Waste Bin Cover, fit under notches and rotate downward, see Figure 25.

Note: When replacing the six screws on the Wiper Blade and the Waste Bin Cover be sure that the black screw is placed in the middle of the Wiper Blade.

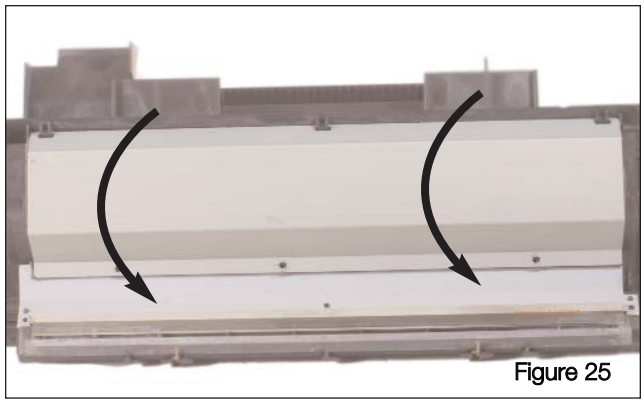
Figure 25

3. Replace the Waste Bin Agitator Gear, as shown in Figure 26.

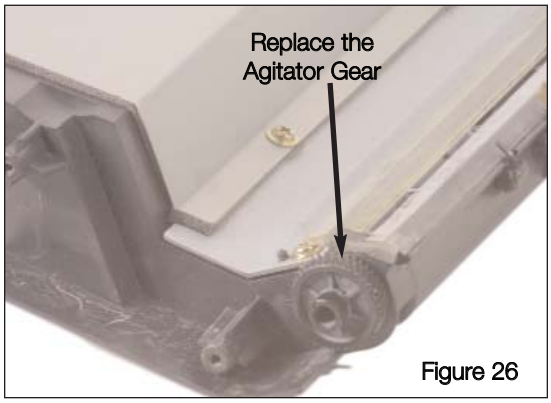

Figure 26

4. Install the geared side End Plate and attached Corona Assembly to the Waste Bin as shown in Figure 27.Secure with three screws.

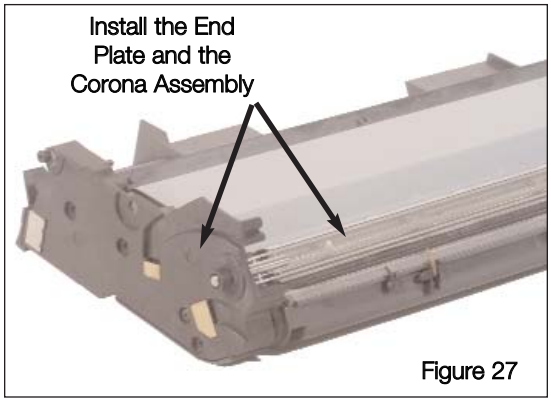

Figure 27

5. Slide the drum to the Waste Bin, as shown in Figure 28.

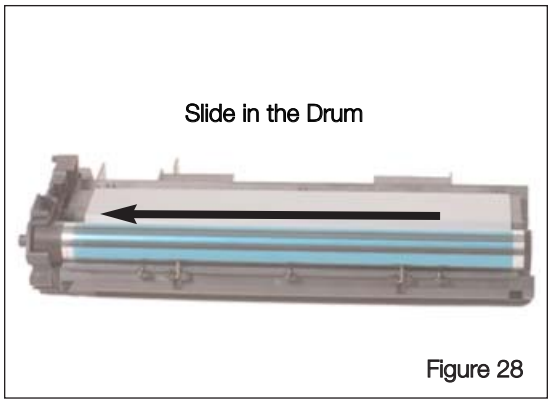

Figure 28

6. Replace the non-geared side end plate and Drum Shutter and secure with four screws, as shown in Figure 29a. Fit the drum shutter post in to slot, see Figure 29b.

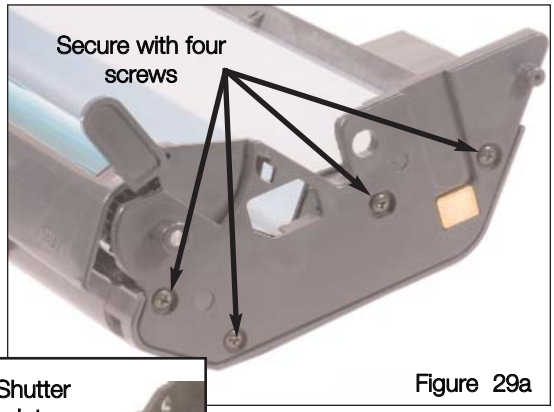

Figure 29a

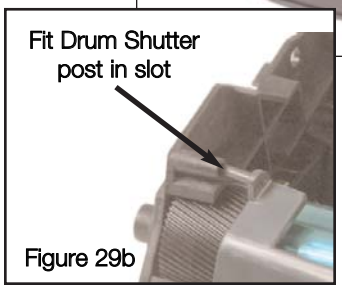

Figure 29b

1. Slide the Hopper in to the Waste Bin. Be sure to fit the post in to the appropriate slot, see Figure 30.

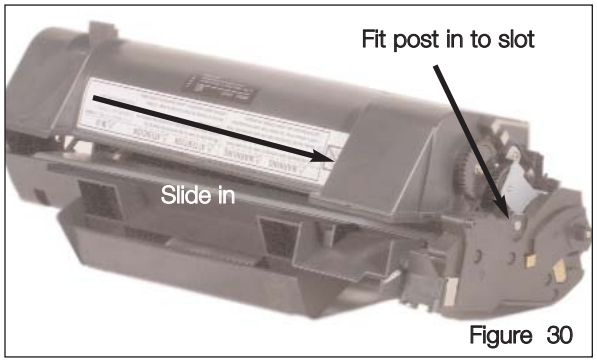

Figure 30

2. Flex the non-geared end plate back to allow the post to be inserted in to the slot, see Figure 31.

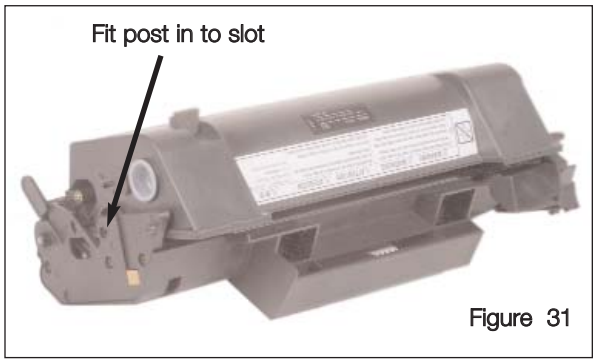

Figure 31

3. Using a Hook Tool attach the Hopper Tension Spring to the non-geared side of the cartridge, see Figure 32.

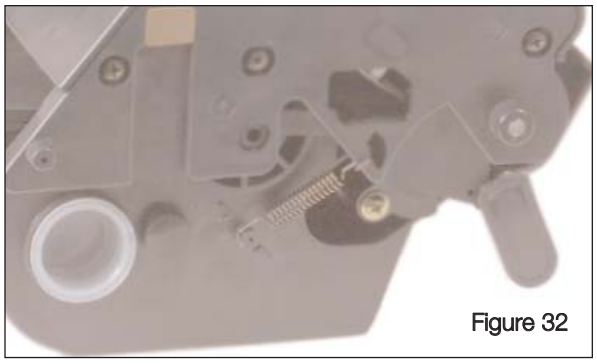
Figure 32

4. Attach the E-Clip to the geared side of the cartridge, as shown in Figure 33.

Note: See SSS™ 692 for chip installation instructions.

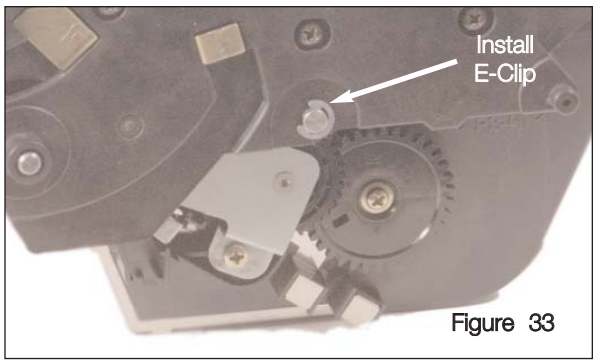

Figure 33

MOVING AT THE SPEED OF NEW TECHNOLOGY

The development of cartridge imaging systems is the primary mission of our Imaging Labs. Through extensive testing and research, we develop the optimum combination of matched components for each cartridge system. Our engineering and manufacturing expertise provides us with total control in design, quality and development to produce products from the ground up. The result is a system of components that seamlessly work together in each cartridge application.

This dedication and commitment results in integrated cartridge systems that Static Control fully supports, allowing you to quickly attack new market opportunities with complete confidence in the reliability and performance of your cartridges.

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