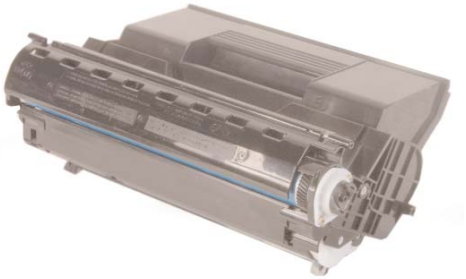
Version 1 - August 2005
SYSTEM SUPPORT SERIES™



Xerox® Phaser® 4500

Reference Info

The Xerox Phaser 4500 was released in January of 2004 in the US. The three models are the 4500n which is network ready. The 4500dt which is the n model with the duplex feature and an additional paper tray. The 4500dx is the same as the dt model with a second additional paper tray and an internal hard disk.

These cartridges are chipped. The chip sits along the side of the Waste Bin section. It is an RF type chip, and it is a killer-type chip.

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:

XEROX PHASER® 4500; EPSON® N3000; BROTHER® HL-8050; OKIDATA® B6300

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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 Xerox Phaser® 4500. 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:

- Phillips Screwdriver
- Needle nose Pliers
- Compressed Air for Cleaning
- 91%-99% Isopropyl Alcohol
- Lint-Free Foam Tip Swab (LFSWAB)
- Lint-Free Cleaning Cloth (LFCCLOTH)
- Low RPM Drill
- Funnel For Toner Bottle
- Safety Glasses
- Small Flat Blade Screwdriver
- Kynar Powder (KPOW)
- Hopper Jig (X4500HJIG)
- Conductive Cartridge Lube (CONCLUBE)
- Replacement Pins (X5400CARTPIN)
- Seal (X4500RTSEAL)
- Wiper Blade (X4500BLADE)

The following table is summary of the Xerox Phaser® 4500 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.

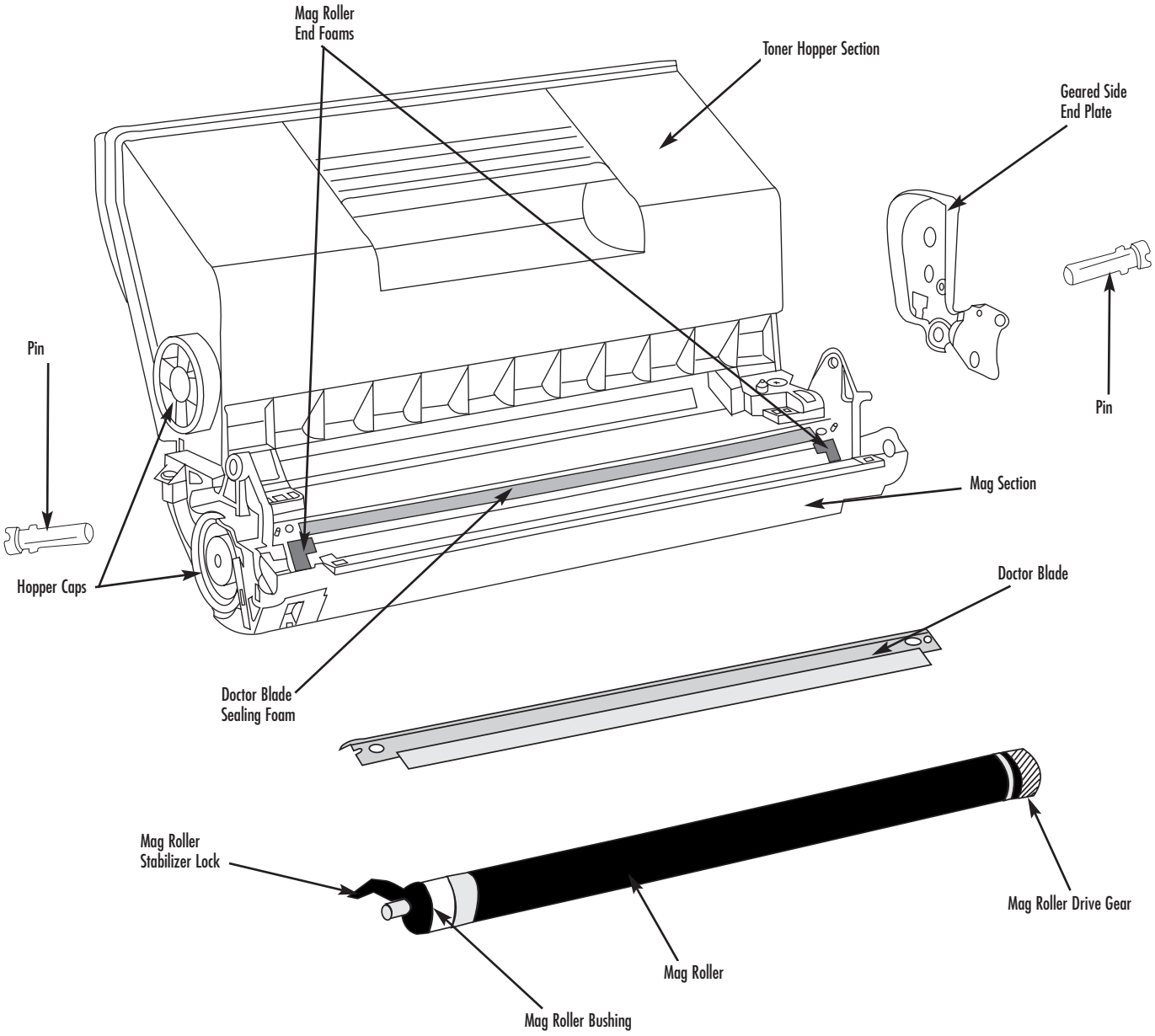
Printer Information	**Xerox Phaser® 4500B**	**Xerox Phaser® 4500N**	**Xerox Phaser® 4500DT**
Printer Introduction Price	$ 979	$ 1,199	$ 2,599
Processor	400MHz	400 MHz	400 MHz
First page	8 seconds	8 seconds	8 seconds
Memory	48 MB to 496 MB	64 MB to 496 MB	64 MB to 496 MB
Duplex	Manual	Manual	Standard
Engine Information			
Print Resolution (dpi)	600x600/1200x1200	600x600/1200x1200/1200	600x600/1200x1200/1200
Print Speed (pages per minute)	36 ppm	36 ppm	36 ppm
Duty Cycle (pages per month)	150,000	150,000	150,000

Cartridge Information Table

The following is a summary of the cartridge information for the Xerox Phaser® 4500 series printer and printer cartridge.

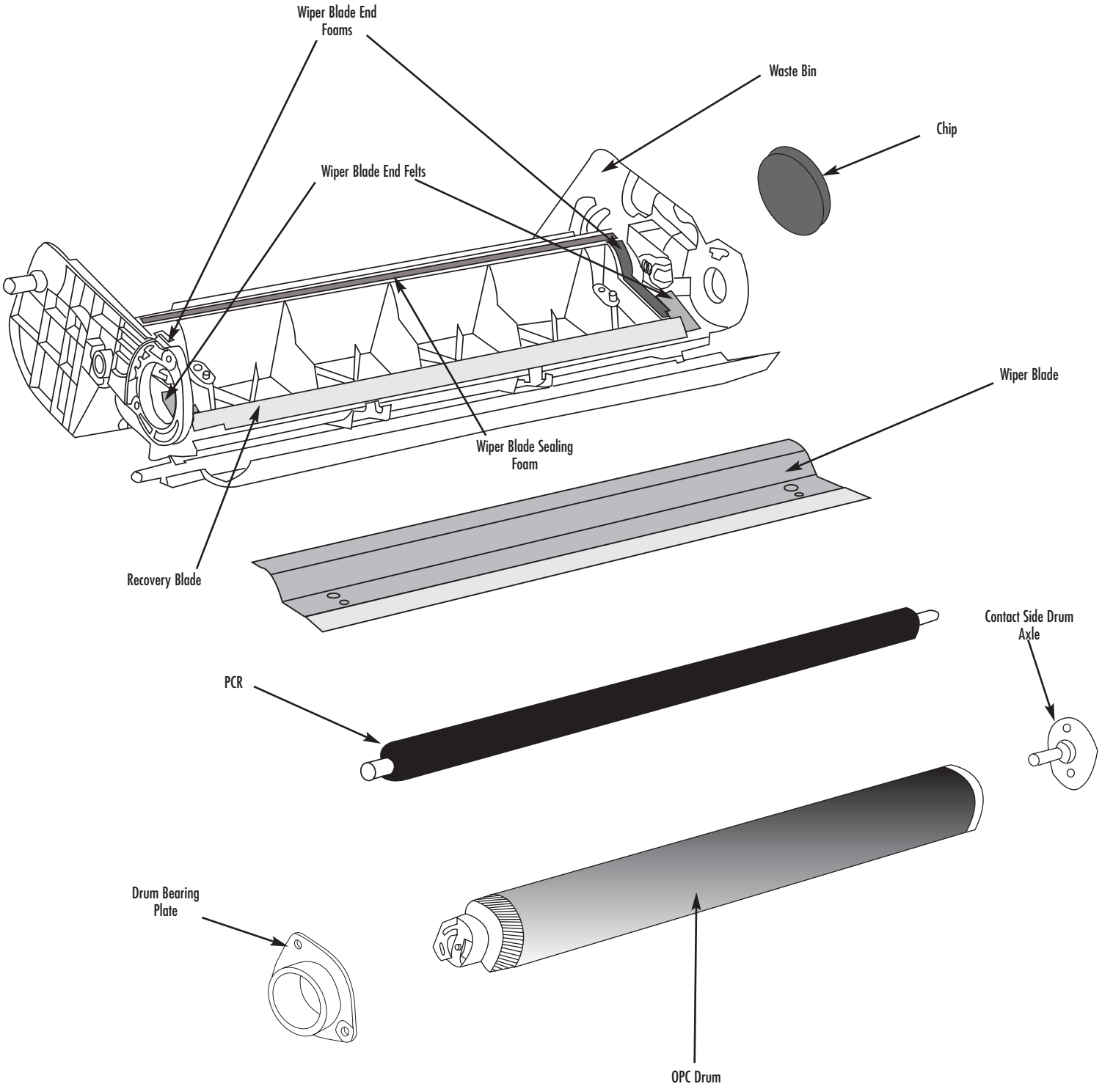
Cartridge Information	**Standard**	**High Yield**
Cartridge Part Number	113R00656	113R00657
OEM Rated Page Yield	10,000	18,000
OEM MSRP	$160	$230

* Prices as of December 2004



Toner Hopper Assembly

product wirelines



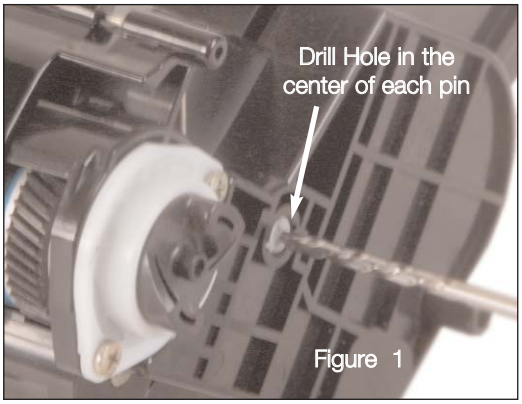
Waste Bin Assembly

product wirelines

Separating the two sections

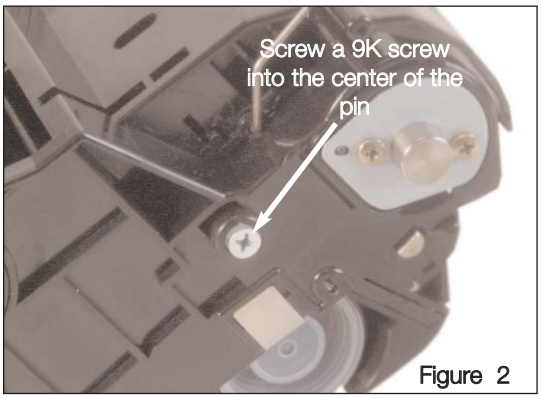
REMANUFACTURING THE **XEROX® 4500**

1. Using a low rpm drill with a 5/64” bit, drill into the center of the plastic pins on each side of the cartridge as shown in Figure 1.



Drill into the center of each pin.

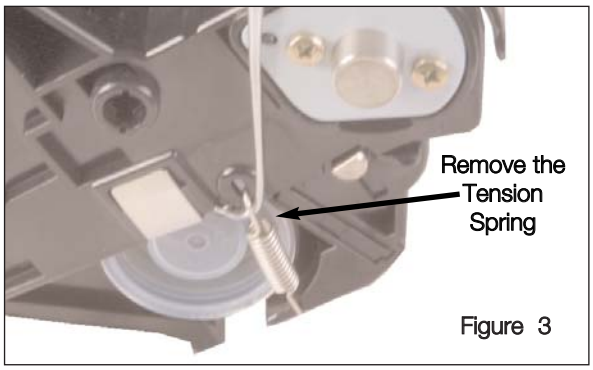
2. Screw a 9K screw into the drilled opening in the pin, as shown in Figure 2. Using needlenose pliers grasp the screw and rotate the screw Counter-Clockwise to release the pin from the cartridge.



Remove the plastic pins using a 9K screw.

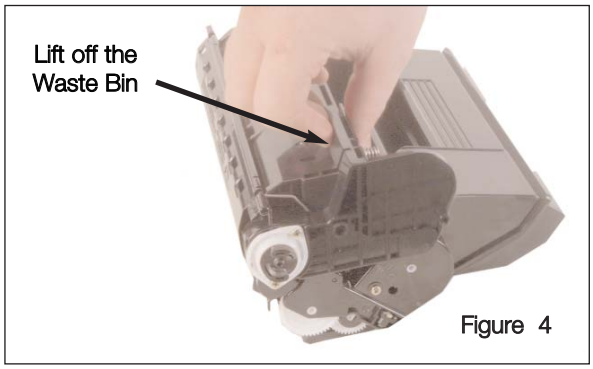
Note: Do Not re-use the OEM cartridge pins. SCC offers a replacement pin.

3. Using a hook tool, remove the Tension Spring as shown in Figure 3.



Remove the Tension spring.

4. Separate the two sections, as shown in Figure 4.



Separate the two sections.

Disassembling the Toner Hopper Section

1. Release the Mag Roller Stabilizer Lock, see Figure 5. SCC offers a replacement Mag Roller Stabilizer Lock.

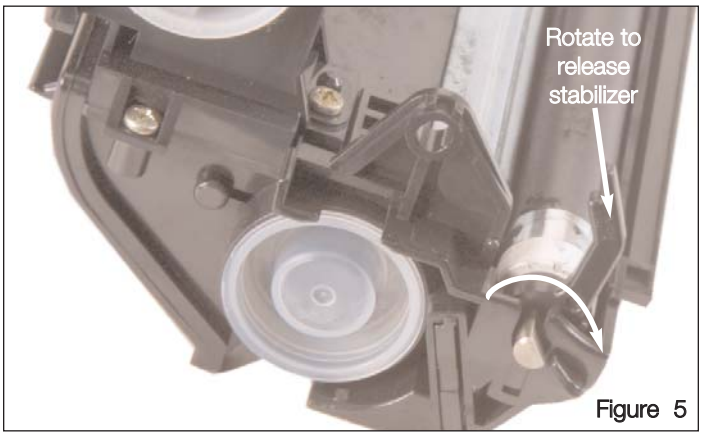


Figure 5

Rotate Stabilizer Lock to release the Mag Roller.

2. Grasp the Mag Roller by the Stabilizer Lock and the Drive Gear and lift out of the Hopper, see Figure 6.

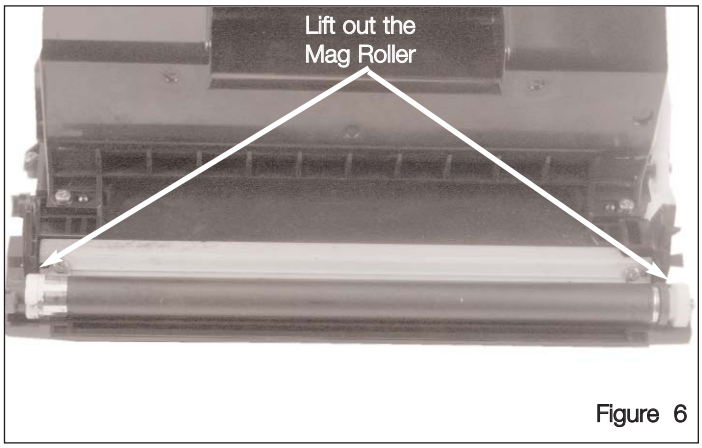


Figure 6

Lift out the Mag Roller.

3. Remove the two screws from the Doctor Blade, see Figure 7. Then remove the Doctor Blade from the Hopper.

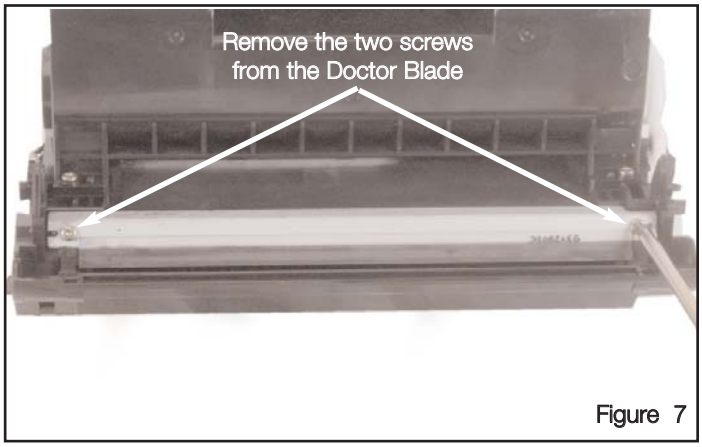
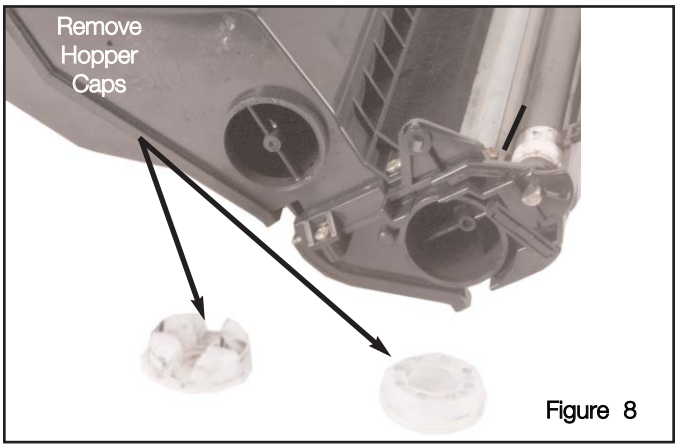


Figure 7

Remove the two screws from the Doctor Blade.

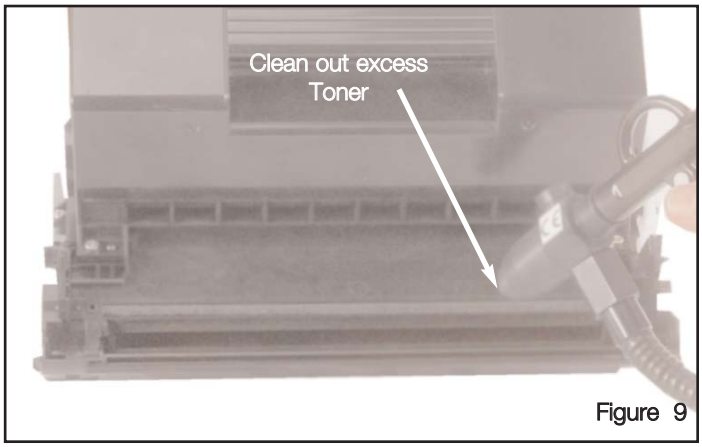
Disassembling the Toner Hopper Section

4. Use a small flatblade screwdriver to pry out the two Hopper Caps from the Hopper, see Figure 8.



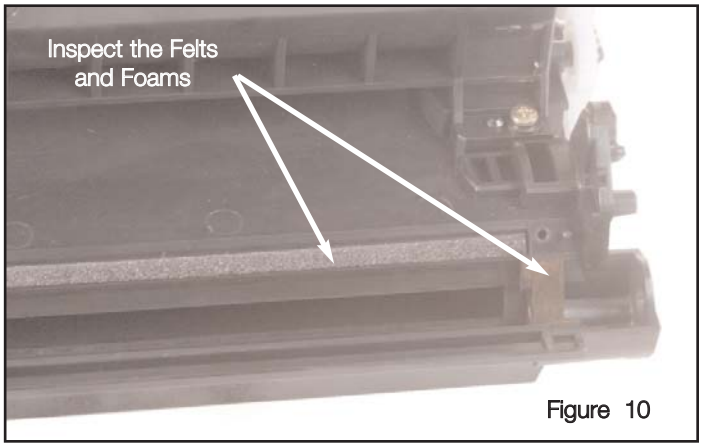
Remove the two Hopper Caps.

5. Clean the Toner Hopper using dry, filtered compressed air; as shown in Figure 9.



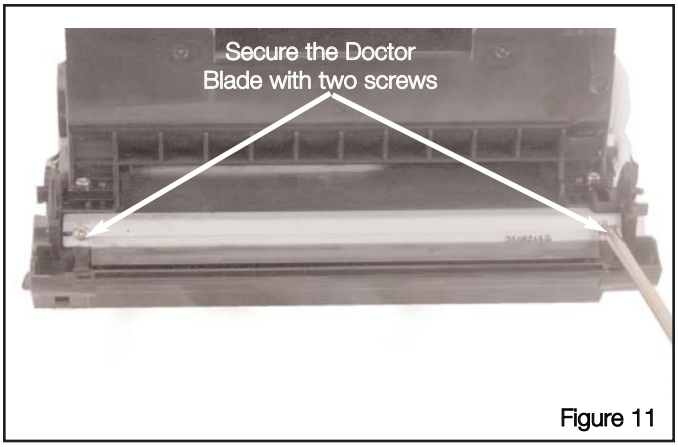
Clean excess toner from the Hopper using dry, filtered compressed air.

6. Then inspect the Felts and Foams in the Toner Hopper section for wear, tears, or damage of any kind, as shown in Figure 10.



Inspect the felts and foams in the Toner Hopper section.

1. Install the Doctor Blade, and secure with two screws, as shown in Figure 11.

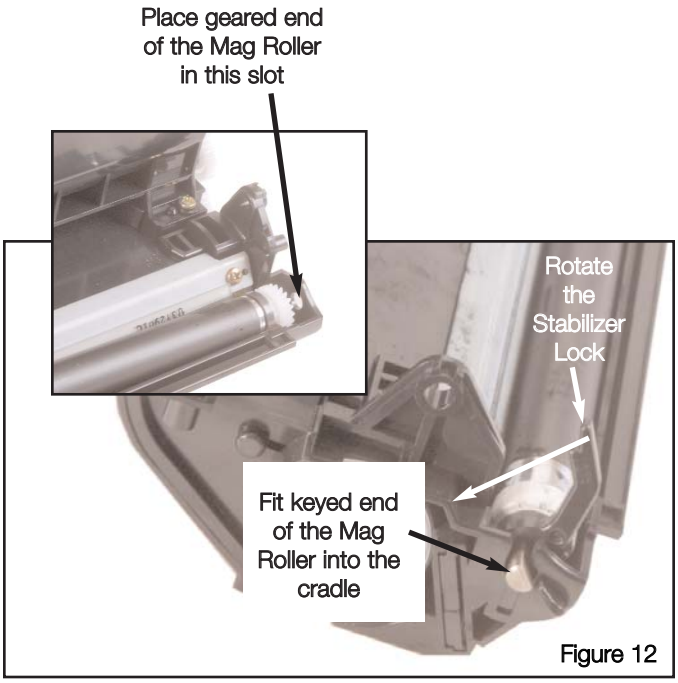


Install the Doctor Blade.

2. Install the Mag Roller.

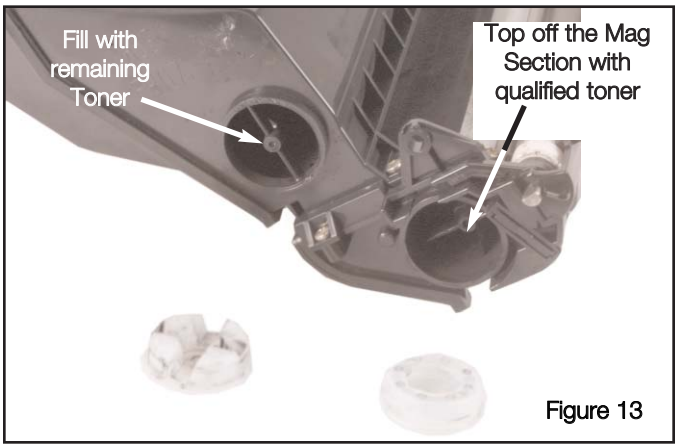
   a.. Place the Geared End of the Mag Roller into the Hopper.

   b. Place Contact end of Mag Roller into the cradle, and rotate the Mag Roller Stabilizer Lock into the Toner Hopper, as shown in Figure 12.



Install the Mag Roller.

3. Fill the Mag and Hopper sections with qualified toner, then replace the Hopper Caps, see Figure 13.



Fill the Mag section and Hopper with qualified toner.

1. Remove the two screws from each side of the Drum, see Figures 14 and 15. Remove the Drum Axle and the Drum Bearing Plate from the Waste Bin, see Figures 16 and 17.

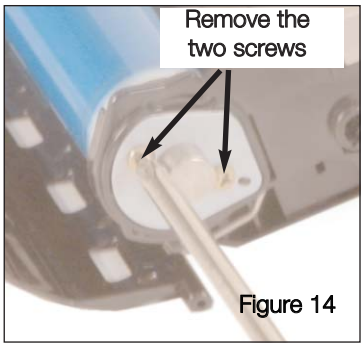


Figure 14

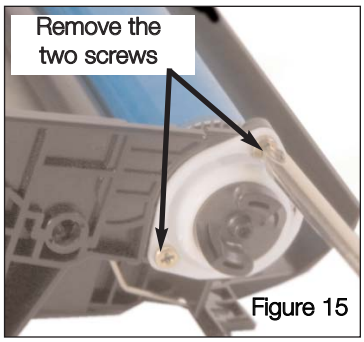


Figure 15

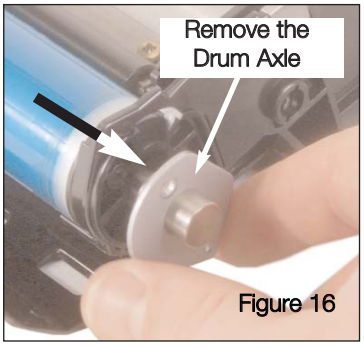


Figure 16

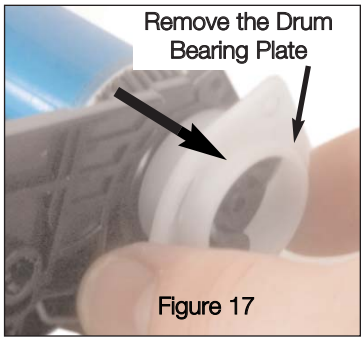


Figure 17

Remove the two screws on each side of the Drum.

2. Lift the non-geared side of the Drum with a dry lint free cloth, and slide the geared end of the Drum from the Waste Bin, as shown in Figure 18.

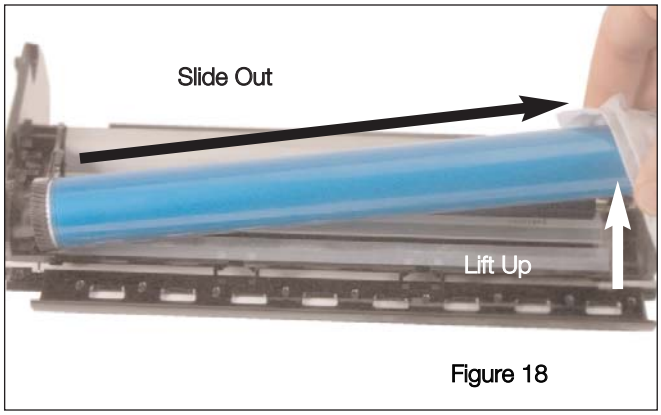


Figure 18

Lift Drum from the Waste Bin and slide out..

3. Using needlenose pliers, remove the PCR from the Waste Bin by the metal shafts, see Figure 19.

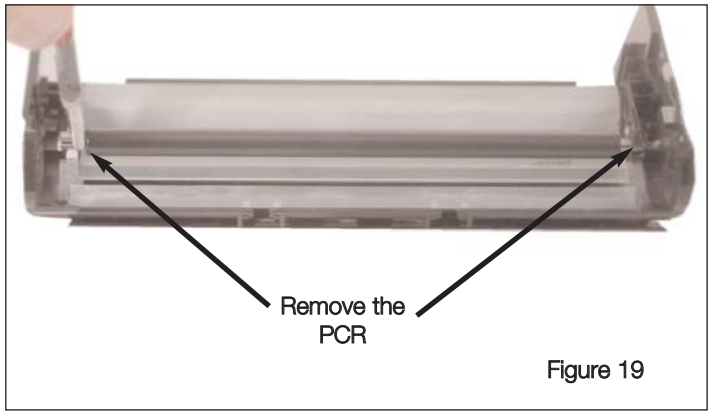
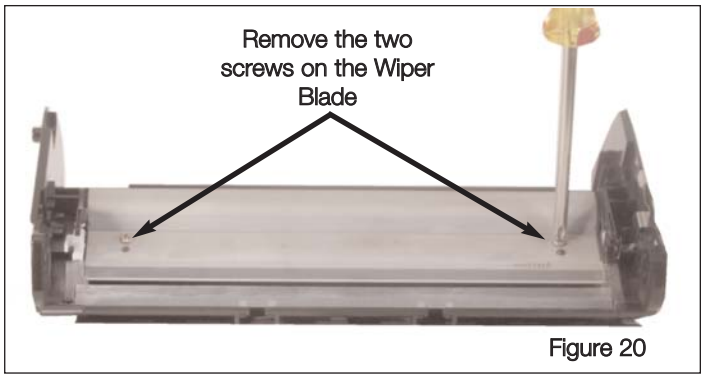


Figure 19

Remove the PCR by the metal shafts.

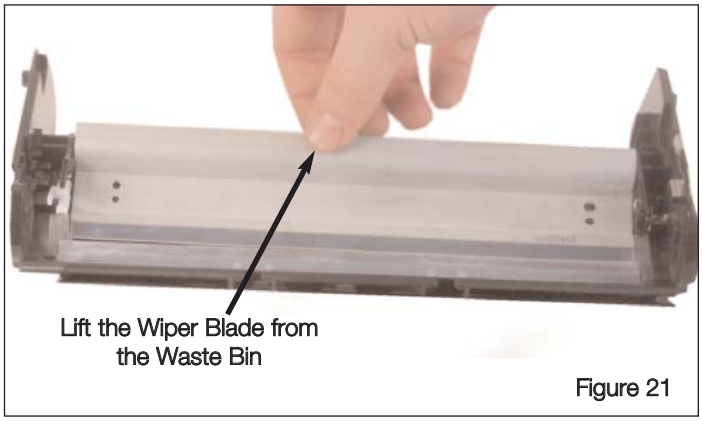
disassembly of the Waste Bin Section

4. Remove the two screws from the Wiper Blade, see Figure 20.



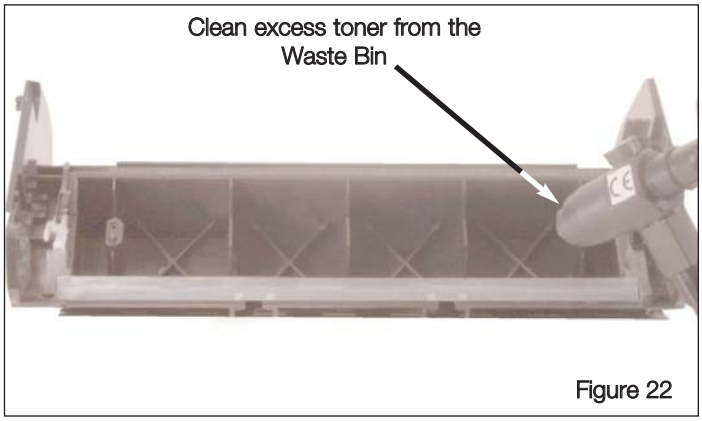
Remove the two screws from the Wiper Blade.

5. Lift the Wiper Blade from the Waste Bin, as shown in Figure 21.



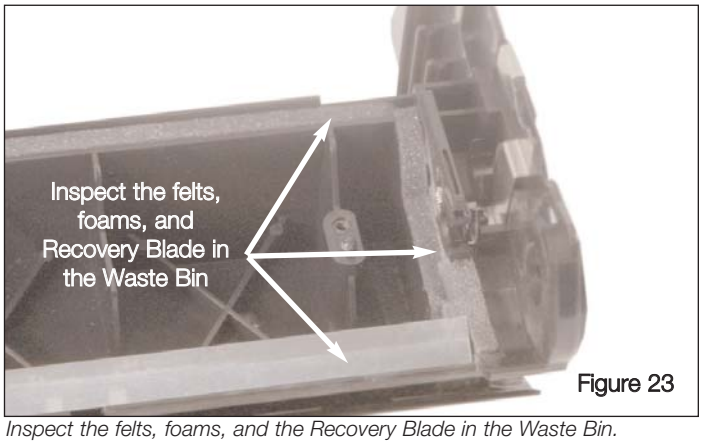
Lift out the Wiper Blade.

6. Clean the excess toner from the Waste Bin, using dry, filtered compressed air, see Figure 22.



Clean Waste Bin with dry, filtered compressed air.

7. Inspect the felts, foams, and the Recovery Blade in the Waste Bin, as shown in Figure 23.



Inspect the felts, foams, and the Recovery Blade in the Waste Bin.

1. Install the Wiper Blade, and secure with the two phillips screws, as shown in Figures 24 and 25. Be sure to dip the working edge of the Wiper Blade in a trough of Kynar™ Powder. Tap the metal stamping with a screwdriver to knock off any excess.

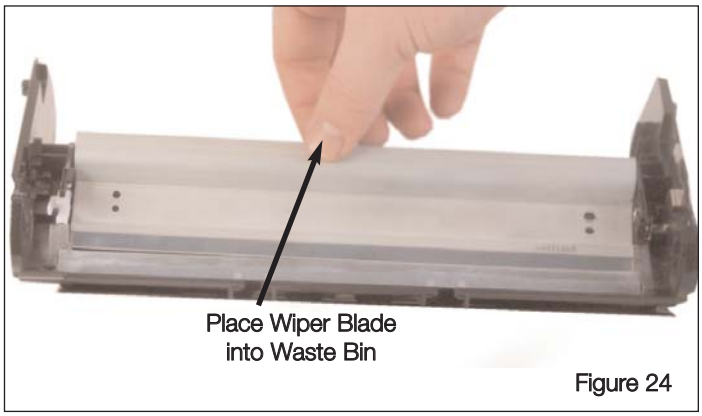


Figure 24

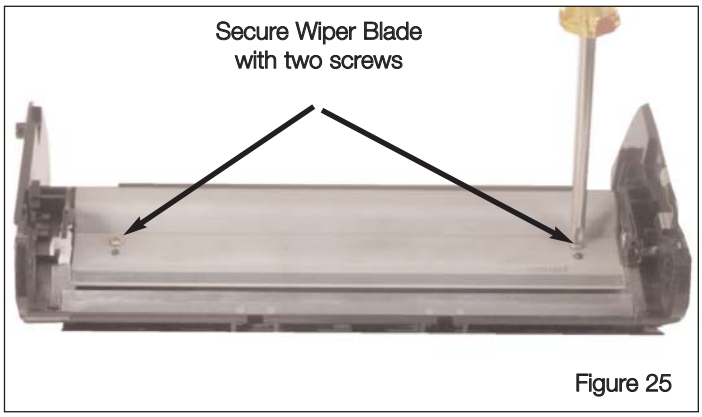


Figure 25

Install the Wiper Blade and secure with two screws.

Note: Be sure to apply conductive lube to the black PCR saddle, see Figure 26.

2. Install the PCR into the PCR saddles, be sure the metal shafts of the PCR snap into the saddles, see Figure 26.

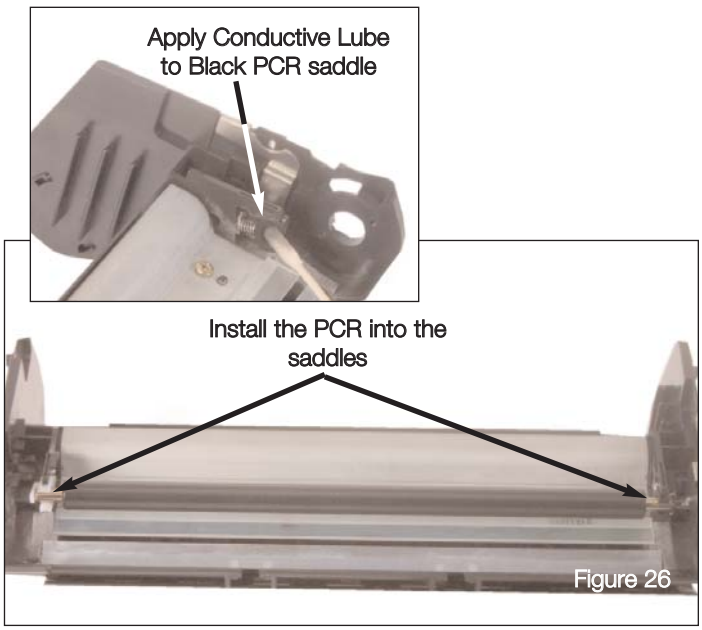
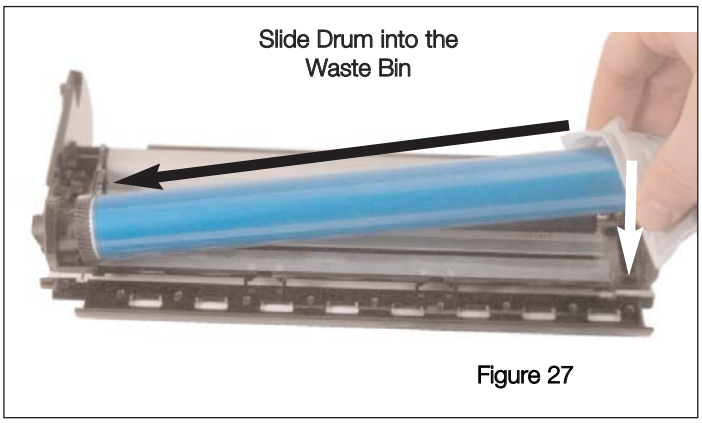


Figure 26

Apply conductive lube to the black PCR saddle and install the PCR to the Waste Bin.

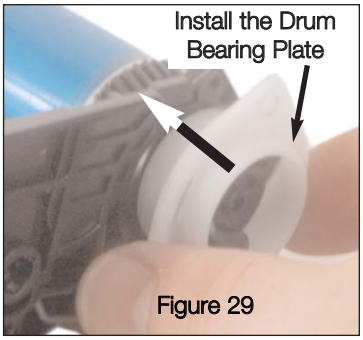
3. Place the geared side of the Drum into the Waste Bin and slide the Drum into place, as shown in Figure 27.

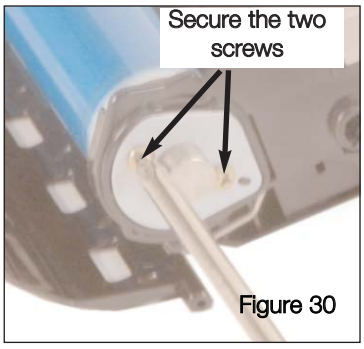


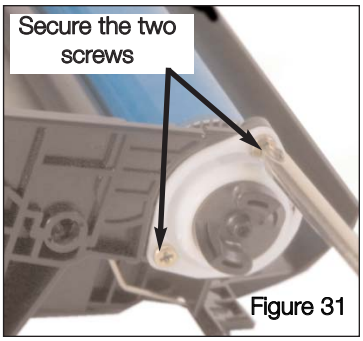
Install the Drum.

4. Install the Drum Axle and the Drum Bearing Plate to the Waste Bin and secure into place using phillips screws, as shown in Figures 28-31.

Note: Be sure to apply conductive lubricant to the Drum Axle.

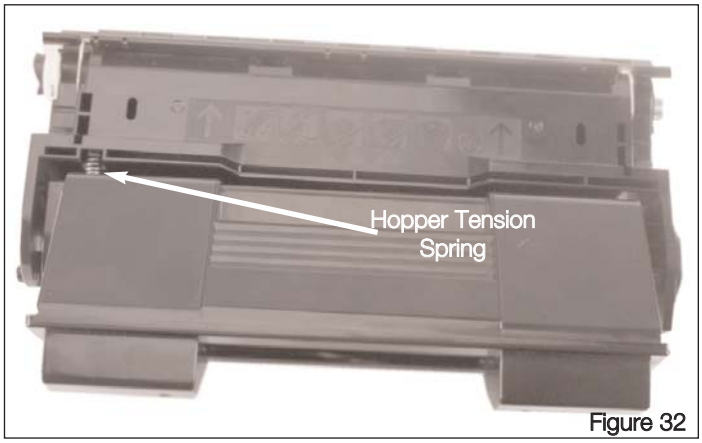






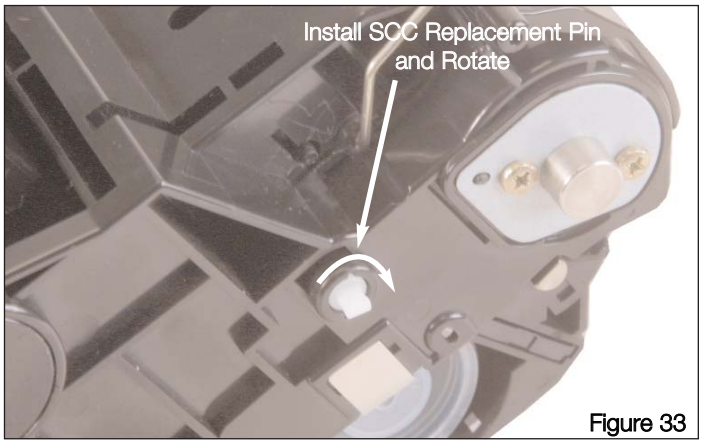
Install the Drum Axle and Bearing Plate and secure both sides with two screws.

1. Attach the two sections together. Be sure that the Hopper Tension Spring fits into slot on the Waste Bin, as shown in Figure 32.



Attach the two sections

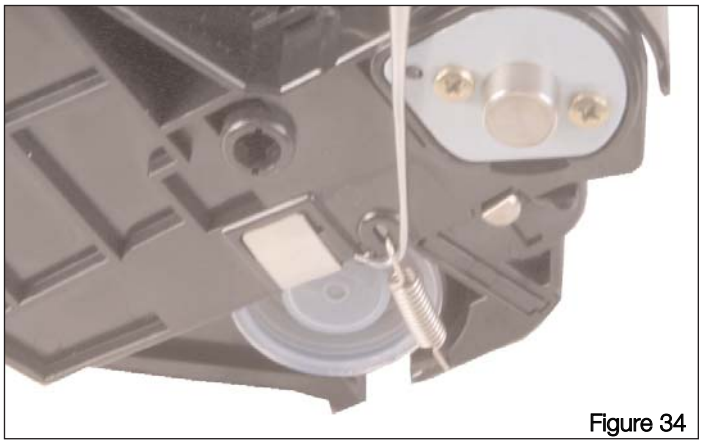
2. Install the SCC replacement pins into each side of the cartridge and rotate clockwise to secure the two sections, see Figure 33.



Install SCC replacement pins.

3. Attach the tension spring to the Contact Side of the cartridge, as shown in Figure 34.

For information on replacing the chip, refer to SSS™ 788 “Xerox 4500 Chip Solution”.



Attach the tension spring to the Contact side of the cartridge.

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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