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Lexmark® E220, E321/323 & E320/322 Toner Cartridge

About the Printers - E220

In September 2003 Lexmark® announced the release of their Lexmark E220 as a replacement for the E210. Targeted at home offices, small- and medium-size businesses, the E220 is based on the same Lexmark-developed engine used in the E321 (April 2003). The E210 was based on a Samsung engine and was host-based, where the E220 is not (more memory, not dependent on computer rendering the print job).

Key Points

•Up to 18 pages per minute and a First Page Out of only 9.5 seconds, the Lexmark E220 has the fastest rated print speed of any laser printer under $200 *.

•The toner cartridges used in the E220 offer lower yields than those used in the E321,

•All cartridges are chipped.

•A 1,500 page starter cartridge is included with the machine when shipped.

About the Printers - E321/323

On April 7, 2003 Lexmark® introduced the E321 and E323 as replacements for their E320 and E322 (Oct. 2001) monochrome laser printers. The new machines are based on the same print engines as their predecessors, but feature speeds of 20 pages per minute (ppm) and first page out time of 9.5 seconds, compared to the 320/322's 16 ppm and first page out of 12 seconds. Both the processor and memory of the new machines has been increased over those of the E320 and E322, but most other features remain unchanged.

Based on feedback from customer surveys, Lexmark changed the color of the new printers from beige to black and added a "job cancel" button to the front of the machines.

A comparison of the E321/323, E220 and E320/322 components found that the E321/323 and E220 doctor bars are made of aluminum, compared to the steel bar in the E320/322. Doctor bar putty and sealing strip is used in each model and the inner and outer sealing blades, developer rollers and adder rollers appear the same. Wiper blades physically appear interchangeable between all cartridges, and the recovery blades are physically the same size. Static Control's Imaging Labs are in the process of testing the E220's components for use in the E321/323 cartridges, and will provide information as soon as it becomes available.

Continued on page 2

Important: ONLY for use on:

1) Non-Prebate (Regular) cartridges (any brand).
2) IBM Return Program (Prebate) cartridges.

CARTRIDGE REMANUFACTURING INSTRUCTIONS FOR:

LEXMARK® E220, E321/323 & E320/322 TONER CARTRIDGE

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

Continued from page 1

About the Printers - E320/322

In October 2001 Lexmark® introduced their entry-level E320 and E322, at the time the highest performing monochrome laser printers under $500. With a print speed of up to 16 ppm and a first page-out time of less than 12 seconds (under <15 seconds for the E322n and E322tn), the printers offered higher performance at lower costs, making them popular among businesses, students and home users.

There are four models in the E320/322 series. The E320 (base,which replaces the E312L) and the E322 (base), support both parallel and USB connections. The E322n (network-ready) has one USB and one Ethernet port. The E322tn, available in Canada, is the E322n model with a 250 sheet drawer added. All have true 600 x 600 dpi and 1200 Image Quality resolution and ten adjustable darkness settings. The "easy-to-use" and "intuitive" control panel indicates when a toner-low condition is reached.

For information updates and product availability, contact your Static Support Team at www.scc-inc.com/imaging/Imaging.htm.

Important: ONLY for use on:

1) Non-Prebate (Regular) cartridges (any brand).

2) IBM Return Program (Prebate) cartridges.

Purpose of this SSS

The purpose of this SSS is to provide you a guide and the basic information needed to remanufacture an Lexmark E330/E220 Toner Cartridge. This SSS contains information about:

- Disassembling the cartridge
- 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. Complete the following steps to check for updated documentation and technical updates:

1. Go to http://www.scc-inc.com/imaging/Imaging.htm.
2. Scroll down to the Technical Documents area of the screen.
3. Select the link for the new or updated SSS.
4. When the SSS file opens, print the file.

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.

Note: The Lexmark E330/E220 consists of four toner cartridges and one imaging drum unit. In this instruction we will cover only how to remanufacture the Toner Cartridges.

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
- Standard Flat-Blade Screwdriver
- Small-Tipped Flat-Blade Screwdriver
- Long nose Pliers
- Hook Tool
- Funnel for Toner Bottle
- Compressed Air for Cleaning
- 91%-99% Isopropyl Alcohol
- Lint-Free Foam Tip Swab (LFSWAB)
- Lint-Free Cleaning Cloth (LFCCLOTH)
- Cotton Swab (QTIP)
- Conductive Cartridge Lubricant (CONCLUBE)

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.

The following table is summary of the E220, E321/323 and E320/322 cartridge specifications. This information was obtained from the OEM's website and is considered to be the most up to date information at the time of printing.

Printer Information:	**Lexmark® E220 - Mono**
Printer Introduction Price (street):	$199
Date of Printer Introduction:	Sep-03
First Page Out (seconds):	<9.5
Processor:	100MHz
Paper input (Max Std.):	150 sheets
Memory:	8MB/72MB
Duplex:	none
Connectivity:	Parallel/USB
Other:	Ships w/1,500 pg starter cart

Engine Information:	
Print Resolution (dpi):	600x600 (1200 IQ)
Print Speed (pages per minute):	18
Duty Cycle (pages per month):	10,000

Cartridge Information:	**Starter (Return)**	**Standard (Return)**	**Standard (non-Return)**
Cartridge Part Number (OEM):	N/A	12S0400	12S0300
OEM Rated Page Yield:	1,500	2,500	2,500
OEM MSRP*:	N/A	$80	$100
Wholesale (Supplies Network)*:	N/A	$70	$93
**Prices as of July 2004*			

Compatibile:
IBM® – N/A
Dell - N/A

Printer Information (mono):	**Lexmark® E321**	**Lexmark® E323**	**Lexmark® E323n**
Printer Introduction Price (street):	$299.00	$399.00	$599.00
Date of Printer Introduction:	April-03	April-03	April-03
First Page Out:	<10	<10	<10
Processor:	100MHz	200MHz	200MHz
Paper input tray:	1-150/1-100	1-150/1-100	1-150/1-100
Memory:	8MB/72MB	16MB/144MB	16MB/144MB
Duplex:	manual	manual	manual
Connectivity:	USB/Parallel	USB/Parallel	USB/Parallel/Ethernet
Other:	ships w/1,500 page starter cartridge	ships w/3,000 page std return cartridge	ships w/3,000 page std return cartridge

Engine Information:			
Print Resolution (dpi):	300/600/1200IQ	300/600/1200IQ	300/600/1200IQ
Print Speed (pages per minute):	20	20	20
Duty Cycle (pages per month):	10,000	15,000	15,000

Cartridge Information:	**Starter - E321 only**	**Std. No-Return/High Yield (Non-Pebate)**	**Std. Return/High Yield (Prebate)**
Cartridge Part Number (OEM):	N/A	12A7300/12A7305	12A7400/12A7405
OEM Rated Page Yield:	1,500	3,000/6,000	3,000/6,000
OEM MSRP*:	N/A	$109/$156	$89/$136
Wholesale (Supplies Network)*:	N/A	N/A/$137	$78/$115
**Prices as of June 2004*			

Compatibile:
IBM® - InfoPrint® 1312
Dell – P1500

Printer Information:	**Lexmark E320**	**Lexmark E322**	**Lexmark E322n**
Printer Introduction Price (street):	$299.00	$399.00	$599.00
Date of Printer Introduction:	October-01	October-01	October-01
First Page Out:	<12 seconds	<12 seconds	<15 seconds
Processor:	67 MHz	133MHz	133MHz
Paper input tray:	150 sheet tray	150 sheet tray	150 sheet tray
Memory:	4 MB/68MB	8MB/72MB	16MB/80MB
Duplex:	manual	manual	manual
Connectivity:	USB/Parallel	USB/Parallel	USB/Ethernet
Other:	ships w/1,500 page starter prebate cartridge	ships w/3,000 page std prebate cartridge	ships w/3,000 page std prebate cartridge

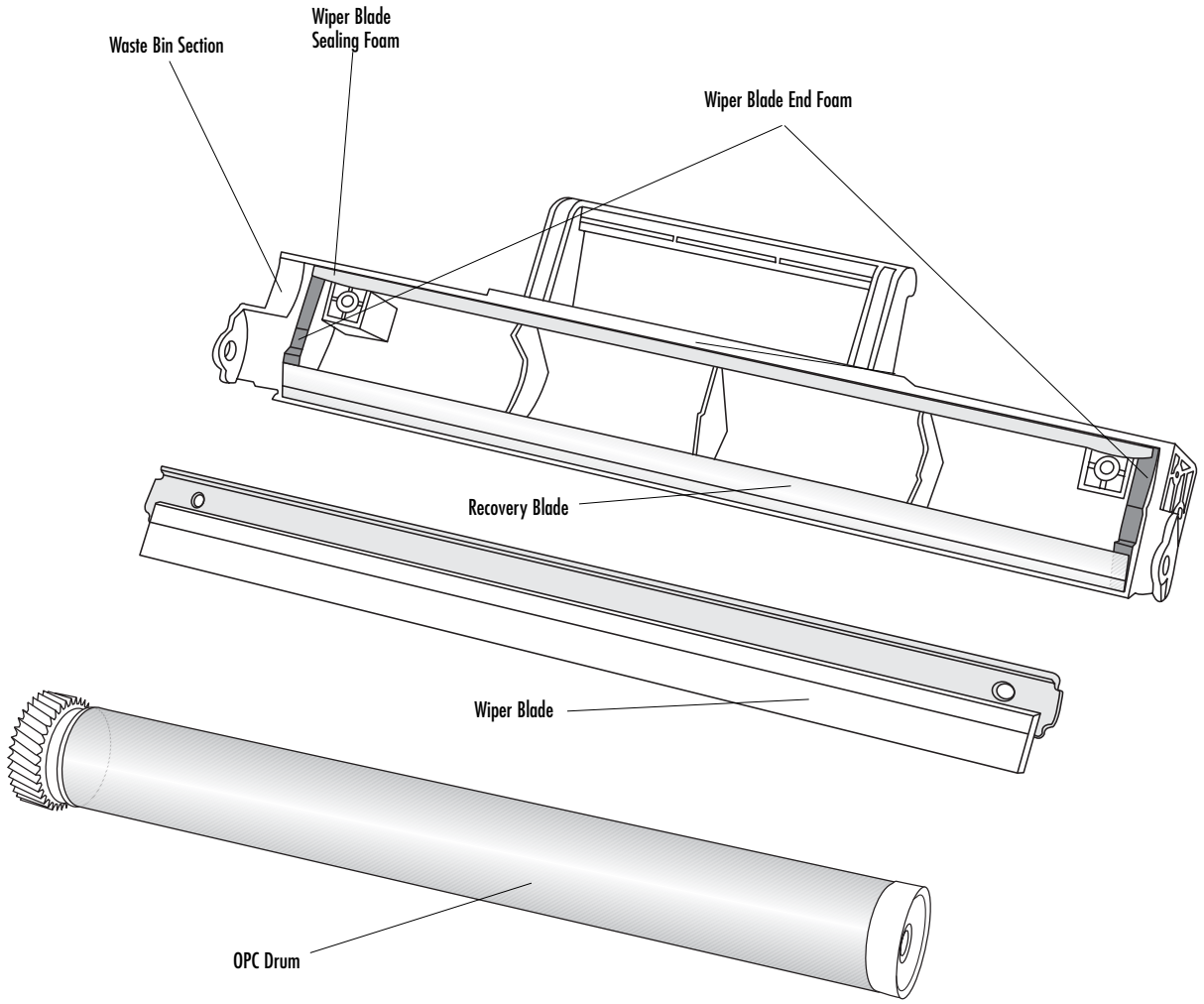
Engine Information:			
Print Resolution (dpi):	300/600/1200IQ	300/600/1200IQ	300/600/1200IQ
Print Speed (pages per minute):	16	16	16
Duty Cycle (pages per month):	10,000	15,000	15,000

Cartridge Information:	**Starter Prebate**	**Std. Non-Pebate**	**Std. Prebate**
Cartridge Part Number (OEM):	N/A	08A0475	08A0476
OEM Rated Page Yield:	1,500	3,000	3,000
OEM MSRP*:	N/A	$109	$89
Wholesale (Supplies Network)*:	N/A	$94	$78
**Prices as of July 2004*			

Compatibile:
IBM® - InfoPrint® 1116
Dell – N/A

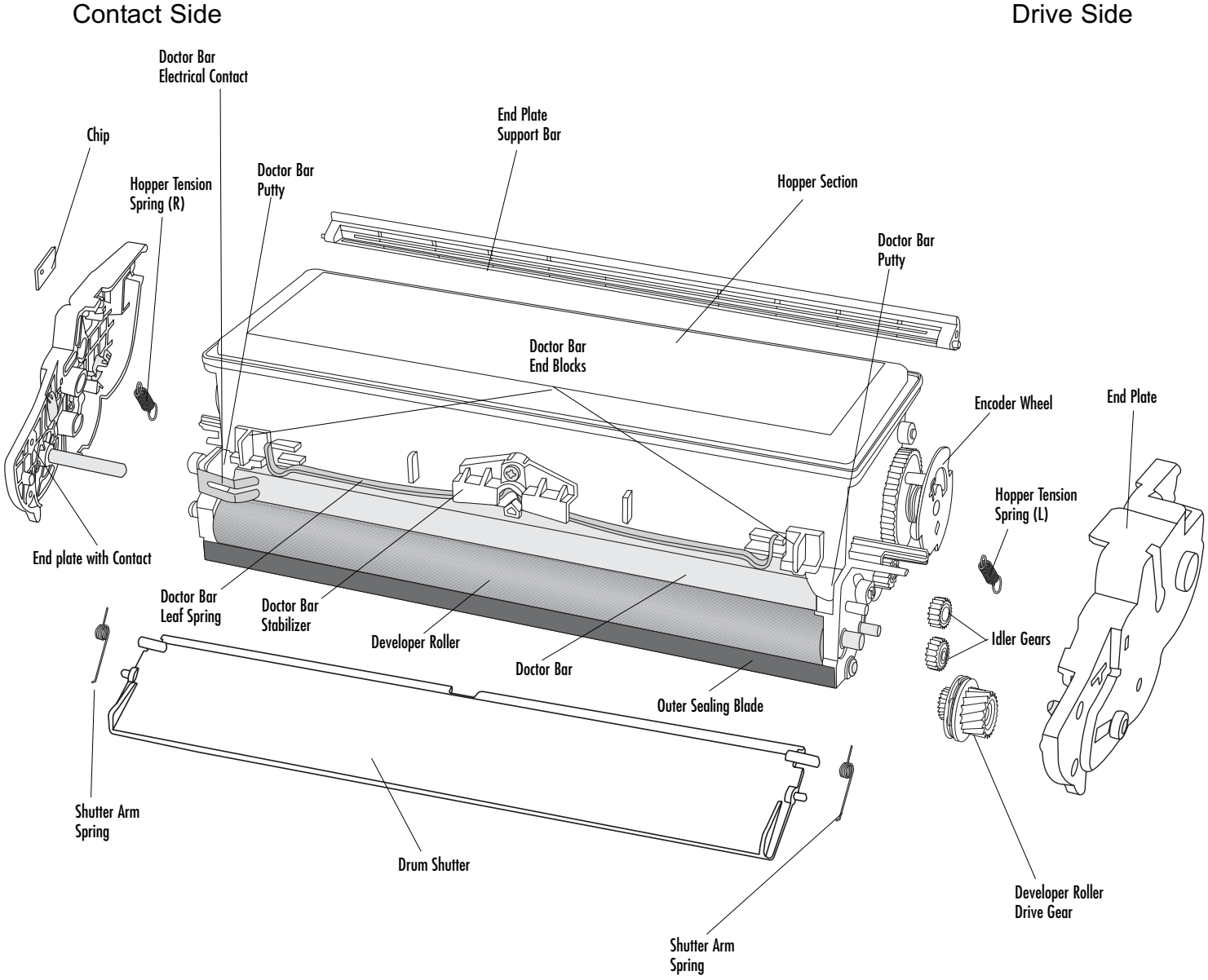
Drive Side

Contact Side



Waste Bin Assembly

product wirelines



Toner Hopper Assembly

product wirelines

Separating the Cartridge

This section provides the information needed to separate the Cartridge. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

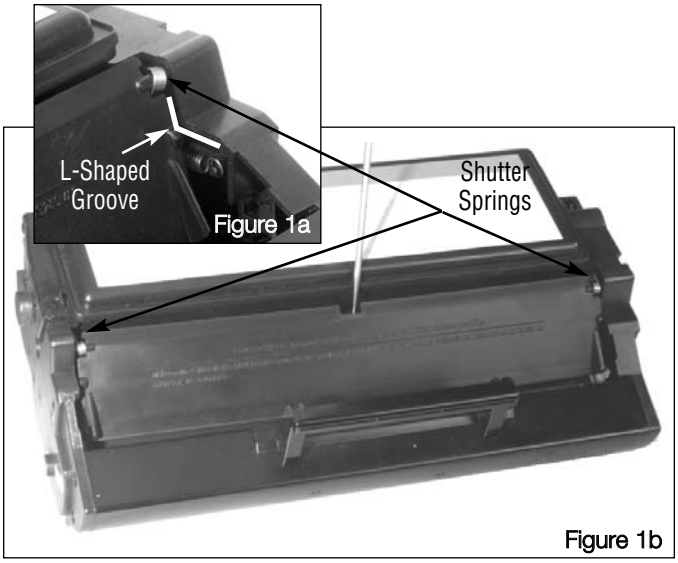
1. Remove the Drum Shutter from the Cartridge

a. The Drum Shutter has two posts on each end that move freely within L-shaped grooves in the cartridge housing. There is one Shutter Spring at each end of the cartridge as shown in Figure 1a.

b. Using a Hook Tool or similar instrument, carefully lift the Shutter in the center. Apply steady pressure to one side of the Shutter, bending it outward slightly in the center. Lift out, being careful not to lose the Shutter Springs as shown in Figure 1b.

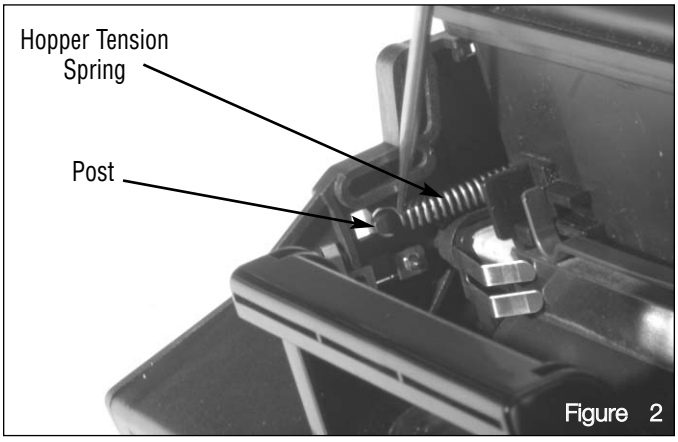
Note:

The location and orientation of the 2 Drum Shutter Springs. Each will have to be installed in the correct side of the Drum Shutter.



Remove the Drum Shutter from Cartridge.

2. Remove the Hopper Tension Springs using a Hook Tool. Reach in to the Cartridge and detach the Tension Springs from the posts on each side of the cartridge, see Figure 2.



Remove Hopper Tension Springs.

3. Remove the Drive Side End Plate

a. Using a standard Phillips screwdriver, remove the 3 screws that secures the Drive Side End Plate as shown in Figure 3.

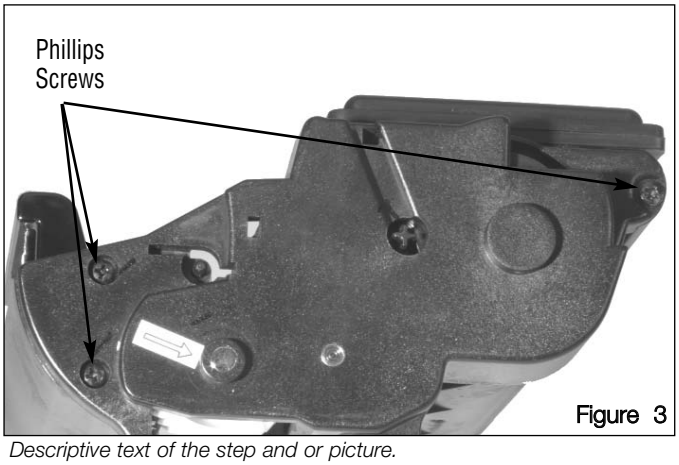


Figure 3

Descriptive text of the step and or picture.

b. Carefully remove the Drive Gear End Plate, placing the Cartridge Tension Spring with the End Plate for proper reassembly. The Hopper Tension Springs may fall off their posts when the plates are removed (Figure 4).

Note:

The Contact Side Spring is shorter than the Drive Side Spring. Take care not to loose these Springs, and place them so that they can be identified for proper replacement during Cartridge reassembly.

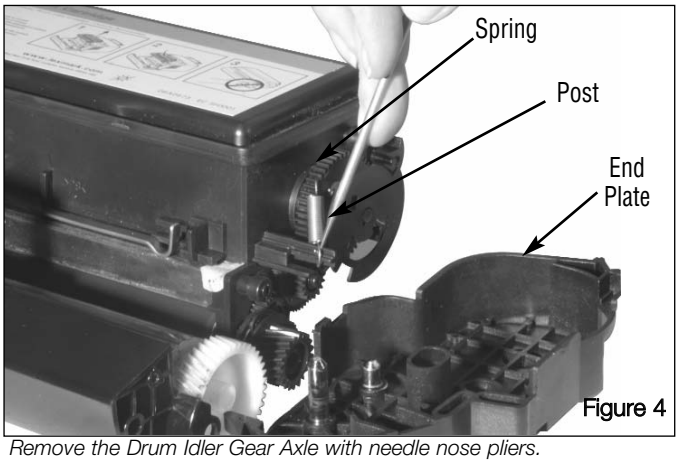


Figure 4

Remove the Drum Idler Gear Axle with needle nose pliers.

4. Remove the two Phillips screws from the Contact Side End Plate and Waste Bin, and detach the End Plate (Figure 5). The Contact End Plate, Waste Bin and Drum will fall away from the Hopper section (Figure 6).

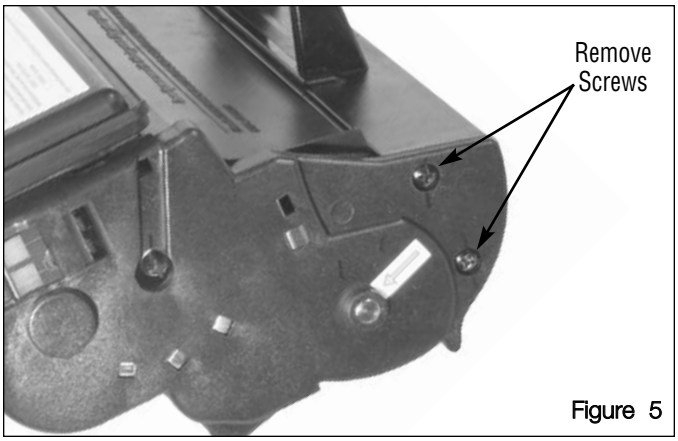


Figure 5

Remove the Phillips screws from Contact Side End Plate and Waste Bin.

Figure 6

Remove the Drum Idler Gear Axle with needle nose pliers.

6. Remove the Organic Photoconductive (OPC) Drum from the Cartridge by grasping it on the Drive Gear end and pulling off the Drum axle on the Contact End Plate (Figure 7).

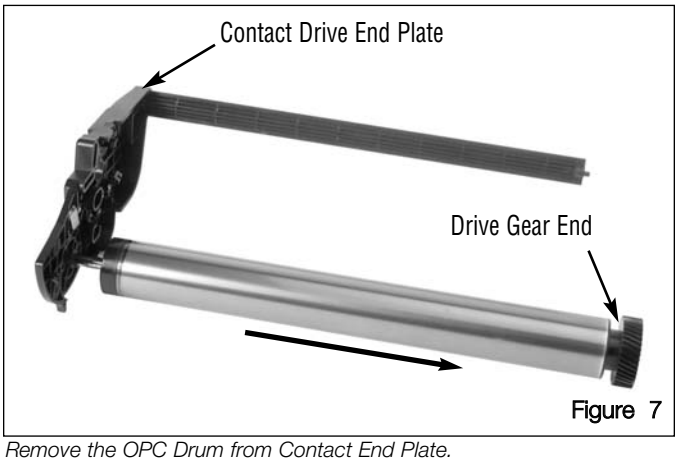


Figure 7

Remove the OPC Drum from Contact End Plate.

This section provides the information needed to disassemble the Hopper section. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Remove the Developer Roller Drive Gear, Toner Adder Roller Drive Gear and the small black Idler Gear from the Cartridge as seen in Figure 8.

Note:

Note the location of each Gear for proper replacement.The Drive Gears will fall from the housing and could be lost. Remove the Gears before Hopper section disassembly.

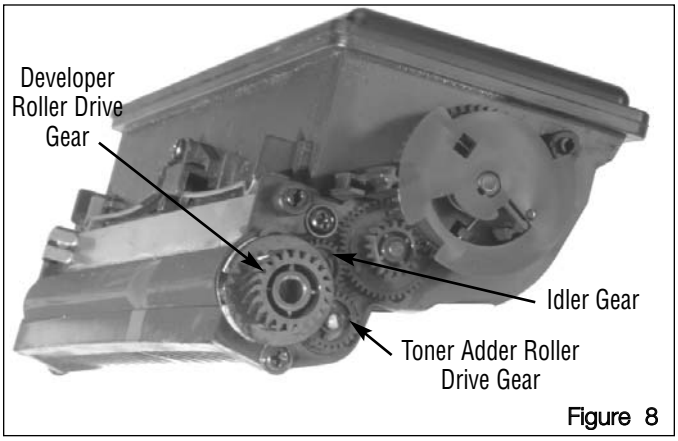


Figure 8

Remove the Drive Side Gears before disassembly.

2. Remove the Doctor Bar Stabilizer and Doctor Bar Leaf Spring, held in place with one Phillips screw (Figure 9).

Note:

Do not leave the Doctor Bar Leaf Spring installed in the Hopper when the Developer roller is not present. The pressure from the Leaf Spring will force the Doctor Bar from its installed position. ALWAYS remove the Doctor Bar and Leaf Spring before removing the Developer Roller.

Do not touch the surface of the Developer Roller with your bare fingers. Use gloves or other protective materials.

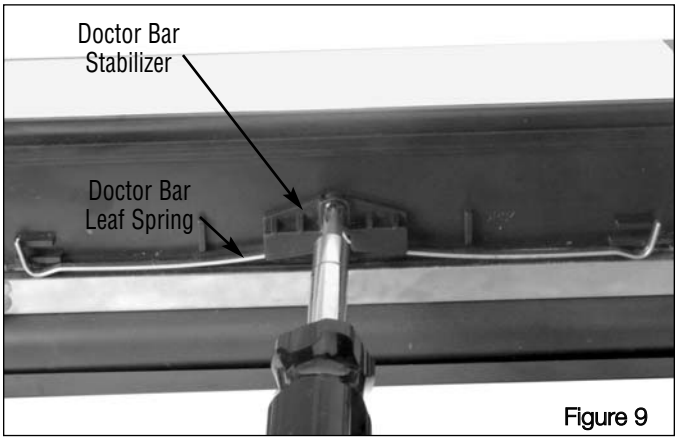


Figure 9

Remove the Doctor Bar Stabilizer and the Leaf Spring.

3. Remove the Doctor Bar

a. Remove the Doctor Bar End Blocks and discard.

b. Use the Curved Scraper Tool to carefully remove the Putty on each end of the Doctor Bar as seen in Figure 10.

Note:

Remember to notice how much putty you remove. Do not reuse what is removed - it is already contaminated with toner.

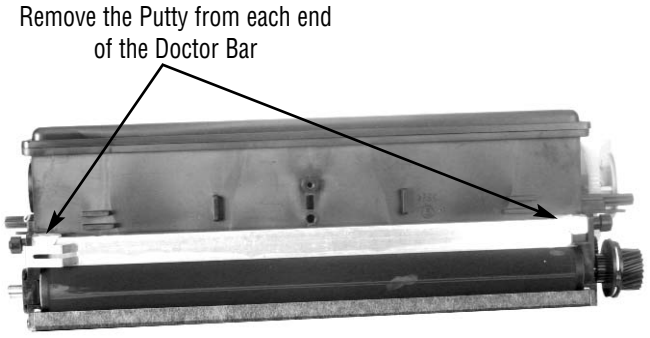


Figure 10

Remove the Putty from the Doctor Bar.

c. Remove the Doctor Bar Sealing Strip by lifting the end of the strip with the Curved Scraper Tool, then peel from the Cartridge and discard. See Figure 11.

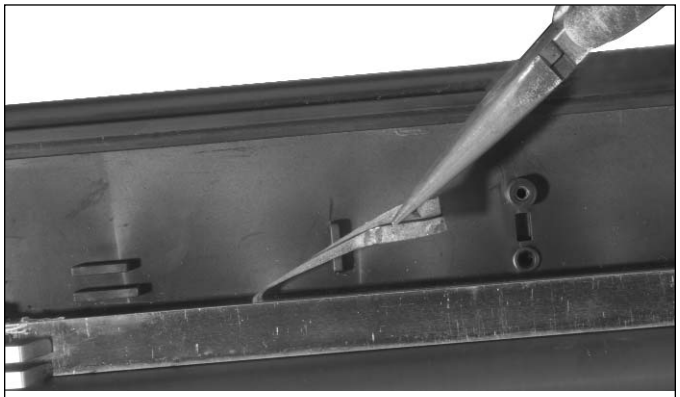


Figure 11

Remove the Doctor Bar Sealing Strip.

d. Carefully remove the Doctor Bar from the Hopper by lifting it straight up and out (Figure 12).

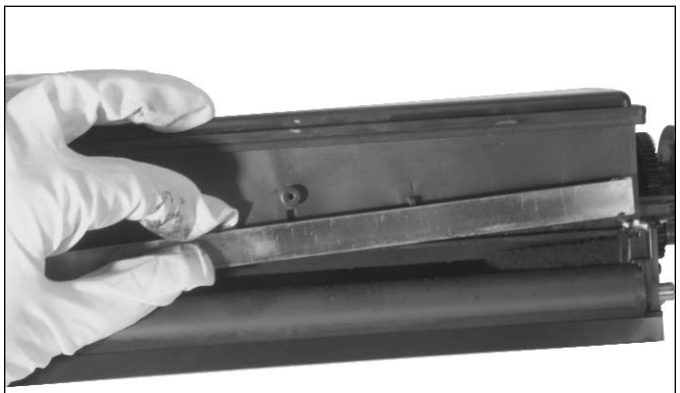


Figure 12

Remove the Doctor Bar.

4. Remove the Developer Roller

a. Insert the tip of a small flat-blade screwdriver into the notch on the Developer Roller Shaft Bushing (contact side) and remove the Bushing (Figure 13).

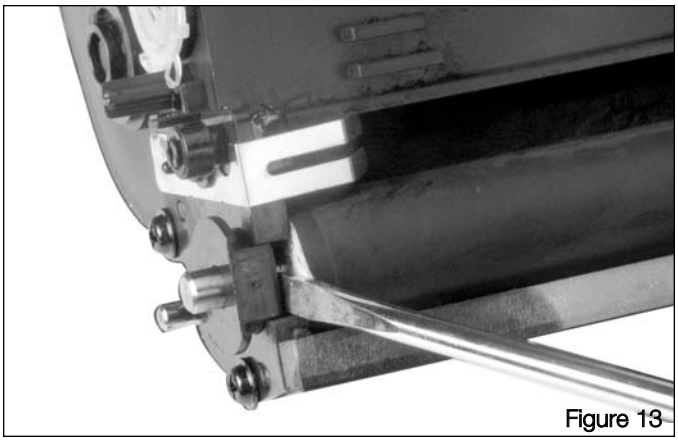


Figure 13

Remove the Developer Roller Bushing.

b. Carefully lift the contact end of the Developer Roller from the Hopper and pull the keyed end out of the End Plate on the opposite side of the Hopper (Figure 14).

Note:

Remember not to touch the surface of the Developer Roller with your bare skin, and take care not to nick the surface of the roller with the Air Gun.

Figure 14

Remove the Developer Roller from the Hopper section.

c. Remove the Plastic Washer from each end of the Developer Roller (Figure 15).

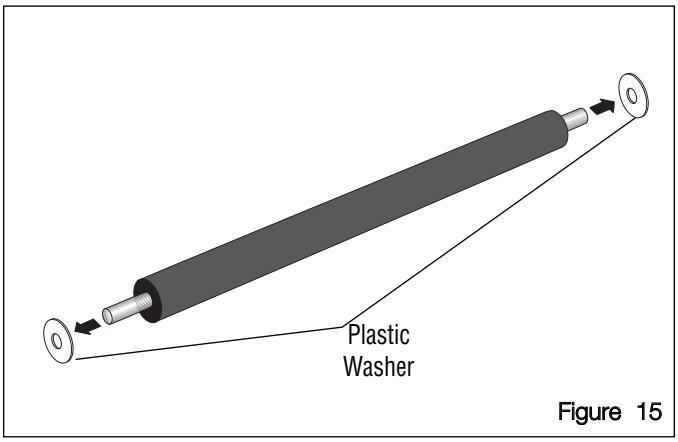


Figure 15

Remove the Plastic Washer from each end of the Developer Roller.

d. Remove Conductive Grease from end of the Developer Roller Shaft using a lint-free Cloth or cotton-tipped Swab dampened with 91-99% Isopropyl Alcohol (Figure 16).

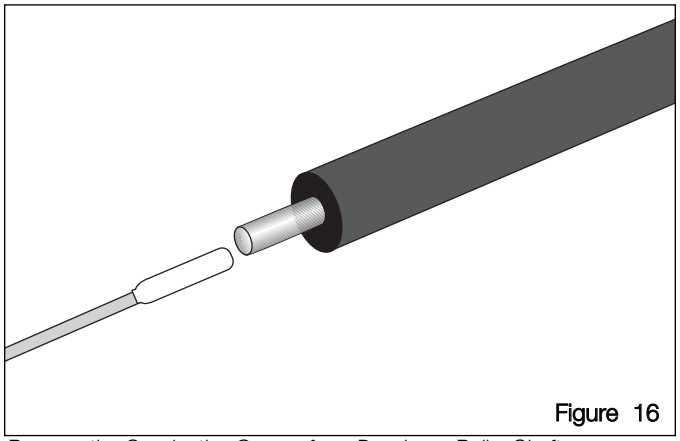


Figure 16

Remove the Conductive Grease from Developer Roller Shaft.

e. Clean the Developer Roller with ionized, dry, filtered, compressed air. Set the roller aside where it will be protected.

5. Remove the Hopper Cap with Flat-Blade Screwdriver (Figure 17).

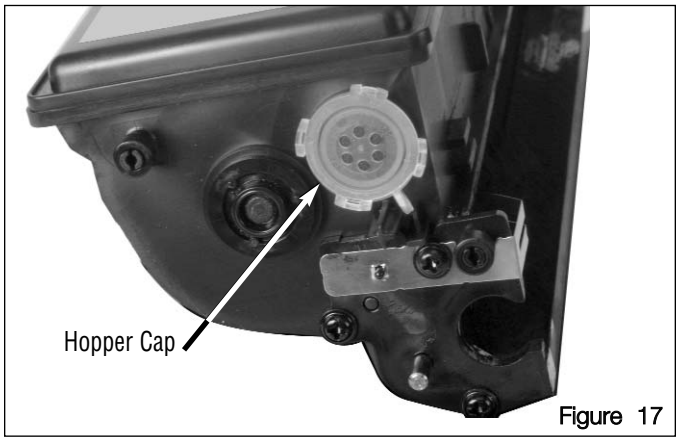


Figure 17

Remove the Hopper Cap.

6. Clean the Hopper and its components

a. Dump any remaining Toner from the Hopper and clean with ionized, dry, filtered, compressed air.

Note:

Often light print problems can be a result of Toner embedded in the surface of the Toner Adder Roller. For best results, clean the Toner Adder Roller each remanufacturing cycle to remove compacted Toner.

b. Clean the Toner Adder Roller and the Developer Roller Inner and Outer Sealing Blades using only ionized, dry, filtered, compressed air (Figure 18). Clean small sections of the Roller at a time by rotating the Roller slowly while directing the air stream back and forth along the Roller surface. Do not use any type of cleanser on the Sealing Blades.

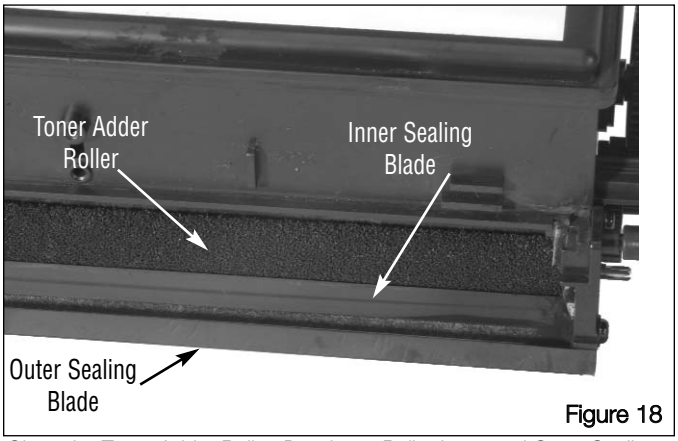


Figure 18

Clean the Toner Adder Roller, Developer Roller Inner and Outer Sealing Blades.

Note:

If the Developer Roller Sealing Blades appear bent, torn or otherwise damaged, they should be replaced. See SSS™ 472 *"Lexmark® E320/322 Inner & Outer Sealing Blade with Sealing Strip"* for complete installation instructions.

Note:

Be careful not to touch the Toner Adder Roller or the Developer Roller Sealing Blades with the Air Gun Nozzle..

c. Use a dry cotton-tipped or lint-free Swab to clean Toner and debris from the gill-like Developer Roller End Seals at each end of the Hopper (Figure 19).

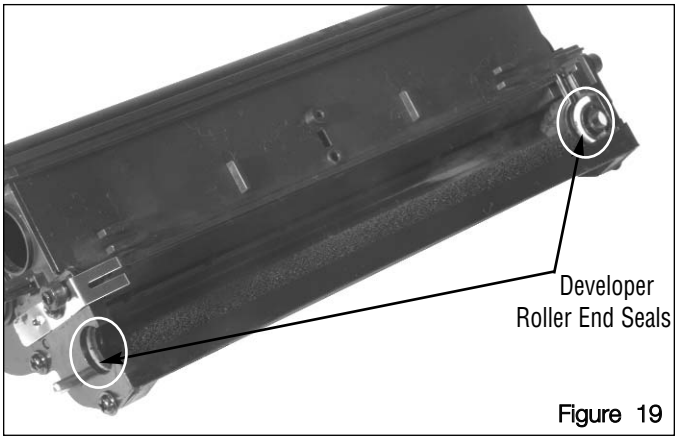


Figure 19

Clean the Developer Roller End Seal is on each end of Hopper.

d. Clean the Doctor Bar support areas. Using 91%-99% Isopropyl Alcohol and a cotton-tipped applicator, remove any Toner and or Putty from the slots (both ends of cartridge) where the Doctor Bar rests.

This section provides the information needed to reassembly the Toner Hopper section. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Install the Developer Roller

a. Install one plastic Washer on each end of the Developer Roller Shaft (Figure 20). If lost or damaged, replacement Washer can be obtained from Static Control (IBMWASHER).

Note:

Washer are to help reduce friction only and not for sealing purposes. Using more than one Washer per end will not help reduce toner leakage, and may actually contribute to other print defects.

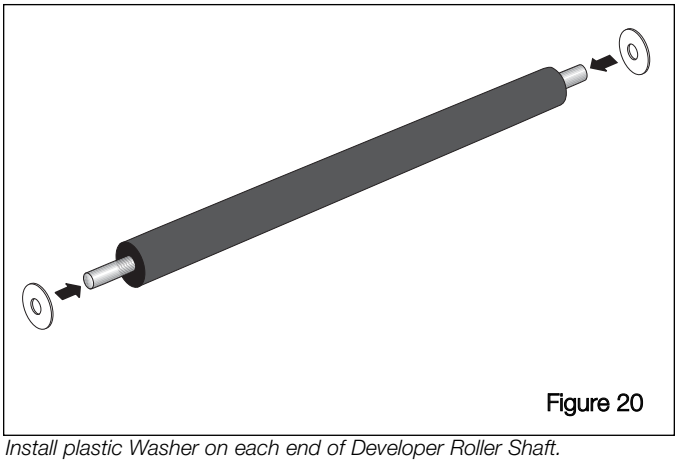


Figure 20

Install plastic Washer on each end of Developer Roller Shaft.

b. Insert the keyed end of the Developer Roller Shaft in to the drive end of the housing (Figure 21). Make sure the Washer lies flat against the Developer Roller.

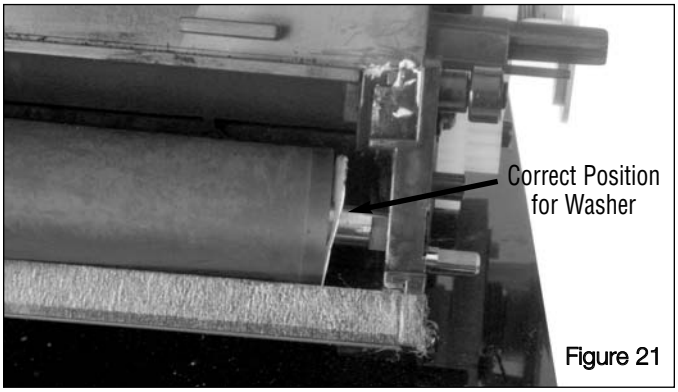
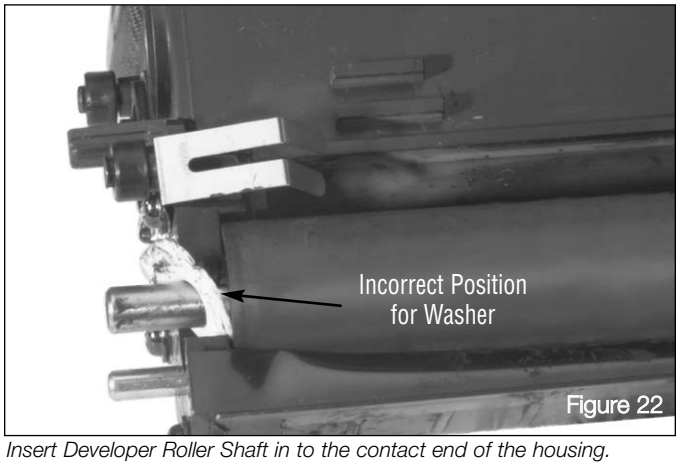


Figure 21

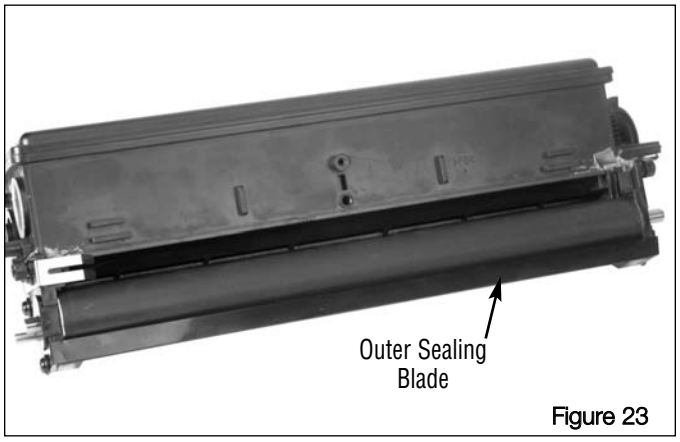
Insert Developer Roller Shaft in to the drive end of the housing.

c. Insert the non-keyed end of the Developer Roller Shaft in to the contact end of the housing (Figure 22). Make sure the Washer lies flat against the Developer Roller.



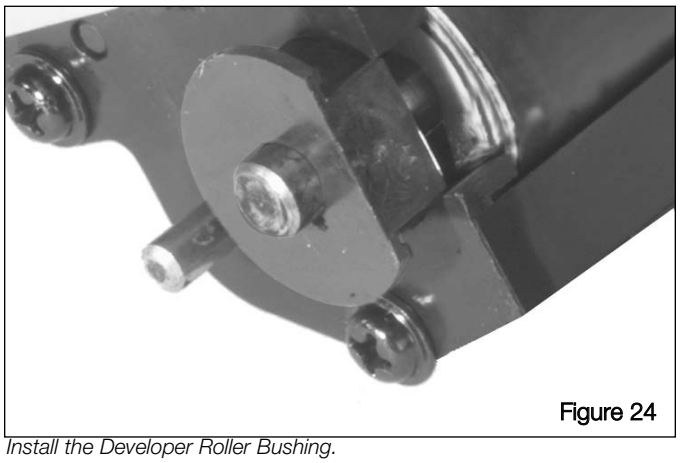
Insert Developer Roller Shaft in to the contact end of the housing.

d. Making sure that the Outer Sealing Blade do not get pushed to the inside of the housing. A small flat-blade Screwdriver can be used to carefully lift the Sealing Blades into their correct position (Figure 23).



Position Developer Roller in Hopper Section.

e. Replace the Developer Roller Bushing, being careful not to touch the surface of the Developer Roller (Figure 24).



Install the Developer Roller Bushing.

2. Install the Doctor Bar

Note:

Replacing the OEM Doctor Bar with a new Odyssey® Doctor Bar and Leaf Spring (OSOPTTDBAR). The Doctor Bar Installation Kit (IBMDBARKIT-4) includes Doctor Bar Putty, Seal Strip and detailed instructions that make installation quick and easy (Doctor Bar and Springs sold separately from Kit).

a. The Odyssey® Doctor Bar should be installed with the working surface of the Bar facing the Developer Roller (Figure 25).

Note:

Always wear gloves when working with the Odyssey® Doctor Bar, and take care not to damage the working surface of the Bar.

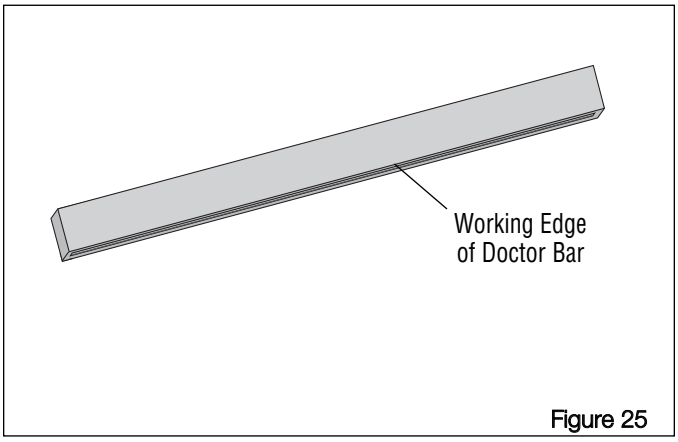


Figure 25

Install the Odyssey® Doctor Bar.

b. If remanufacturing a Cartridge with an Odyssey® Doctor Bar already installed, the Bar can be re-used. Simply turn the Bar end-to-end for a second cycle (Figure 26). DO NOT flip top-to-bottom. The working surface of the Bar must face the Developer Roller.

Note:

Be extremely careful not to damage the Developer Roller while removing or installing the Doctor Bar.

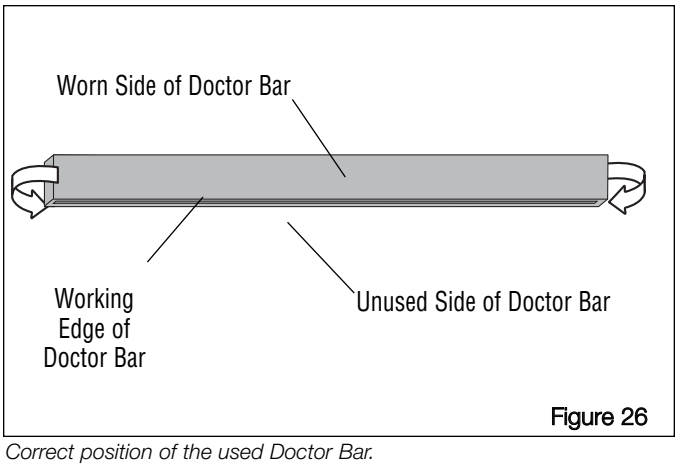


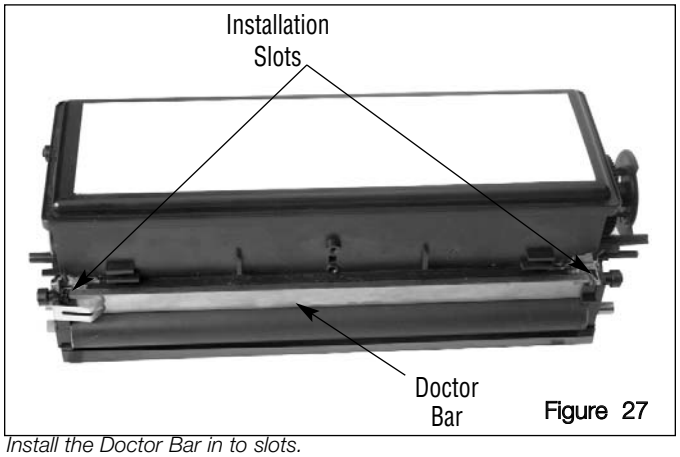
Figure 26

Correct position of the used Doctor Bar.

c. Carefully place the Odyssey® Doctor Bar in to the slots where it will rest. The Doctor Bar should be installed with the working surface facing the Developer Roller (Figure 27).

Note:

The Doctor Bar can be rotated for a second cycle,



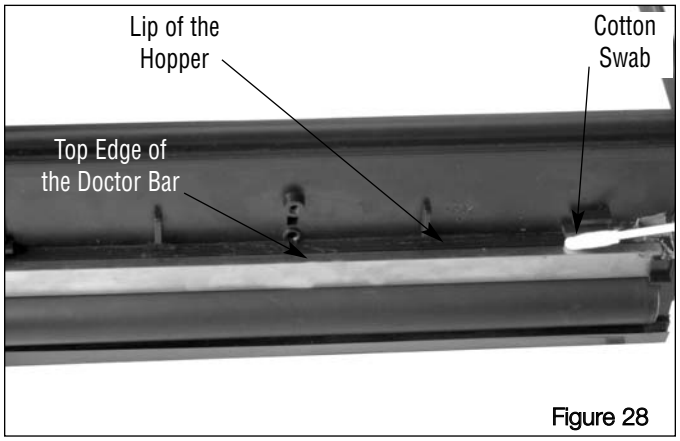
Install the Doctor Bar in to slots.

3. Install the Doctor Bar Sealing Strip

a. Clean the Doctor Bar Sealing Strip mounting surface (the lip of the Hopper and the top edge of the Doctor Bar) with 91%-99% Isopropyl Alcohol and a cotton-tipped Applicator (Figure 28). Allow the Alcohol to dry completely.

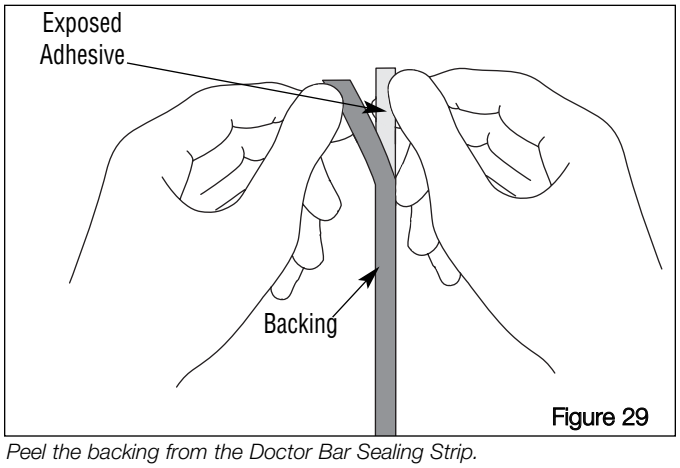
Note:

DO NOT saturate the cotton on the Applicator. Excess Alcohol can run down the back side of the Bar and into the Toner.



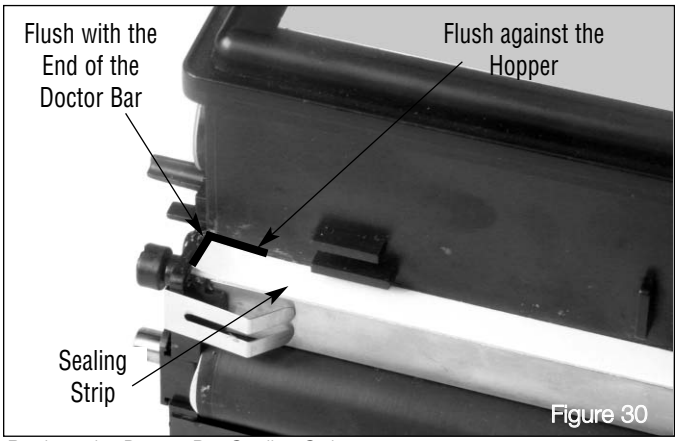
Clean Doctor Bar Sealing Strip mounting surface.

b. Expose the Doctor Bar Sealing Strip Adhesive by peeling off and folding back 1 to 2 inches of the Paper backing from one end of the Doctor Bar Sealing Strip (Figure 29).



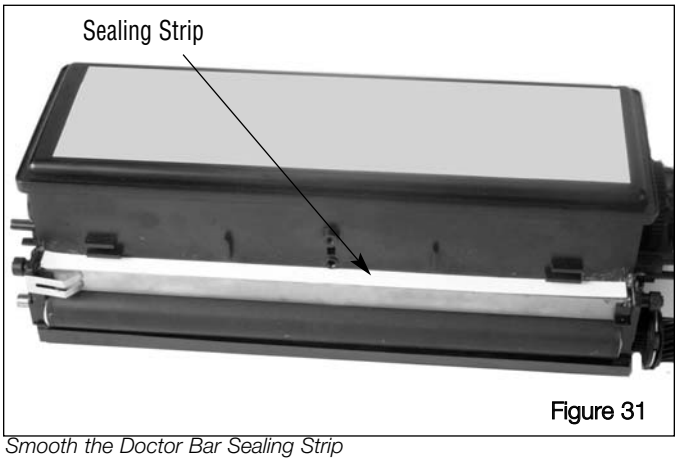
Peel the backing from the Doctor Bar Sealing Strip.

c. Place the end of the Sealing Strip flush with the end of the Doctor Bar and flush against the Hopper as seen in Figure 30.



Replace the Doctor Bar Sealing Strip.

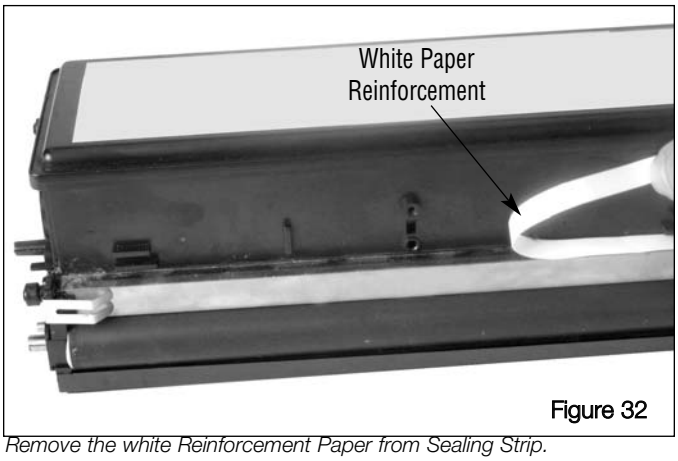
d. Carefully press the Strip into place, peeling the backing off slowly as you progress. You may want to use your small flat blade Screwdriver to press the Strip into place, smoothing out any wrinkles and air pockets (Figure 31.



Smooth the Doctor Bar Sealing Strip

f. Peel up one corner of the white Reinforcement Paper and remove (Figure 32).

e. Go over the Seal once again, pressing down with your Curved Scraper Tool to secure the Strip into place and remove any air bubbles.



Remove the white Reinforcement Paper from Sealing Strip.

4. After insuring that all Toner has been removed from the corners, apply a small amount of fresh Doctor Bar Putty (approximately the same amount you removed at the beginning of the instructions) in each corner at the end of the Doctor Bar to complete the seal. Use a small flat-head Screwdriver or Curved Scraper Tool to press the Putty in place where the Bar and Hopper meet (Figure 33).

Note:

Be careful not to get any of the Putty on the Developer Roller.

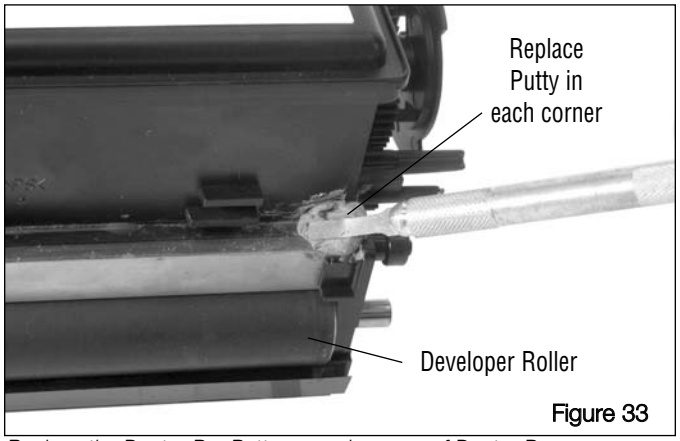


Figure 33

Replace the Doctor Bar Putty on each corner of Doctor Bar.

Note:

When installing a new SCC Odyssey® Doctor Bar, the Leaf Spring must be replaced with the Spring designed for use and packaged with the new Doctor Bar. This cartridge requires the Optra T Doctor Bar and Leaf Spring which can be identified by the "T" marking on the Spring (Figure 34).

Note:

The 'V' should be pointing away from the Hopper when properly installed.

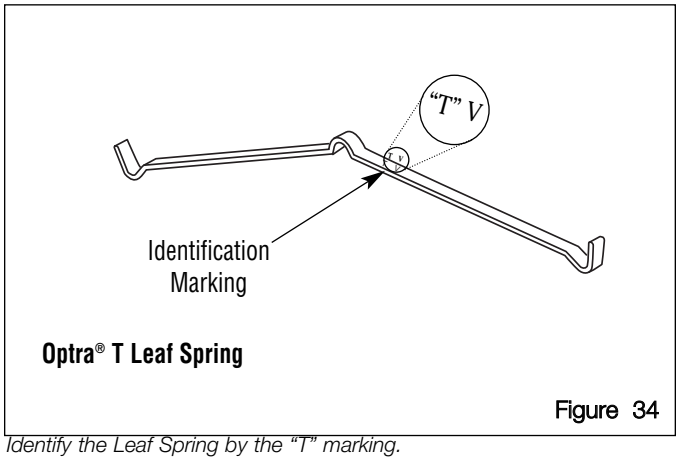


Figure 34

Identify the Leaf Spring by the "T" marking.

5. Install the Doctor Bar Stabilizer and Doctor Bar Leaf Spring. Secure with one Phillips screw (Figure 35).

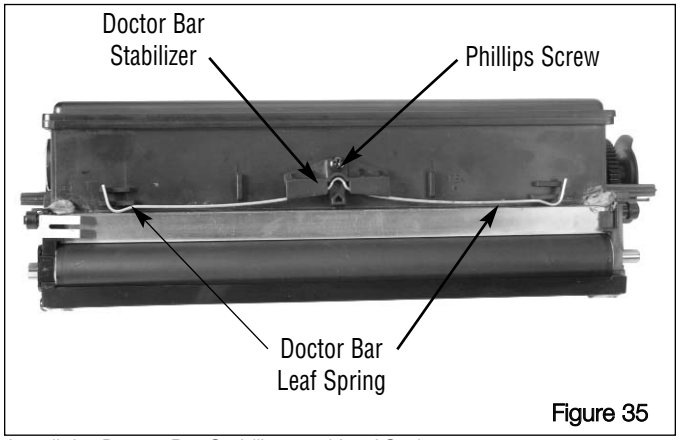
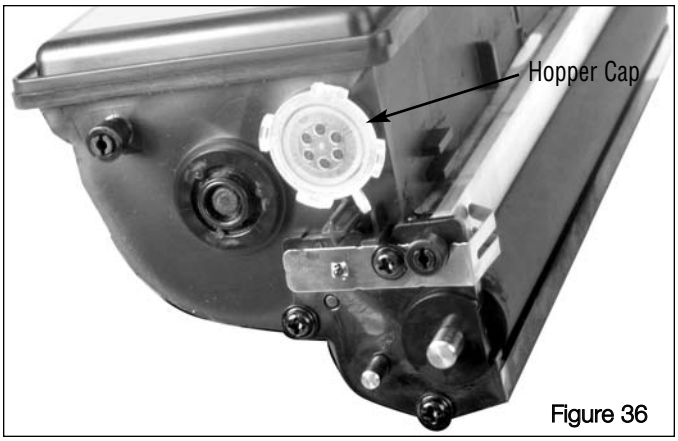


Figure 35

Install the Doctor Bar Stabilizer and Leaf Spring.

6. Fill the Hopper with the correct amount of qualified Toner and Install the Hopper Cap (Figure 36).

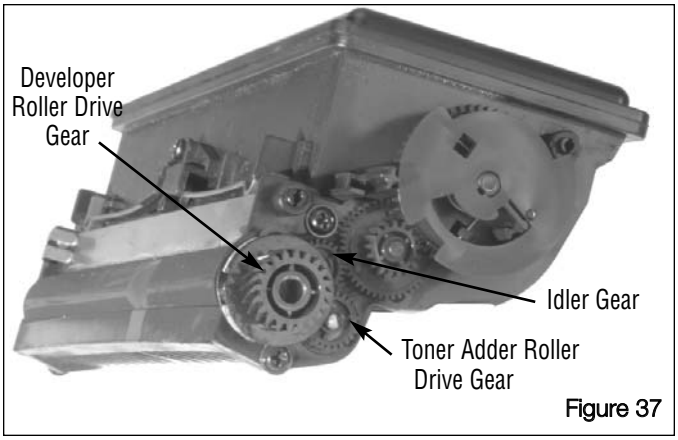


Fill with Toner and install Hopper Cap.

7. Install the Toner Adder Roller Drive Gear, the small black Idler Gear and the Developer Roller Drive Gear on to Hopper section (Figure 37).

Note:

Note the location of each Gear for proper replacement.

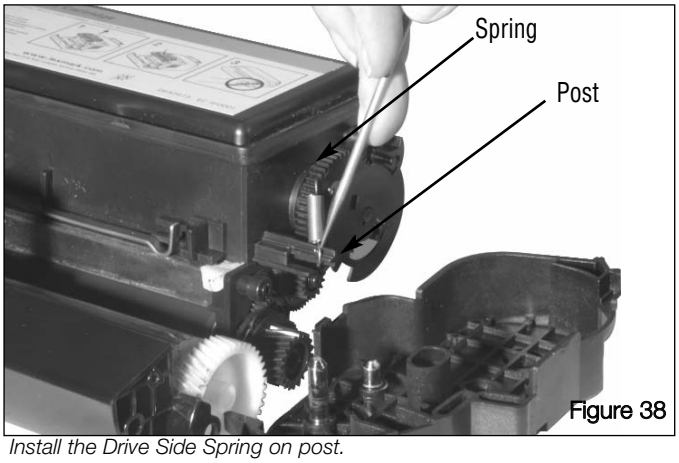


Install the Toner Adder Roller Drive Gear, black Idler Gear and the Developer Roller Drive Gear.

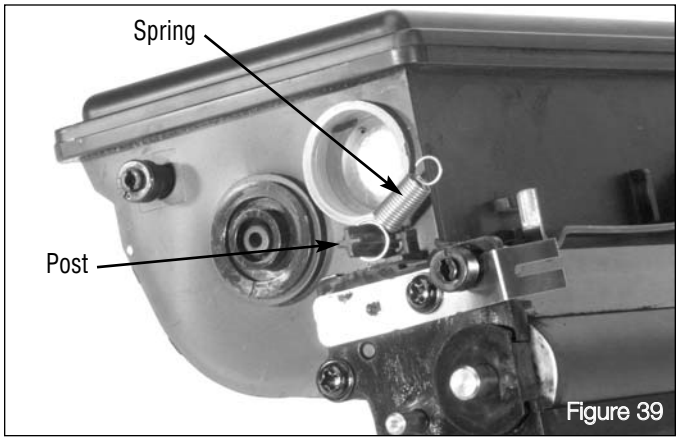
10. Place the Hopper Tension Springs on to the post on each side of the Hopper. See Figure 38 & 39.

Note:

The Contact Side Spring is shorter than the Drive Side Spring. Take care to place them on the correct side of the Cartridge or print defects will occur.



Install the Drive Side Spring on post.



Install the Contact Side Spring on post.

disassembly of the waste bin

This section provides the information needed to disassemble the Waste Bin. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Using a Phillips screwdriver, remove the two screws that secure the Wiper Blade. Carefully lift the Wiper Blade from the Waste Bin Assembly as seen in Figure 40.

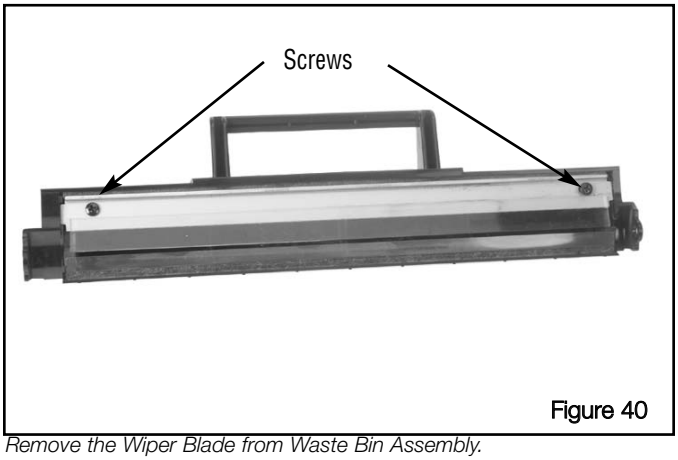


Figure 40

Remove the Wiper Blade from Waste Bin Assembly.

2. Completely remove all waste Toner from the Waste Bin.Using ionized, dry, filtered, compressed air carefully clean the Wiper Blade End Foams, Sealing Foam Recovery Blade and Waste Bin. (Figure 41).

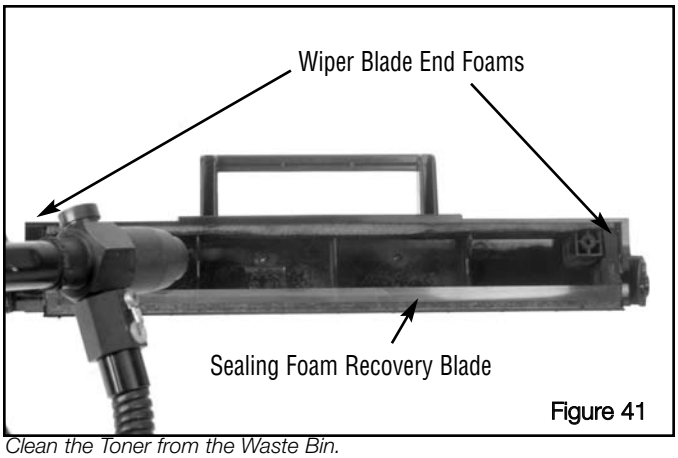


Figure 41

Clean the Toner from the Waste Bin.

3. Inspect the sealing components and replace as required. Foams and Felts should display a smooth, clean surface. The Recovery Blade should exhibit a smooth, flat surface along the entire length of the blade.

Note
Apply a small amount of fresh Toner to the working surface of Wiper Blade for lubrication.

1. Place the Wiper Blade on the Waste Bin assembly and secure with the two screws using a Phillips screwdriver. (Figure 42).

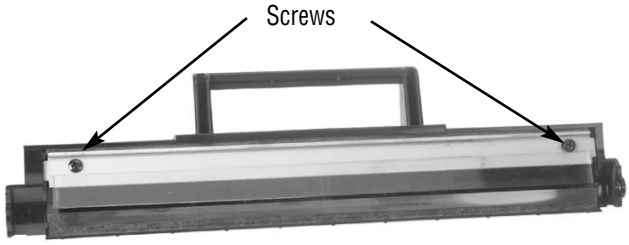


Figure 42

Replace the Wiper Blade on to the Waste Bin.

2. Clean the all contacts with 91%-99% Isopropyl Alcohol and apply a small amount of Conductive Lube (CONCLUBE) (Figure 43).

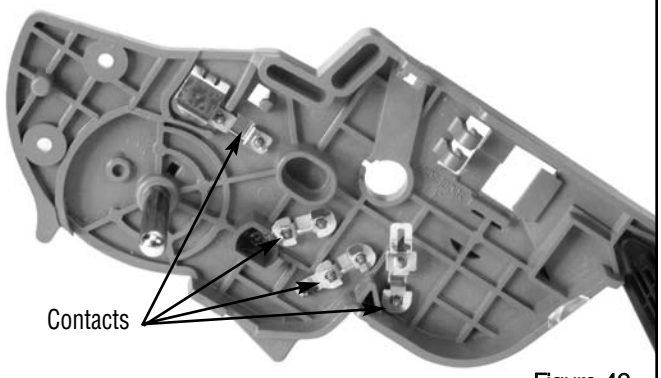
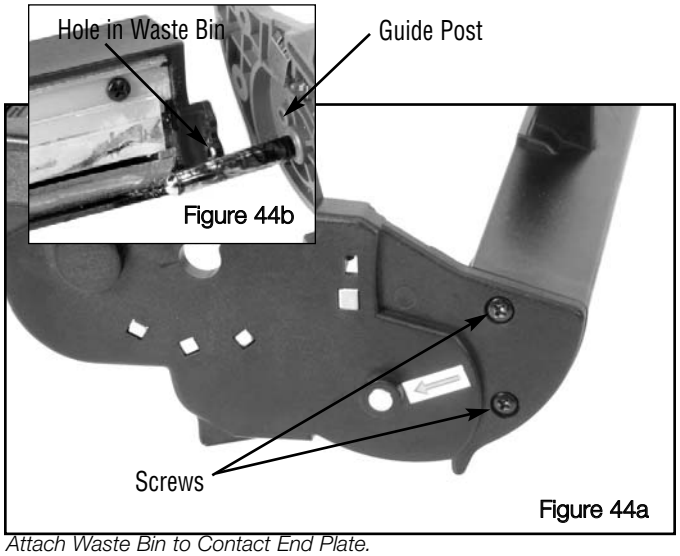


Figure 43

Clean Contacts and apply Lube to each one.

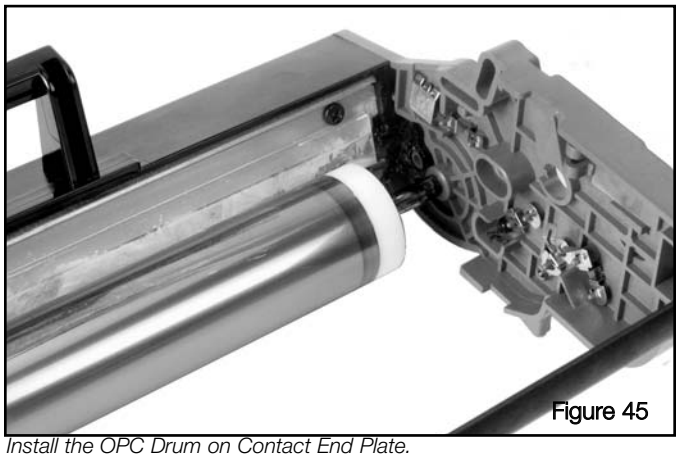
3. Secure the contact side End Plate to the Waste Bin with the 2 Phillips Head Screws (Figure 44a). Align the guide post on End Plate with hole in Waste Bin as seen in Figure 44b.



Attach Waste Bin to Contact End Plate.

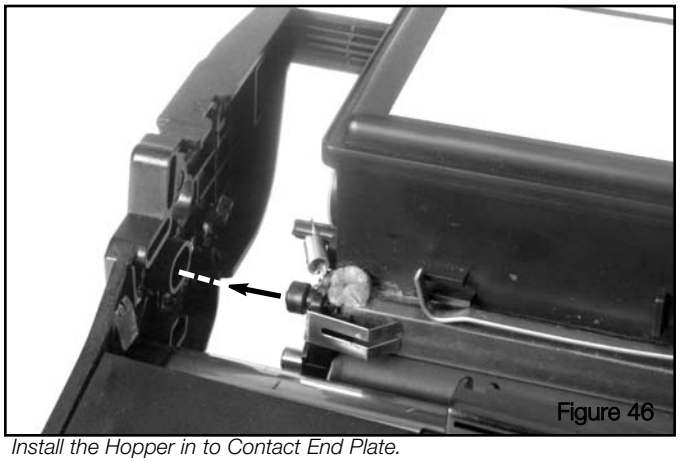
4. Install the OPC Drum on the Drum Axle on the Contact End Plate as seen in Figure 45.

I



Install the OPC Drum on Contact End Plate.

5. Install assembled Hopper on to Contact Side End Plate. Ensure the post on the Hopper seat in to End Plate (Figure 46).



Install the Hopper in to Contact End Plate.

This section provides the information needed to reassembly the Cartridge. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Align the contour of the Drive Side End Plate with the Drum Axle, Drive Gears and Developer Roller Gear Axle (Figure 47).

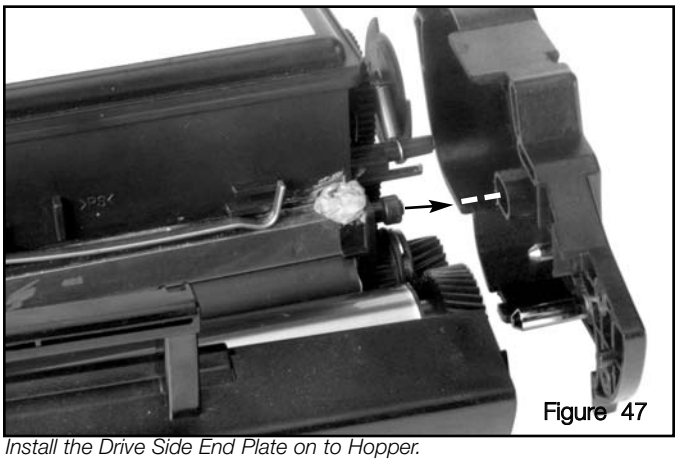


Figure 47

Install the Drive Side End Plate on to Hopper.

2. Secure the Drive Side End Plate to the Waste Bin section with the three Phillips screws. (Figure 48).

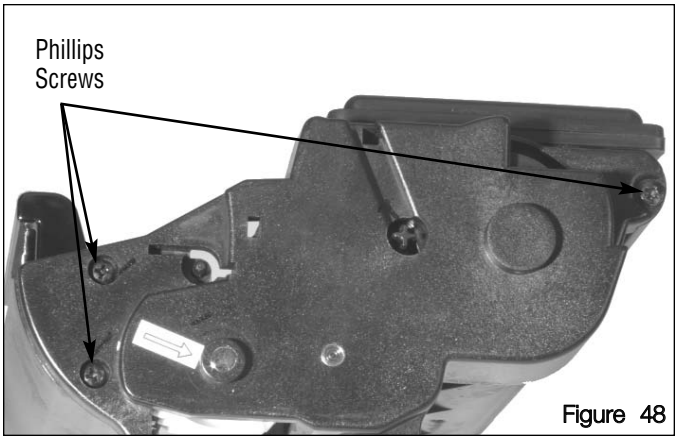
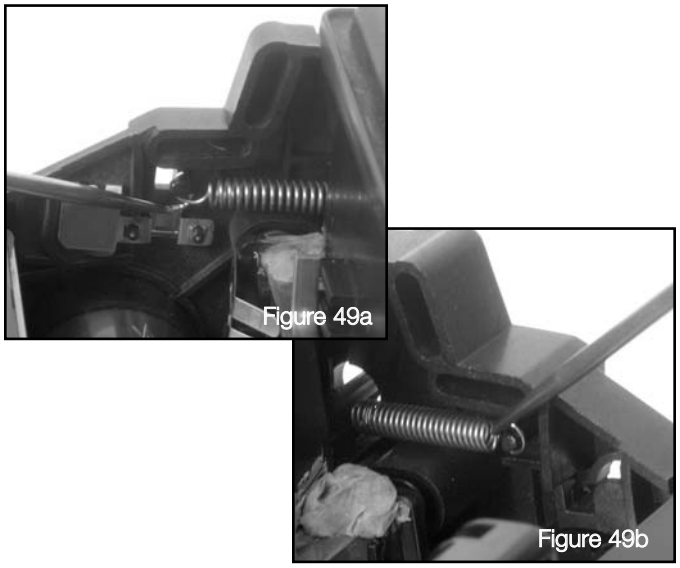


Figure 48

Secure Drive Side End Plate with three Phillips Screws.

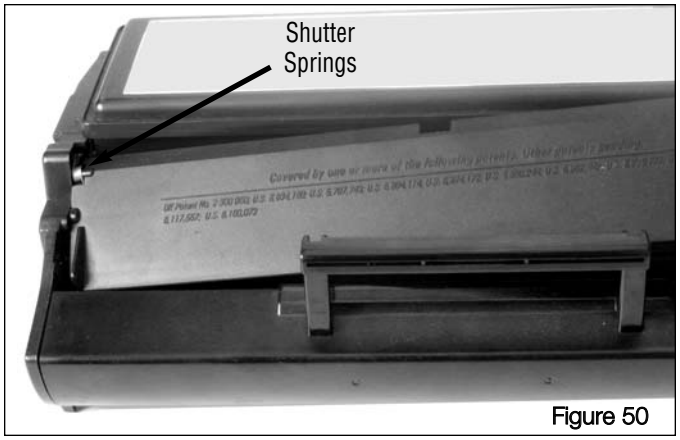
3. Use Hook Tool to attach the Tension Springs to post on each End Plate (one on each end). (Figure 49a & 49b)



Attach Tension Springs to post on End Plate.

4. Install Shutter

a. Contact Side - Bend spring down and under End Plate then place post in to tracts on End Plate (Figure 50).

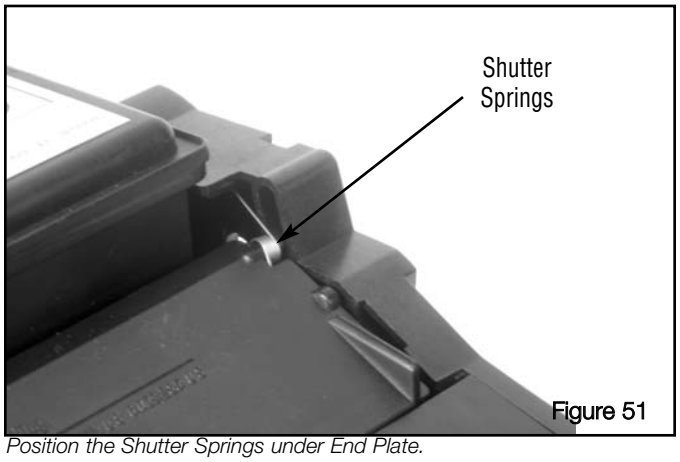


Install Shutter on to Cartridge.

b. Drive Side - Bend spring down and under End Plate then, flex Shutter to position post to track on End Plate as shown in Figure 51.

Note:

Ensure the Shutter Spring are properly seated in to End Plates.



Position the Shutter Springs under End Plate.

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