



Lexmark® T420/T430

**Lexmark® T420**

In January 23, 2003 Lexmark® announced the release of their T420d and T420dn monochrome laser printers for small and medium-sized businesses. At 22 pages per minute, only 10 seconds to first print, a duty cycle of 50,000 pages per month and standard automatic duplexing, the T420 packed a lot of features for a laser printer under \$650 (street price at time of release).

The T420 cartridge is a "clamshell" design, but with a more square shape and a bit smaller than the cylindrical Se, T, T520/522 & T620/622 new style cartridges. A direct contact chip (visually similar to E320) is located on the waste bin section and is held in place with one screw, and a unique encoder wheel includes the familiar "Pac-man" gear. A plastic shipping lock (similar to that on the E320) has a wrap-around foam to protect the drum.

Toner sensing is accomplished through the encoder wheel and chip working together. Testing has determined that wheel and chip are a matched set.

At present Static Control's Imaging Labs have seen two versions of the cartridge. All differences are internal and subtle:

- Version 2 doctor bar end gills are blue, previously white.
- There is no lip, or "step" along the edge of the hopper where the bottom edge of the developer roller sealing blade is located.
- The old style hopper body has a lip approximately 1/8" wide.
- There are two versions of wiper blades. Version 2 wiper blade has a PCR cleaning felt attached (like other Lexmark models). The first version did not initially have it.
- The developer roller sealing blade is now one continuous piece with adhesive on the blade instead of a blade with separate end tabs and secondary adhesive tabs found in version 1.
- The doctor bar in version 2 has a clear vertical strip (shim) on each end between the doctor bar and its retaining tabs which is not present on version 1. These shims tighten fit the Doctor Bar in the cartridge.
- There does not appear to be any difference in the angle of the doctor bar.

The Dell® equivalent is the S2500, utilizing the same cartridge, differentiated only by Dell's unique chip. The IBM equivalent is the InfoPrint 1222.

**Important: ONLY for use on:**

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

**CARTRIDGE REMANUFACTURING INSTRUCTIONS FOR:**

**LEXMARK® T420/T430;  
DELL® S2500; IBM®  
INFOPRINT® 1222**

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## Lexmark® T430

Initial Report from Static's Laboratories In late October 2004, Lexmark® announced the release of its newest family of monochrome laser printers, the T430, T430d, T430dn, and T430dtn. These printers offer 32 MB internal RAM that can be upgraded to a total capacity of 288 MB RAM, and provide standard image quality of 2400 (1200x1200 dpi). Targeted towards small workgroups, these printers start at a suggested retail of \$549. All models offer 32 ppm, only 8 seconds to first page out, and a monthly duty cycle of up to 65,000 pages.

The different models are distinguished by connectivity variations with the base models featuring parallel and USB connections, the dn model adding ethernet, and the dtn adding ethernet and wireless connections (available only in Canada). This series features a conveniently small footprint and short stature, making it an easy selection for small and home offices.

Consumables Lexmark is offering several cartridge options with the T430 series. These include standard yield (6k) and high yield (12k) cartridges, and "use and return" standard and high yield print cartridges. The T430 cartridges are not compatible with the Lexmark T420 family (whether remanufactured or OEM) due to physical differences in the outer casing. These cartridges reflect a 17% increase in page yield over the T420 models for both standard and high yield options.

Testing is underway to determine the Lexmark T430 series component crosscompatibility with the IBM® 1422, as well as other OEM models. Detailed reports will be available as soon as testing is complete.

## Purpose of this SSS

The purpose of this SSS is to provide you a guide and the basic information needed to remanufacture a Lexmark® T420/T430. 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. 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.

## 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

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### **For Basic Remanufacturing:**

- Phillips Screwdriver
- Standard Flat-Blade Screwdriver
- Small-Tipped Flat-Blade Screwdriver
- Needle nose Pliers
- Funnel for Toner Bottle
- Compressed Air for Cleaning
- 91%-99% Isopropyl Alcohol
- Lint-Free Foam Tip Swab (LFSWAB)
- Lint-Free Cleaning Cloth (LFCLOTH)
- Cotton Swab (QTIP)
- Conductive Cartridge Lubricant (CONCLUBE)
- Kynar® Lubricating Powder (KPOW)

## **Use of Compressed Air**

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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.

## Cartridge Specifications

The following table is summary of the Lexmark® T420/430 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.

<b>Printer Information</b>	Lexmark Mono T420d with auto duplex
Duplex	Auto Standard
Processor	200 MHz
First page	10 seconds
Memory	16MB/ 272 MB
Paper Input Tray	100 sheet mp feeder, 250 sheet tray
<b>Engine Information</b>	
Print Resolution (dpi)	600 x 600 (1200 IQ)
Print Speed (pages per minute)	22
Duty Cycle (pages per month)	50,000

### Engine Information

Engine Name	Lexmark® T430	Lexmark® T430d	Lexmark® T430dn	Lexmark® T430dtn
Date of Printer Intro	October 2004	October 2004	October 2004	October 2004
Print Speed (per min)	32	32	32	32
Duty Cycle (per month)	65,000	65,000	65,000	65,000

### Cartridge Information

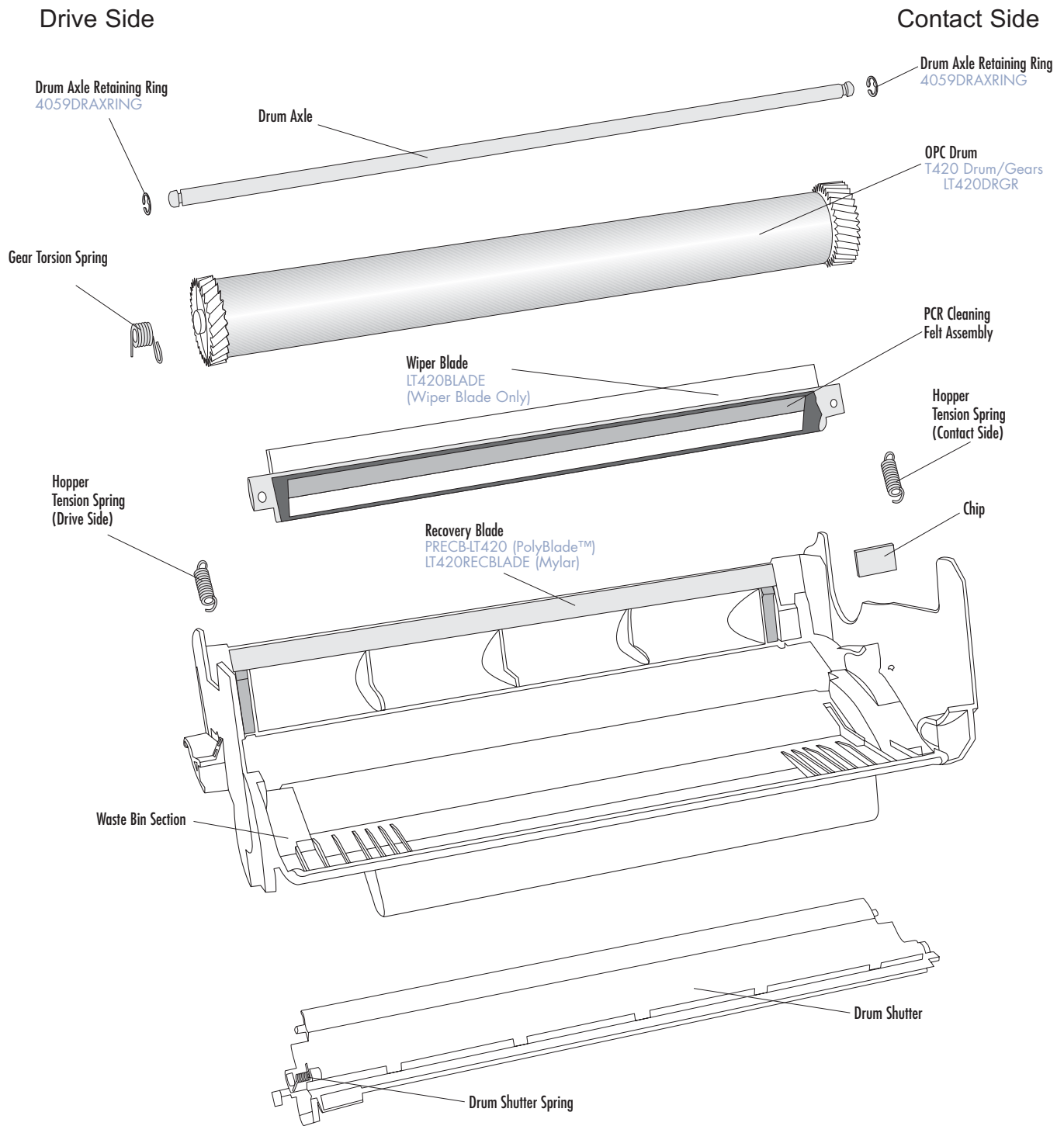
Cartridge Type	Std. Non-Return	Std. Return (Non-prebate)	High Yield Non-Return (Prebate)	High Yield Return (Non-prebate)	Maintenance Kit (Prebate)
Part # (OEM)	12A8320	12A8420	12A8325	12A8425	12A8302
OEM Rated Page Yield	6,000	6,000	12,000	12,000	200,000
OEM MSRP*	\$162	\$131	\$237	\$206	\$427

\*Prices as of November 2004

## Cartridge Information Table

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<b>Cartridge Information</b>	<b>Black</b>	<b>High Yield</b>
Cartridge Part # (OEM)	12A7310	12A7315
OEM Rated Page Yield	5,000	10,000
Lexmark MSRP*	\$128.00	\$222.00
OEM Street Price* ( )	\$549.00	N/A
OEM Wholesale*	N/A	\$196.00
<b>*Prices as of March 2004</b>		

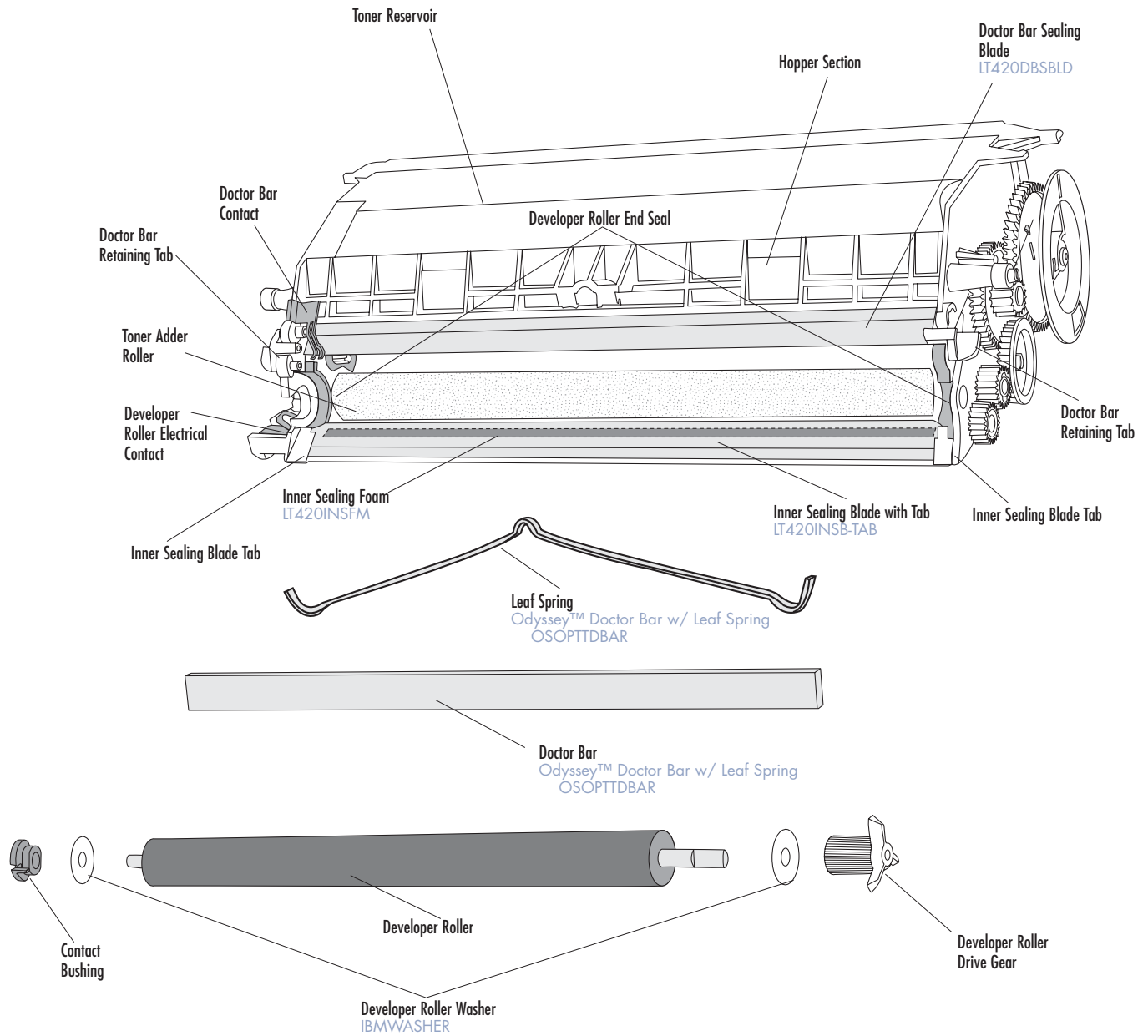


## Waste Bin Assembly

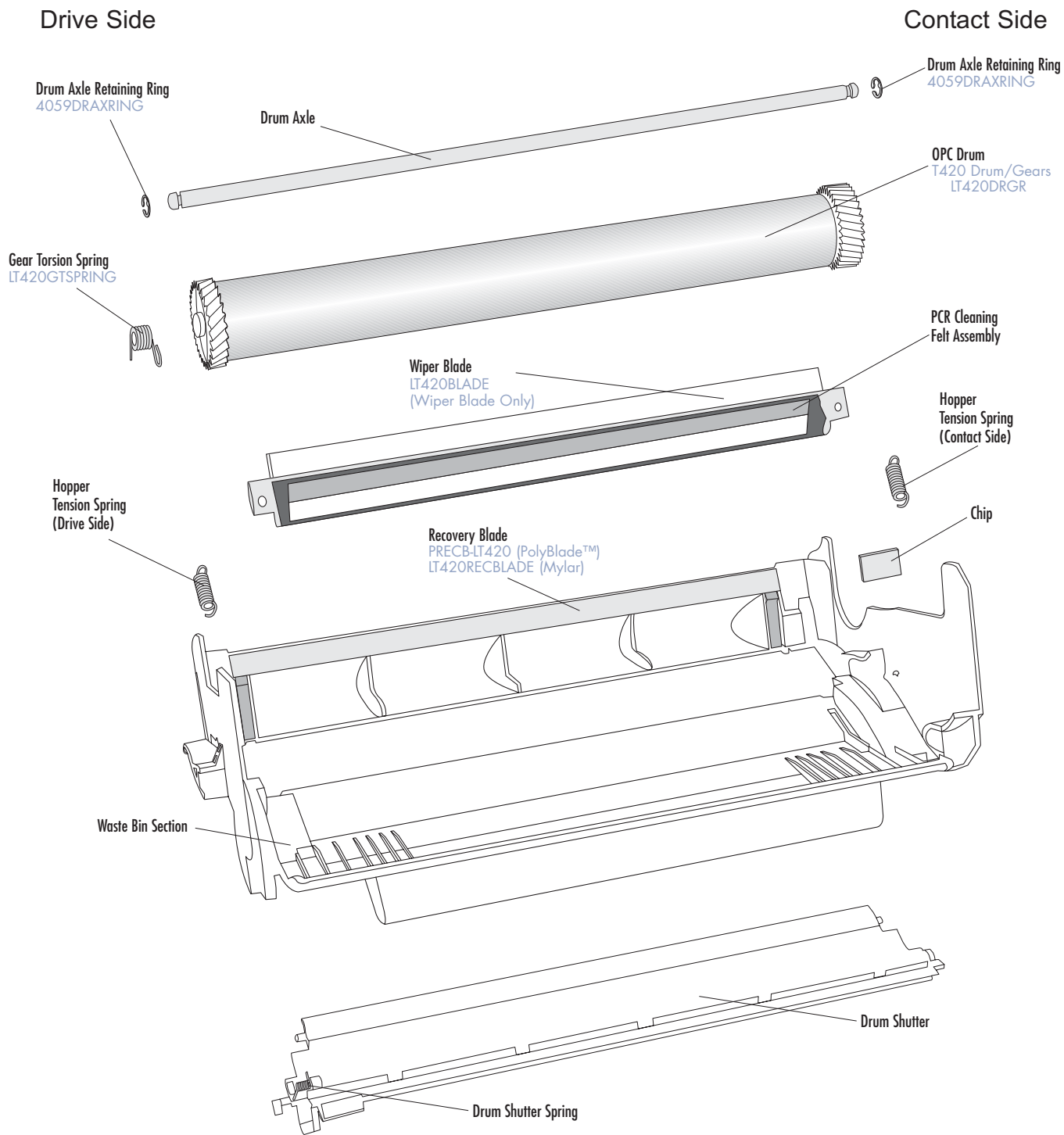
product wirelines

Contact Side

Drive Side



# Toner Hopper Assembly



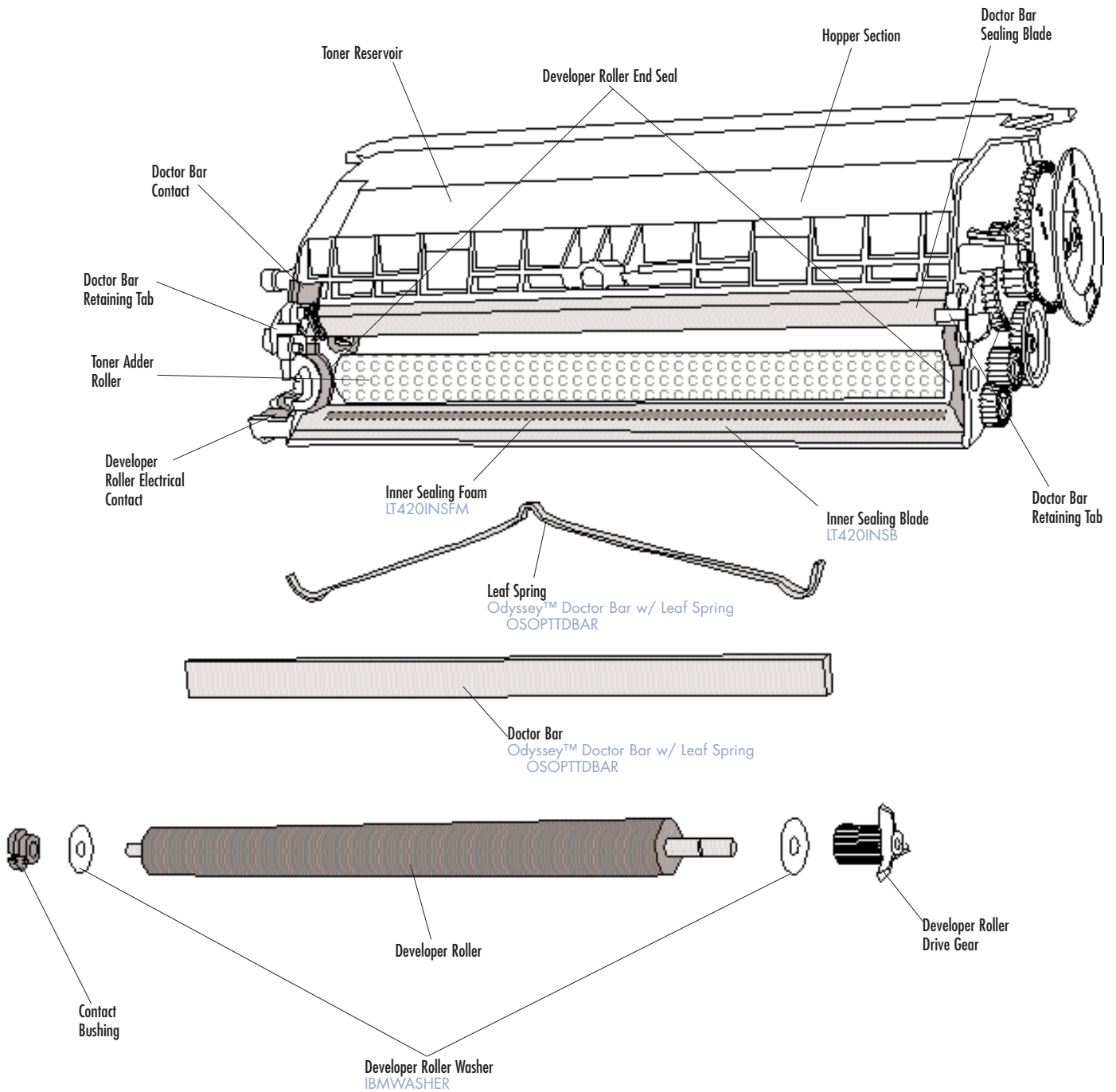
**Waste Bin Assembly**

product wirelines



Contact Side

Drive Side



# Toner Hopper Assembly



# Separating the two sections

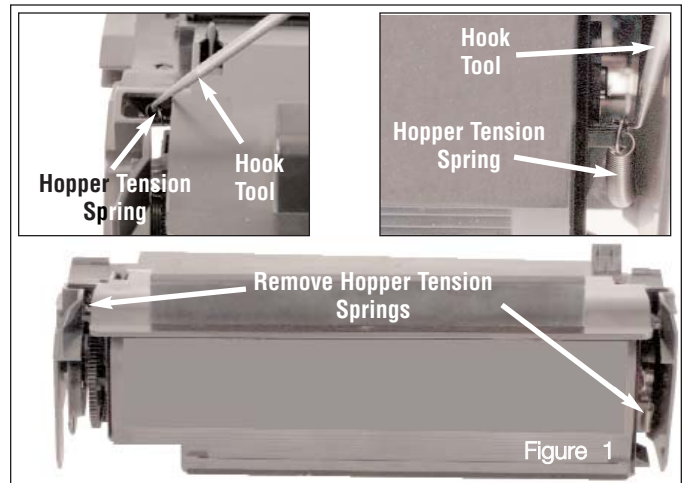
REMANUFACTURING THE LEXMARK® T420/T430

This section provides the information needed to separate the Toner Hopper and Waste Bin sections from each other. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Using a Hook Tool (HTOOL) unhook the Hopper Tension Springs from both sides of the cartridge. See Figure 1.

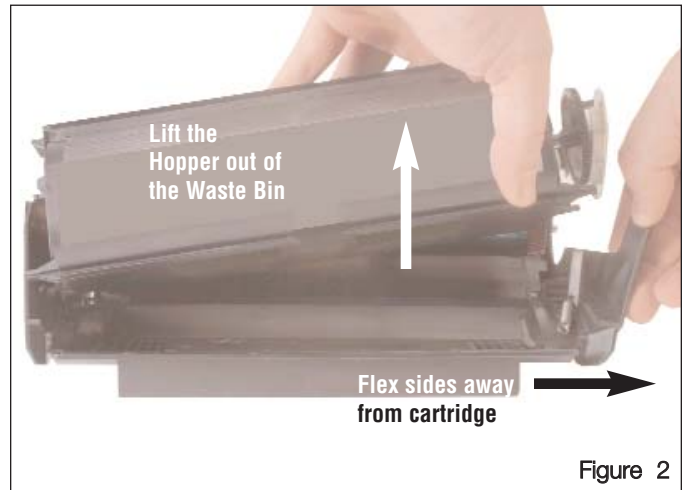


**Note:** Be sure not to lose the Hopper Tension Springs, they will be needed for reassembly.



Unhook the Hopper Tension Springs using a hook tool.

2. Separate the two sections.
  - a. Flex the sides out to remove the posts on the Hopper section from the slot in the Waste Bin section. See Figure 2.



Flex the sides of the Waste Bin to separate the Hopper Section.

3. Separate the Hopper section from the inside of the Waste Bin; then, continue on page 2 with the disassembly of the Waste Bin section.



# Disassembling the Waste Bin Section

REMANUFACTURING THE LEXMARK® T420/T430

This section provides the information needed to disassemble the Waste Bin Section of the cartridge. At this point you should have separated the Toner Hopper Sections from the Waste Bin, as described earlier in this SSS™. For information on separating the two sections see “Separating the Toner Hopper and Waste Bin” on page 1. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Remove the Drum.

- a. Using a small flathead screwdriver remove the Drum Axle Retaining Ring from the large gear side of the Drum. See Figure 3.

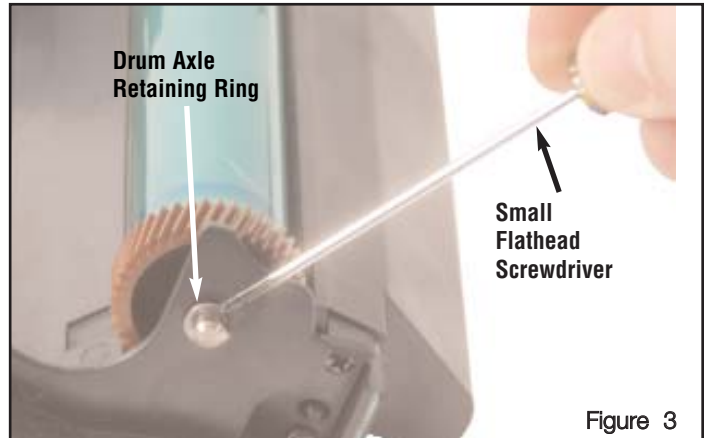


Figure 3

- b. Slide out the Drum Axle from the small gear side of the drum, as shown in Figure 4.

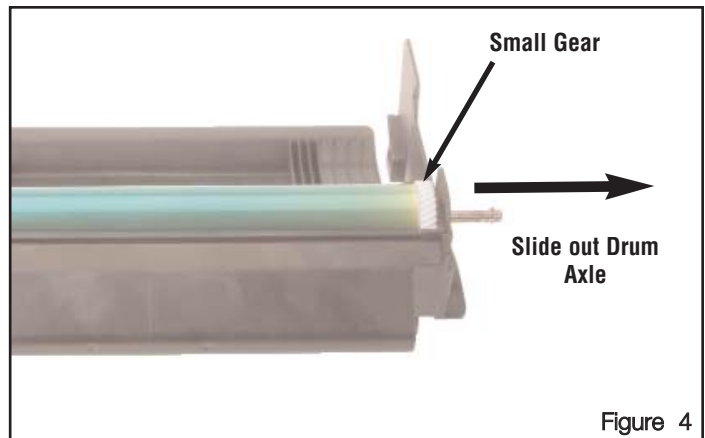


Figure 4

- c. Remove the Drum from the Waste Bin, being sure to lift the Drum by the gears.

- d. Remove the Gear Torsion Spring from the small gear side of the Drum. Twist the Gear Torsion Spring clockwise to remove from the Drum. See Figure 5.

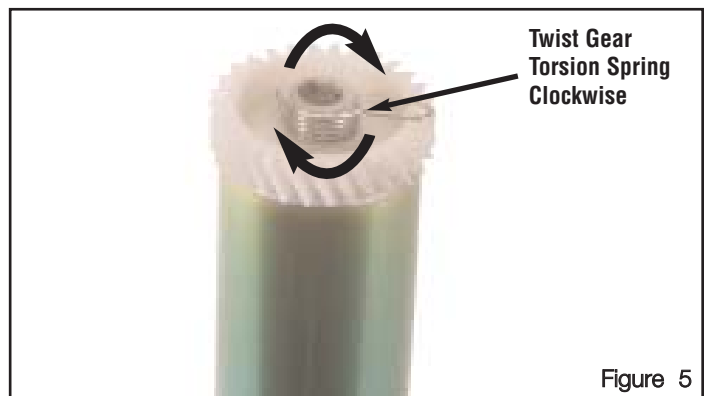


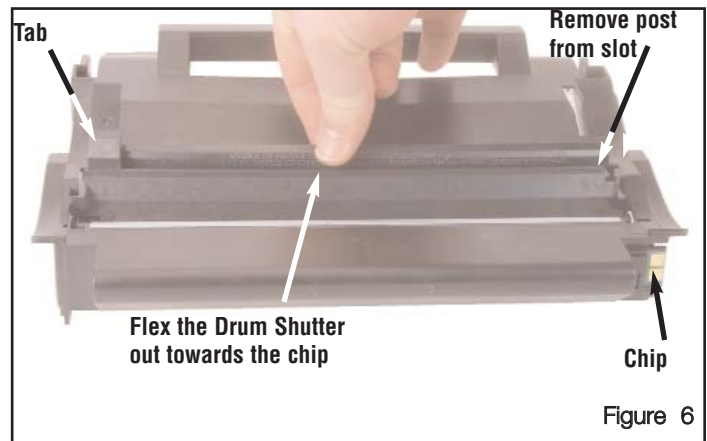
Figure 5

Remove the Gear Torsion Spring from the Drum by twisting clockwise.

## Disassembling the Waste Bin

### 2. Remove the Drum Shutter.

- a. Open the Shutter by the tab; then, flex the center of the shutter towards the chip to remove the chip side from the slot in the Waste Bin, as shown in Figure 6.



Open Drum Shutter by the tab, flex the center to remove the non-tab side.

- b. Allow the removed side of the Drum Shutter to fall through the Waste Bin; then, from the other side of the Waste Bin rotate the Drum Shutter until the Drum Shutter tab releases from the Waste Bin. See Figure 7.



Allow removed side to fall through the opening. Then from other side rotate the Shutter until it releases from the Waste Bin.

### 3. Remove the Wiper Blade.

- a. Using a Phillips Screwdriver, remove the two screws that secure the Wiper Blade to the Waste Bin, as shown in Figure 8.



Use a Phillips Screwdriver remove the two screws from the Wiper Blade.

## Disassembling the Waste Bin

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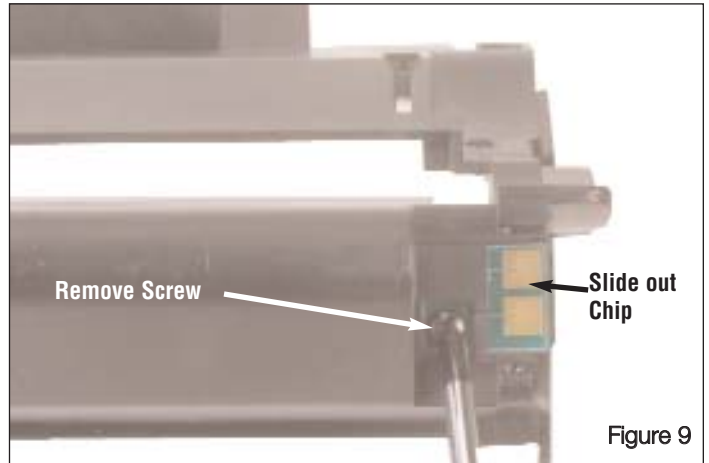
4. Inspect the Recovery Blade and Wiper Blade End Foams, for tears, splits, or cracks. Replace if necessary.



**Note:** For complete replacement instructions for the Wiper Blade End Foams refer to SSS™ 618.



**Important:** 1) For use on non-Prebate (Regular) cartridges (any brand).  
2) For use on IBM Return Program (Prebate) cartridges.



*Using Phillips screwdriver remove the screw that secures the chip to the Waste Bin.*

5. Remove the used Chip.
  - a. Using a Phillips Screwdriver, remove the screw that secures the chip to the Waste Bin. See Figure 9.
  - b. Slide the Chip out of the Waste Bin.



# Disassembling the Toner Hopper Section

REMANUFACTURING THE LEXMARK® T420/T430

This section provides the information needed to disassemble the Toner Hopper Section of the cartridge. At this point you should have separated the Toner Hopper Section from the Waste Bin, as described earlier in this SSS™. For information on separating the two sections see "Separating the Toner Hopper and Waste Bin" on page 1. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Remove the Doctor Bar Leaf Spring using needlenose pliers or your hands. See Figure 10.



**Note:** Be careful not to let the spring legs come in to contact with the Developer Roller

2. Using care not to damage, slide the Doctor Bar Retaining Tabs off each end of the Hopper. Set aside until the reassembly process. See Figure 11.



**Note:** The 2 Doctor Bar Retaining Tabs are not alike and are made so that they can not accidentally be installed in the wrong location. See the following Figure.

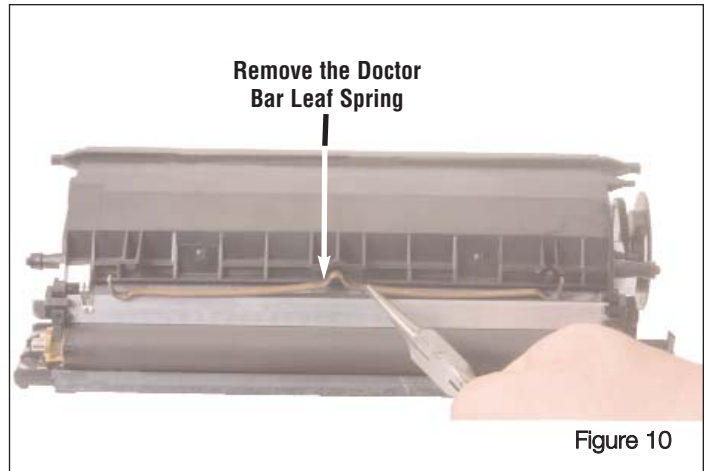


Figure 10

*Remove the Doctor Bar Leaf Spring, using needlenose pliers or your hands.*

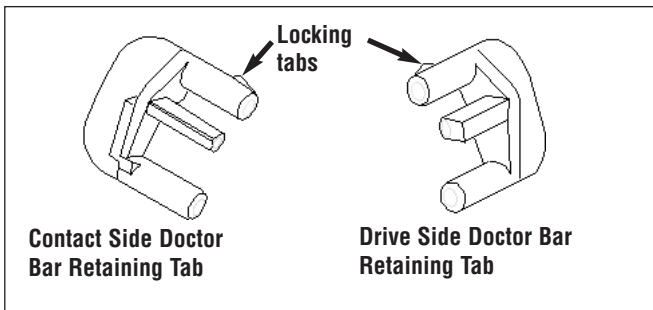



Figure 11

*Slide the Doctor Bar Retaining Tabs back until they clear the ends of the Doctor Bar. They can remain in the cartridge.*

## Disassembling the Toner Hopper section

3. Remove the Doctor Bar from the Toner Hopper.
  - a. Clean off Doctor Bar with dry, filtered compressed air, if it is a one cycle Doctor Bar it can be rotated for an additional cycle.

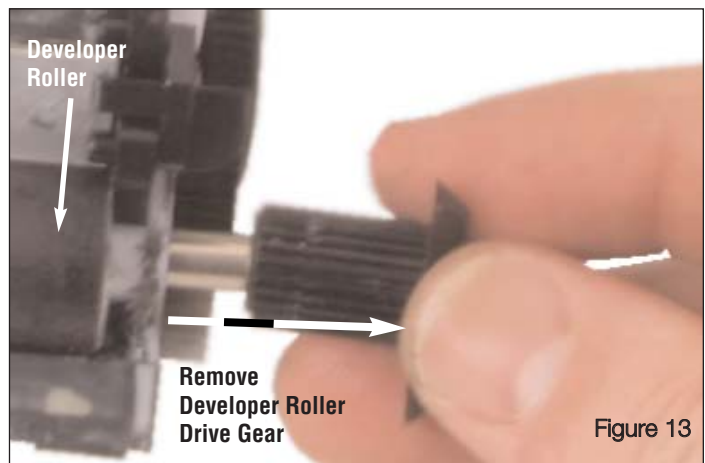
 **Note:** Be careful not to touch the working surface if you plan to reuse the Doctor Bar.

4. Remove the Developer Roller.
  - a. Rotate contact bushing on the contact side of the Developer Roller, using a flathead screwdriver; then, remove bushing from the Developer Roller. See Figure 12.



Remove the Contact Bushing from the Developer Roller, using a flathead screwdriver rotate up. Then slide contact Bushing off the end of the Developer Roller.

- b. Remove the Developer Roller Drive Gear. See Figure 13.




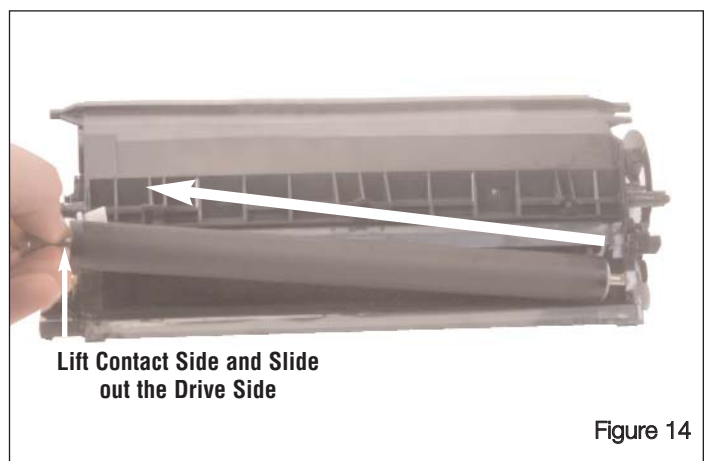
Remove the Developer Drive Gear, then lift the contact side and slide out the drive side.

- c. Remove the Developer Roller by lifting the contact side of the Developer Roller and sliding the drive side out of the hopper section, as shown in Figure 14. The Developer Roller Washers should also be removed at this time.

- d. Clean the Developer Roller with dry, filtered compressed air.

5. Dump any remaining toner from the hopper section. Blow out the hopper section with dry, filtered compressed air.

 **Note:** Turn the gears to rotate the Toner Adder Roller, to ensure that all of the toner is removed from the hopper section.



Remove the Developer Roller, by lifting the the contact side and sliding the drive side out.

## Disassembling the Toner Hopper section

6. Inspect the Doctor Bar Sealing Blade for tears, breaks, kinks or other damage. If the Doctor Bar Sealing Blade needs to be replaced, refer to SSS™ 672.
7. Inspect the Developer Roller Sealing Blade. There are 3 versions of sealing blades on the T420. The T430 has only been seen as version 3.

The first version has an Inner Sealing Blade with tabs. See Figure 15.

The second version has an Inner Sealing Blade without tabs and an Outer Sealing Blade. See Figure 15a.

The latest third version had a single Inner Sealing Blade with no tabs and no Outer Sealing Blade. See Figure 15b.

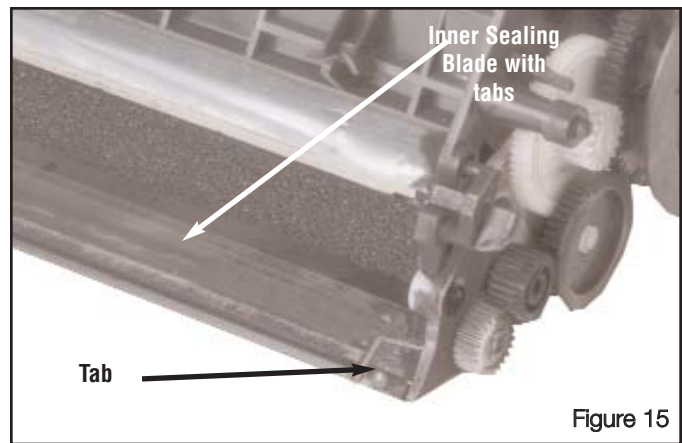
There is a step in the old style cartridges for the Outer Sealing Blade. New style cartridges only have one flat Inner Sealing Blade. See Figure 15a.

8. If an Outer Sealing Blade is present in your cartridge, inspect the Outer Sealing Blade for tears, splits, or damage. Also check the inner Sealing Blade at this time. Refer to SSS™ 616 for complete replacement instructions.

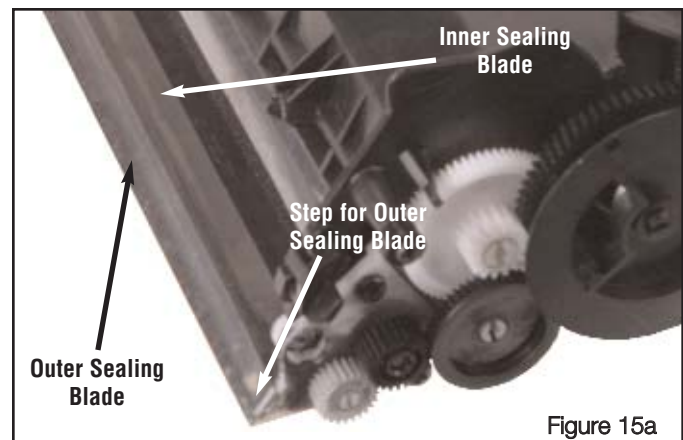


### Note

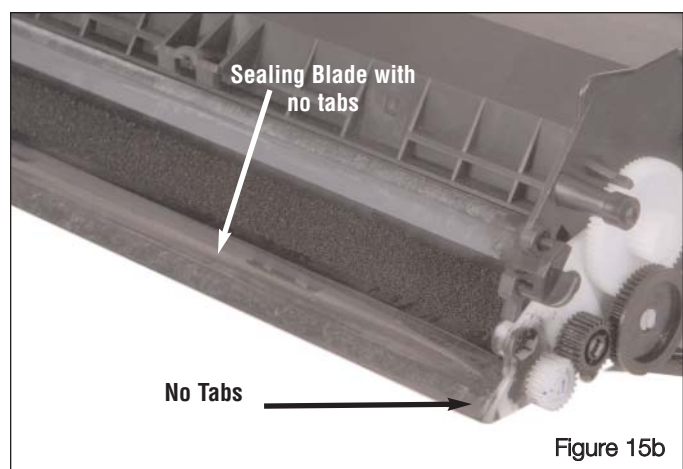
If you need to change the Inner Sealing Blade, the Outer Sealing Blade must be removed. If it is removed, it will not be replaced.



Version 1 style Hopper with Inner Sealing Blade with tabs.



Version 2 style Hopper with Inner Sealing Blade and Outer Sealing Blade.



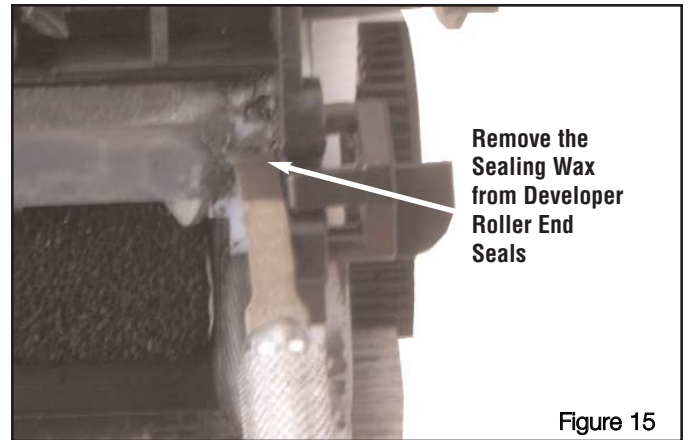
Version 3 style Hopper with single Inner Sealing Blade with no tabs and no Outer Sealing Blade.



## Disassembling the Toner Hopper section

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9. Clean the Sealing Wax from the top of the Developer Roller End Seals. With the Sealing Blade removed clean the Sealing Wax from the bottom of the Developer Roller End Seals. See Figure 15.



*Clean the Sealing Wax from the top and bottom of the Developer Roller End Seals.*

# Reassembling the Waste Bin Section

REMANUFACTURING THE LEXMARK® T420/T430

This section provides the information needed to assemble the Waste Bin Section of the cartridge. At this point you should have disassembled and cleaned the entire cartridge as described in this SSS™. If you have not disassembled and cleaned the cartridge see page 1 for instructions. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Install the new Wiper Blade.
  - a. Lube the new Wiper Blade with toner or kynar powder, in order to prevent blade flips.
  - b. Install the Wiper Blade by securing the two Phillips screws as shown in Figure 16.



Figure 16

Install the new Wiper Blade. Using Phillips Screwdriver secure the two screws in the Wiper Blade.

2. Install the Gear Torsion Spring to the new Drum, on the small gear side making sure that the loops are to the outside of the Drum. Twist the Gear Torsion Spring clockwise to secure to the Drum. See Figure 17.
3. Install the Drum Shutter.
  - a. The side with the tab will go on the non-chip side of the Waste Bin. Rotate the knob into the slot on the Waste Bin. See Figure 18.

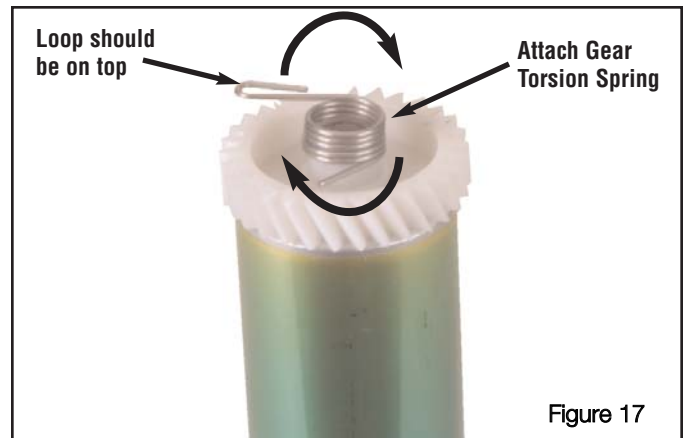


Figure 17

Twist Gear Torsion Spring on the small gear side of the Drum.

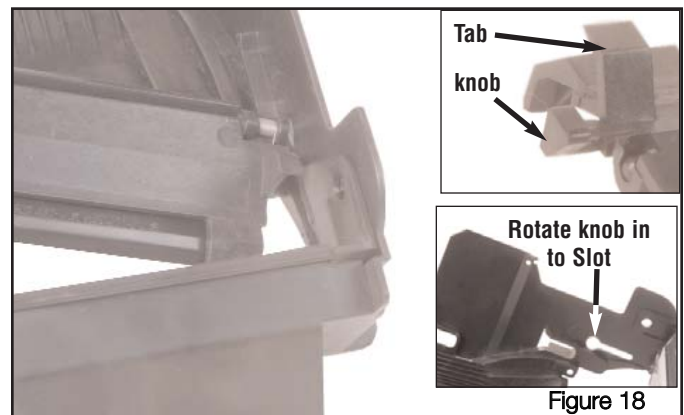
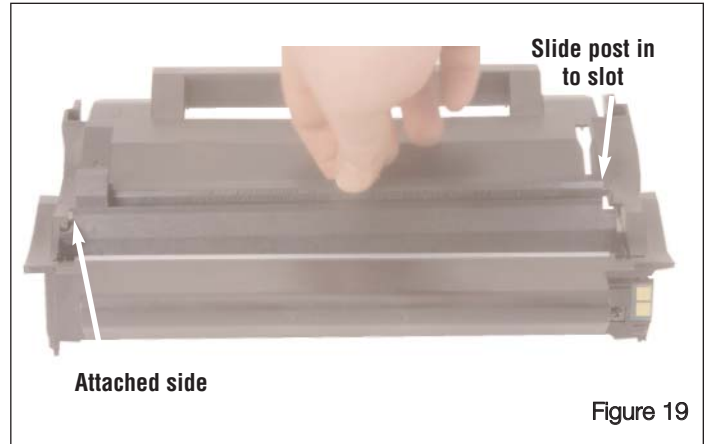


Figure 18

Rotate the knob on the tab side of the Drum Shutter in to the slot in the left side of the Waste Bin.

- b. With the non-chip side post in the provided slot flex the middle of the Drum Shutter, to slide the right post in to place. See Figure 19.



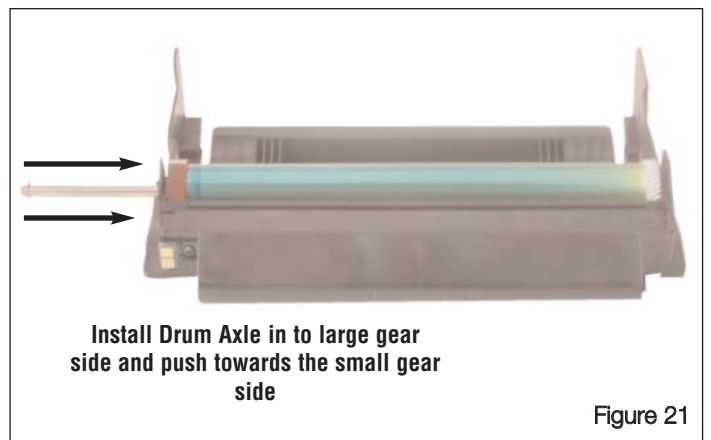
*With the left side attached flex the middle of the Drum Shutter, and slide the right post in to place.*

4. Install the new Drum.
  - a. Position the Drum so that the Large gear of the Drum is on the chip side of the Waste Bin. See Figure 20.
  - b. Apply contact lube to the shaft of the Drum Axle. Where it was previously applied.



*Position the Drum so that the Large Gear is on the Chip side of the Waste Bin.*

- c. Slide the Drum Axle through the Drum starting from the large gear side and pushing towards the small gear side, as shown in Figure 21.



*Slide Drum Axle through the Drum starting from the Large Gear side, and pushing towards the small gear.*

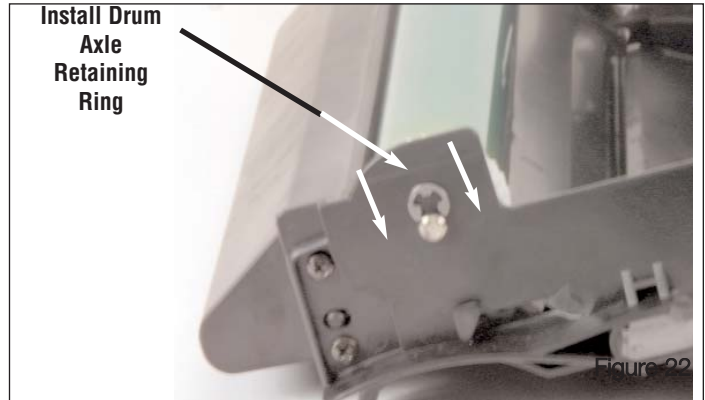
## Reassembling the Waste Bin Section

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- d. Reattach the Drum Axle Retaining Ring to the small Gear side of the Drum Axle. See Figure 22.

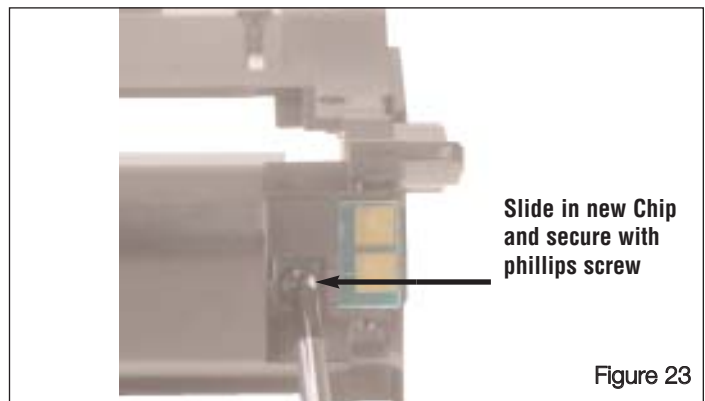
**Important: ONLY for use on:**

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



Attach the Drum Axle Retaining Ring to the small gear side of the Drum Axle.

5. Install the new Chip.
  - a. Slide the new chip in to the chip slot and secure with Phillips screw. See Figure 23.



Slide a new chip in to the slot on the Waste Bin. Secure with the Phillips Screw.



# Reassembling the Toner Hopper

REMANUFACTURING THE LEXMARK® T420/T430

This section provides the information needed to assemble the Toner Hopper of the cartridge. At this point you should have disassembled and cleaned the entire cartridge as described in this SSS™. If you have not disassembled and cleaned the cartridge see page 1 for instructions. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Using the back of a Curved Scraper Tool (CSBT00L) apply Cartridge Sealant (CSEALANT) to the ends of the Doctor Bar Sealing Blade and along the Developer Roller End Seals. See Figure 24.



**Note:** When applying to the Developer Roller End Seals use sparingly. Cartridge Sealant should not come in to contact with the Developer Roller.

2. Install the Developer Roller.
  - a. Attach the Developer Roller Washers to each end of the Developer Roller.

- b. Attach the Developer Roller Contact Bushing to the non-indexed end of the Developer Roller. See Figure 25.

- c. Slide the indexed end of the Developer Roller in to the Drive Side of the Toner Hopper. See Figure 26.

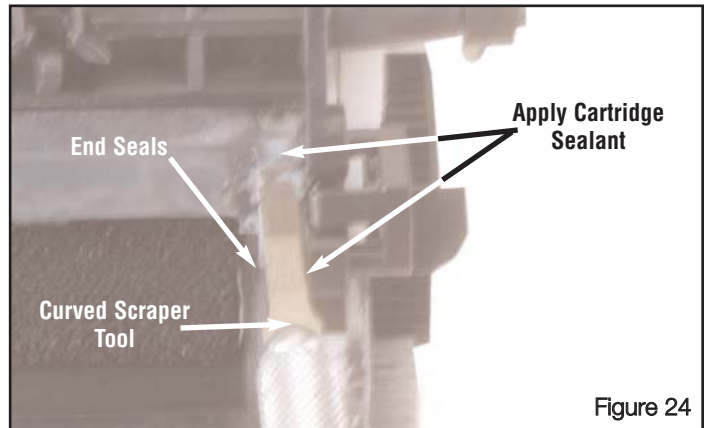


Figure 24

Using the back of a Curved Scraper Tool apply a generous amount of Sealing Wax to the top and bottom of the Developer Roller End Seals.

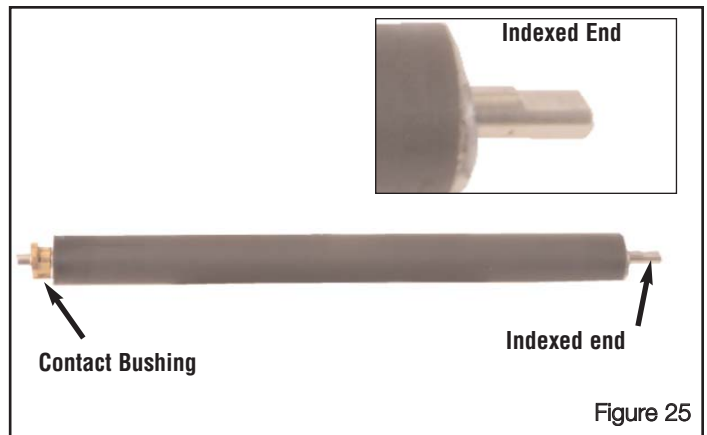


Figure 25

Attach the Contact Bushing to the non-indexed end of the Developer Roller.

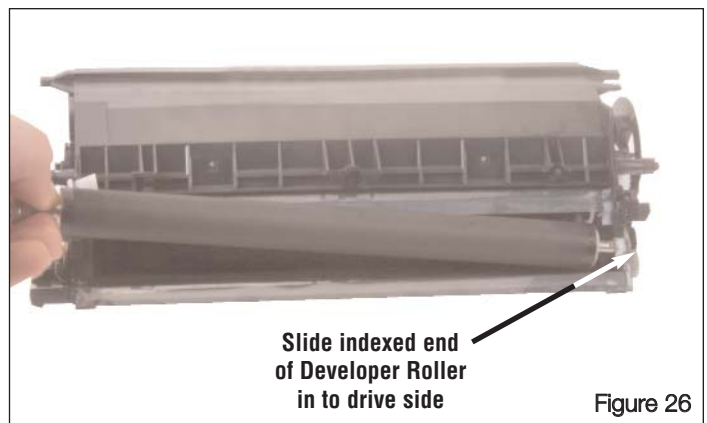
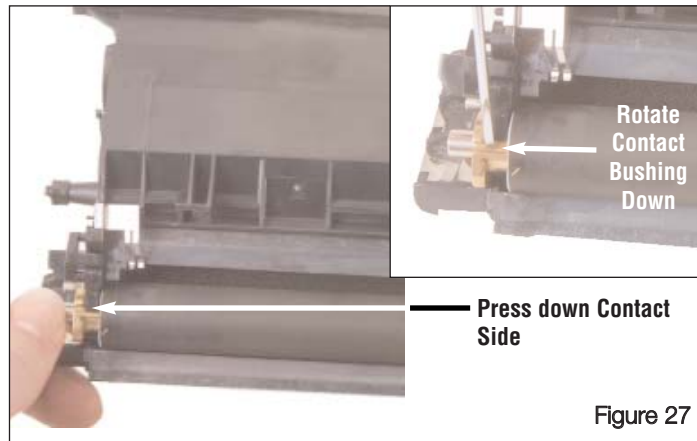


Figure 26

Slide indexed end of the Developer Roller in to the drive side of the Toner Hopper.

# Reassembling the Toner Hopper Section

- d. Press the Contact Side of the Developer Roller down, and rotate the Contact Bushing down to secure the Developer Roller to the Toner Hopper. See Figure 27.



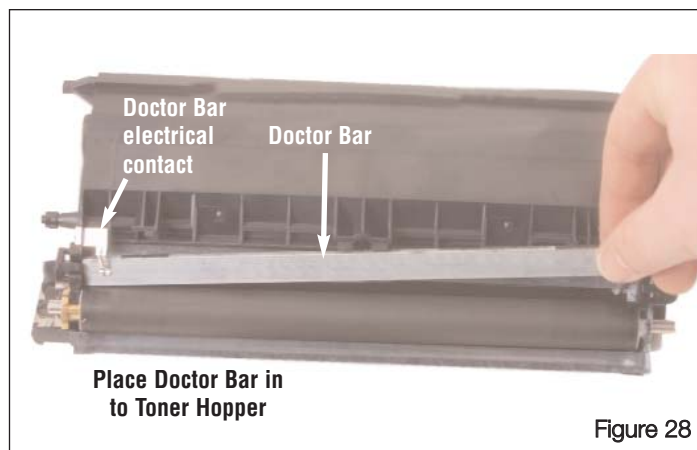
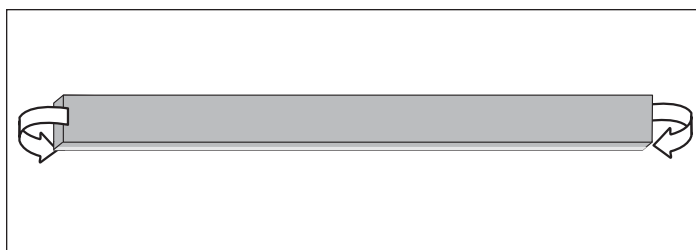
Press the contact end of the Developer Roller in to the Toner Hopper and rotate the contact bushing to secure in to place.

- 3. Install the Doctor Bar.

- a. Place the Doctor Bar in the Toner Hopper as shown in Figure 28. Be sure not to damage the Doctor Bar electrical contact during installation.



**Note:** The Doctor Bar can be run through two cycles before it needs to be changed. See Figure below for turning instructions.

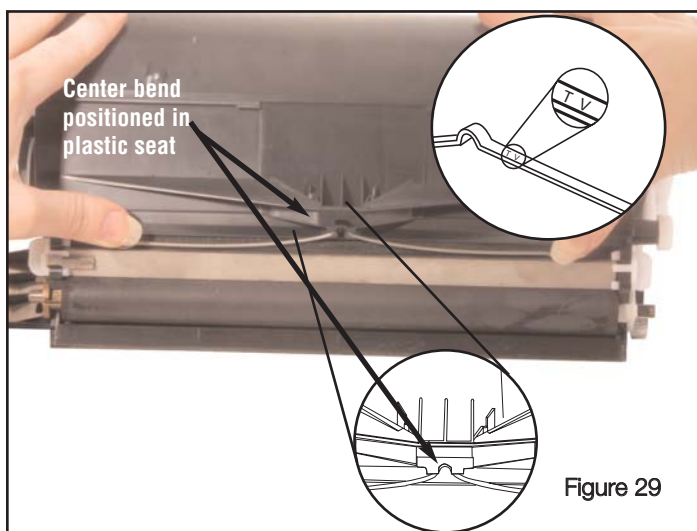


Place the Doctor Bar in to the Toner Hopper.

- b. Slide back Doctor Bar Retaining Tabs to secure Doctor Bar to the Toner Hopper.
- c. Reinstall Doctor Bar Leaf Spring as shown in Figure 29. Be sure that the "V" on the leaf spring is facing out as shown in Figure 29.



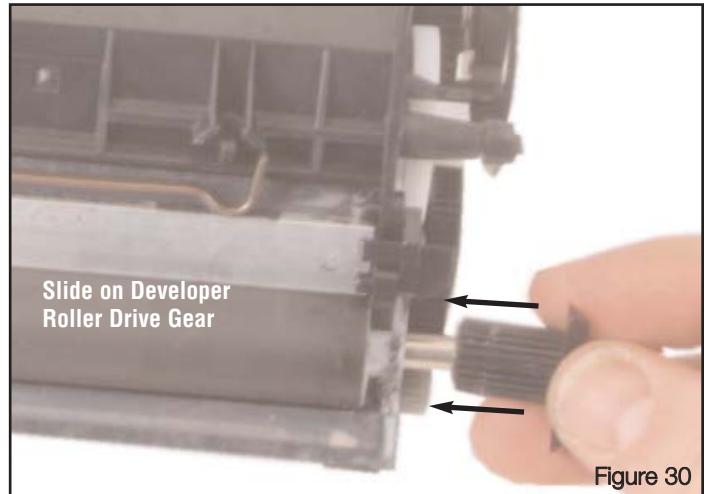
**Note:** Ensure that the correct qualified Doctor Bar Leaf Spring is used as a replacement when using a SCC version.



Reinstall the Doctor Bar Leaf Spring.

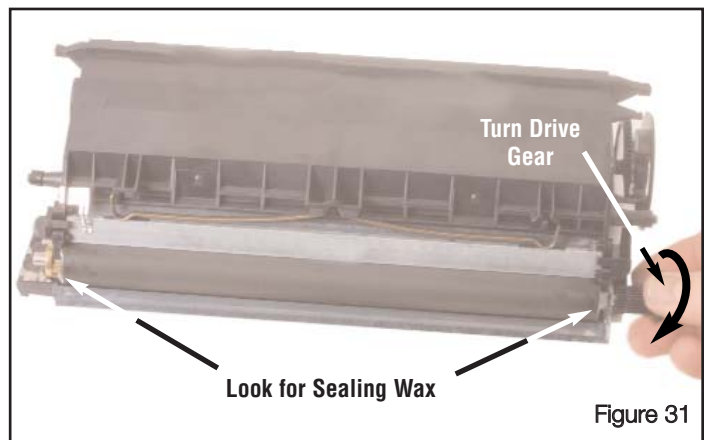
## Reassembling the Toner Hopper Section

4. Reattach the Developer Roller Drive Gear to the indexed end of the Developer Roller. See Figure 30.



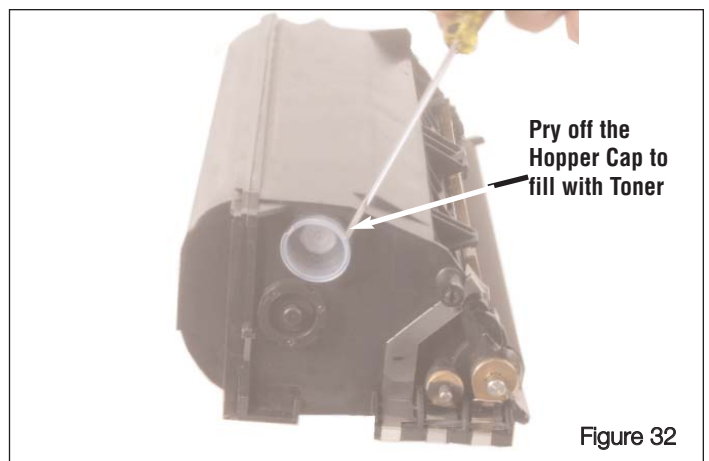
Attach the Developer Roller Drive Gear to the indexed end of the Developer Roller.

5. Rotate the Developer Roller to distribute Sealant on the ends of the Developer Roller. See Figure 31. Sealant should not extend more than 1/8 inch (3.175mm) from the ends. If so, wipe off excess with a dry, lint free cloth.



Turn the Developer Roller Drive Gear, look for the Sealing Wax to seep out of the sides.

6. Fill the Toner Hopper with Toner.
  - a. Pry out the Toner Cap from the Toner Hopper with a small Flathead screwdriver. Being careful not to damage the cap.
  - b. Fill the Toner Hopper with a qualified toner then replace the Toner Cap to the Toner Hopper.



Pry out Toner Cap from the Toner Hopper.



# Reassembling the two Sections

REMANUFACTURING THE LEXMARK® T420/T430

This section provides the information needed to reattach the Toner Hopper and Waste Bin Sections of the cartridge to each other. At this point the two sections should have been disassembled, cleaned, and reassembled as described in this SSS™. If you have not completed these tasks, then see page 1 for instructions. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

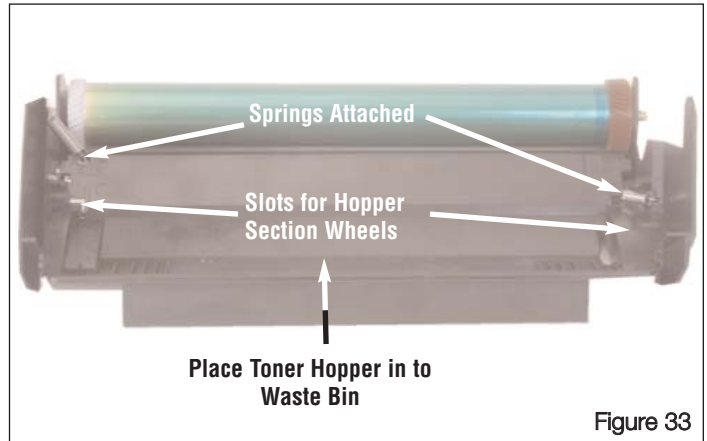
1. Turn the Waste Bin upside down, with the Hopper Tension Springs attached to the Waste Bin, as shown in Figure 33.



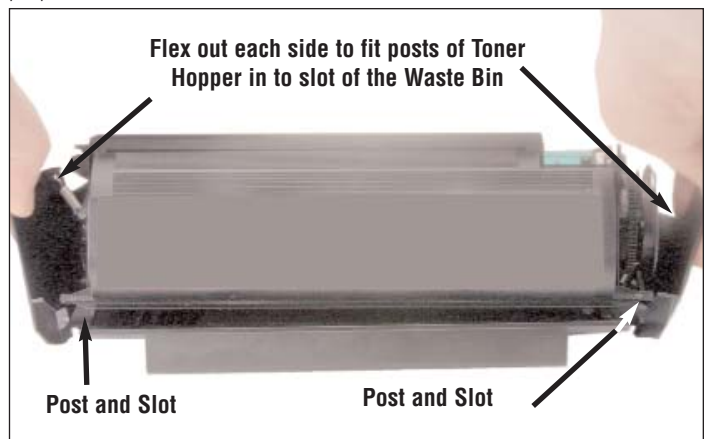
**Note:** Springs need to be out of the slots, where the Hopper Section wheels will be.

2. Flex the sides of the Waste Bin to slide the posts of the Toner Hopper in to the provided slots in the Waste Bin. See Figure 34.

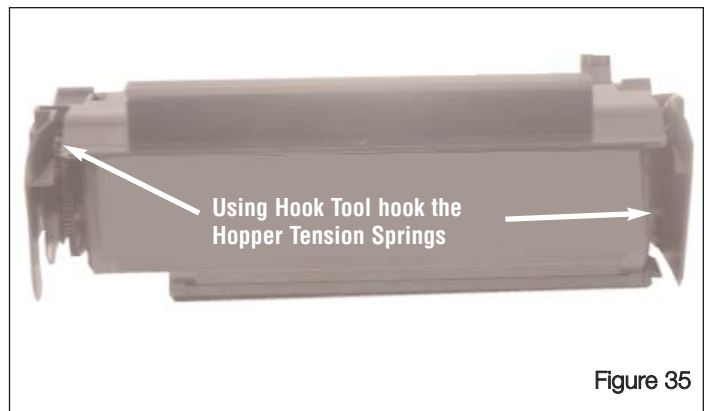
3. Flip the cartridge over and using a Hook Tool (HTOOL) hook the Hopper Tension Springs to the Toner Hopper. See Figure 35.



Position Waste Bin so that it is upside down. Springs are attached in proper location.



Flex the sides of the Waste Bin to slide the posts of the Toner Hopper in to the slots in the Waste Bin.





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