Static Control

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REMANUFACTURING INSTRUCTIONS

Samsung® ML-3051/3471
Samsung® SCX-5330/5530/5635/5835/5935
Xerox® Phaser® 3428/3435, 3300/3635 MFP
Ricoh® SP 3200
Tally® Genicom® 9330

Dell® 1815/2335

SSS™ 880

Other SSS™ documents available in Adobe® Acrobat® PDF format.

V.5 - 05.11

- Samsung® CLP-550 Hopper Cap Removal Tool (SAM550HCRTOOL)
- Phillips Screwdriver
- Small Slotted Screwdriver
- Dry Filtered Compressed Air for Cleaning
- Lint-free Swab (LFSWAB)
- Lint-Free Cleaning Cloth (LFCCLOTH)
- Conductive Lubricant (CONCLUBE)
- Angled Blade Knife (ABKNIFE)
- Cotton-Tipped Swab (QTIP)
- Safety Glasses


Samsung® CLP-550 Hopper Cap Removal Tool (SAM550HCRTOOL)


Standard Phillips Screwdriver


Small Slotted Screwdriver


Dry, Filtered, Compressed Air for Cleaning


Lint-Free Foam Tip Swab (LFSWAB)


Lint-Free Cleaning Cloth (LFCCLOTH)


Conductive Lubricant (CONCLUBE)


Angle Blade Knife Tool (ABKTOOL)

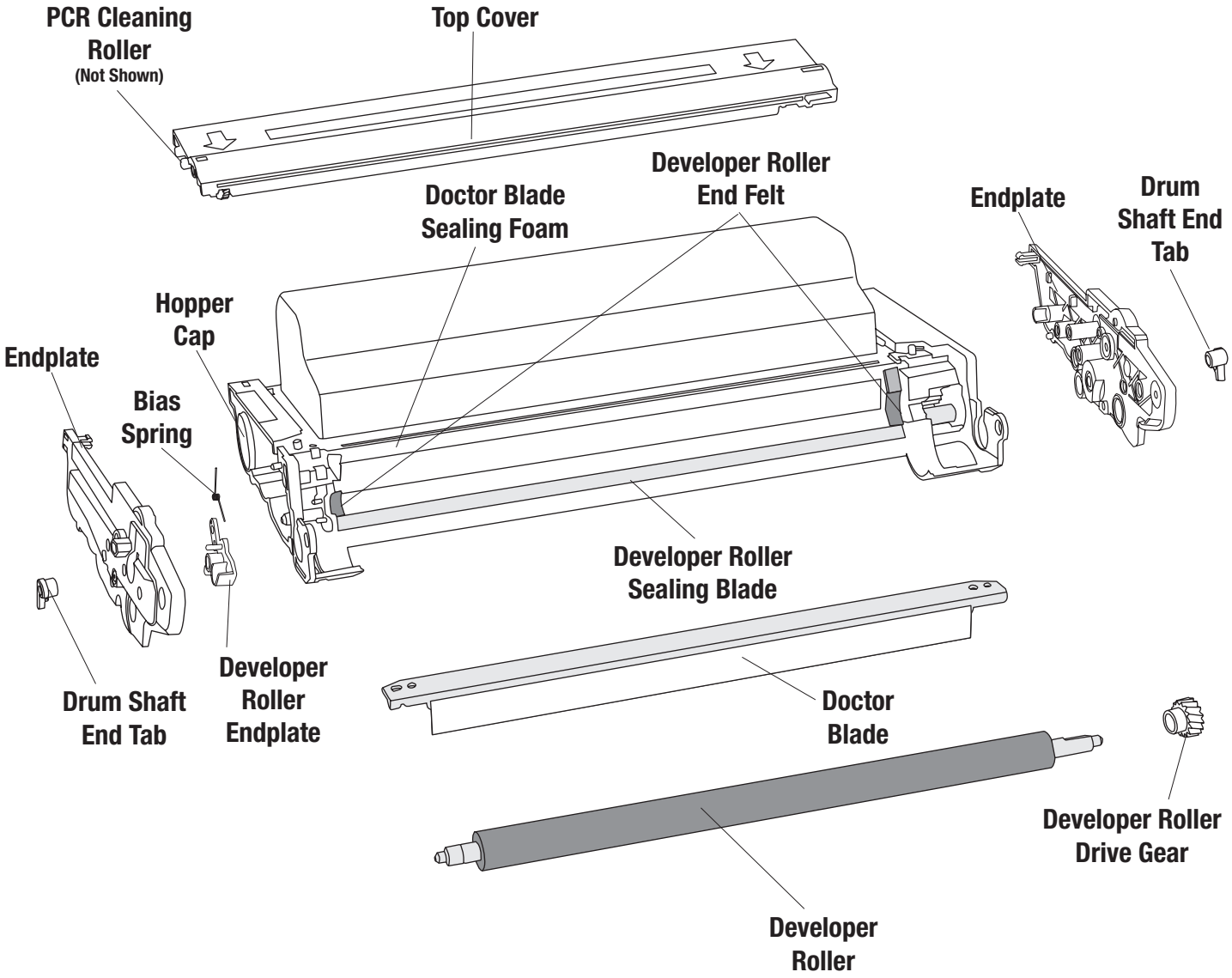

Cotton-Tipped Swab (QTIP)


Safety Glasses

TONER HOPPER ASSEMBLY

CONTACT SIDE

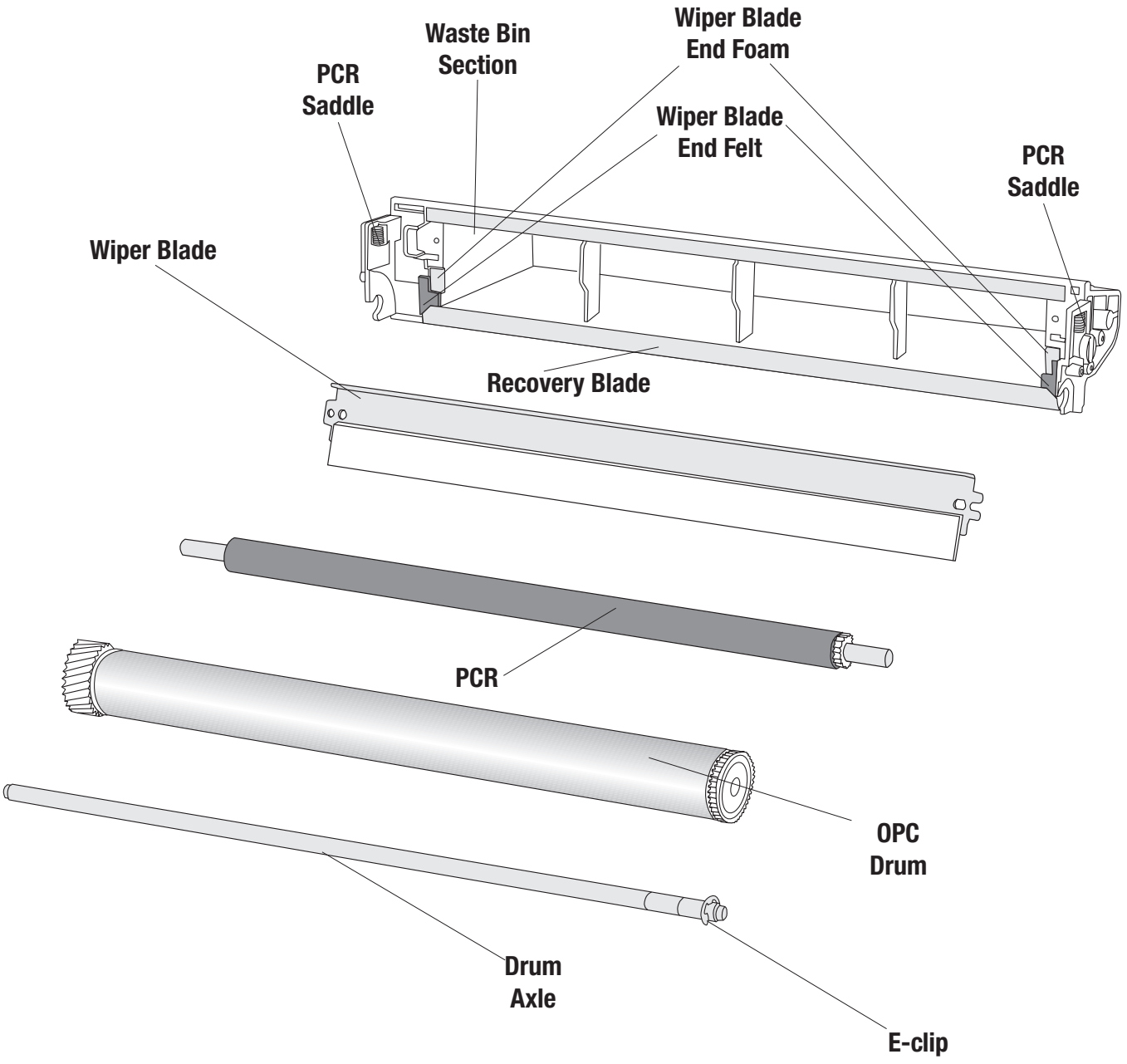
GEARED SIDE



WASTE BIN ASSEMBLY

GEARED SIDE

CONTACT SIDE



Separating the Toner Hopper and Waste Bin

1. Rotate the drum shaft end tabs to the position shown in Figures 1a and 1b. Use a small slotted screwdriver to pry the drum shaft end tabs from both sides of the cartridge.

Note: Place the drum shaft end tabs in a safe location. They will need to be re-installed later.

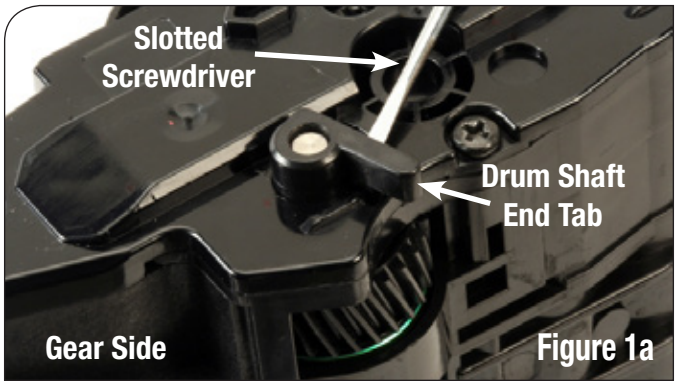


Figure 1a

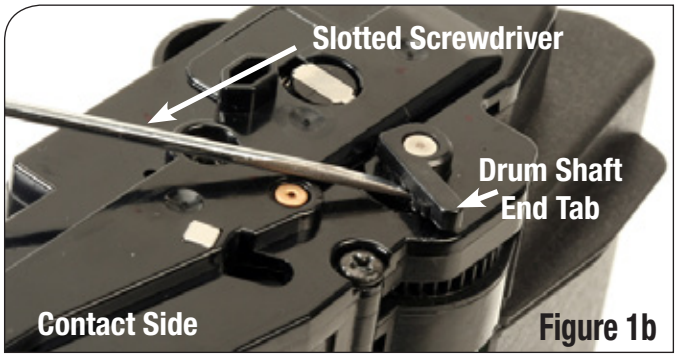


Figure 1b

2. Using a Phillips screwdriver, remove the three screws from the end plates of the cartridge (Figure 2a and 2b). The end plates are held to the cartridge also using locking tabs. Unlock the tabs to pry the plates off both sides of the cartridge.

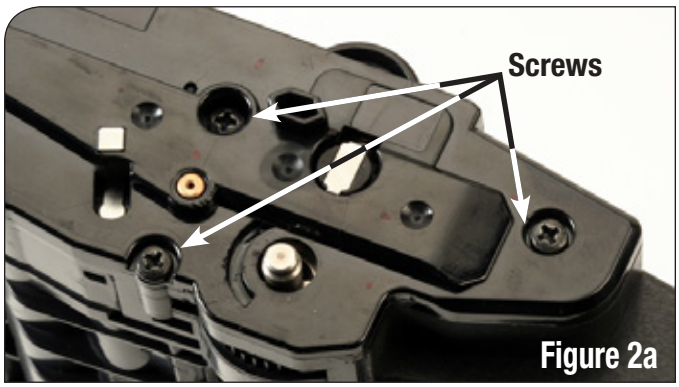


Figure 2a

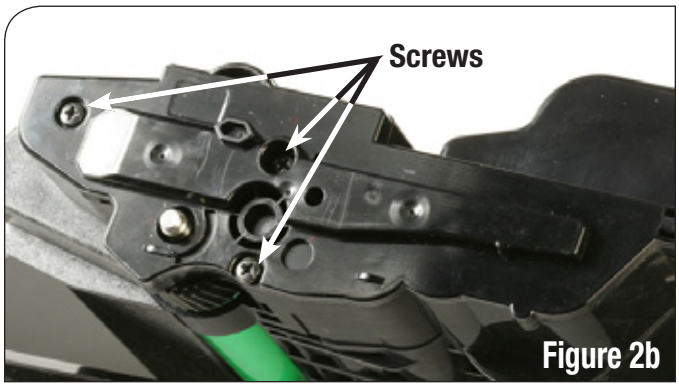


Figure 2b

3. Remove the drum top plate (Figure 3).

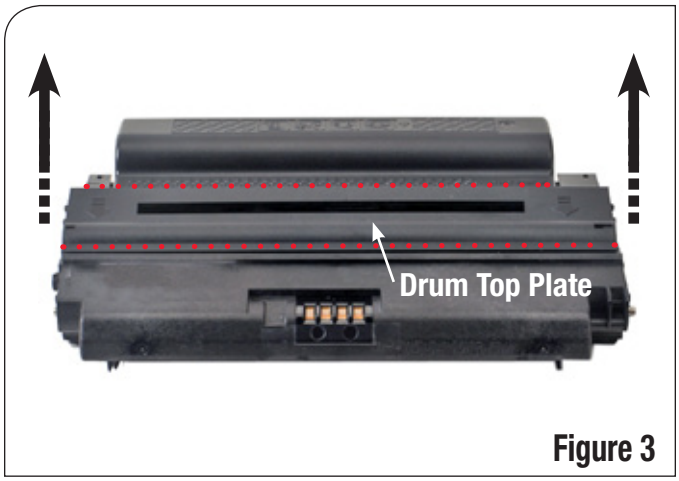


Figure 3

4. Using a small slotted screwdriver, gently pry the tabs on each side of the cartridge (Figure 4a and 4b) to separate the hopper from the waste bin.

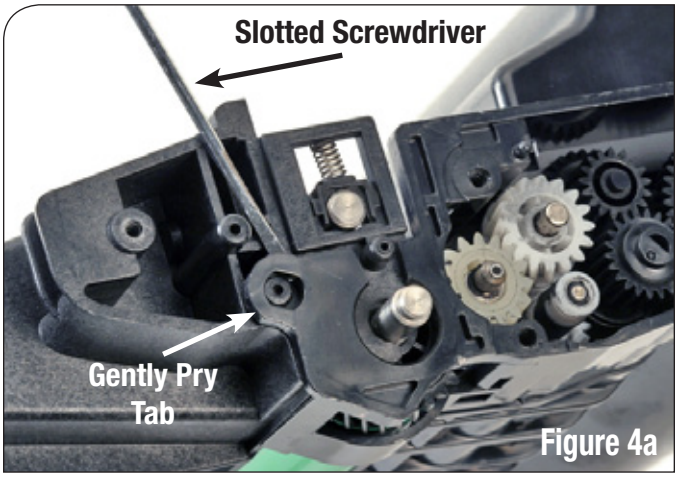


Figure 4a

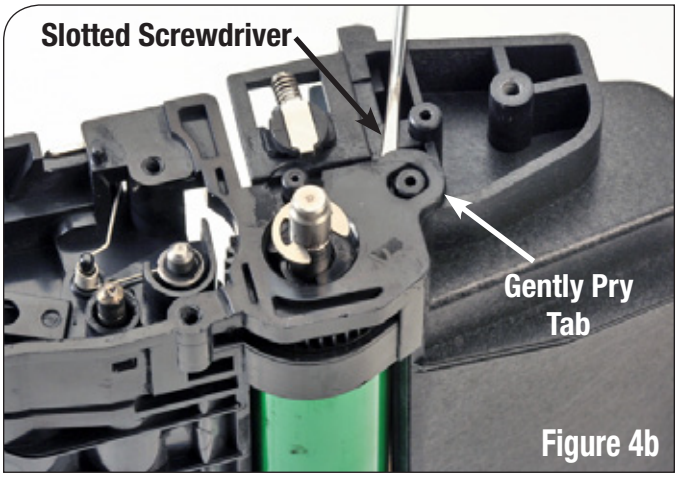


Figure 4b

5. Separate the two sections (Figure 5).

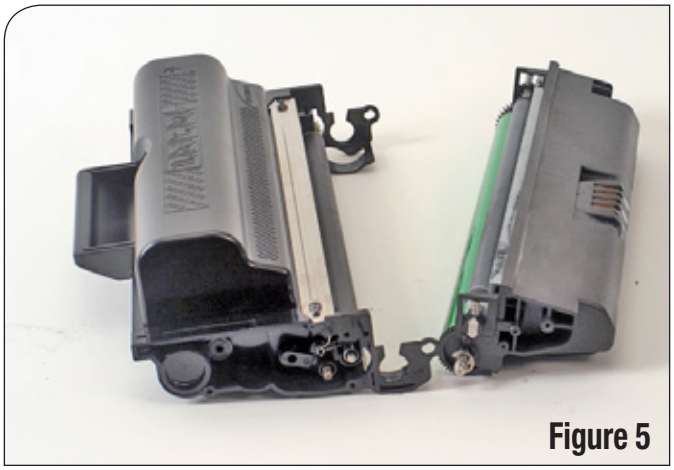
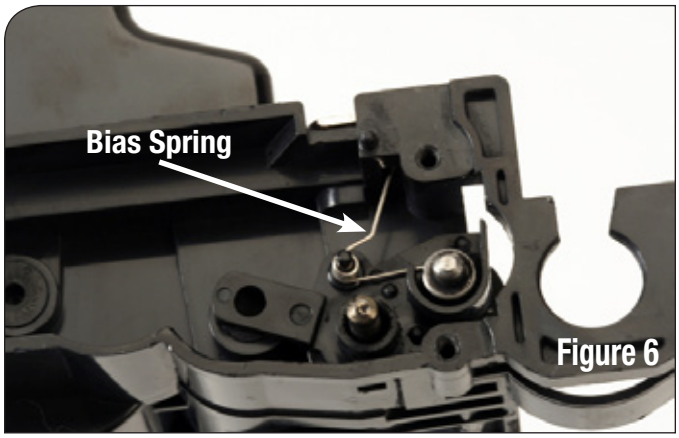


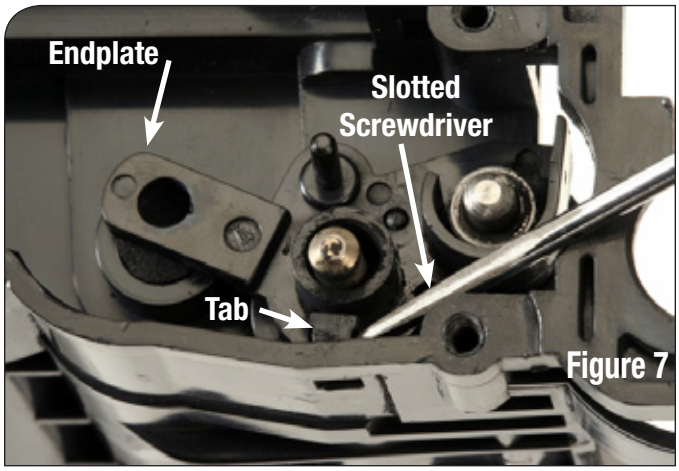
Figure 5

Disassembling the Toner Hopper

1. If the bias spring is present on the contact side of the cartridge, remove it (Figure 6).

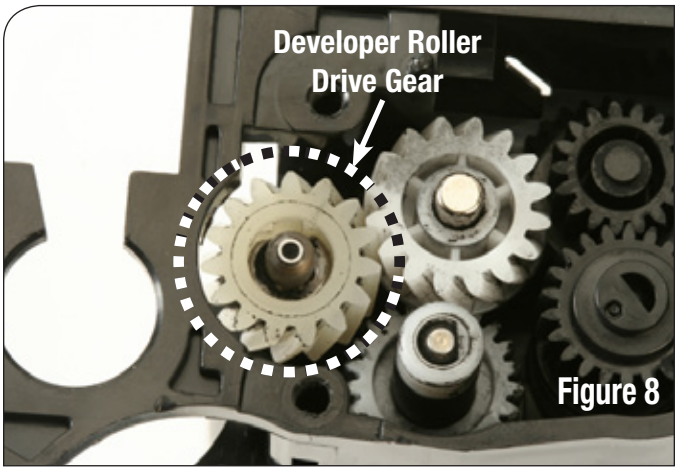


2. Remove the developer roller endplate by prying upward on the tab to remove it from its securing slot (Figure 7).

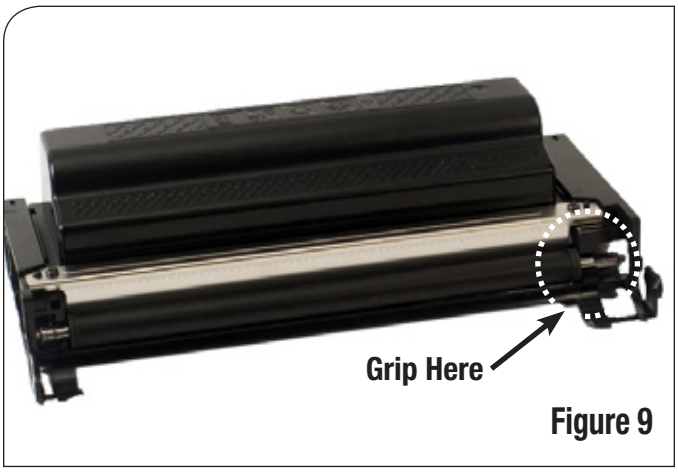


3. Slide the endplate off the shafts.

4. Slide the developer roller drive gear off its shaft (Figure 8). Note the orientation of the gear on the shaft for re-installation later.



5. Grip the developer roller shaft at the keyed end and lift it out of the hopper (Figure 9). The cartridge housing may have to be flexed to remove the roller.



6. Clean the developer roller with dry, filtered compressed air and place on a dry, lint-free cloth.

7. First, use a Phillips screwdriver to remove the two screws in the doctor blade (Figure 10). Then, Use a small slotted screwdriver to pry the doctor blade up and off the retaining tabs. Slowly lift the doctor blade up, being careful not to damage the foams under the blade.

Note: The foams on the ends of the doctor blade will tend to stick to the foams on the cartridge housing, but they can be carefully pulled apart.

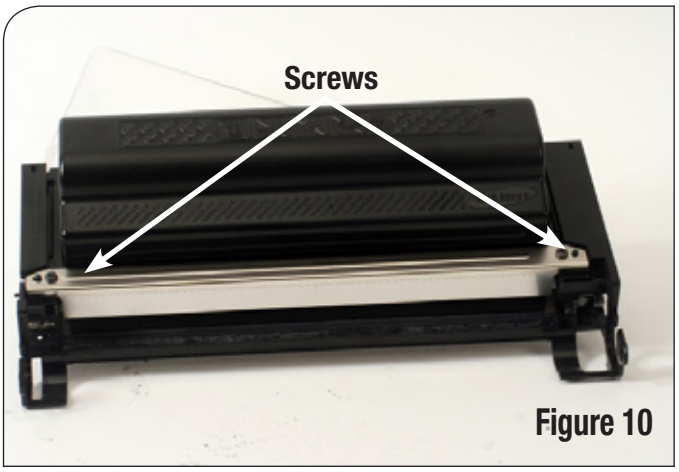


Figure 10

8. Inspect the doctor blade and hopper to ensure all foams and felts are in good condition. Replace as necessary.

9. Clean excess toner from the doctor blade with compressed air and gently wipe the doctoring edge with a lint-free cloth as shown in Figure 11. Run the wooden end of a cotton swab along the working edge of the doctor blade to remove any build-up.

Note: Be careful not to deform the doctor blade when completing this step.

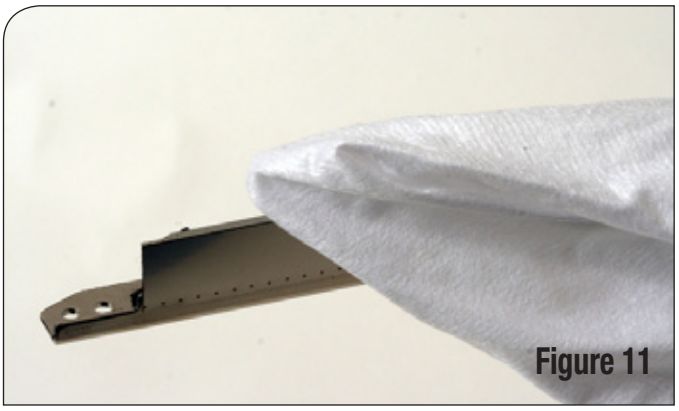


Figure 11

10. If the hopper cap is shallow, use a small slotted screwdriver to pry off the hopper cap (Figure 12a).

Note: Some of the ealier Dell cartridges have a deeper style hopper cap. Removing with a screw driver will damage the hopper cap. Use the Samsung® CLP-550 hopper cap removal tool to remove the hopper cap from the cartridge (Figure 12b).

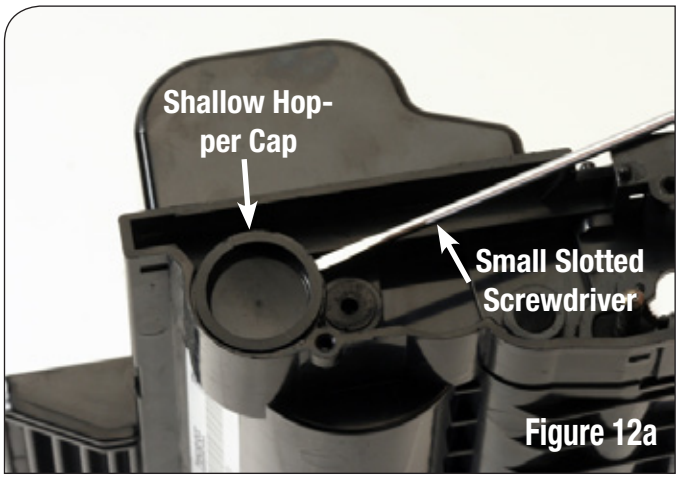


Figure 12a

Figure 12b

11. Clean the hopper section with dry, filtered compressed air (Figure 13).

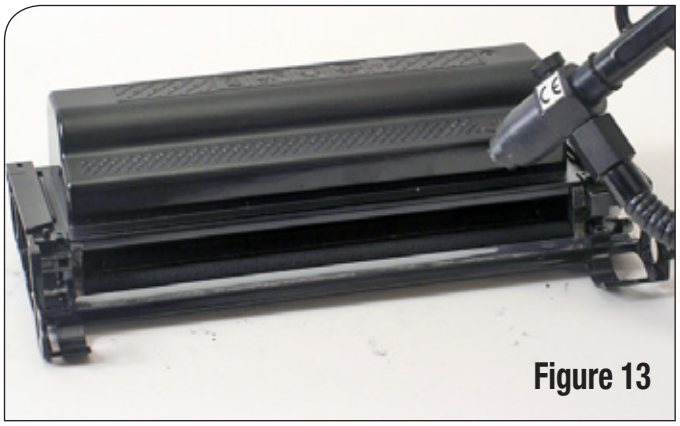


Figure 13

Resassembling the Toner Hopper

1. Place the doctor blade onto the hopper and tighten the screws to secure it (Figure 14).

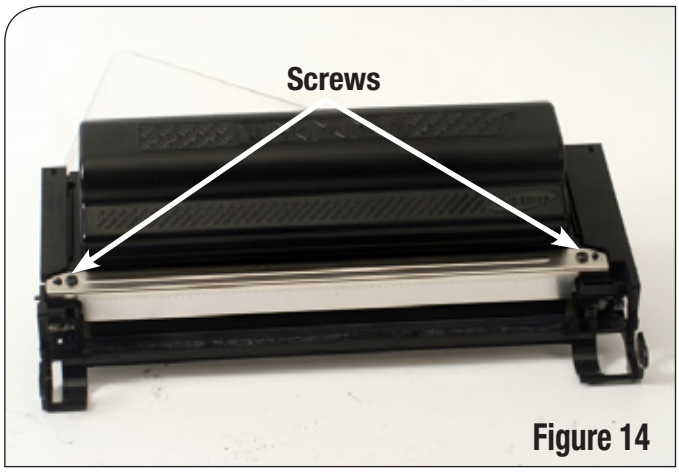


Figure 14

2. Install the developer roller in the hopper. Make sure the keyed end is on the gear end of the toner hopper (Figure 15).

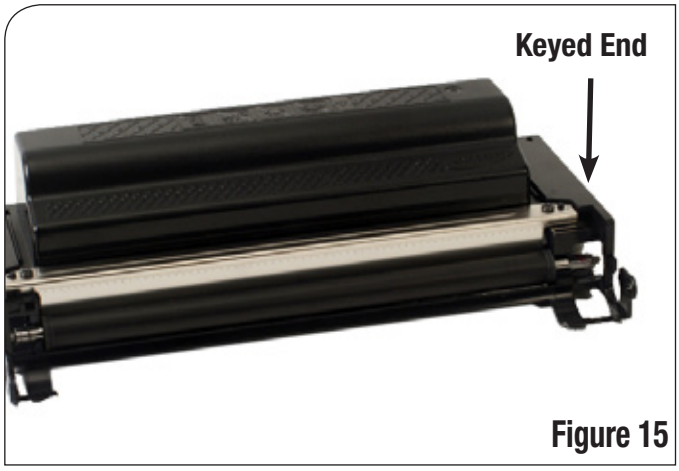


Figure 15

3. Replace the developer roller drive gear (Figure 16).

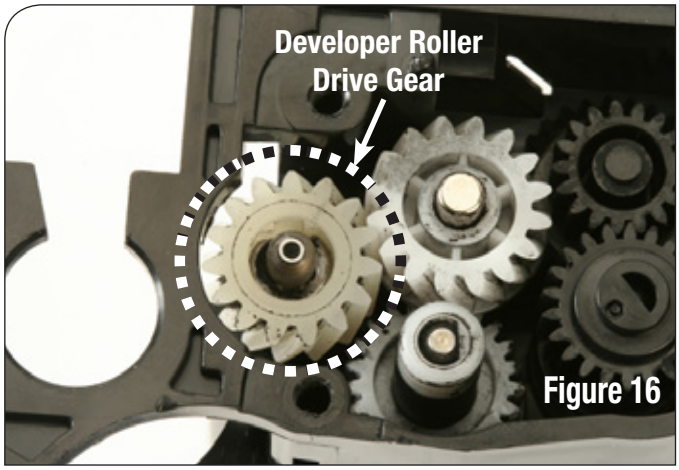


Figure 16

4. Place the developer roller end plate onto the hopper (Figure 17). Press until the locking tabs engage.

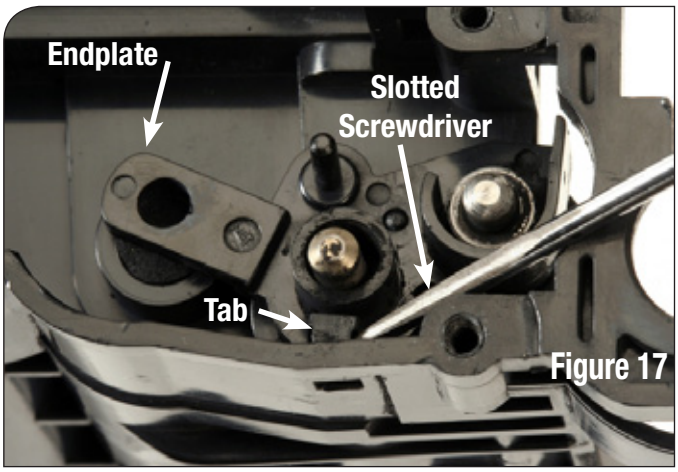


Figure 17

5. If the bias spring was present, replace it (Figure 18).

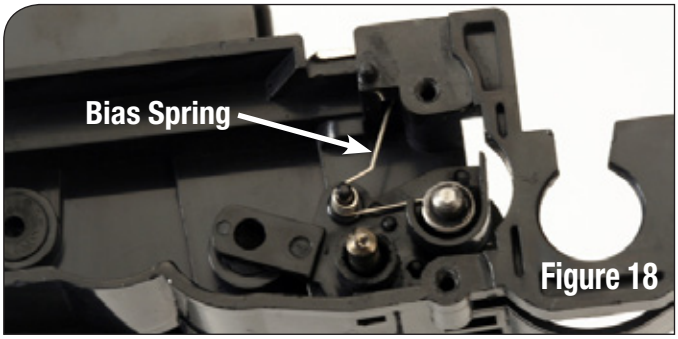


Figure 18

6. Fill the hopper with the correct amount of appropriate toner.

7. Install the hopper cap (Figure 19).

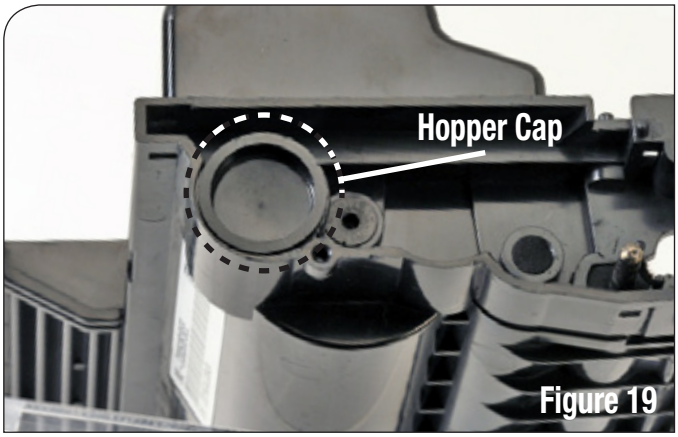


Figure 19

Disassembling the Waste Bin

1. Grasp the geared ends of the OPC drum and lift it from the waste bin (Figure 20).

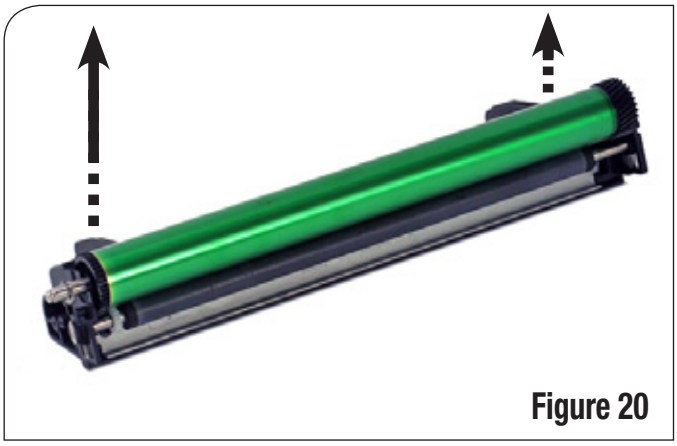


Figure 20

2. Remove the e-clip from the OPC drum axel (Figure 21).

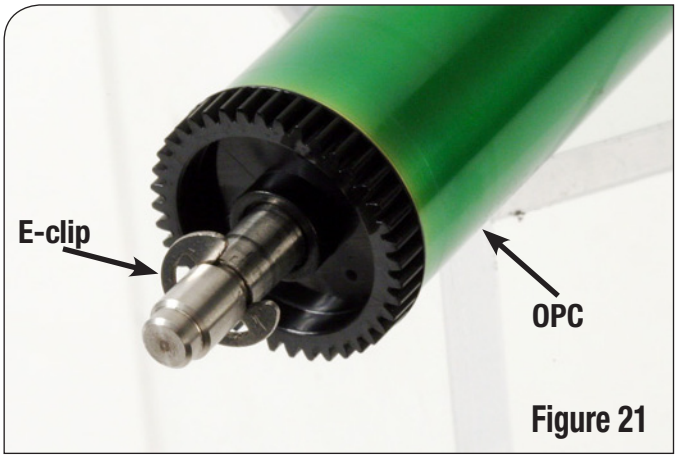


Figure 21

3. Slide the axle through the helical gear (with "diagonal" teeth) side, as shown in Figure 22.

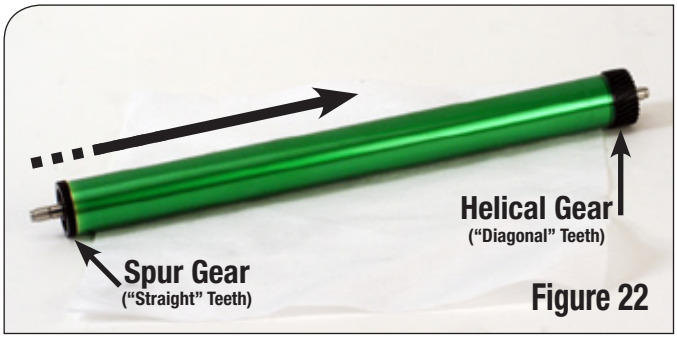


Figure 22

4. Slide the PCR shaft into the open ended PCR saddle of the waste bin (1). When the gear end of the PCR is free, lift it out of the waste bin (2), then remove the PCR (3) (Figure 23).

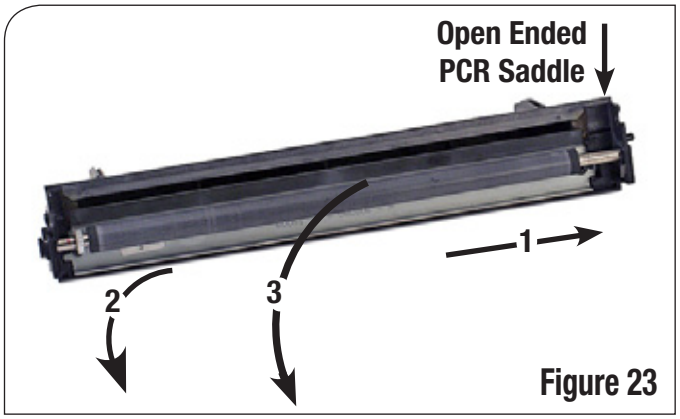


Figure 23

5. Clean the PCR with dry, filtered, compressed air.

6. Using a Phillips screwdriver, remove the two screws from the wiper blade (Figure 24). Remove the wiper blade.

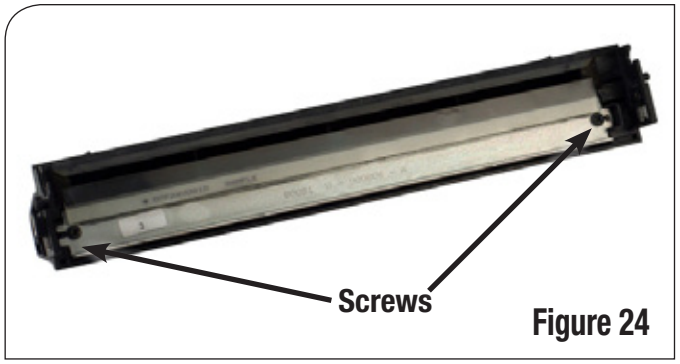


Figure 24

7. Clean the drum section with dry, compressed air (Figure 25).

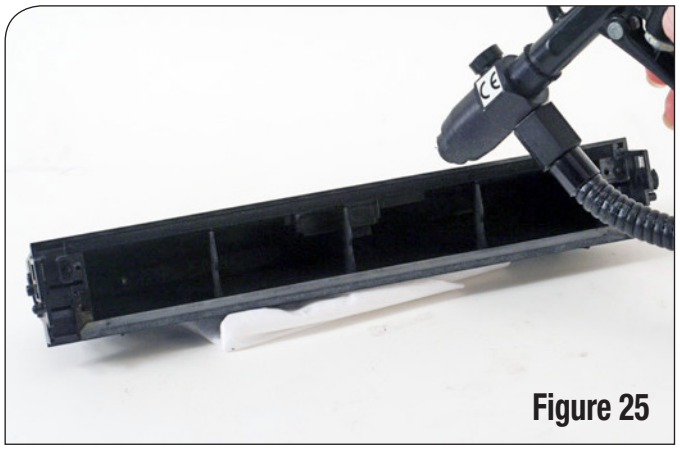


Figure 25

8. Inspect the recovery blade for damage. Replace if necessary.

Reassembling the Waste Bin

1. Dip the urethane edge of the replacement blade in appropriate black toner to lubricate the blade.

2. Install the wiper blade and secure it with the two screws as shown in Figure 26.

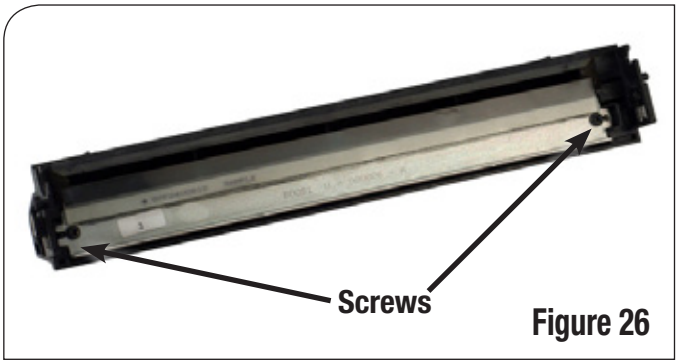


Figure 26

3. Apply a small amount of conductive lubricant on the gear end of the PCR axel as shown in Figure 27.

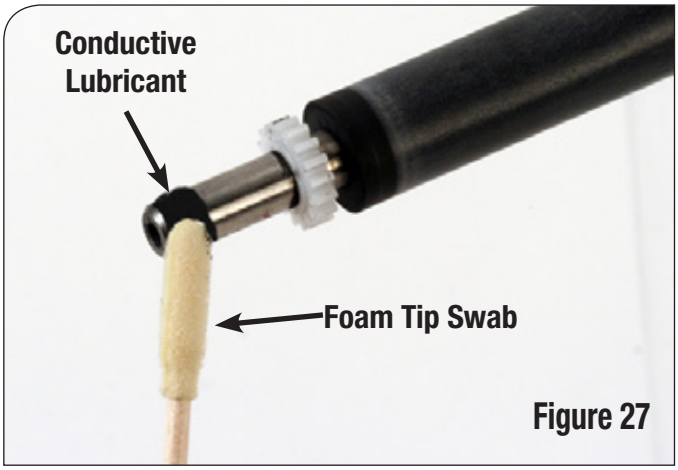


Figure 27

4. Slide the non-geared end of the PCR into the open ended PCR saddle (1). Then, slide the geared end of the PCR into the closed ended PCR saddle (2), installing the PCR (Figure 28).

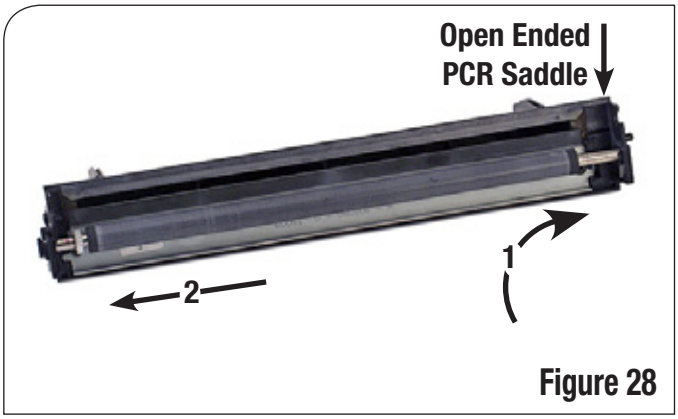


Figure 28

5. Insert the non-grooved end of the drum axle into the drum through the spur gear side, as shown in Figure 29. Slide the axel until it comes through the helical gear.

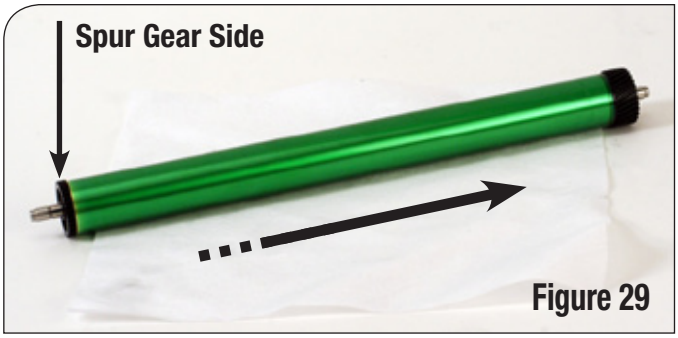


Figure 29

6. Reinstall the e-clip on the drum axle, as shown in Figure 30.

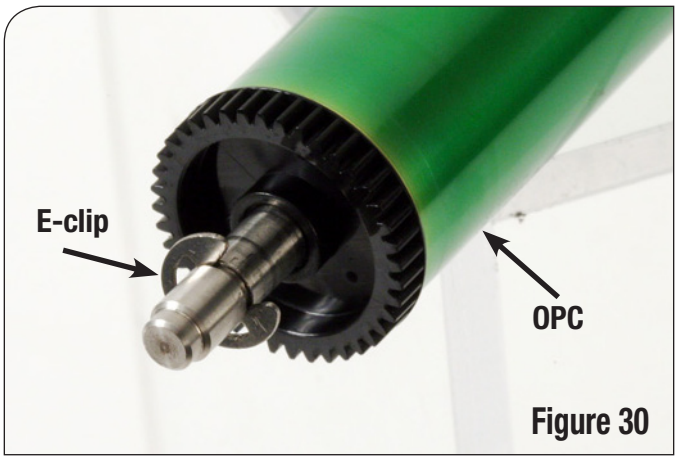


Figure 30

7. Apply a small amount of conductive lubricant on the OPC axle between the e-clip and the spur gear (Figure 31).

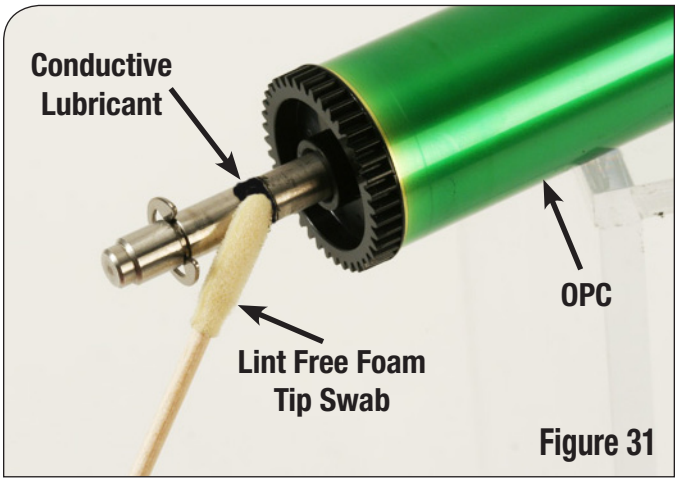


Figure 31

8. Install the drum into the waste bin by pressing the shaft down into the saddles, see Figure 32. Make sure the e-clip is on the outside of the drum saddle.

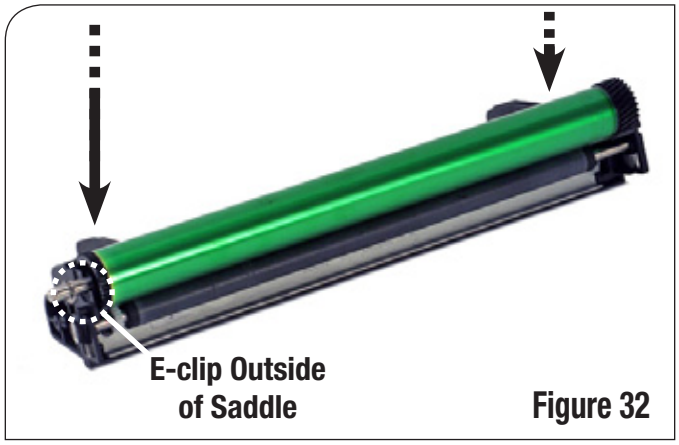


Figure 32

Reassembling the Toner Hopper and Waste Bin

1. Align the toner hopper and waste bin together as shown in Figure 33.

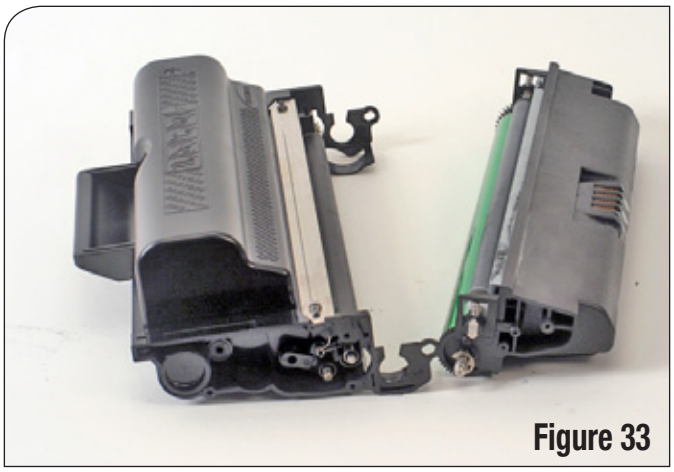


Figure 33

2. Press the two sections together until the locking tab on the sides snap into place (Figure 34a and 34b).

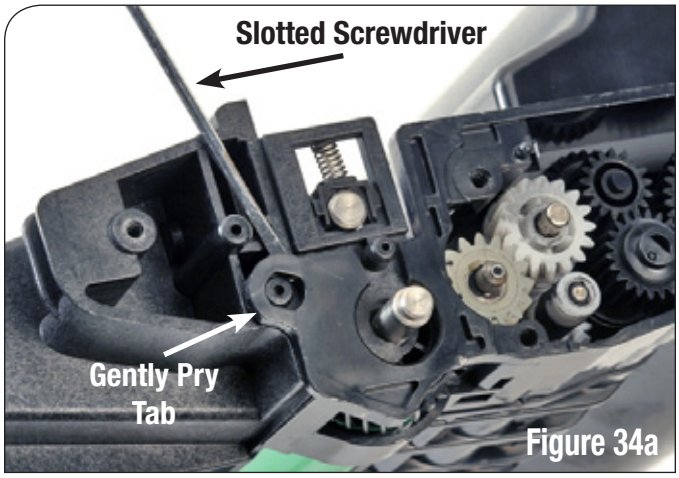


Figure 34a

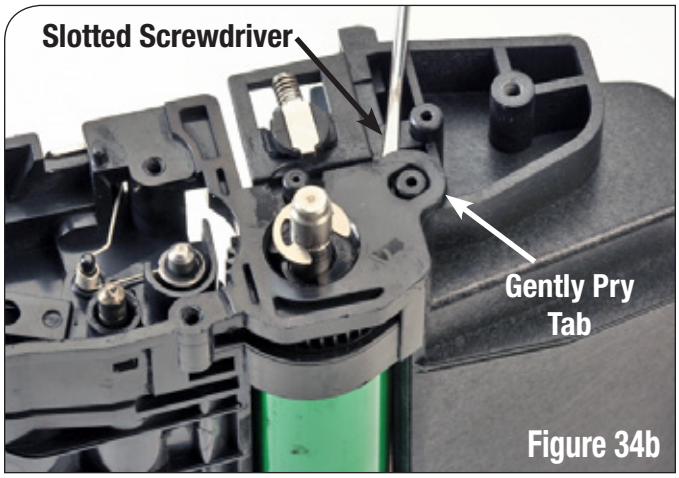


Figure 34b

3. Replace the drum top plate as shown in Figure 35.

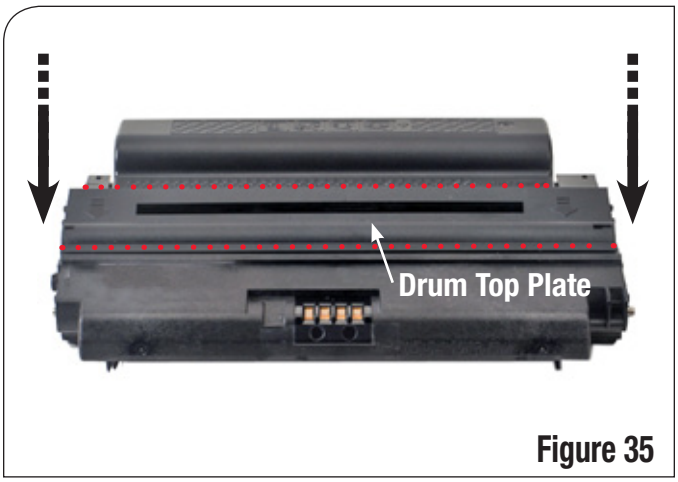


Figure 35

4. Install the end plates on each side of the cartridge. Install the three screws into the end plates of the cartridge, as shown in Figure 36a and 36b.

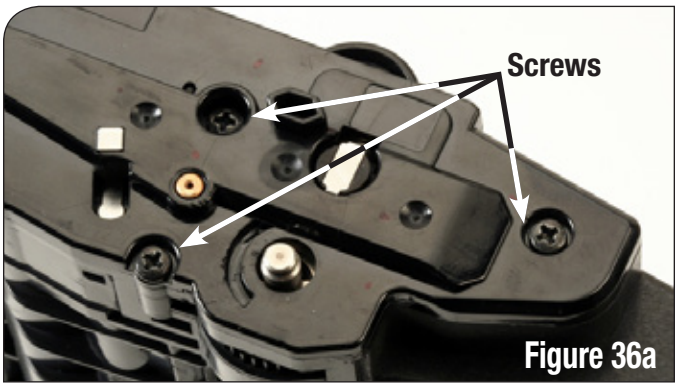


Figure 36a

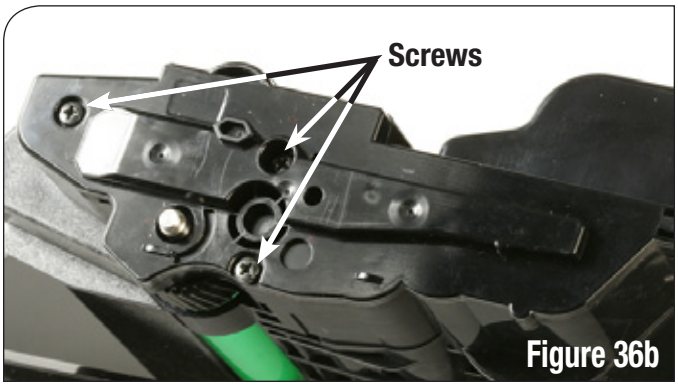


Figure 36b

5. Insert the drum shaft end tabs into the cartridge and rotate so the end tabs are aligned as shown in Figure 37a and 37b for shipping.

Figure 37a

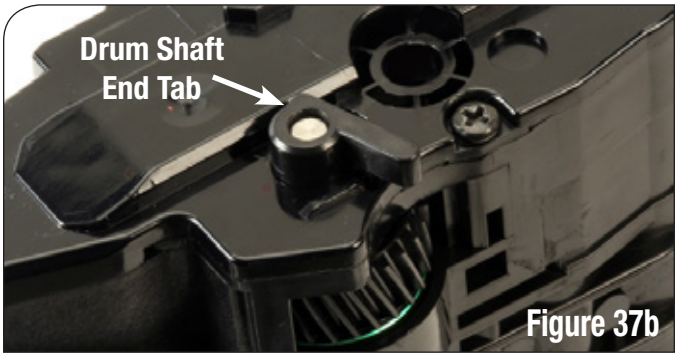


Figure 37b

Note: Install the chip. Refer to SSS™# 961 for complete chip installation instructions.

Use of Compressed Air

As of April 28, 1971, the Occupational Safety and Health Administration (OSHA) Standard, 29 CFR 1910.242 paragraphs a and 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.

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 Information

- Always wear eye protection while operating power tools.
- Always wear eye protection and protective clothing while working with toner and or other chemicals.
- Do not swallow or ingest toner, isopropyl alcohol, toner dust, or any chemicals or materials used in the process of remanufacturing.

MOVING AT THE SPEED OF NEW TECHNOLOGY

The development of cartridge imaging products and technology is the primary mission of our Imaging Labs. Through extensive testing and research, we develop the optimum combination of matched components for each cartridge. Our engineering and manufacturing expertise provides us with total control in design, quality and development to produce products from the ground up. The results are components that seamlessly work with each other and with good, used OEM parts.

This dedication and commitment results in products 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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