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CARTRIDGE REMANUFACTURING INSTRUCTIONS FOR:

OKIDATA® C5000 SERIES TONER CARTRIDGE & IMAGING UNIT

COMPATIBLES:
OKIDATA® C5100N, C5150N, C5200N, C5300N, C5400, C5400DN, C5400DTN, C5400N, C5510N

Okidata® C5000 Series Cartridge

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For the latest cartridge information
Click on "Online Engine Center"

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

Reference Info

The Okidata® C5000 Series was first introduced in January 2003. This series of printers is targeted at the small office/home office category of users looking for a fast, low cost color solution. OKI® has expanded the product line over time to introduce models with lower price points, and multi-function printer models at the high end. This printer uses LED rather than laser imaging technology.

Cartridge Keying Features

Toner cartridge keying feature

Imaging unit keying feature

Cartridges and imaging units are keyed by color and application. Static Control does not recommend altering the keying features.

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.

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

Introduction

Purpose of this SSS

The purpose of this SSS™ is to provide you a guide and the basic information needed to remanufacture a Okidata® C5000 Series toner cartridge. This SSS™ contains information about:

- Disassembling the cartridge
- Basic cleaning
- Reassembling the cartridge
- Disassembling the imaging unit
- Reassembling the imaging unit

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.

Visit www.scc-inc.com/Library/ to check for updated documentation and technical updates:

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

Additional Tools & Supplies

Additional Items:

- Adhesive caulk (ADHCAULK)
- Angle blade knife (ABKNIFE)
- Tape seal (OKI52TAPESEAL)
- Cleaning swab (QTIP)
- Conductive cartridge lube (CONCLUBE)
- SCC drum unit replacement fuse (OKI52FUSE)
- Lint-free cleaning cloth (LFCCLOTH)
- Toner cloth (TFCCLOTH)
- Electrical Tape

For Basic Remanufacturing:

- Small flat blade screwdriver
- Needlenose pliers
- Dry filtered compressed air for cleaning
- Phillips head screwdriver
- 91-99% Isopropyl alcohol
- Toner approved vacuum

The following is a summary of the printer information for the Okidata® C5000 Series toner cartridge and imaging unit.

Printer Information				
Printer Name	**Okidata® C5100/5300**	**Okidata® C5200/5400**	**Okidata® C5150**	**Okidata® C5510n MFP**
Printer Introduction Date	January - 03	April - 04	June - 04	May - 05
Printer Introduction Price (street)	$840 / NA	$799 / $899	$699	$1,399
Duty Cycle (pages per month)	50,000	50,000	50,000	50,000
Print Speed (pages per minute)	20 (b/w), 12 (color) ppm	24 (b/w), 16 (color) ppm	20 (b/w), 12 (color) ppm	20 (b/w), 12 (color) ppm
Print Resolution (dpi)	1200 x 600 dpi	1200 x 600 dpi	1200 x 600 dpi	1200 x 600 dpi

The following table is a summary of the Okidata® C5000 Series toner cartridge and imaging unit 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.

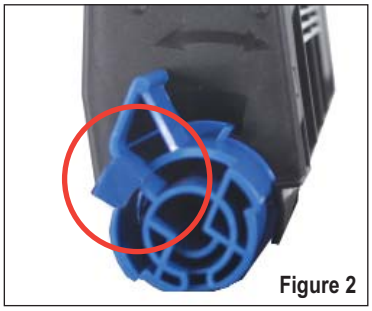
Cartridge Information					
Okidata® C5000 C5150/C5200/C5300 C5400/C5510n MFP	**Black**	**Cyan**	**Magenta**	**Yellow**	**Imaging Unit**
OEM Part #	42804404/ 42804504	42127403/ 42804503	42127402/ 42804502	42127401/ 42804501	42126601,2,3,4 (c,m,y,k)
OEM Rated Yield	5k / 3k	5k / 3k	5k / 3k	5k / 3k	15k
OEM Web Price *	$62 / $45	$143 / $118	$143 / $118	$143 / $118	$95/$80

** Prices as of December 2006*

Cartridge Comparison Features

Ensure that your Okidata® C5000 Series toner cartridge is similar to Figure 1. Starter cartridges cannot be effectively remanufactured or reused because a sensor flag is not present as shown in Figure 2.

New Cartridge



Starter Cartridge

Disassembling the Toner Cartridge

REMANUFACTURING THE
OKIDATA® C5000 SERIES TONER CARTRIDGE & IMAGING UNIT

1. Using a small flat blade screwdriver, remove the hopper cap as shown in Figure 1.

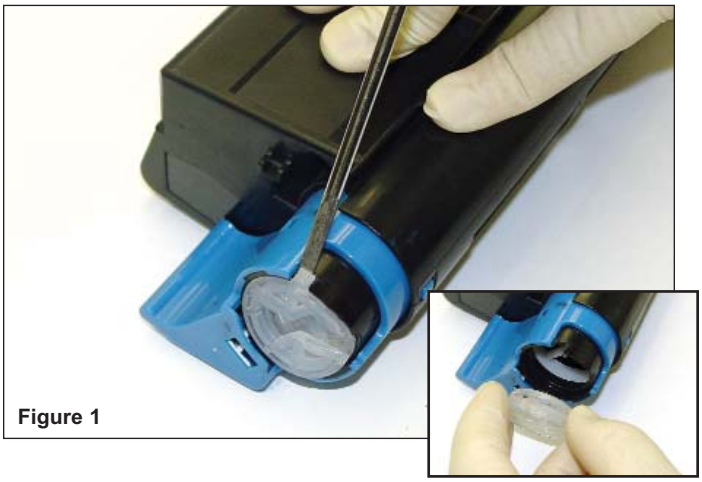


Figure 1

2. Press the tab in and rotate the locking handle clockwise as shown in Figure 2.

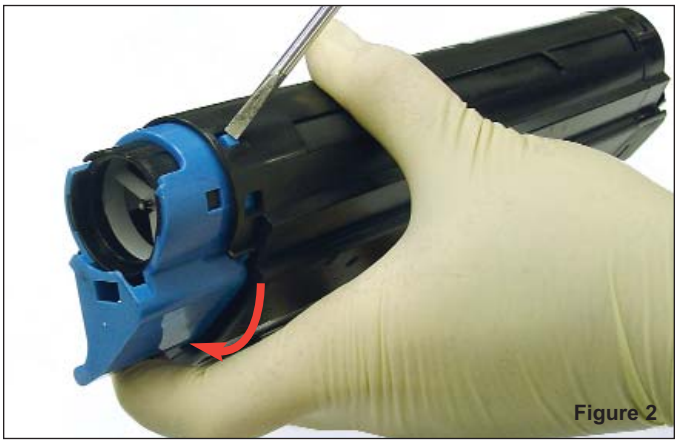


Figure 2

3. Dump out any residual toner that remains in the toner cartridge and clean using dry, filtered, compressed air as shown in Figure 3.

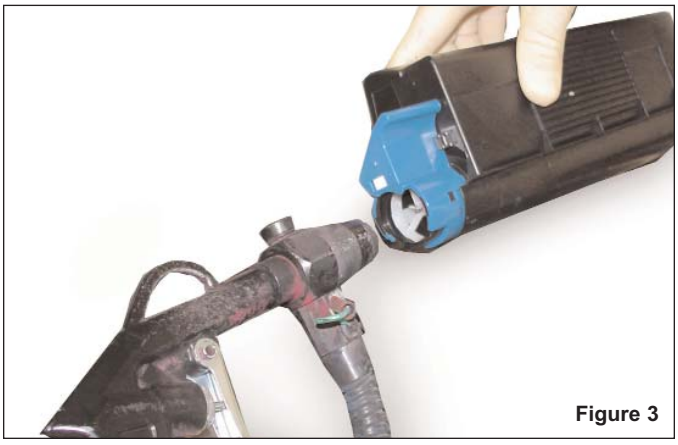


Figure 3

Reassembling the Toner Cartridge

1. Rotate locking handle counter clockwise into the lock position as shown in Figure 4.

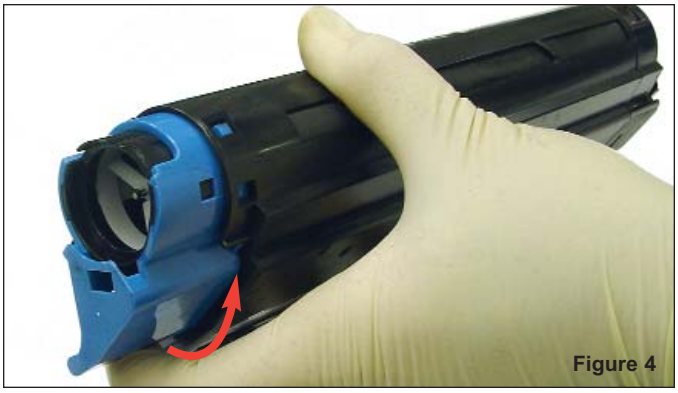


Figure 4

2. Install the tape seal as shown in Figure 5.

   Fold end over if desired to create an easy method for pulling.

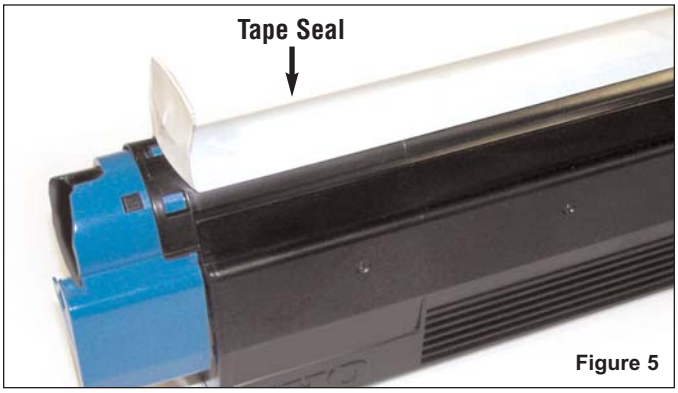


Figure 5

3. Fill toner cartridge with toner as shown in Figure 6.


Figure 6

4. Replace the hopper cap as shown in Figure 7.

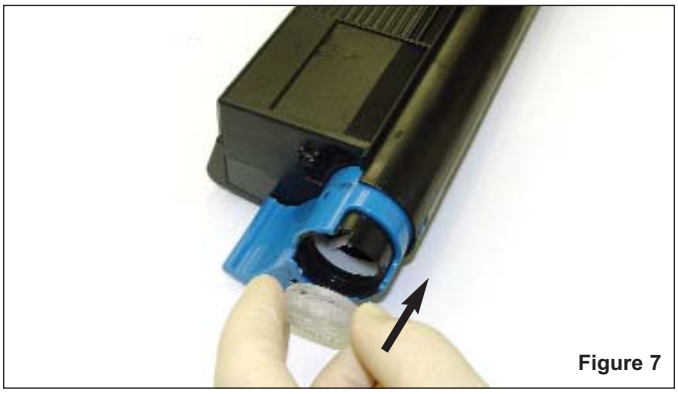


Figure 7

Removing Waste from the Toner Cartridge

REMANUFACTURING THE
OKIDATA® C5000 SERIES TONER CARTRIDGE & IMAGING UNIT

Note: The Okidata® C5000 series does not generate much waste toner and it is not necessary to empty the waste every remanufacture cycle.

1. Remove adhesive strip from the toner cartridge as shown in Figure 8.

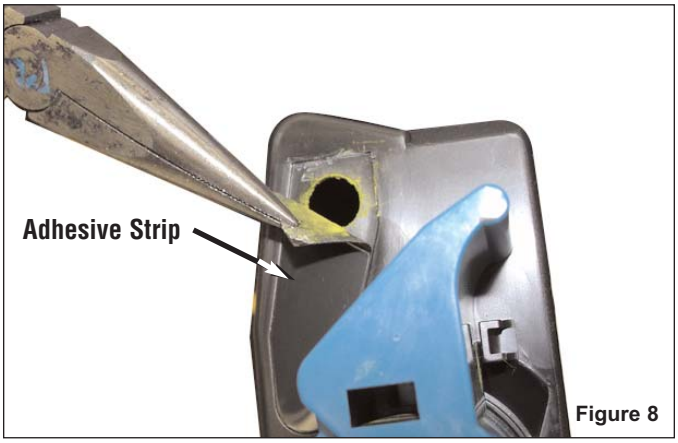


Figure 8

2. Dump out any residual waste toner that may have collected in the waste chamber and clean using dry filtered compressed air as shown in Figure 9.

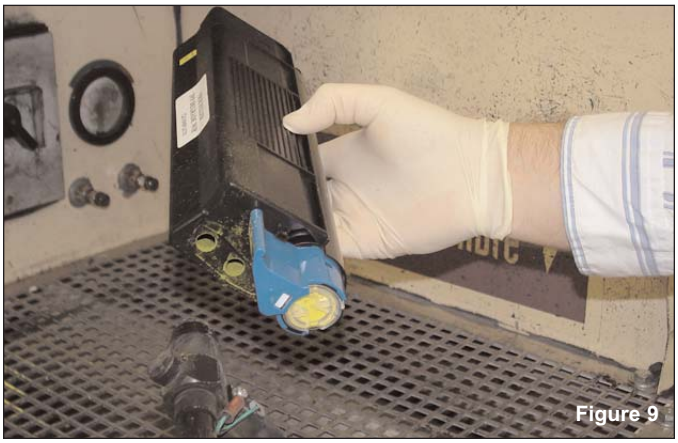


Figure 9

Note: The surface area will need to be cleaned with a toner cloth and then wiped with a lint-free cloth dampened with 91-99% isopropyl alcohol prior to installing the tape.

3. Place a piece of electrical tape over the holes and then use the angle blade knife to trim the tape to fit the depression in the toner unit (Figure 10).

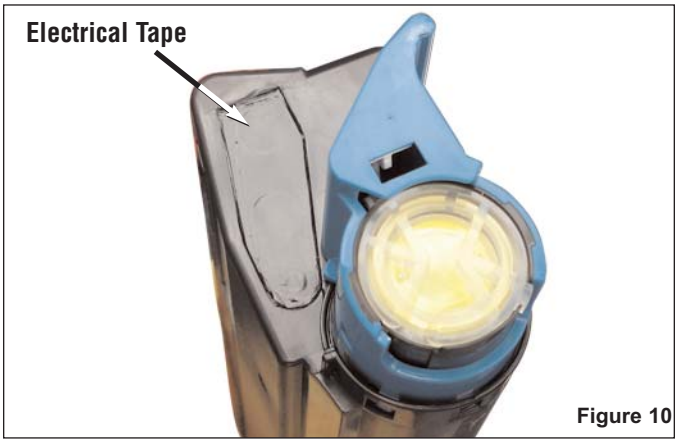


Figure 10

Disassembling the Imaging Unit

1. With a flat blade screwdriver remove the two screws located inside of the imaging unit cover as shown in Figure 8.

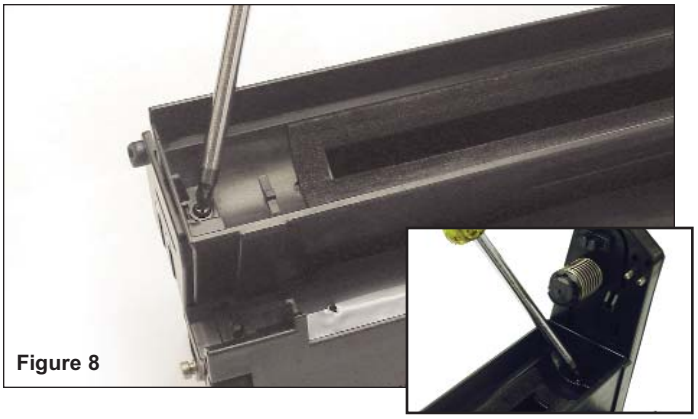


Figure 8

2. Using a small flat blade screwdriver press the two front tabs and the two back tabs located on the imaging unit cover inward as shown in Figure 9.

   Remove the cover as shown in Figure 9a and 9b.

Note: Care should be taken not to damage the tabs or imaging unit cover.

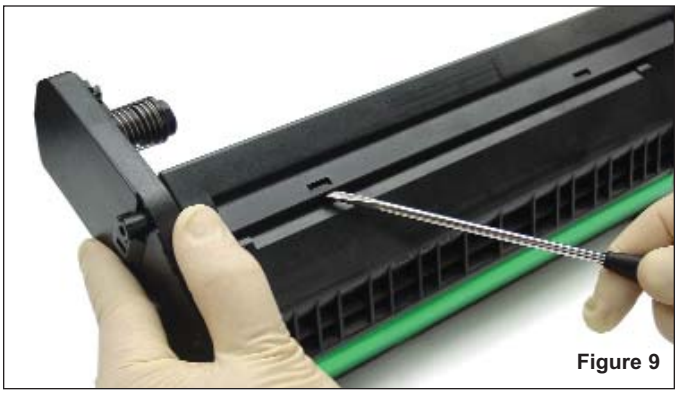


Figure 9

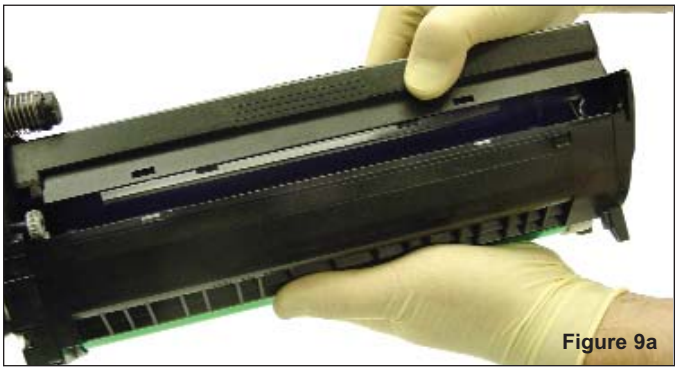


Figure 9a

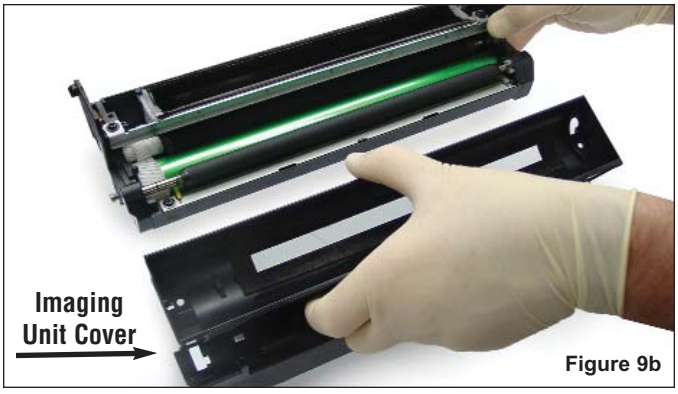


Figure 9b

3. Clean the imaging unit with dry filtered compressed air or a toner approved vacuum as shown in Figure 10.

Figure 10

4. Remove two screws from the drive side end plate of the imaging unit as shown in Figure 11.

Figure 11

5. Remove the screw from the doctor blade on the drive side of the imaging unit as shown in Figure 12.

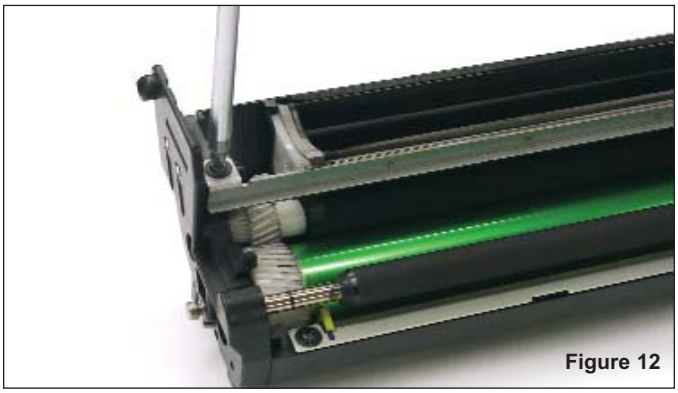


Figure 12

6. Remove the drive side end plate with a small flat blade screwdriver.as shown in Figure 13.

Note: Gently pry at different locations to effectively remove the end plate.

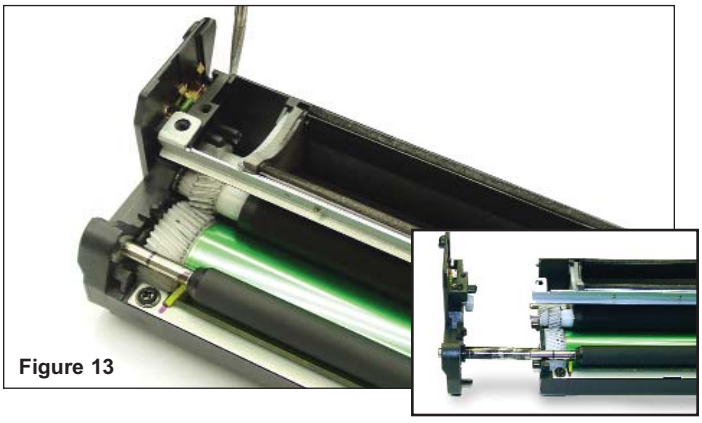


Figure 13

7. Grasp the PCR by the metal shaft and remove from the imaging unit as shown in Figure 14.

   Place on a lint free cloth.

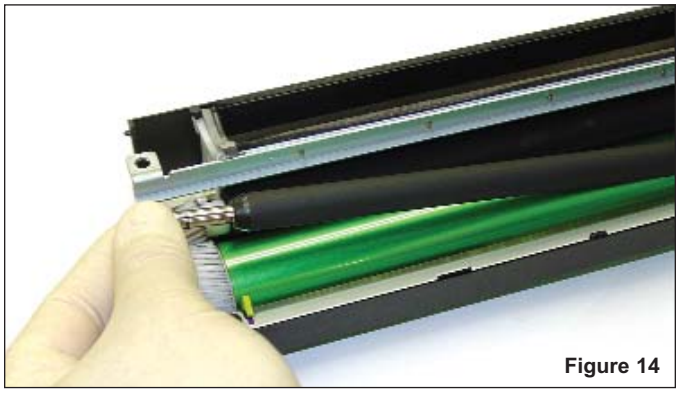


Figure 14

8. Grasp the developer roller by the metal shaft and remove from the imaging unit as shown in Figure 15.

   Note: If the developer roller bearing does not come off with the developer roller, it must be removed by hand.

   Place on a lint free cloth.

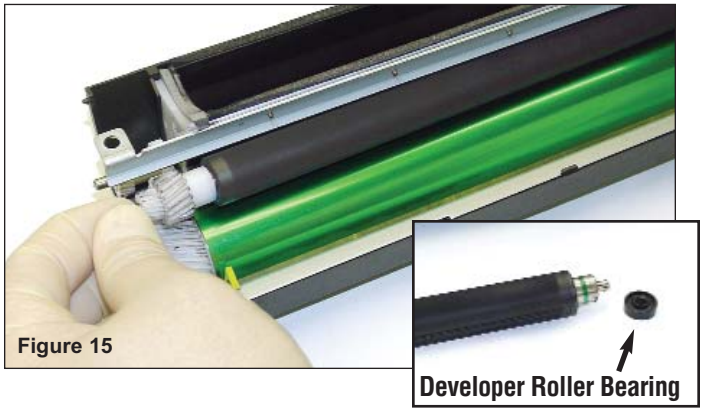


Figure 15

9. Grasp the OPC and remove from the imaging unit as shown in Figure 16.

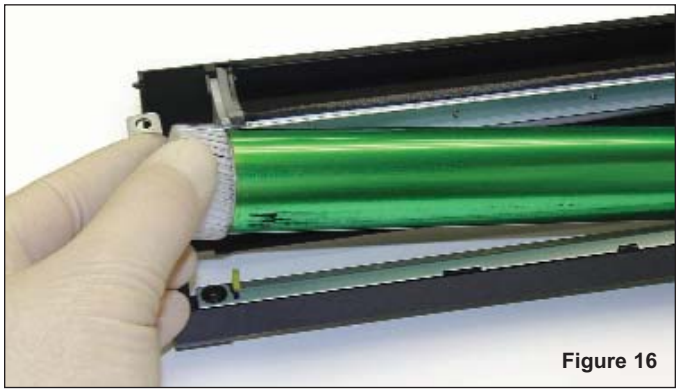


Figure 16

10. Remove the screw from the doctor blade on the non-drive side of the imaging unit as shown in Figure 17.

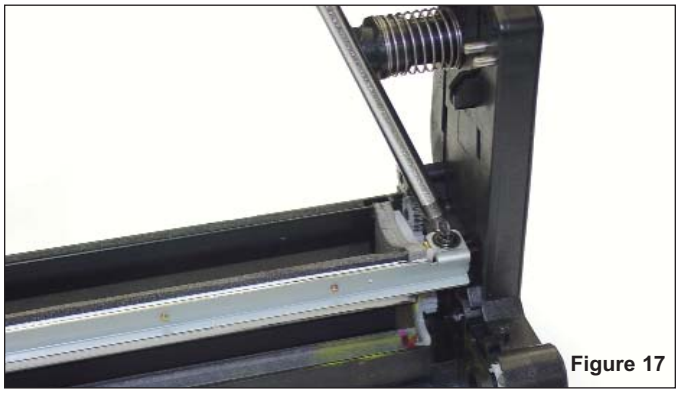


Figure 17

11. Using an exacto knife (ABKNIFE) make a small incision by cutting the seal away from the doctor blade from both ends as shown in Figure 18.

    Remove the doctor blade.

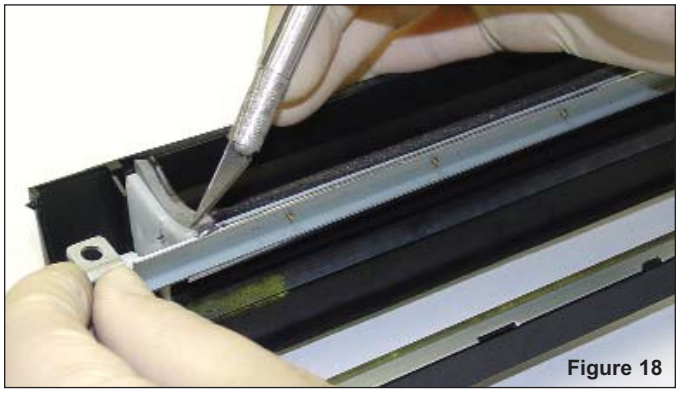


Figure 18

12. Remove the two screws from the non-drive side endplate. Remove the drive side endplate as shown in Figure 19.


Figure 19

13. Remove the two screws that secure the wiper blade as shown in Figure 20.

    Remove the wiper blade.

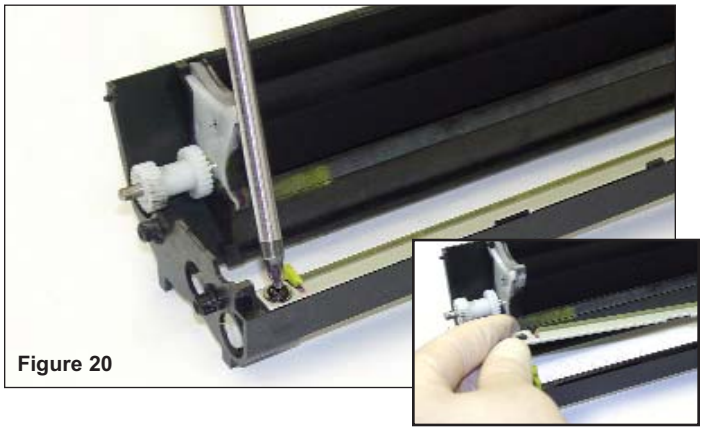


Figure 20

14. Clean the imaging unit with dry compressed air as shown in Figure 21.


Figure 21

15. Clean non-drive side endplate with dry compressed air as shown in Figure 22.

Note: Open the door to the waste chute and clean with dry filtered compressed air.

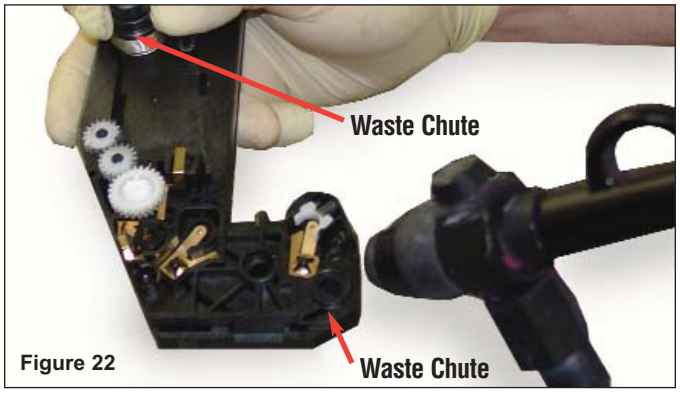


Figure 22

Reassembling the Imaging Unit

1. Coat a new wiper blade with approved yellow toner from the same cartridge family.

   Install the wiper blade as shown in Figure 23.

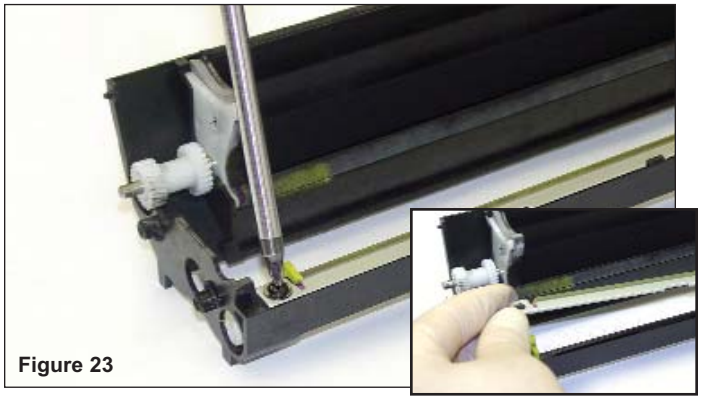


Figure 23

2. Apply conductive cartridge lubricant to non-drive side contacts using a cleaning swab as shown in Figure 24.

   Install the cartridge end plate.

Figure 24

3. Clean the doctor blade using the wooden end of a cleaning swab by running the end of it along the working edge of the doctor blade as shown in Figure 25.

   Note: Care should be taken not to apply excessive pressure.

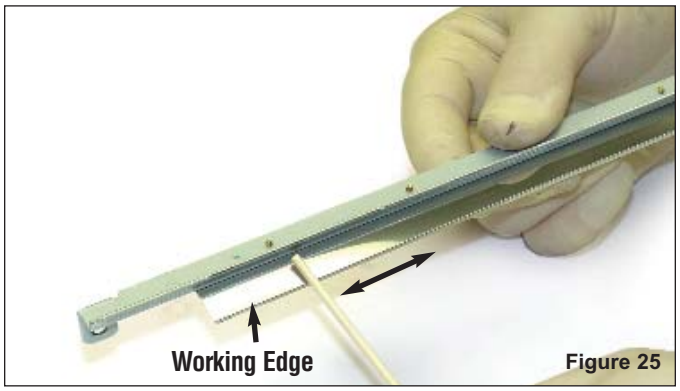


Figure 25

4. Install doctor blade after applying adhesive caulk on both sides as shown in Figure 26.

Figure 26

5. Install the OPC as shown in Figure 27.

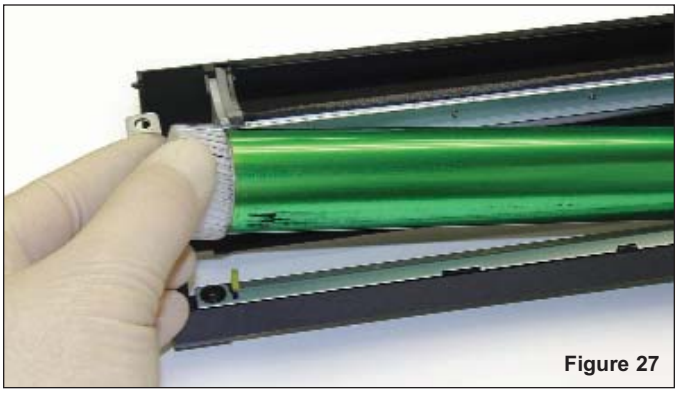


Figure 27

6. Install the developer roller as shown in Figure 28.

   Note: Install developer roller bearing onto developer roller before installation.

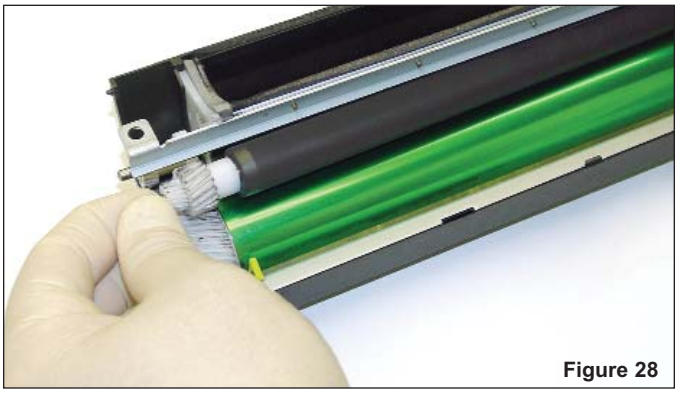


Figure 28

7. Install the PCR as shown in Figure 29.

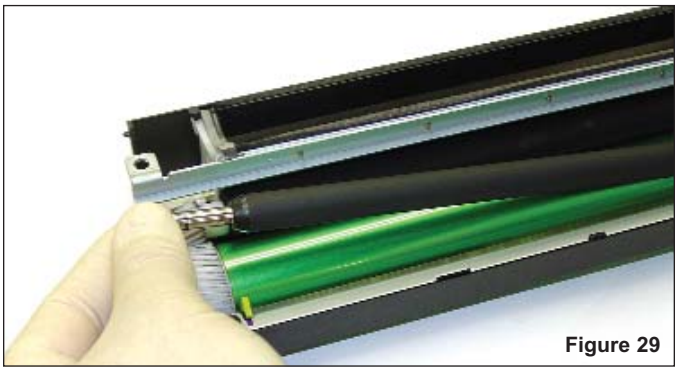


Figure 29

8. Using a pair of needlenose pliers, remove the old drum reset fuse and dispose. Install the new SCC replacement fuse as shown in Figure 30.

Figure 30

9. Install the drive side end plate with the drum axle shaft as shown in Figure 31.

Note: Slight rotation may be required of all gears to fully install the end plate.

DO NOT FORCE INTO PLACE.

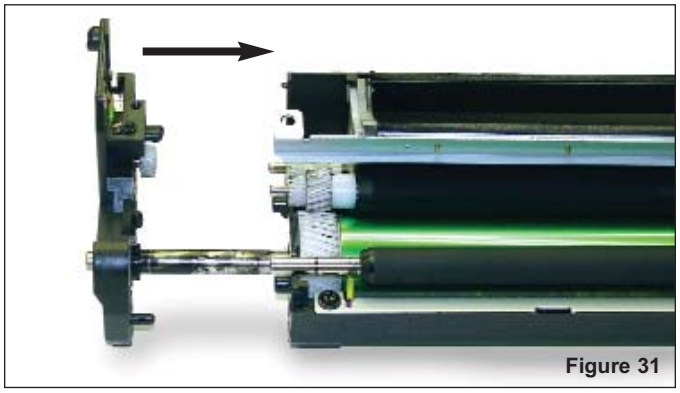


Figure 31

10. Install the imaging unit cover as shown in Figure 32.

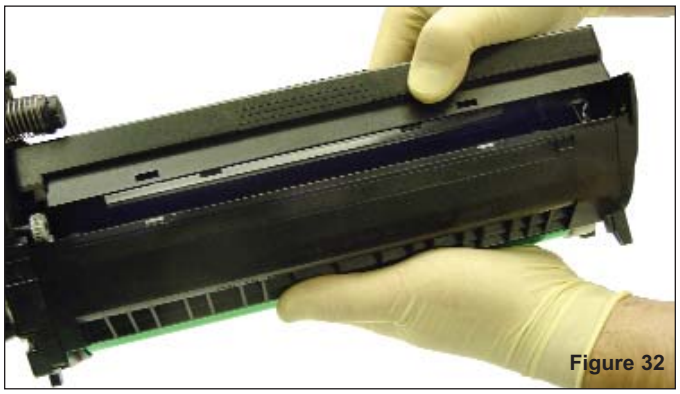


Figure 32

11. Add approximately 5-10 grams of qualified toner into the imaging unit development area as shown in Figure 33.


Figure 33

12. Install the OEM shipping protector as shown in Figure 34.


Figure 34

MOVING AT THE SPEED OF NEW TECHNOLOGY

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

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

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