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Canon® LBP 3800/3700

Reference Information

The Canon® Satera LBP 3800/3700 was released in Japan in February 2004. This printer has not been released in the United States yet. The Canon® Satera LBP-3800/3700 has built-in network capabilities and an optional duplex feature. The Canon® Satera LBP-3800-3700 has an input of 100 and a first page out of 9 seconds. Static Control Components has developed and qualified replacement components for the Canon® Satera LBP-3800-3700.

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.

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.

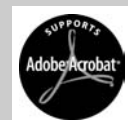**CARTRIDGE REMANUFACTURING INSTRUCTIONS FOR:**

CANON®
LBP 3800/3700

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

Purpose of this SSS

The purpose of this SSS is to provide you a guide and the basic information needed to remanufacture a Canon® LBP 3800/3700. 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:

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

For Basic Remanufacturing:

• Phillips Screwdriver

• Standard Flat-Blade Screwdriver

• Small-Tipped Flat-Blade Screwdriver

• Needlenose Pliers

• 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)

• Kynar® Lubricating Powder (KPOW)

• Squared Angled Knife Tool (SEKTOOL)

• Trough

The following table is summary of the Canon® LBP 3800/3700 cartridge specifications. This information was obtained from the OEM's web site and is considered to be the most up to date information at the time of printing.

Printer Information	Canon LBP 3800	Canon LBP 3700
Duplex	Manual	Manual
Connectivity	USB	USB
First page	9 seconds	9 seconds
Memory	24MB/ 248MB	24MB/ 248MB
Introduction Price (Street)	$1500	$1216
Engine Information		
Print Resolution (dpi)	1200 x 1200	1200 x 1200
Print Speed (pages per minute)	26	30
Duty Cycle (pages per month)	N/A	N/A

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. Remove Pins.

   a. Cut the sides of the support walls with a Squared Angled Knife Tool (SEKTOOL), see Figures 1a, 1b, 1c, 1d.

Pin not cut

Figure 1a

One Cut Made

Figure 1b

Pin

Figure 1c

Figure 1d

Cut the sides from around the Pin using an SEKTOOL.
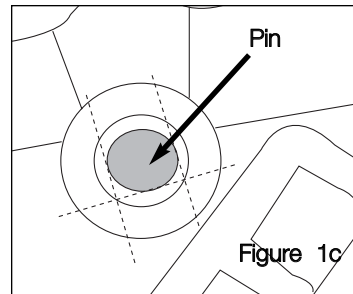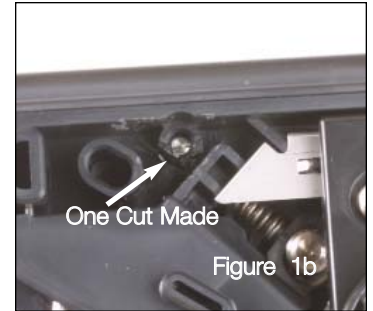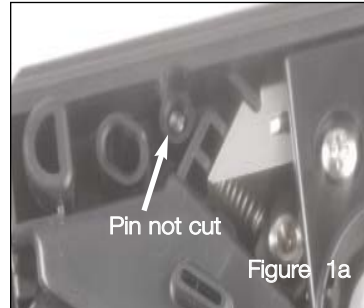
   b. Pull pins out with needlenose pliers, as shown in Figure 2.

Remove the Pins from each end of the cartridge

Figure 2

Remove the pins from the cartridge, using needlenose pliers.
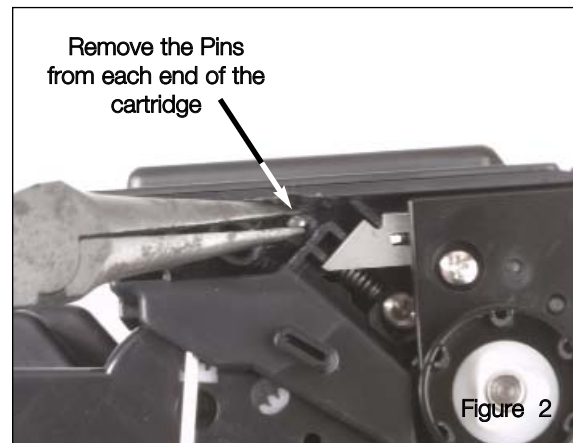
   c. Lift Waste Bin off of the Hopper, as shown in Figure 3.

Lift off the Waste Bin From the Toner Hopper

Figure 3
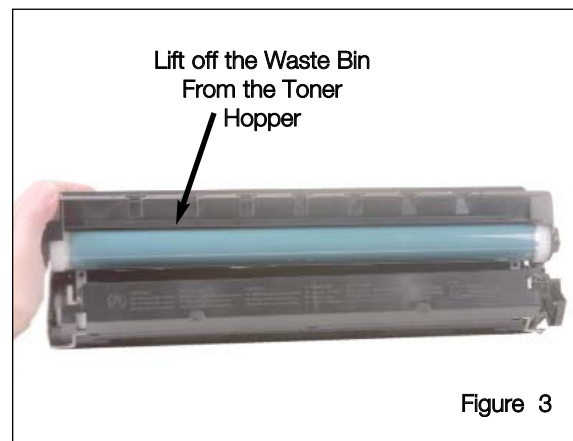
Separate the two sections.
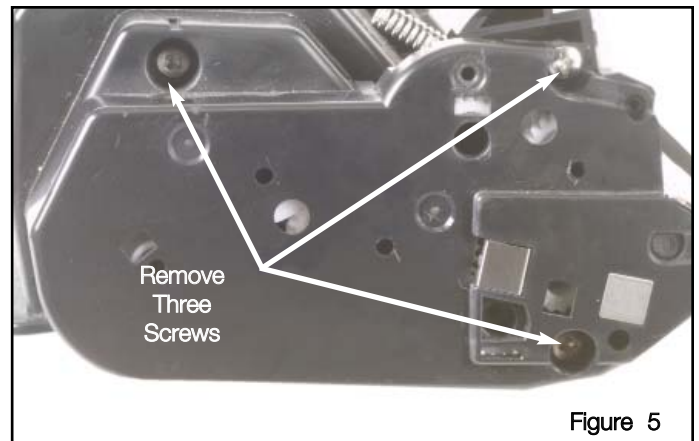
Disassembling the Toner Hopper Section

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 5. 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.

    a. Using a Hook Tool pull the spring over the latch, as shown in Figure 4a.

    b. Rotate the Drum Shutter arm, to remove them from the Hopper as shown in Figure 4b.

    c. Remove Contact Side Drum Shutter Arm, see Figure 4c.

Remove the Drum Shutter Actuator Arm and the Drum Shutter Arms.
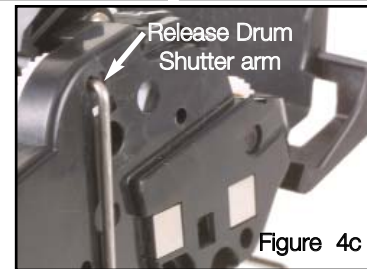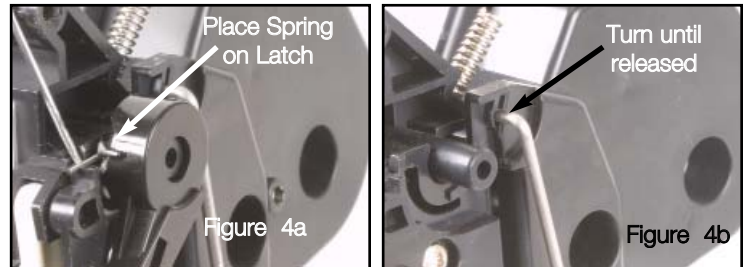
2. Remove the 3 screws from the Contact Side End Plate. Remove the Contact Side End Plate, see Figure 5.

*Remove three screws from Contact Side End Plate.*

3. Remove the 2 screws from the Mag End Plate, see Figure 6, and remove the Mag End Plate.
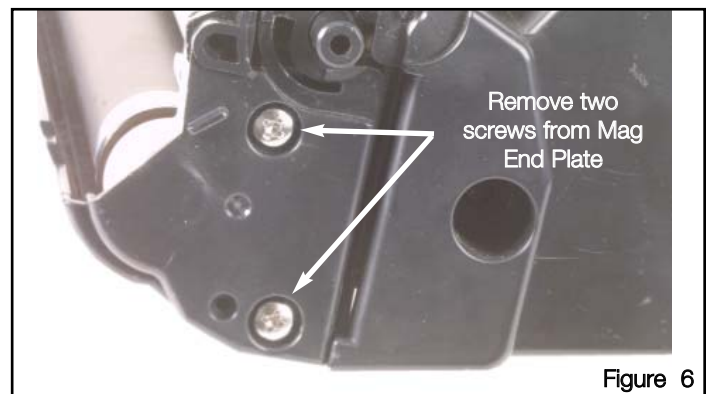
*Remove two screws from the Mag End Plate.*

Disassembling the Toner Hopper

4. Grasp the Mag Roller by the stabilizer bearings, and lift it out of the Hopper, as shown in Figure 7.

Remove Mag Roller Stabilizer

Lift Out Mag Roller by stabilizers
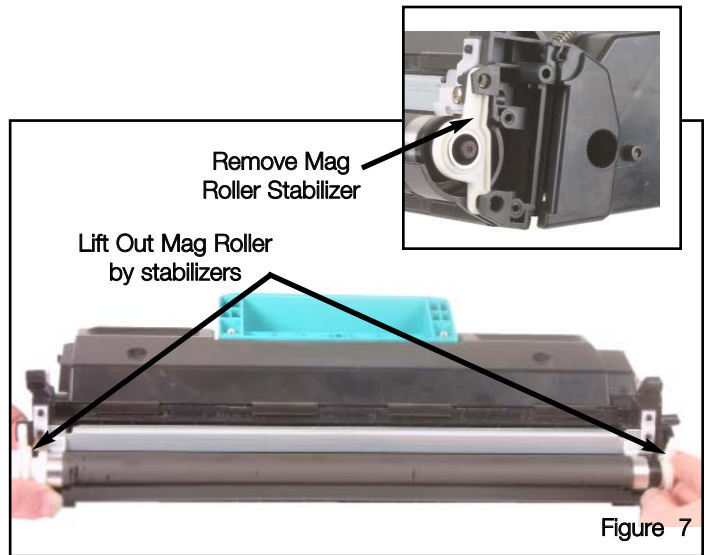
Figure 7

Lift out the Mag Roller by the Mag Roller Stabilizers.

5. Remove the Doctor Blade.

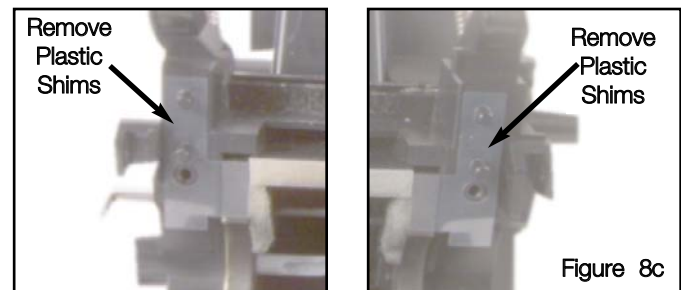 a. Remove the two screws that secure the Doctor Blade to the Hopper, as shown in Figure 8a.

Remove Screws
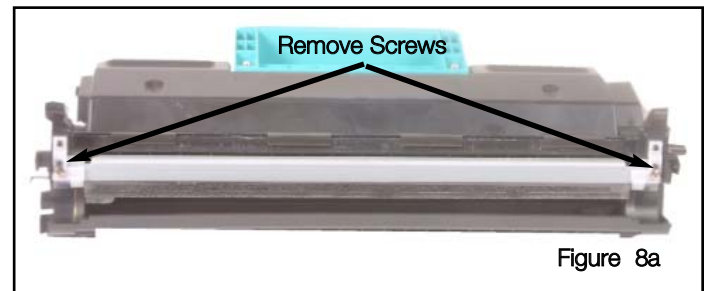
Figure 8a

 b. Carefully lift off the Mag Roller Wiper Tabs, as shown in figure 8b.

Lift off Mag Roller Wiper Tabs

Lift off Mag Roller Wiper Tabs
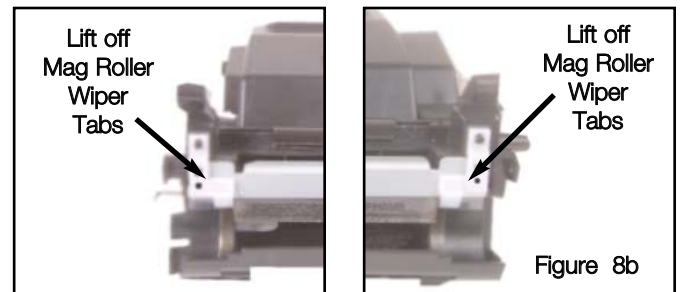
Figure 8b

 c. Lift out the Doctor Blade.

 d. Remove the plastic shims on the underside of the Doctor Blade., see Figure 8c

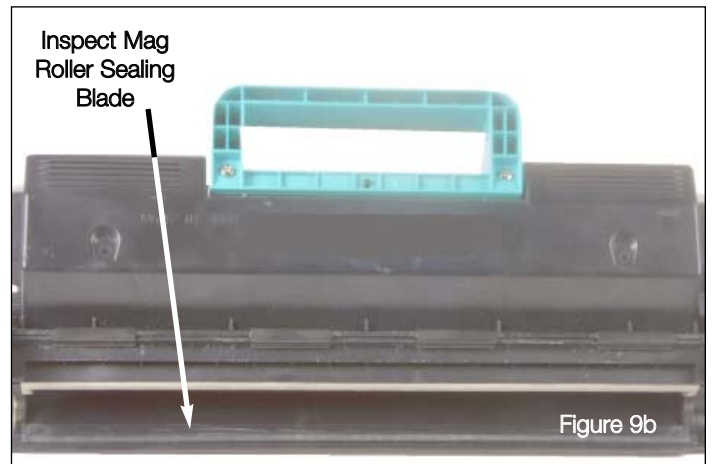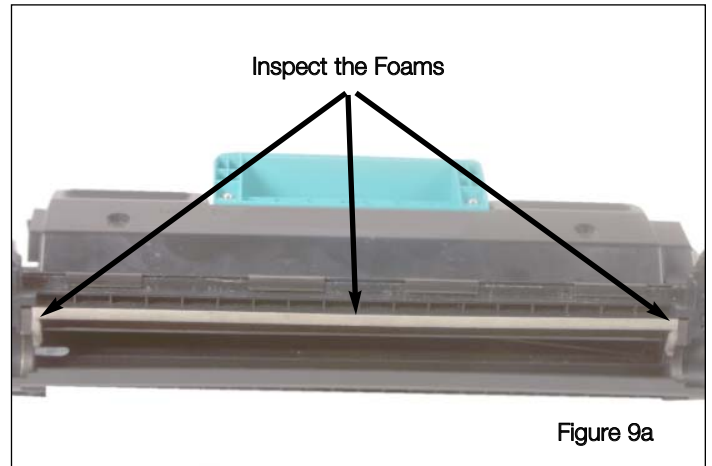Remove Plastic Shims

Remove Plastic Shims

Figure 8c

remove Doctor Blade, Mag Roller Wiper Tabs, and Plastic Shims.

6. Inspect the Foams and the Mag Roller Sealing Blade in the Hopper Section. Replace if necessary, see Figures 9a and 9b.

Inspect the Foams

Figure 9a

Inspect Mag Roller Sealing Blade

Figure 9b

This section provides the information needed to reassemble 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 5. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Fill the Hopper through the Mag opening.

Attach Plastic Shims

Attach Plastic Shims
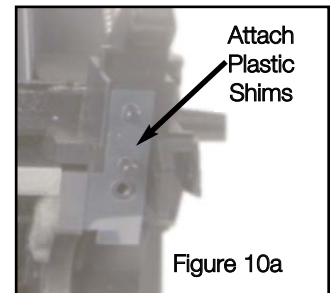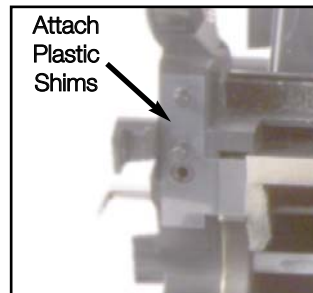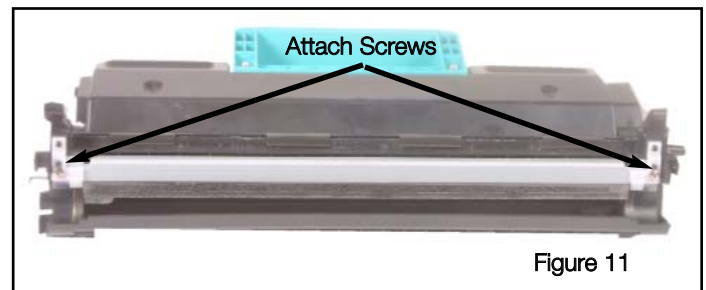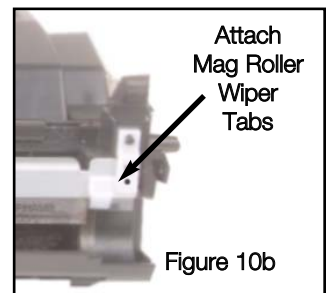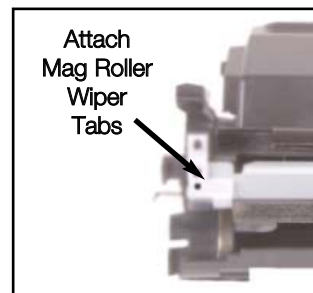
Figure 10a

2. Install the Doctor Blade.

    a. Attach the plastic shims to the Hopper, as shown in Figure 10a.

    b. Attach the Doctor Blade.

    c. Attach the Mag Roller Wiper Tabs, see Figure 10b and secure in the Hopper with two screws, see Figure 11.

Attach Mag Roller Wiper Tabs

Attach Mag Roller Wiper Tabs

Figure 10b

Attach Screws

Figure 11

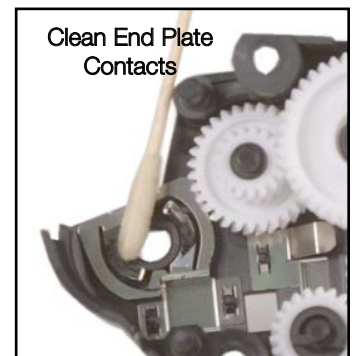*Install the Doctor Blade, Mag Roller Wiper Tabs, and Plastic Shims.*

3. Clean the old grease from the Mag Roller Contact and the Contact Side End Plate, using a cotton swab dampened with Isopropyl alcohol, as shown in Figure 12.

Note: Be sure to apply conductive lubricant to the Mag Roller Contact and the End Plate Contact.
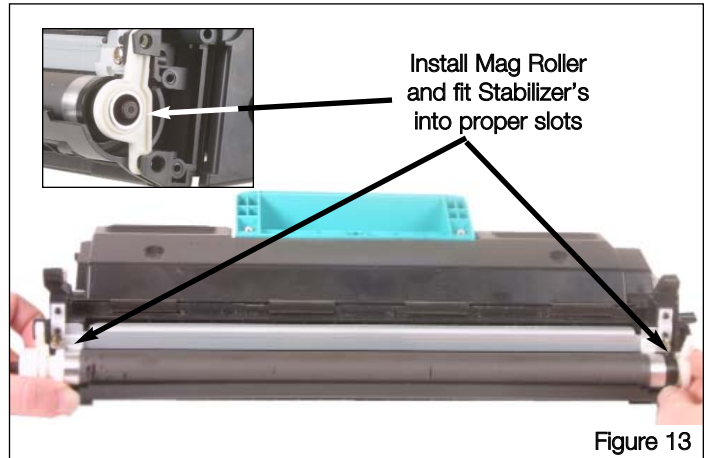

Clean End Plate Contacts

Mag Roller Contact
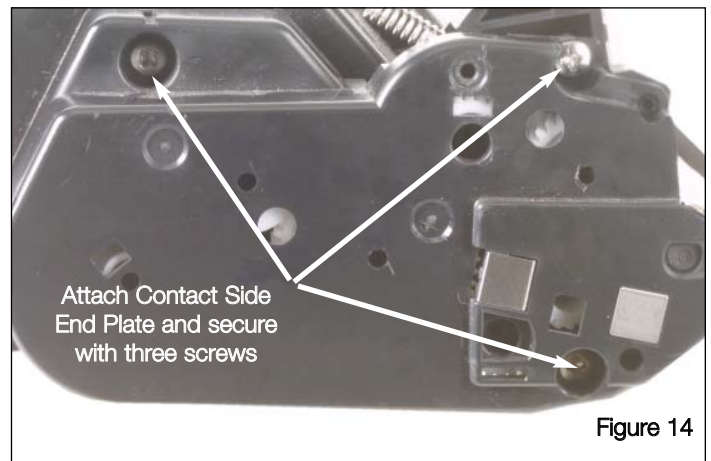
Figure 12

Clean the Mag Roller Contact and the End Plate Contact, with Isopropyl alcohol.

4. Install the Mag Roller, be sure to fit the stabilizer bearings back into the appropriate slot, see Figure 13 for placement.

Install Mag Roller and fit Stabilizer's into proper slots

Figure 13

Install the Mag Roller.

5. Attach the Contact Side End Plate to the Toner Hopper, and secure with three screws, as shown in Figure 14.

Attach Contact Side End Plate and secure with three screws

Figure 14

Attach Contact Side End Plate.

6. Attach the Mag End Plate to the Toner Hopper and secure with two screws, as shown in Figure 15.


Attach Mag End Plate and secure with two screws

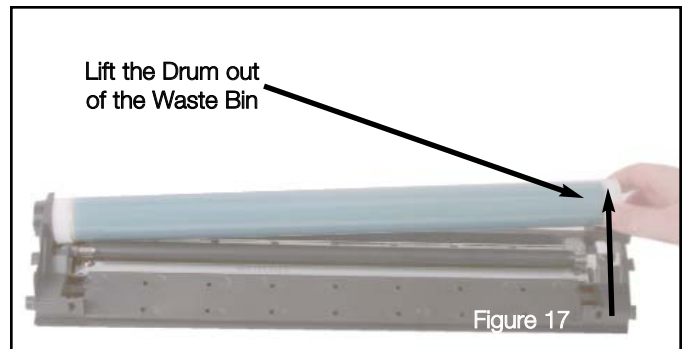Figure 15

Install the Mag End Plate.

This section provides the information needed to disassemble 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 5 for instructions. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Using needlenose pliers remove the drum axle from the Contact Side, as shown in Figure 16.

Remove the Drum Axle
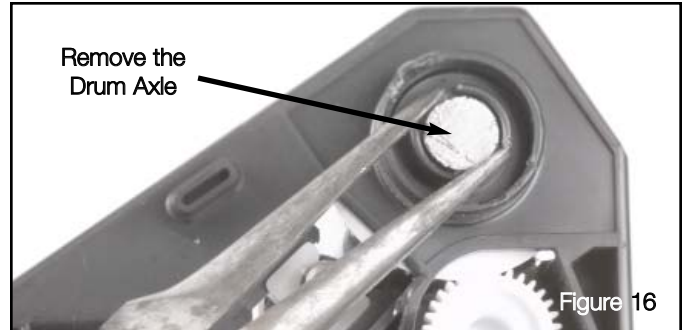
Figure 16

Remove the Drum Axle from the Waste Bin.

2. Lift the drum from the Waste Bin, as shown in Figure 17.

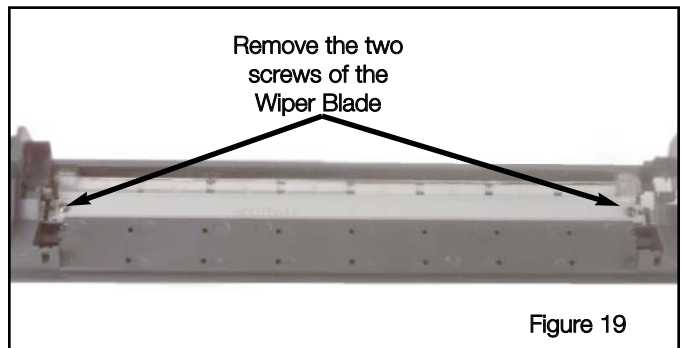Lift the Drum out of the Waste Bin

Figure 17

Remove the Drum from the Waste Bin.

3. Grasp the PCR by the metal shafts and lift it out of the Waste Bin, see Figure 18. Clean PCR with lint-free cloth dampened with water. Then place on a dry, lint-free cloth.
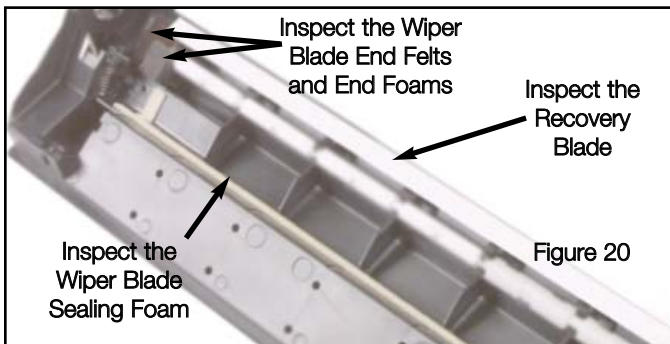
Lift PCR from the Waste Bin by the metal shafts
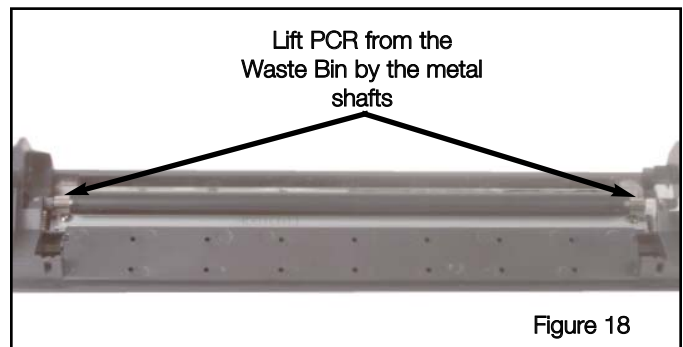
Figure 18

Remove the PCR from the Waste Bin.

4. Using a phillips screwdriver remove the two screws that secure the Wiper Blade into the Waste Bin; then, remove the Wiper Blade, as shown in Figure 19.

5. Clean with dry, filtered compressed air, then inspect the Felts, Foams, and Recovery Blade in the Waste Bin, and replace if necessary, see Figure 20 below.

Inspect the Wiper Blade End Felts and End Foams

Inspect the Recovery Blade

Inspect the Wiper Blade Sealing Foam

Figure 20

Remove the two screws of the Wiper Blade

Figure 19

*Remove the Wiper Blade from the Waste Bin.*

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 5 for instructions. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.

1. Dip the working edge of the Wiper Blade in to a trough of Kynar™ Powder and tap the metal stamping with a small screwdriver to remove any excess Kynar™. Install the Wiper Blade into the Waste Bin and secure with two screws, as shown in Figure 21.

Replace the Wiper Blade and secure with two screws
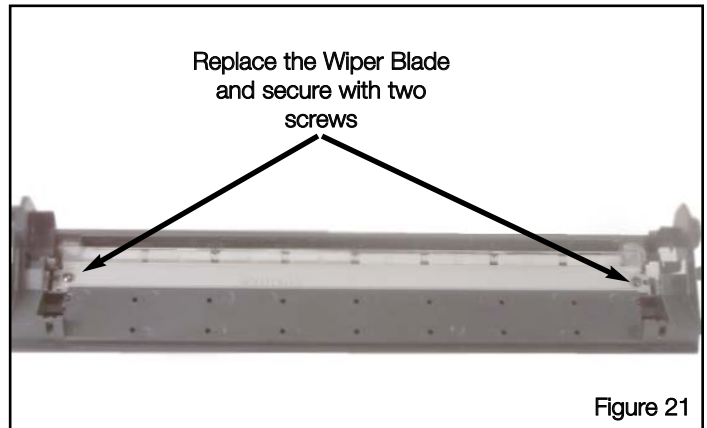
Figure 21

Install the Wiper Blade in to the Waste Bin.

2. Lubricate the black PCR saddle with conductive lube, then install the PCR into the PCR saddles, as shown in Figure 22.

Replace the PCR in to the Waste Bin and secure in the PCR saddles
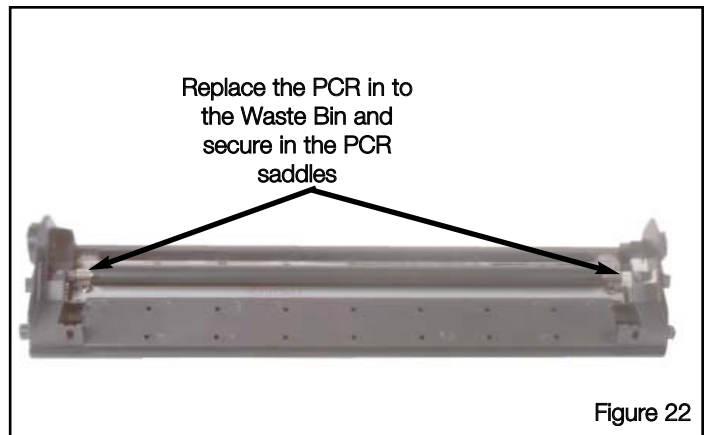
Figure 22

Replace the PCR in to the Waste Bin.

3. Install the Drum into the Waste Bin, and secure with the Drum Axle, see Figure 23.

Install the Drum in to the Waste Bin
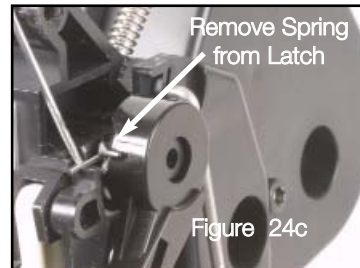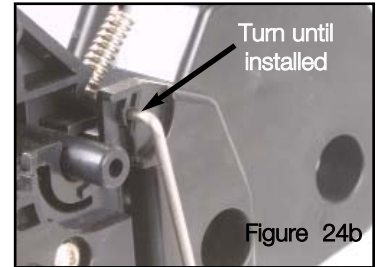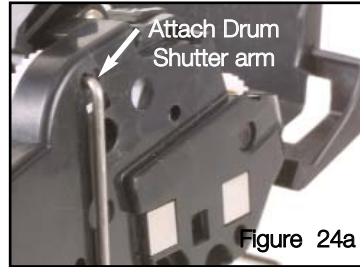
Figure 23

Install the drum into the Waste Bin and secure with the Drum Axle.

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 5 for instructions. Before attempting to perform the following procedures, read the entire section carefully. Ensure that you follow all necessary safety precautions.
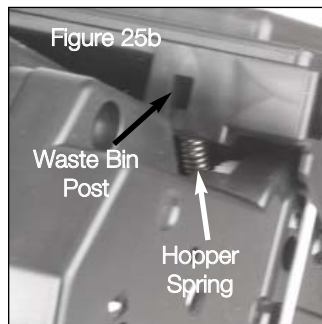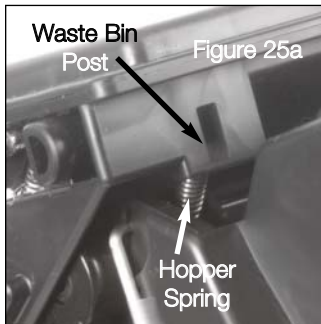
1. Attach the Drum Shutter.

   a. Attach Contact Side Drum Shutter Arm, see Figure 24a.

   b. Rotate the Drum Shutter arm, to attach to the Hopper as shown in Figure 24b.

   c. Using a Hook Tool pull the spring off the latch, and return to original position as shown in Figure 24c.

Attach Drum Shutter arm

Figure 24a

Turn until installed

Figure 24b

Remove Spring from Latch

Figure 24c

Attach the Drum Shutter Actuator Arm and the Drum Shutter Suppor Arms.

2. Fit the Waste Bin on top of the Toner Hopper, as shown in Figure 24. Then secure the sections together using 5K pins, as shown in Figure 24.

Note: Be sure the springs on the Hopper fit onto the posts of the Waste Bin, see Figures 25a and 25b below.

Waste Bin Post Figure 25a

Hopper Spring

Figure 25b

Waste Bin Post

Hopper Spring

Fit the Waste Bin on top of the Hopper Section.

Figure 24

Fit the Waste Bin on top of the Hopper and secure using the 5K pins.

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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