REMANUFACTURING INSTRUCTIONS

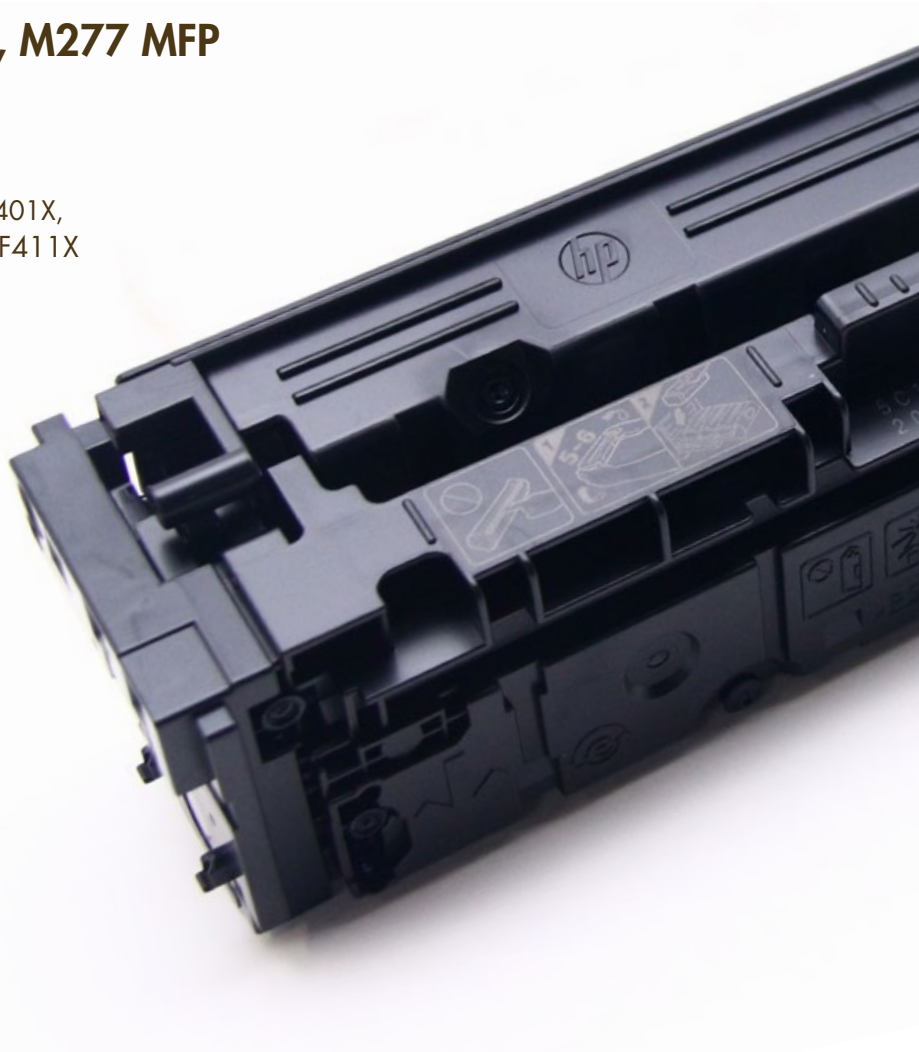
SSS™ 4833

V 3.1: 6-17

HP® Color LaserJet® M252 Printer, M277 MFP
Pro® M452, M477 MFP

HP®

CF400A, CF401A, CF402A, CF403A, CF400X, CF401X,
CF402X, CF403X, CF410A, CF410X, CF411A, CF411X
CF412A, CF412X, CF413A, CF413X



CONTENTS

Static Control®
www.scc-inc.com

- Small Slotted Screwdriver
- Side Cutters
- Angle-Blade Knife Tool (ABKTOOL)
- Cartridge Pry Tool - Angled (PRYTOOL-2)
- Lint-Free Cloth (LFCCLOTH)
- Lint-Free Foam Tip Swab (LFSWAB)
- Cartridge Lubricant (LUBE44)
- Silicon Rubber Adhesive (SILADH)
- Hot Glue Gun (GLUEGUN)
- Hot Glue Stick (GLUESTICK)
- Syringe
- Syringe Tip (CSS-75)
- Small Binder Clips
- Split Hopper Sealant Loctite 5510 Black - Teroson
- Doctor Blade Shim (HM252DRBSHIM)
- Phillips Screwdriver


Small Slotted Screwdriver


Side Cutters


Angle-Blade Knife Tool (ABKTOOL)


Cartridge Pry Tool - Angled (PRYTOOL-2)


Lint-Free Cloth (LFCCLOTH)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Syringe


Syringe Tip (CSS-75)

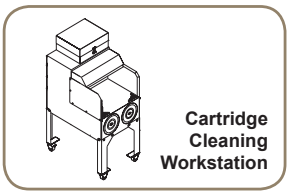

Small Binder Clips

Split Hopper Sealant Loctite 5510 Black - Teroson

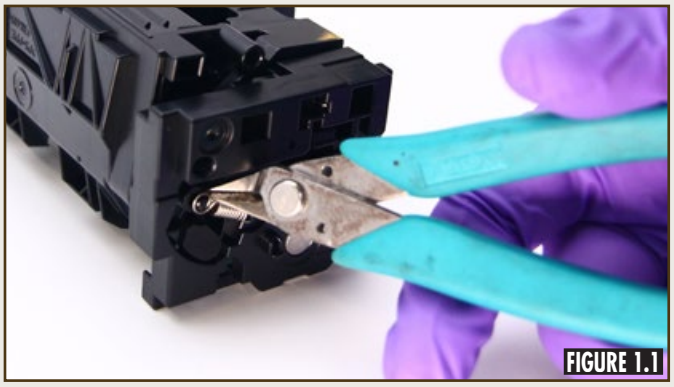

Doctor Blade Shim (HM252DRBSHIM)


Phillips Screwdriver

- 91-99% Isopropyl Alcohol
- Deionized Water
- Rubber Gloves
- Safety Glasses
- Toner Pour Spout (TPS)
- Cartridge Cleaning Workstation
- Dry, Filtered, Ionized Compressed Air
- Vacuum

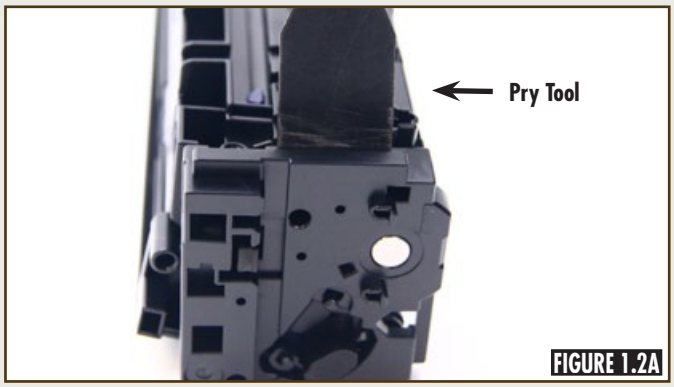


STEP 1.1



Using side cutters, remove the spring located on the contact side of the cartridge, as shown in Figure 1.1.

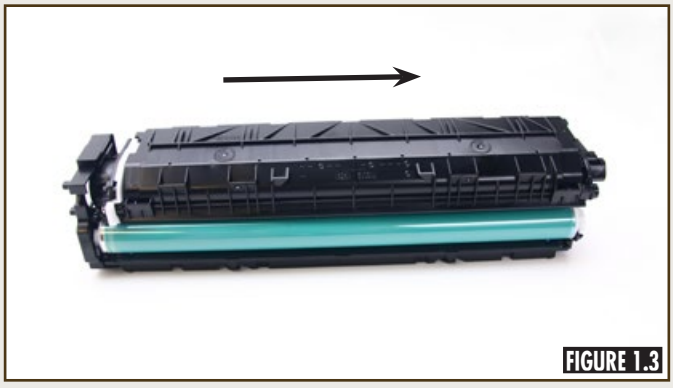
STEP 1.2A



Pry the contact end plate in the area shown to break the welded material using the cartridge pry tool. This end plate will be replaced later in the process (Figures 1.2A and 1.2B).

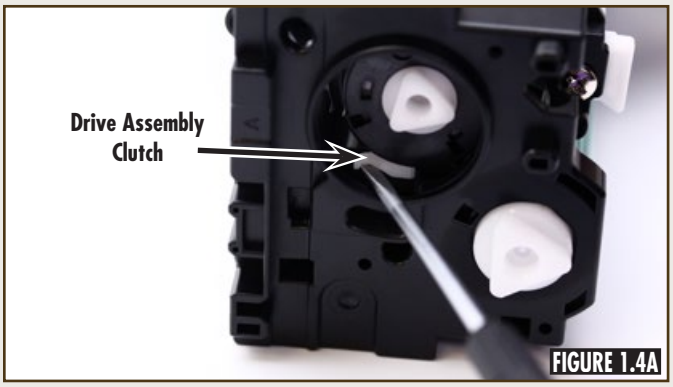
STEP 1.2B

STEP 1.3



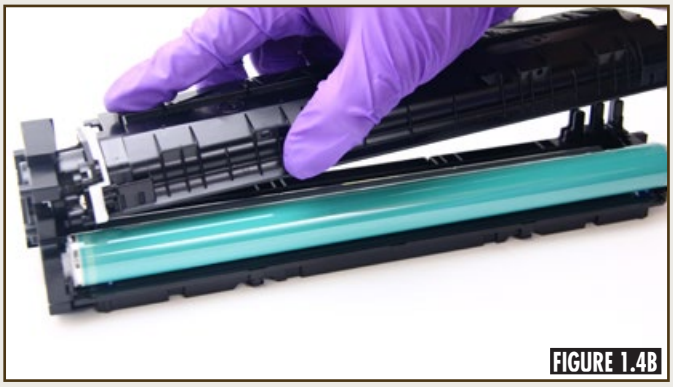
Shift the hopper section toward the contact side of the cartridge (Figure 1.3).

STEP 1.4A



Using a small slotted screwdriver, lift on the drive assembly clutch, as shown in Figure 1.4A. Then lift the hopper section from the waste bin section, as shown in Figure 1.4B

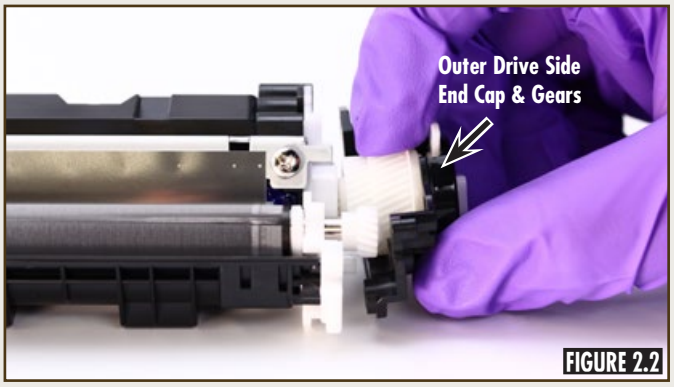
STEP 1.4B



STEP 2.1

Remove the two screws from the outer drive side end cap shown in Figure 2.1.

STEP 2.2



Remove the outer drive side end cap and outer drive side gears shown in Figure 2.2.

STEP 2.3A

Remove the inner drive side end cap and inner drive side gears (Figures 2.3A, 2.3B, and 2.3C).

STEP 2.3B

STEP 2.3C

STEP 2.4A


FIGURE 2.4A

Remove the developer roller (Figure 2.4A) and discard the OEM shipping lock (Figure 2.4B).

Note: The OEM shipping lock will not be reused.

STEP 2.4B

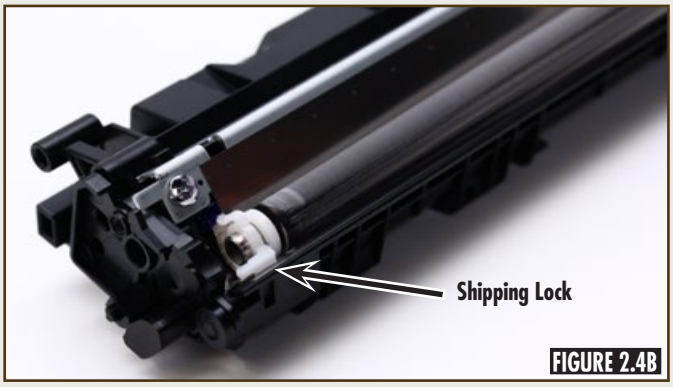


FIGURE 2.4B

STEP 2.5A


FIGURE 2.5A

Remove the two screws from the doctor blade (Figure 2.5A) and remove the doctor blade (Figure 2.5B).

Note: The screw located on the contact side of the doctor blade uses a left hand thread and must be turned to the right to loosen.

STEP 2.5B

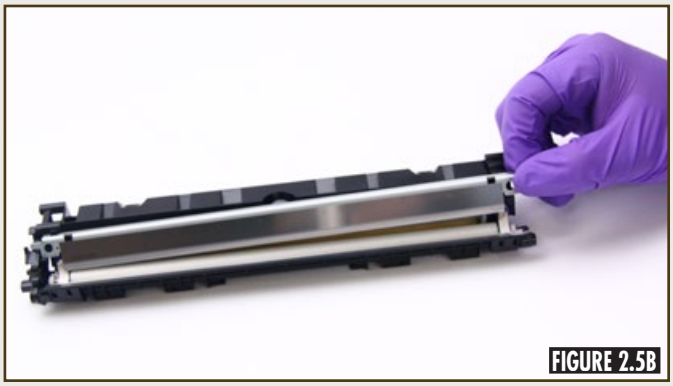


FIGURE 2.5B

STEP 2.6

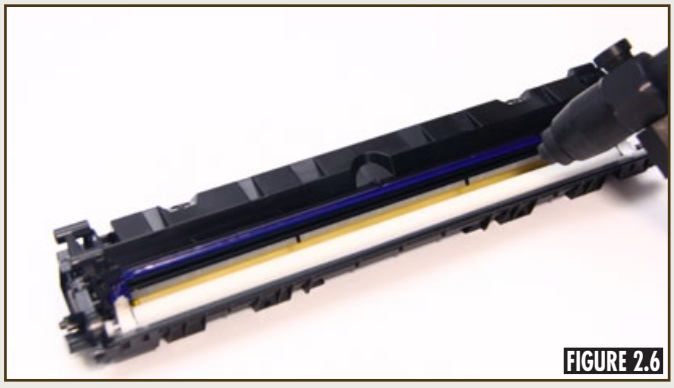


FIGURE 2.6

Blow the bulk toner clean from the hopper, as shown in Figure 2.6.

STEP 2.7


FIGURE 2.7

Using a lint-free cloth damped with deionized water, clean the developer roller (Figure 2.7). Blow the developer roller dry using dry, filtered, ionized compressed air.

STEP 2.8

Using a lint-free swab damped with isopropyl alcohol, clean the working edge of the doctor blade, as shown in Figure 2.8.

STEP 2.9

Wipe the working edge of the doctor blade with a lint-free cloth dampened with deionized water to remove the residual isopropyl alcohol (Figure 2.9). Blow the doctor blade dry using dry, filtered, ionized compressed air.

Note: This section is for customers that chose to install the Static Control Cartridge Sealing Toner Pack. Customers that are filling through the front of the cartridge may skip to Hopper Reassembly - Section 4.

STEP 3.1

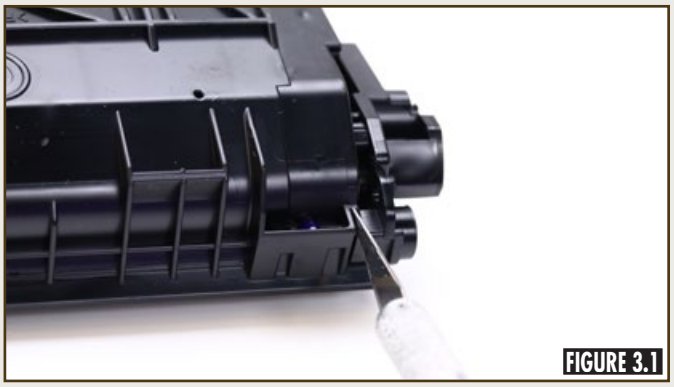


FIGURE 3.1

Using the angle-blade knife tool, cut through the support post attached to the contact end cap as shown in Figure 3.1.

STEP 3.2

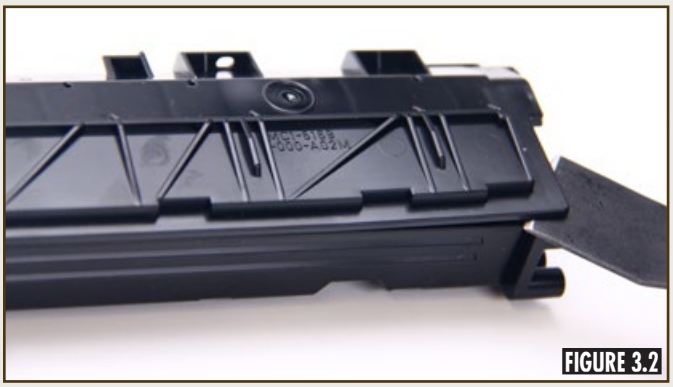


FIGURE 3.2

Using the cartridge pry tool and starting at the corner, pry the hopper cover away from the base section as shown in Figure 3.2.

STEP 3.3

FIGURE 3.3

Pull apart the hopper cover from the hopper base, as shown in Figure 3.3.

STEP 3.4A

FIGURE 3.4A

Remove the toner agitator bar and bag material from the hopper base (Figures 3.4A and 3.4B).

STEP 3.4B

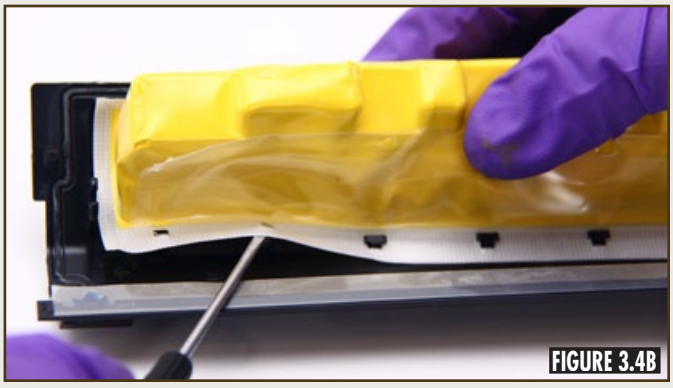
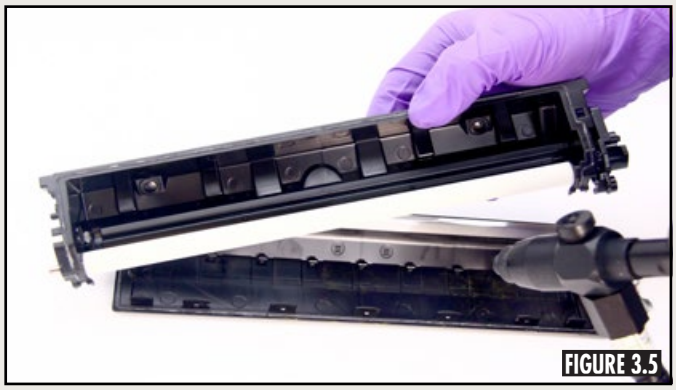


FIGURE 3.4B

STEP 3.5

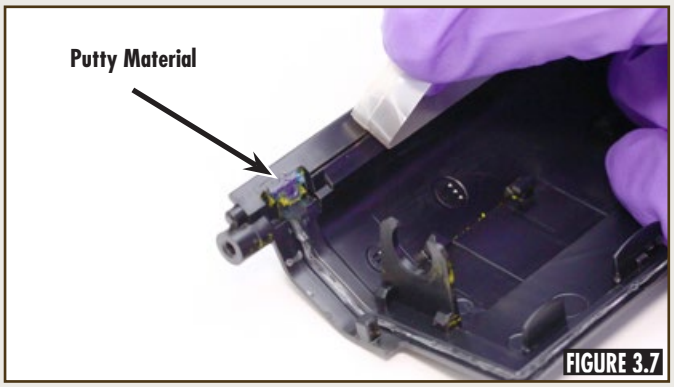


Blow both sides clean using dry, filtered, ionized compressed air, as shown in Figure 3.5.

STEP 3.6

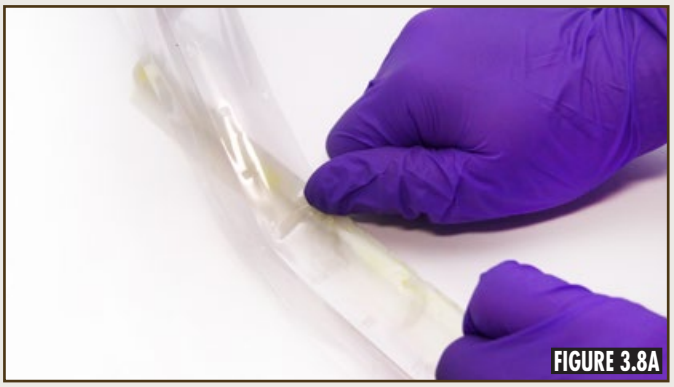
Vacuum clean the toner adder roller in the hopper cover, as shown in Figure 3.6.

STEP 3.7



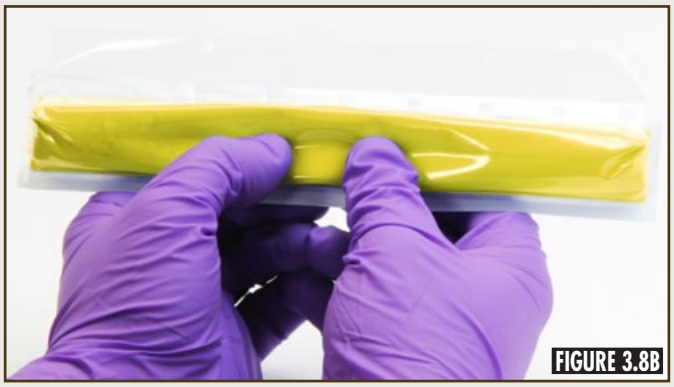
Remove the developer roller sealing blade and putty material, as shown in Figure 3.7.

STEP 3.8A



Remove the residual bag seal pull film from the toner agitator bar, as shown in Figure 3.8A.

STEP 3.8B



Gently massage toner bag before installation, as shown in Figure 3.8B.

Note: Handle with care, some dusting may be seen.

STEP 3.9

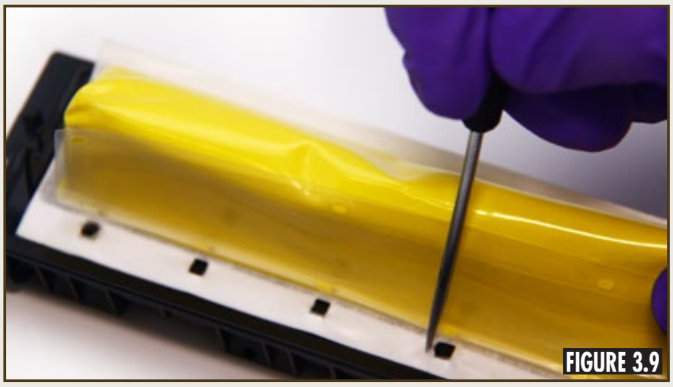


FIGURE 3.9

Install the replacement bag seal by attaching the white backer material to the base section, shown in Figure 3.9.

Note: Do not attach the pull film material to the base section.

STEP 3.10

FIGURE 3.10

Attach the bag seal pull film material to the toner agitator bar, shown in Figure 3.10.

STEP 3.11A

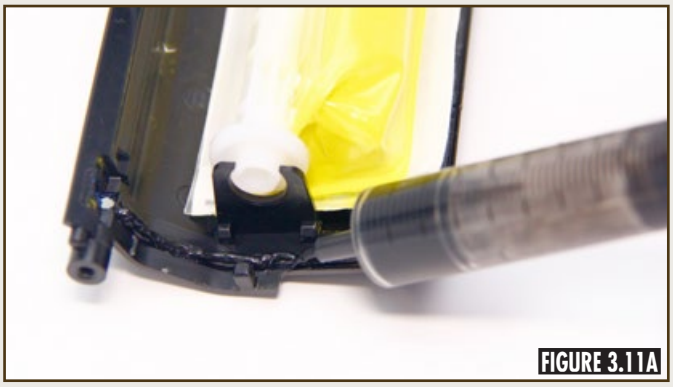


FIGURE 3.11A

Apply split hopper sealant around the perimeter of the base section and attach the hopper cover (Figures 3.11A and 3.11B).

STEP 3.11B

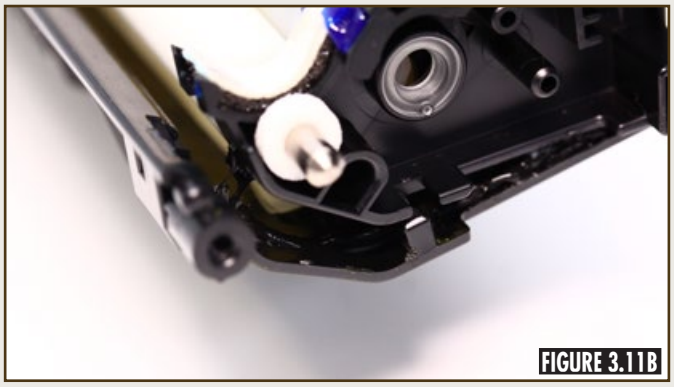


FIGURE 3.11B

STEP 3.12

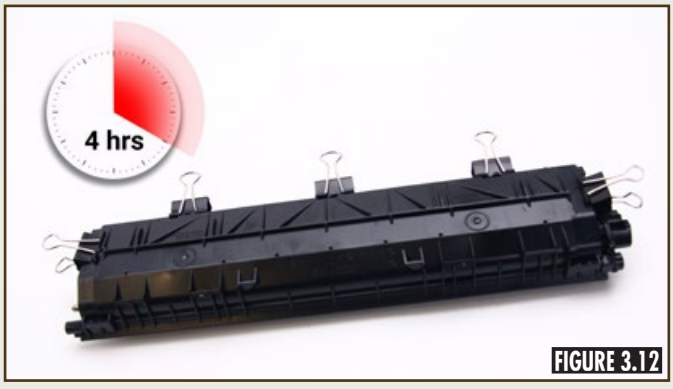


FIGURE 3.12

Attach binder clips to the perimeter to apply pressure and allow sealant to cure for four hours (Figure 3.12).

STEP 3.13

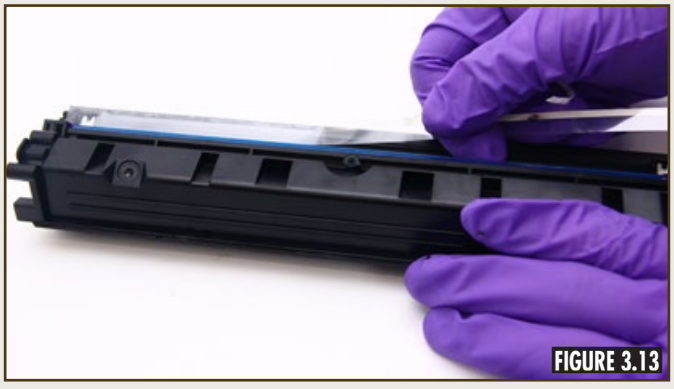
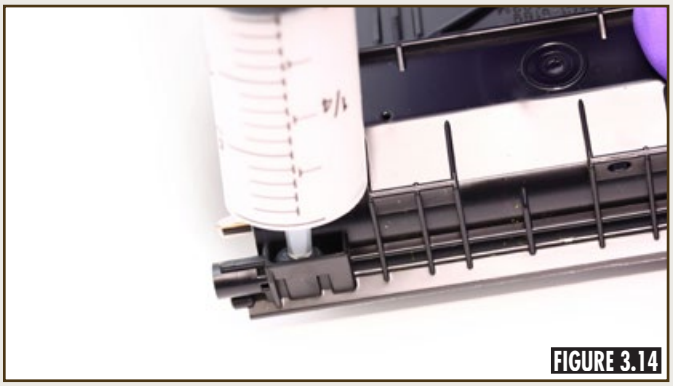


FIGURE 3.13

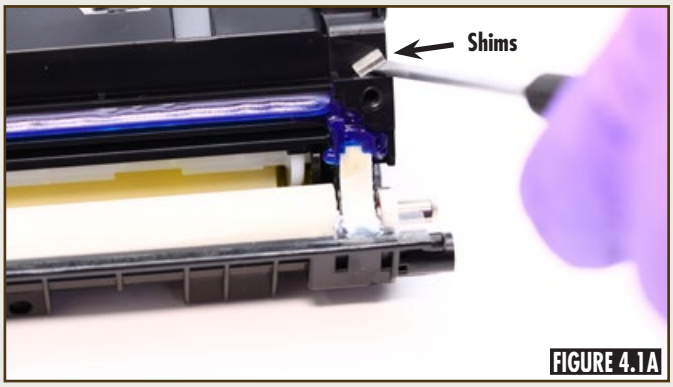
Install a replacement developer roller sealing blade as shown in Figure 3.13.

STEP 3.14



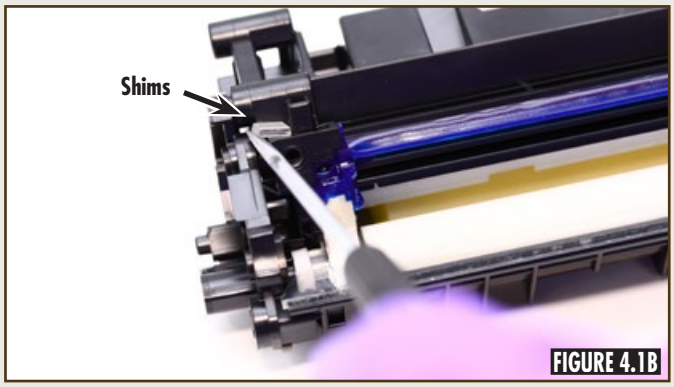
Turn over the hopper section and using a syringe, apply silicon rubber adhesive materials in the two cavities located on the hopper (Figure 3.14).

STEP 4.1A

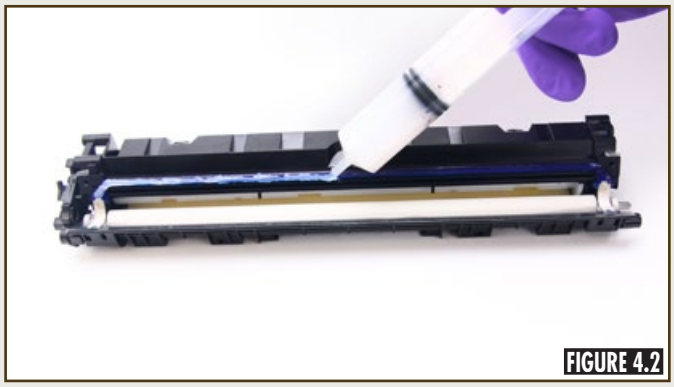


Remove the paper backing from the doctor blade shims and install them onto the hopper section (Figures 4.1A and 4.1B).

STEP 4.1B



STEP 4.2

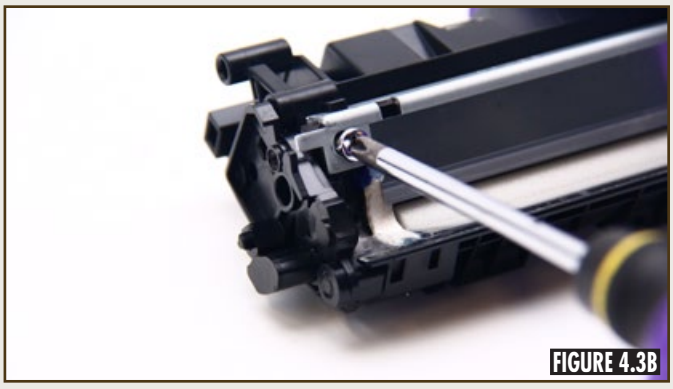


Using a syringe, apply silicon rubber adhesive material where the doctor blade will be installed, as shown in Figure 4.2.

STEP 4.3A

Install the doctor blade and secure with two screws (Figures 4.3A and 4.3B).

STEP 4.3B



Note: The contact side of the doctor blade requires a left hand threaded screw and requires being turned to the left to tighten.

STEP 4.4

Allow the silicon rubber adhesive material to cure for a minimum of five minutes.

Note: It is recommended to clean and assemble the waste bin (Sections 5 and 6) while the hopper cures. Return to Step 4.5 when completed.

STEP 4.5

FIGURE 4.5

Slide the developer roller into the hopper (Figure 4.5).

Note: Do not reinstall the OEM shipping lock when installing the developer roller into the hopper.

STEP 4.6A

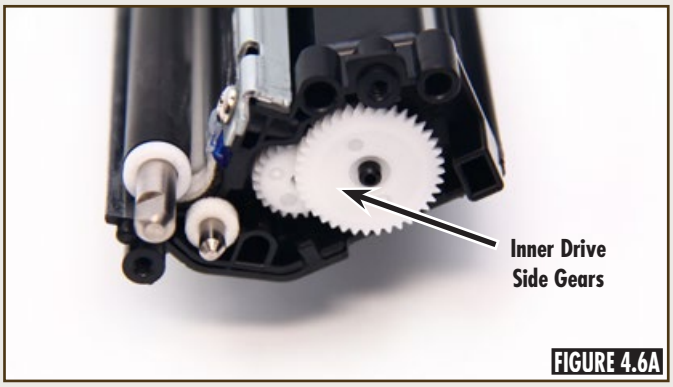


FIGURE 4.6A

Install the inner gear set and inner drive side end cap (Figures 4.6A and 4.6B).

STEP 4.6B

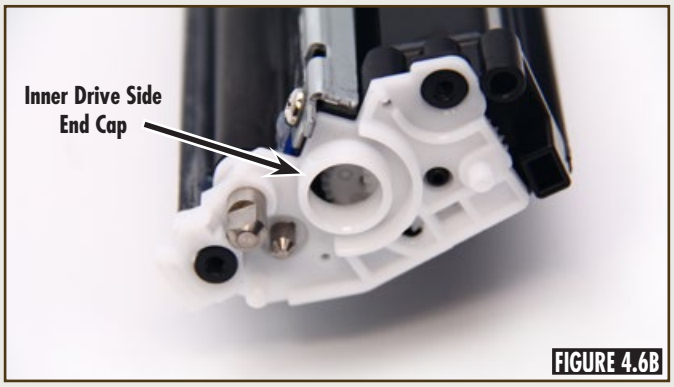


FIGURE 4.6B

STEP 4.7A

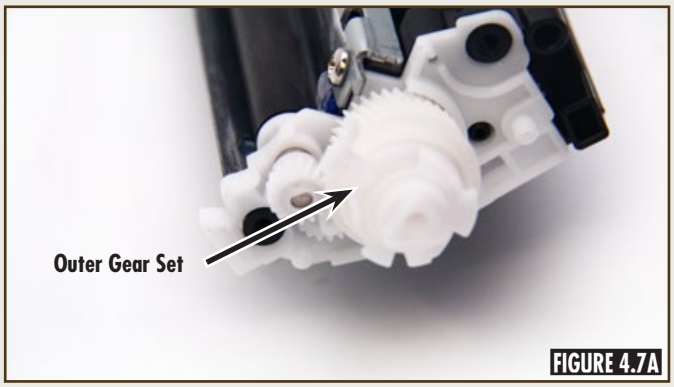


FIGURE 4.7A

Install the outer gear set and the outer drive side end cap. The outer drive side end cap is secured with two screws (Figures 4.7A and 4.7B).

STEP 4.7B

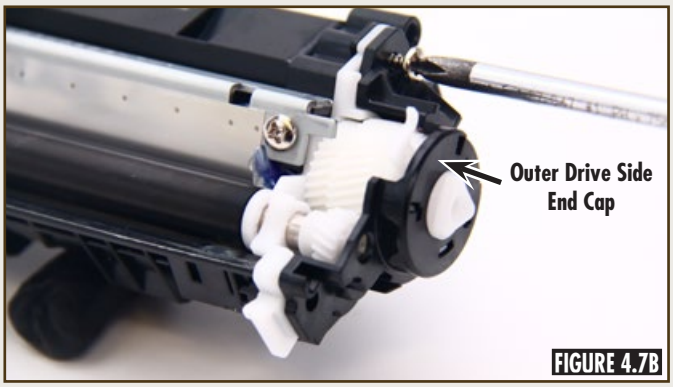


FIGURE 4.7B

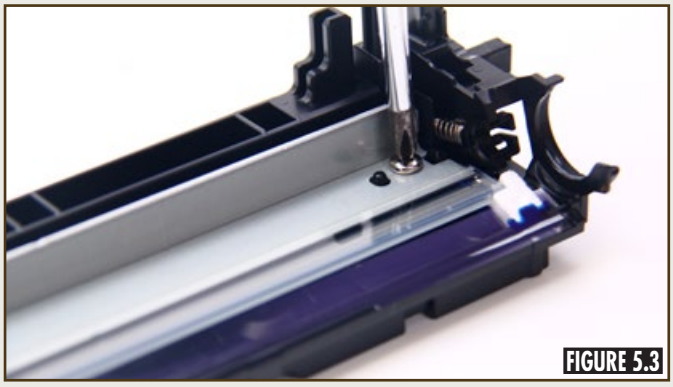
STEP 5.1

Remove the drum from the waste bin, as shown in Figure 5.1.

STEP 5.2

Remove the PCR from the waste bin, as shown in Figure 5.2.

STEP 5.3

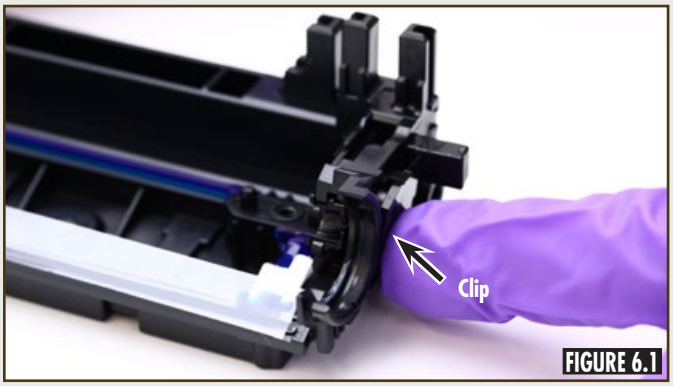


Remove the two screws that secure the wiper blade (Figure 5.3) and then remove the wiper blade.

STEP 5.4

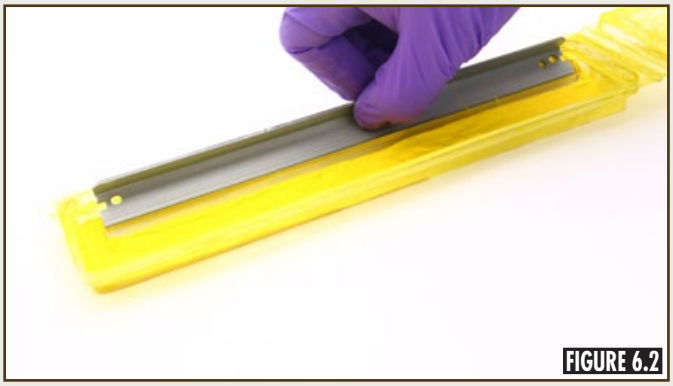
Blow the waste bin clean using dry, filtered, ionized compressed air (Figure 5.4).

STEP 6.1



Install the clip that is packaged with the replacement contact end plate, as shown in Figure 6.1.

STEP 6.2



Lubricate the working edge of the wiper blade with yellow toner, as shown in Figure 6.2.

STEP 6.3

Install the wiper blade and secure with two screws (Figure 6.3).

STEP 6.4A

Using a lint-free cloth damped with deionized water, clean the PCR. Blow the PCR dry using dry, filtered, ionized compressed air (Figures 6.4A and 6.4B).

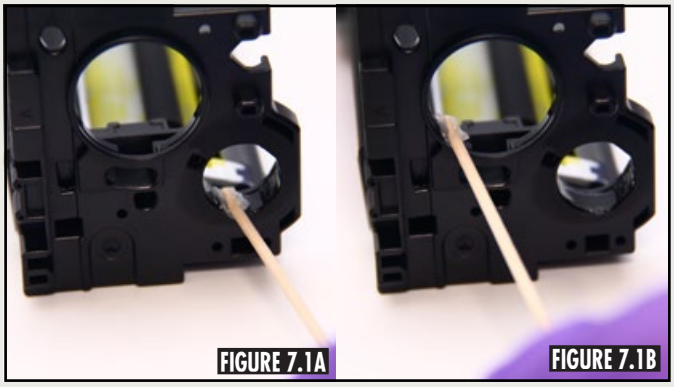
STEP 6.4B

STEP 6.5


FIGURE 6.5

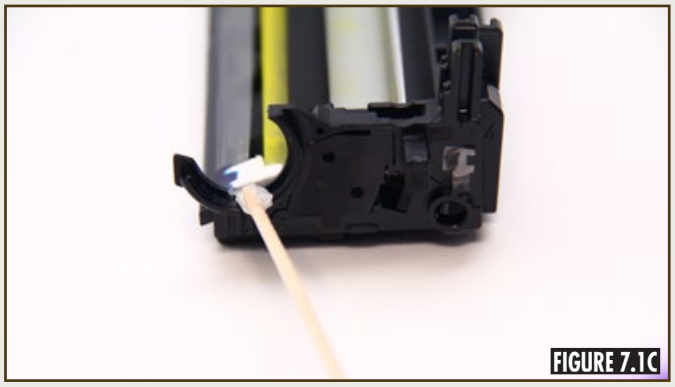
Install the PCR into the waste bin, as shown in Figure 6.5.

STEP 7.1

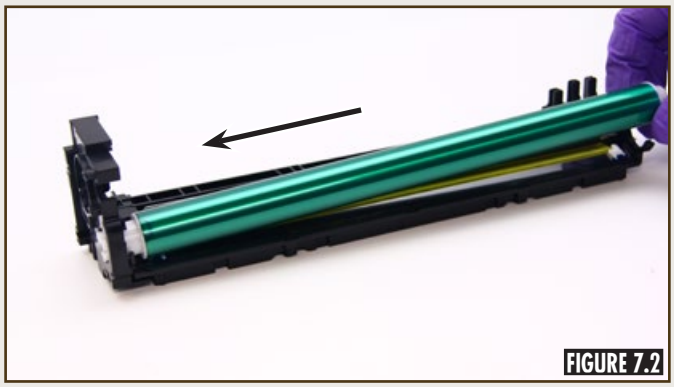


Apply cartridge lubricant in areas shown (Figures 7.1A, 7.1B, and 7.1C).

STEP 7.1



STEP 7.2

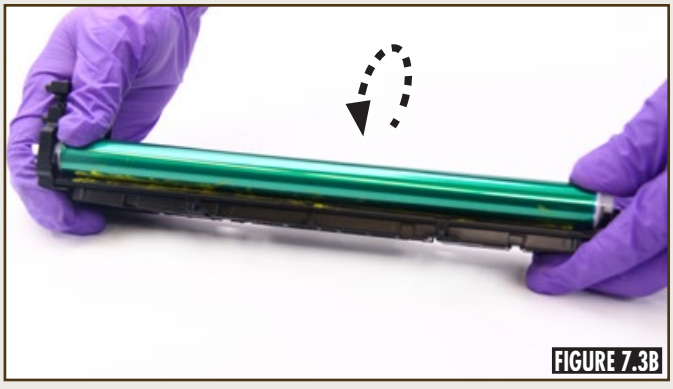


Slide the drum into the waste bin shown in Figure 7.2.

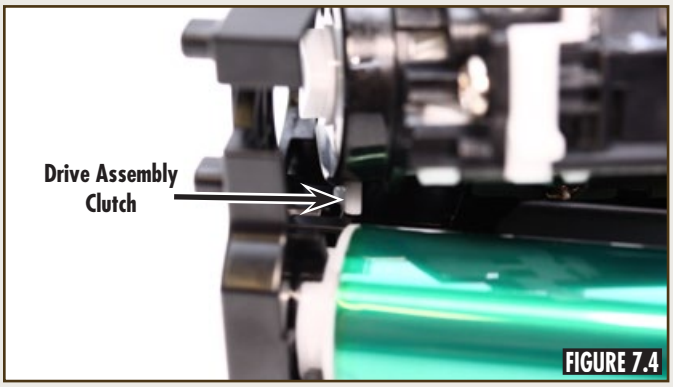
STEP 7.3A

Using a lint-free swab, apply a fine layer of yellow toner (Figure 7.3A) directly to the crevice between the drum and the recovery blade. Rotate the drum toward the wiper blade (Figure 7.3B) until the surface is clean.

STEP 7.3B

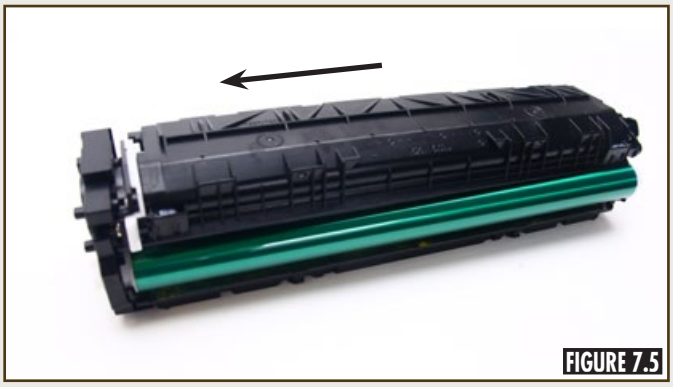


STEP 7.4



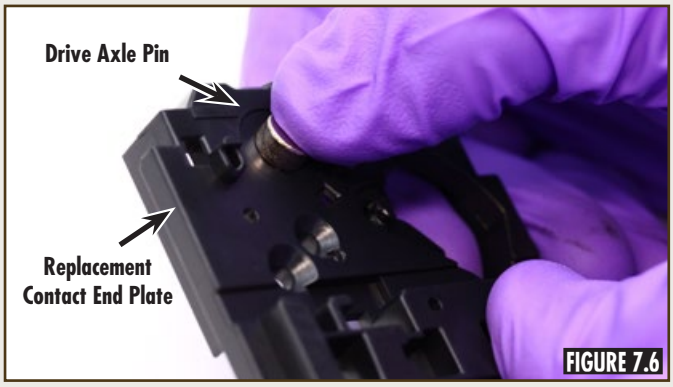
Slide the hopper section into the waste bin by aligning the drive assembly clutch into the space shown in Figure 7.4.

STEP 7.5



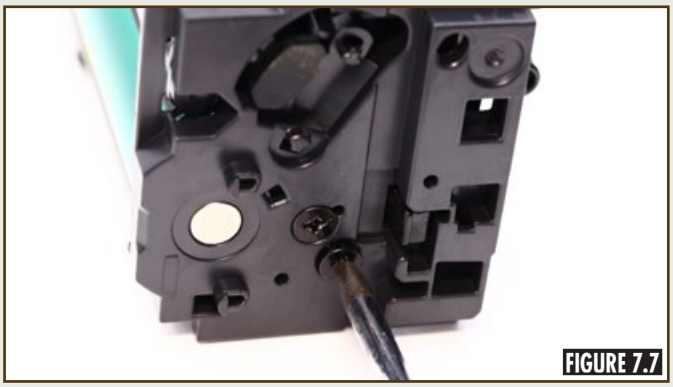
Press the hopper section into the drive side end plate (Figure 7.5).

STEP 7.6



Remove the drum axle pin from the OEM contact side end plate and place into the replacement contact side end plate shown in Figure 7.6.

STEP 7.7



Install the replacement contact side end plate and secure the two short screws provided (Figure 7.7).

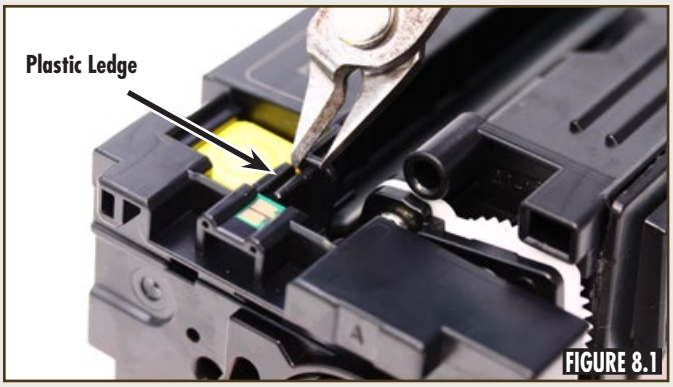
STEP 7.8

Using side cutters, install the spring onto the contact side, as shown in Figure 7.8.

STEP 7.9

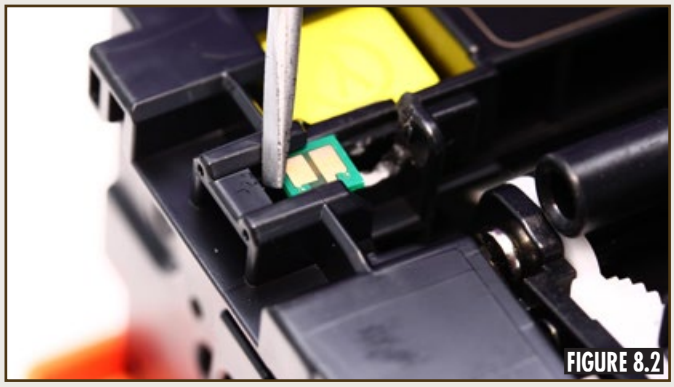
Squeeze the hopper section and waste bin together shown in Figure 7.9 to install the shipping protector.

STEP 8.1



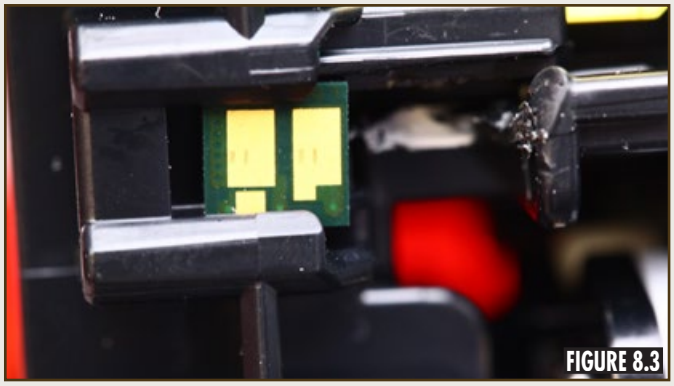
Using side cutters, trim away the plastic ledge shown in Figure 8.1.

STEP 8.2



Remove the spent chip from the cartridge, as shown in Figure 8.2.

STEP 8.3



Correctly align and insert the replacement chip onto the cartridge shown in Figure 8.3.

Note: The replacement chip must be correctly aligned to ensure proper functionality. Incorrect alignment will result in errors.

STEP 8.4

Secure the replacement chip using black hot glue shown in Figure 8.4.

DEDICATION TO TRAINING

In order to produce consistent high quality prints that are virtually indistinguishable from the OEM, it is essential to follow Static Control's remanufacturing instructions exactly as directed. Static Control is dedicated to informing customers of the latest innovations in training and knowledge. Access to these instructions, our technical support staff and View on Demand Webinars is available to all customers in good standing.

ELECTROPHOTOGRAPHICALLY MATCHED COMPONENTS

We provide these critical components that have been electrophotographically matched for use in remanufactured toner cartridges. It is vital that the critical components be replaced as a system to ensure consistent high quality performance. We provide additional components such as felts, foams and recovery blades, should you decide they are necessary. Using Static Control's system of components allows you to use less expensive non-virgin cartridges and create remanufactured cartridges that provide high quality prints virtually indistinguishable from the OEM.

INDUSTRY LEADER

Static Control is the global leader in aftermarket imaging and remanufacturing technology. Offices are located worldwide and all research, development, manufacturing and engineering takes place at their Sanford, North Carolina, USA world headquarters. Currently, Static Control manufactures in-house over 10,000 imaging products and supplies over 14,000 imaging products to the aftermarket industry.

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