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Hewlett Packard® LaserJet® 4100 (HP4100) Remanufacturing Instructions



Printer Availability

The HP4100 printer was officially released March 21, 2001. List Price for the HP4100 is \$1099, \$1579 for the HP4100N, \$1829 for the HP4100TN, and \$2099 for the HP4100TDN, as of July 2001.

Similarities and Differences

The HP4100 and the HP4000/4050 printers are similar in size, shape and footprint. There are two cartridges with the same capacity as the HP4000--a high and a low yield. The 4100 cartridge is backward compatible to the HP4000/4050. The HP4000/4050 cannot be used in the HP4100.

Smart Chip

The most talked about feature on the HP4100 is the chip. This is a smart chip design that sends and receives signals to and from the printer controller via radio frequency. The chip stores information such as manufacturing dates,

serial numbers, and provides information to be printed out on the supplies page. In addition, toner low and toner out conditions are sent to and stored in the chip. If the cartridge is remanufactured after "toner low" or "toner out" the printer detects and sends a message to the control panel that "Non HP toner cartridge is detected." Printing continues, but toner low or toner out conditions are no longer indicated on the printer's control panel.

Toner

The HP4100 OEM toner is a conventional, pulverized magnetic formulation. As we reported earlier, existing aftermarket HP4000 toners are not suitable for use in the HP4100. Static Control has found, in prolonged testing, reductions in yield ranging from 20 - 35% on aftermarket HP4000 toners when used in the HP4100. Static Control is currently developing a toner solution.

Boost Yield with HP4100 Mag Roller Bushings

To boost yield, Static Control has developed HP4100 mag roller bushings*, enabling you to increase toner yield when used with our HP4000 toner. Static's bushing solution sacrifices approximately 2% of density for dramatic improvements in yield by slightly expanding the development gap. With Static Control's new specially developed HP4100 mag roller bushings, remanufacturers can now realize a 20% improvement in yield compared to using OEM mag roller bushings.

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Engine Information

Engine Name	LaserJet® 4100/N/TN/DTN	
Date of U.S. Printer Introduction	March 21, 2001	
Print Speed (pages per minute)	25 ppm	
Duty Cycle	150,000 pages per month	
Print Resolution (dpi)	1200 x 1200 dpi	

Cartridge Information

Part Number	C8061A Standard Yield	C8061X High Yield
Cartridge List Price*	\$144.00	\$185.00
Typical Cartridge Wholesale Price*	\$82.00	\$105.00

*Prices as of March 2001

* Patent applied for.

Drum

The geared drum is not interchangeable between the HP4000 and HP4100 due to variations in the number of teeth on the helical gear. Static is developing a geared drum solution. Additional testing on the drum characteristics is currently underway.

Print Speed and Duty Cycle

The print speed is greatly increased in the HP4100 at 25 ppm with the first page out in 12 seconds, creating a higher cartridge consumption rate. These printers will make a huge impact on the office environment with the duty cycle being more than doubled at 150,000 a month compared to the HP4000 at 65,000 a month.

Splitting/Sealing

A major difference in these cartridges is found in the sealing technology. The toner seal is a foil type with the pull tab. The foil enables a continuity check that alerts the printer to display a message on the control panel if the toner seal has not been pulled. SCC is developing both a foam type and a rigid type seal.

The unique design of the HP4100 cartridge (welding and screw bosses on the hopper) will require unique splitting and sealing solutions. In addition, rails are in development specifically for the HP4100 due to cartridge contours and features. Sealing/splitting solutions and related products are currently under development. Contact your SCC support team for product information, ordering and technical support services.

Chip Technology

If the chip is left on a remanufactured cartridge, the unit will continue to display a "toner low" message. Options on the control panel will allow you to bypass this message. However, there will not be any warning when toner is low or out. If the chip is removed from a remanufactured cartridge, the printer will sense this and display the "non HP toner" message. In addition, the "toner low" message will not be displayed.

Hopper Cap

The hopper cap is very difficult to remove. Static is developing a tool and replacement cap solution which will be available soon.

Doctor Blade and PCR

OEM blades appear to be similar to the HP4000. Testing has confirmed that the OEM components are interchangeable with the HP4000/4100 silicon blades.

Mag Roller

The HP4100 mag roller contacts are designed differently than the HP4000.

Critical Issues

- HP4100 cartridge backwards compatible to HP4000/4050
- HP4100 cartridge utilizes a non-contact chip
- HP4000 toner is not suitable for HP4100 application
- Wiper blade stamping is different from the HP4000.
- Cartridge pin configuration is unique. SCC has developed a pin removal tool (HP41PRTOOL).

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.

Use of Isopropyl Alcohol

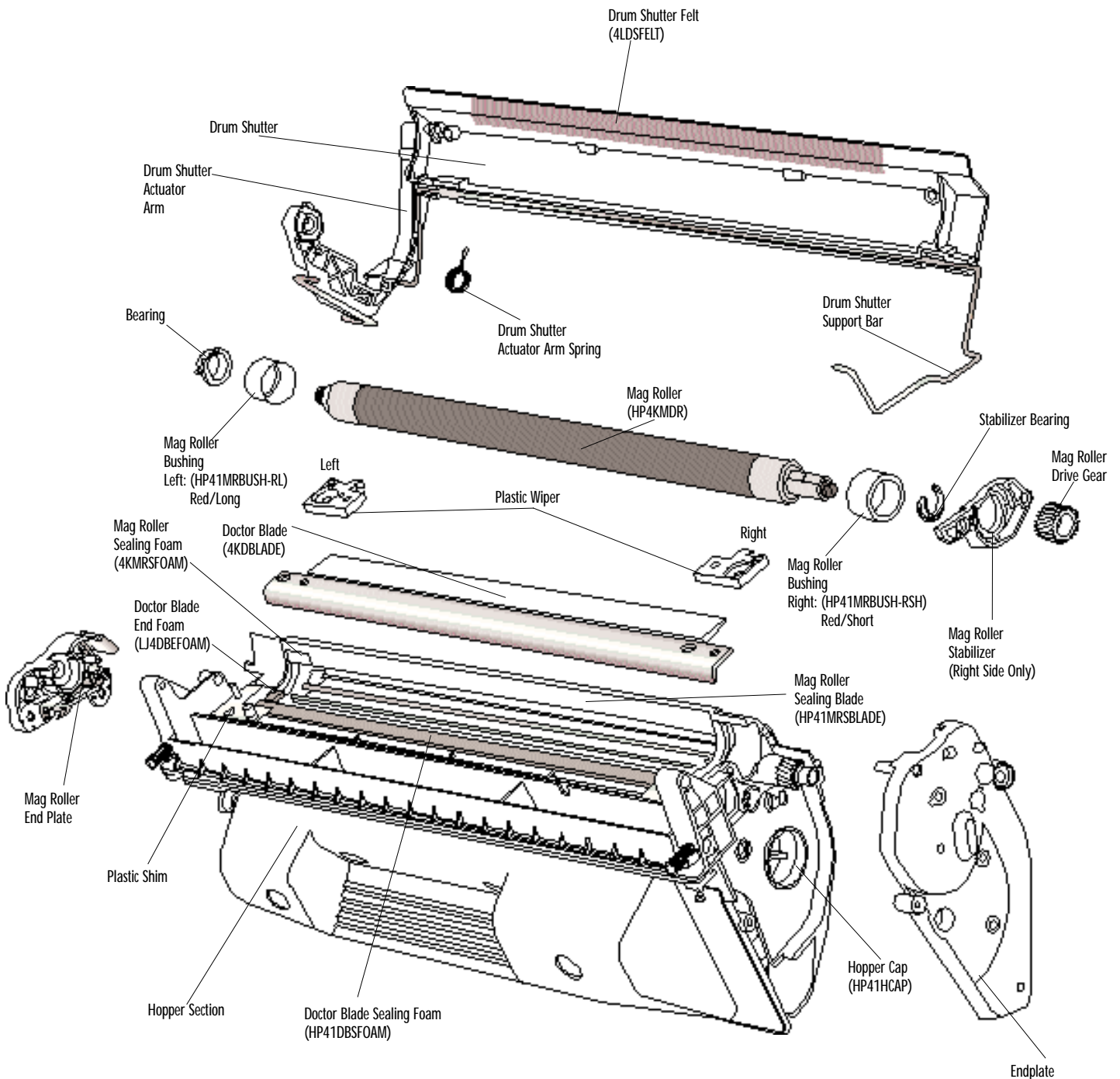
For best results, we recommend using ONLY 91-99% for cleaning as directed in these instructions. 91% Isopropyl alcohol is available at most major drug stores; 99% Isopropyl alcohol is available through distributors of chemical products. Follow the alcohol manufacturer's safety instructions.

Tools and Supplies You Will Need

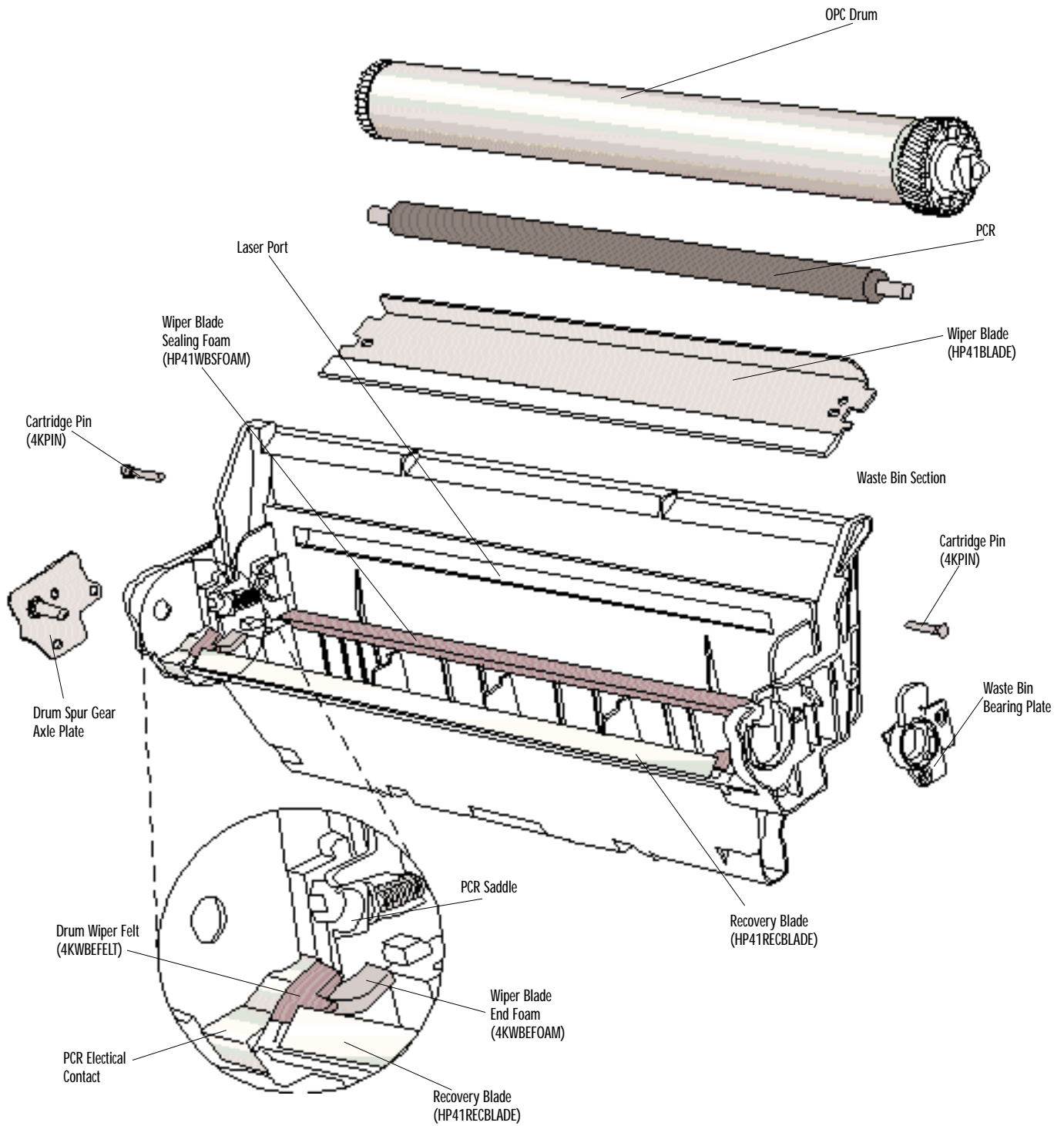
For Basic Remanufacturing:

- Phillips Screwdriver
- Standard Flat-Blade Screwdriver
- Small-Tipped Flat-Blade Screwdriver
- Needlenose Pliers
- Funnel for Toner Bottle
- Compressed Air for Cleaning(See above)
- 91-99% Isopropyl Alcohol(See above)
- Lint-Free Foam Tip SwabLFSWAB
- Lint-Free Cleaning ClothLFCCLOTH
- Cotton SwabQTIP
- Conductive Cartridge LubricantCONCLUBE
- Kynar® Lubricating PowderKPOW
- Shallow Trough for Dipping the Wiper Blade
- SCC HP4100 Pin Removal ToolHP41PRTOOL
- HP4000 Cartridge Pins4KPIN
- Plexiglass Hopper Fixture4KHJIG
- Plexiglass Hopper Fixture4KPRJIG

HP4100 Toner Unit



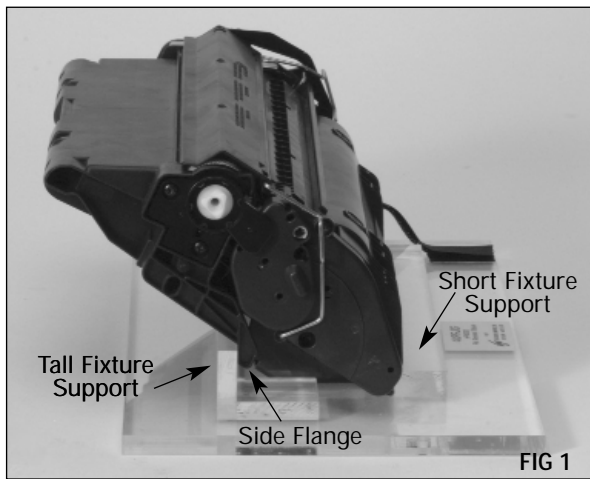
HP4100 Waste Bin Unit



Disassembly of the Toner Cartridge

1. Place the cartridge in the plexiglass holding fixture. The Cartridge Holding Fixture (4KPRJIG) is specially designed to facilitate removing the drum and cartridge pins from the HP4100 cartridge.

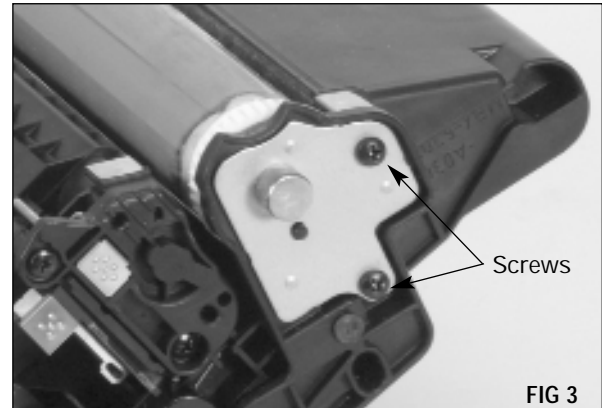
Place the cartridge in the fixture with the drum shutter face up as shown (FIG 1). Note that the side flange on the waste bin should rest against the tall fixture support. The flange on the bottom of the hopper should rest against the short fixture support.



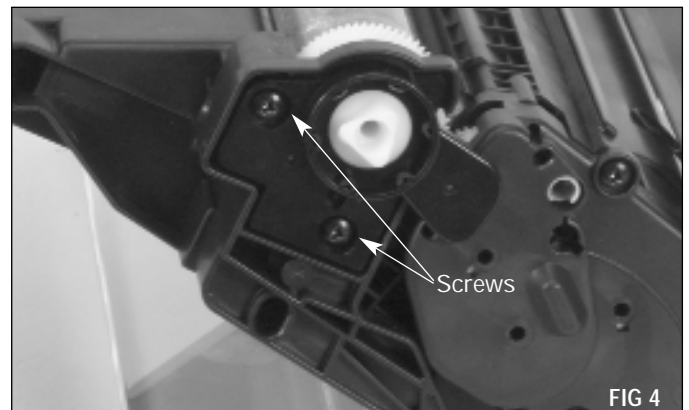
2. Pull the drum shutter back to its "open" position. Secure the drum shutter actuator arm to the fixture, using the Velcro™ strap, to keep the drum shutter out of your way while you remove the drum and PCR (FIG 2).



3. Remove the drum spur gear axle. The drum spur gear axle is located adjacent to the drum spur gear. Remove the two screws that secure the axle, then remove the axle (FIG 3).



4. Remove the waste bin bearing plate. The bearing plate (black in color) is located adjacent to the drum helical gear. Remove the two screws that secure the bearing (FIG 4).

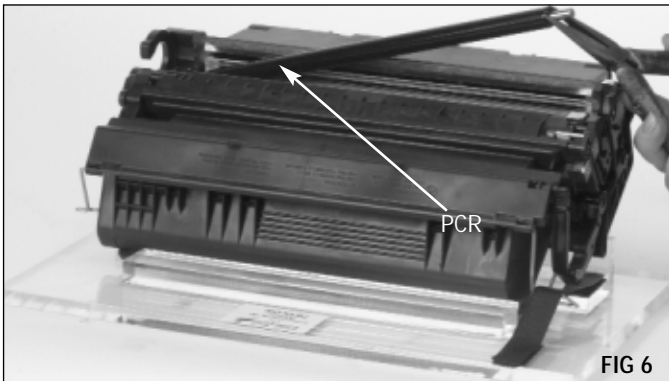


5. Remove the drum. Grasp the drum by the spur gear, shift the drum to the drive gear side of the cartridge, and lift the drum from the cartridge (FIG 5).
Caution: Be careful not to damage the recovery blade.



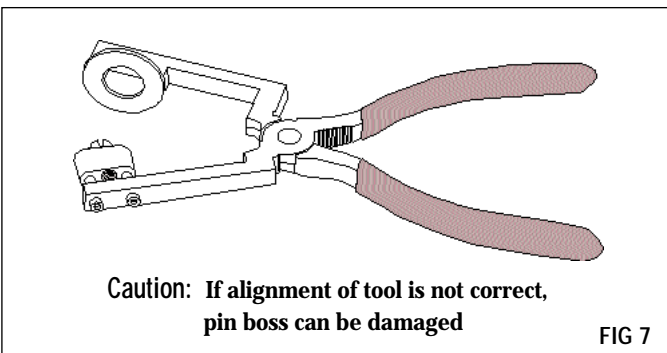
NOTE: Once the drum is removed from the cartridge, the surface of the mag roller is exposed. Take extreme caution not to touch or scratch the mag roller when removing the cartridge pins and separating the cartridge. For added protection against damage, place a clean, Lint-Free Cloth (LFCLOTH) over the mag roller.

6. Remove the Primary Charge Roller (PCR). Use a pair of needlenose pliers to grasp the PCR shaft (FIG 6) and lift the PCR from the cartridge. Handle the PCR by the axle or use clean latex gloves. If you plan to reuse the PCR, store it in an upright orientation.

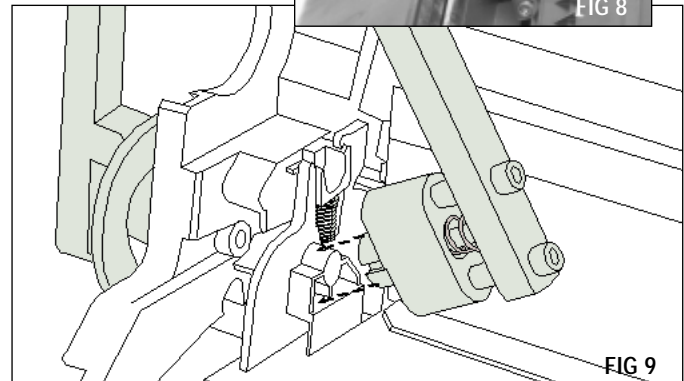


NOTE: Do not stack PCRs, lay anything on top of them, wrap them with rubber bands or touch the surface of the PCR with your bare fingers.

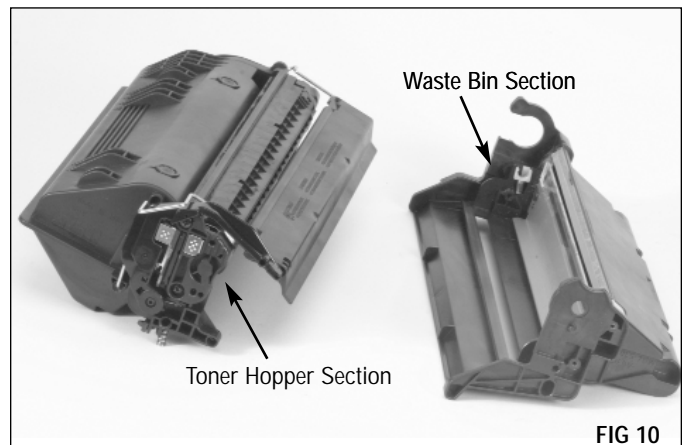
7. Remove the cartridge pins. The OEM cartridge pin is installed completely into the cartridge casing, preventing easy removal from the exterior of the cartridge. Furthermore, a step incorporated into the pin design prevents the pin from being pushed through the pin casing to the interior of the cartridge. SCC has developed a Pin Removal Tool (HP41PRTOOL) that will remove the pin without damaging the cartridge (FIG 7).



8. Align the keyed end of the pin removal tool with the slots on the cartridge as shown (FIG 8 & 9). Squeeze the handles until the tool pierces through the plastic barrier. The pin will be partially exposed from the other side. The pin can then be pulled out with a pair of needle nose pliers.



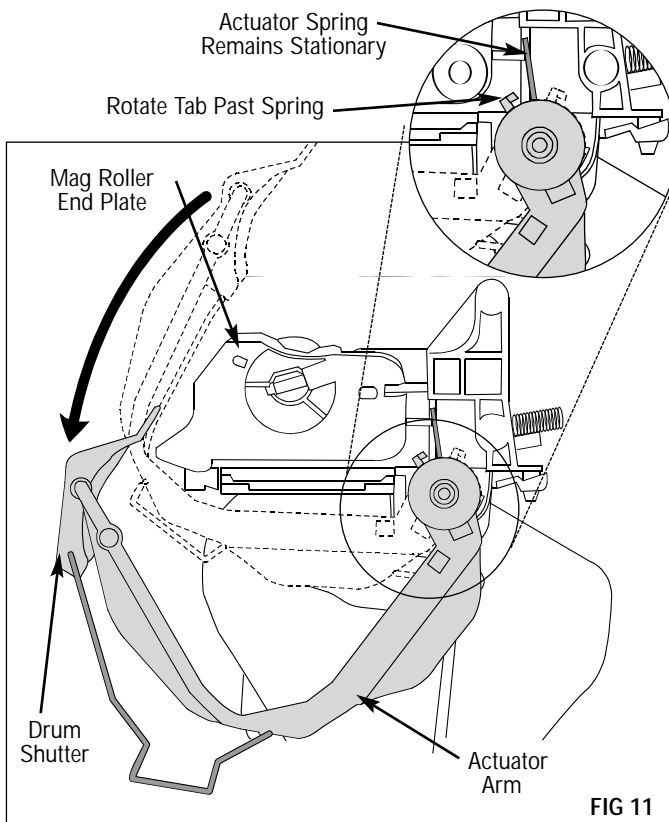
9. Separate the cartridge (FIG 10). Note that the drum shutter is attached to the hopper section.



Disassembly of the Toner Hopper Section

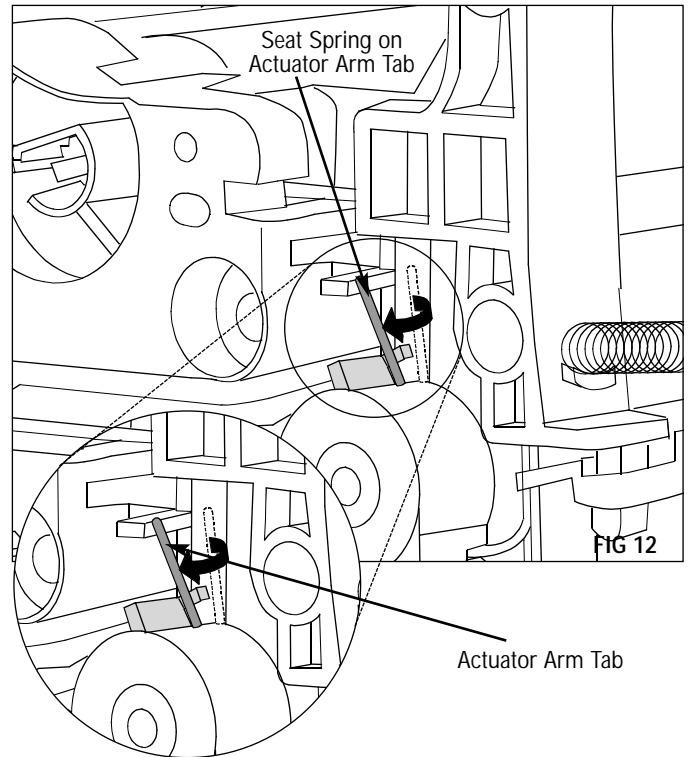
1. Remove the drum shutter. The drum shutter should be removed if you plan to remove the gear housing end plate or split the hopper.

Position the hopper section so that the mag roller end plate is facing you (FIG 11). Rotate the drum shutter actuator arm in the direction indicated by the arrow in FIG 11 to position the actuator arm tab to the left of the actuator spring (FIG 11 inset).

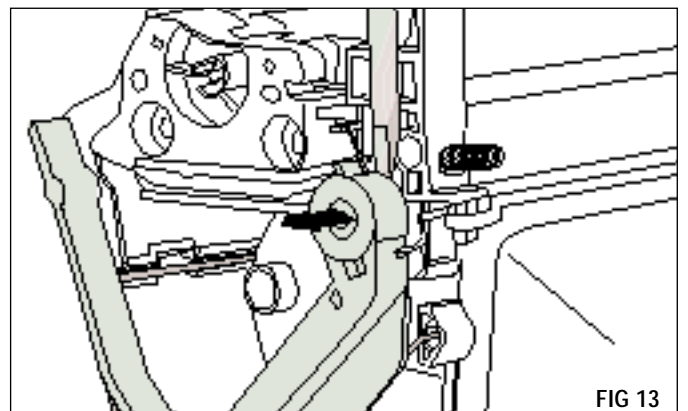


2. Using a pair of needlenose pliers, or the hook tool (HTOOL), place the spring on actuator arm tab as shown in FIG 21. This keeps the spring installed on the actuator arm when the arm is removed from the hopper.

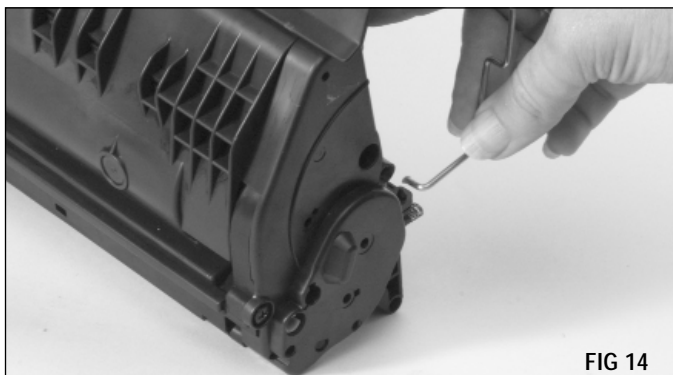
A replacement Actuator Arm Spring (4KDSAS) is available in case the original spring is lost or damaged.



3. Use a flat head screwdriver to carefully pry the actuator arm from the hopper. Note that a small locking clip secures the actuator arm to the hopper body (FIG 13).

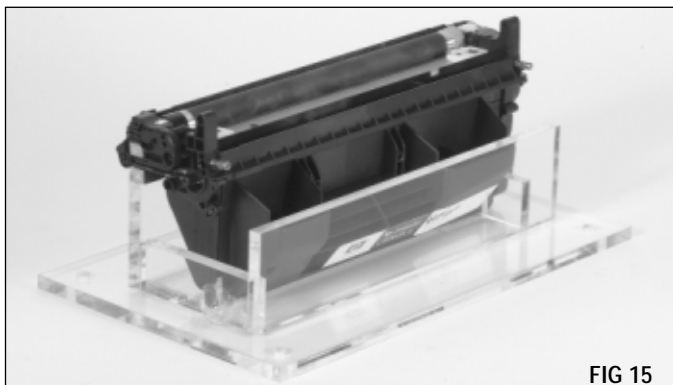


- Remove the actuator arm support bar from both sides of the hopper body (FIG 14). Note: Helical gear side is keyed.

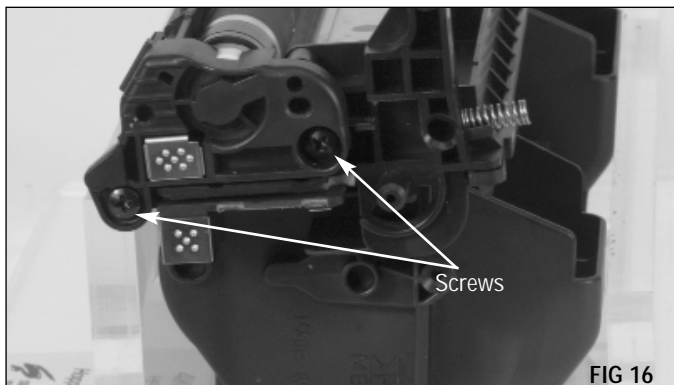


- Place the hopper in a hopper fixture. SCC offers an HP4100 Plexiglass Hopper Fixture (4KHJIG) to facilitate hopper assembly and disassembly. Secure the fixture to your work surface with bolts or C-clamps.

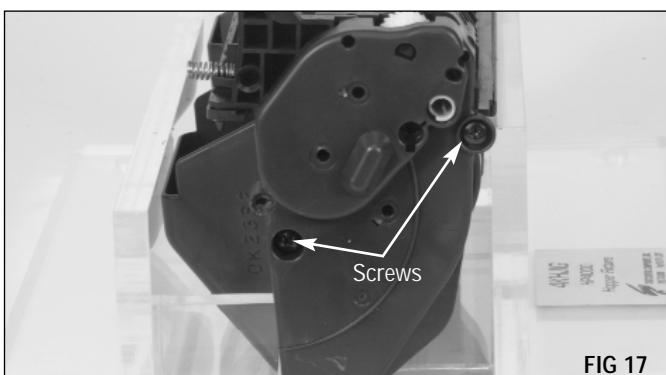
Note the orientation of the hopper in relation to the tall and short fixture supports (FIG 15).



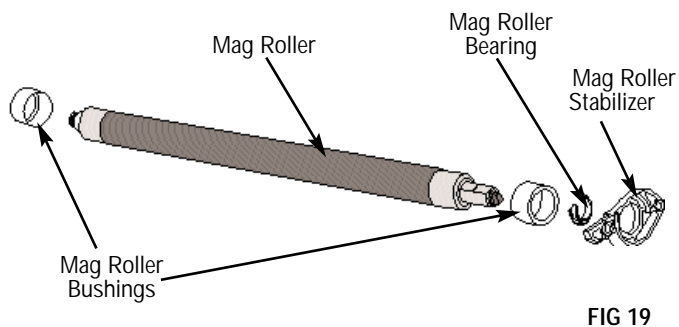
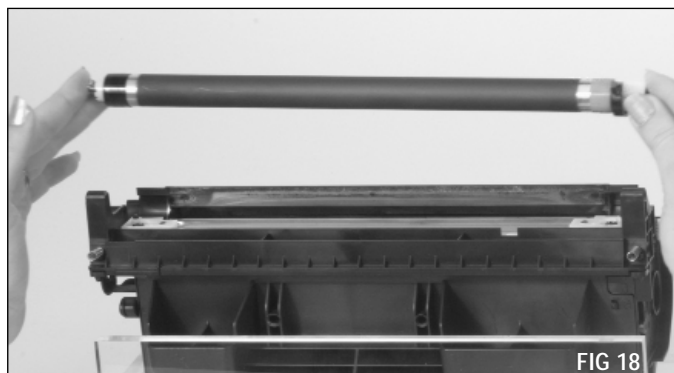
- Remove the two screws that secure the end plate (FIG 16). Remove the mag roller end plate.



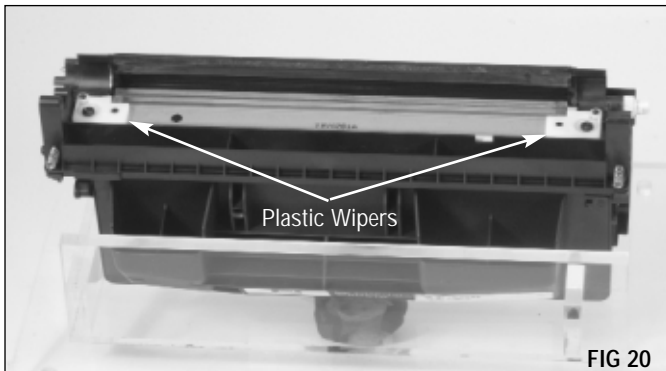
- Remove the two screws from the end plate (FIG 17). Remove the gear housing end plate.



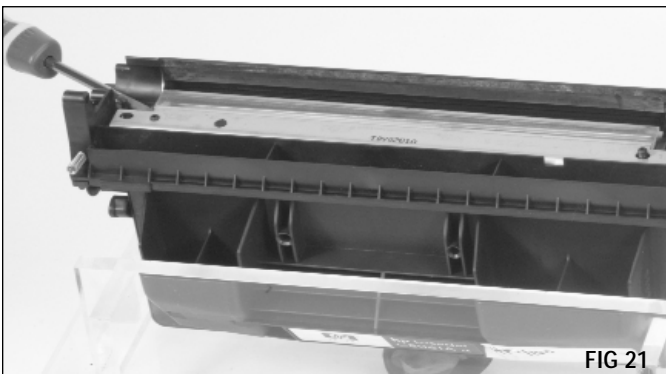
- Remove the mag roller. Grasp each end of the mag roller as shown in FIG 18 and lift it from the hopper. If you plan to reuse the mag roller, store it on a soft non-abrasive surface. Be careful not to lose bushings, bearing, and stabilizer.



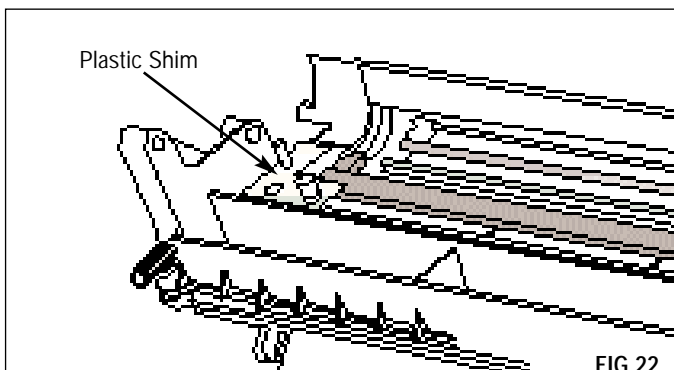
9. Remove the two screws from the doctor blade. (FIG 20). Carefully remove the plastic wipers. Save the plastic wipers to reuse with the replacement blade.



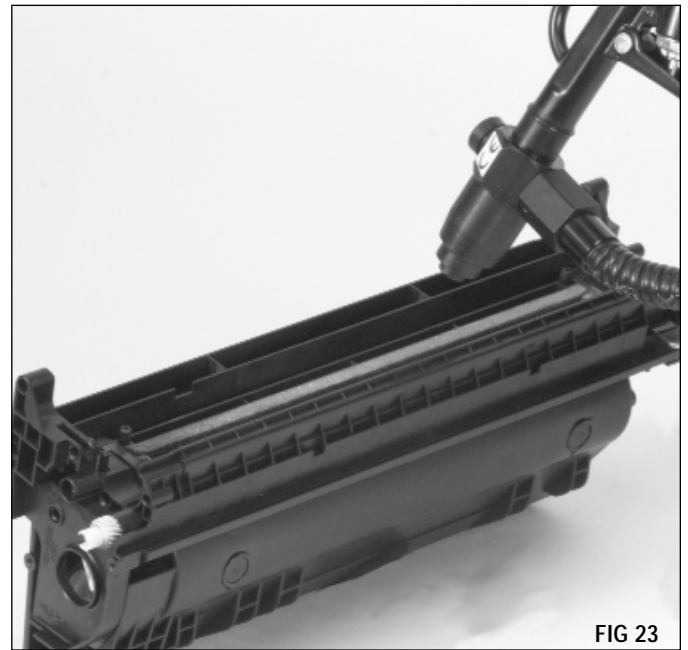
10. Use a flat blade screwdriver to carefully pry up the ends of the doctor blade and remove (FIG 21). Take care not to break the locator posts on the hopper body.



11. Carefully remove the plastic shims on both sides (FIG 22).



12. Clean the hopper. Dump the toner from the hopper and clean thoroughly with dry, filtered, compressed air (FIG 23). Clean toner and debris from the foam and felt sealing components.



Install a Seal (Optional) and Fill the Hopper

If you plan to ship the cartridge, SCC recommends sealing the hopper as your best protection against toner leakage. The design of the hopper discourages the use of insertable seals, therefore the hopper should be split and sealed to achieve the most effective seal. For splitting and sealing system information, contact your SCC Support Team for availability and product information.

If you do not seal the cartridge, fill the hopper through the toner port. Due to the potential for leakage, SCC does not recommend shipping unsealed cartridges. When filling the cartridge take care not to bend the toner low sensor bar or the agitator bar. After filling the cartridge, follow the hopper assembly instructions in the next section.

If you choose to split the hopper, take special care in taking out the hopper cap. Removing the cap incorrectly can break the cartridge. Cut the center of the hopper cap out. Using needle-nose pliers, gently pull on the remaining hopper cap rim, it should pull out fairly easily. Replacement caps are available (HP41HCAP).

13. Inspect the sealing components in the hopper section and replace as required (FIG 24). Foam components such as the doctor blade end foam and doctor blade sealing foam should display a smooth, clean surface. Make sure the foam materials are secured in the correct position. Replace the foam components that are ripped, pitted or dislodged.

Mag roller sealing end foams should be replaced if torn, pitted or missing. Note that foam replacement requires removal of the mag roller sealing blade.

The mag roller sealing blade should exhibit a smooth, flat surface along the entire length of the blade. Make sure the blade is fully attached to the cartridge and that the ends of the blade overlap the mag roller end magnets. Otherwise leakage can occur.

Several components listed above were under development at the publishing of this manual. Contact your SCC Support Team for product availability. Installation instructions are included in the packaging of the individual products.

14. The hopper compression springs should be secured to the mounting posts on the hopper. Stretched or missing compression springs can be the cause of light print problems. To maintain uniform compression on both sides of the hopper, we recommend replacing both springs even if only one spring appears to be damaged or is missing.

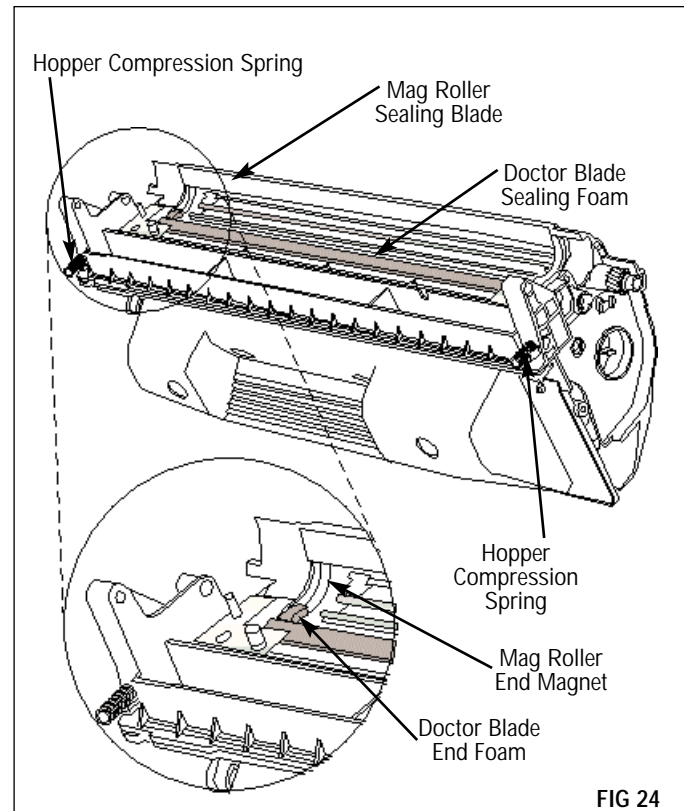


FIG 24



Assembly of the Toner Hopper Section

1. Inspect mag roller sealing blade for kinks and waves and replace if necessary. SCC recommends applying the blade with the sealing blade tool (RBITool) to keep the adhesive free of contaminants.
2. Clean and inspect the doctor blade. Replace the Doctor Blade (4KDBLADE) if pre-test prints indicate doctor blade-related print defects. Otherwise, clean the blade with dry, filtered, compressed air.

NOTE: Do not use alcohol or alcohol-based cleaners to clean the silicon blade.

If you replace the doctor blade, remove the plastic wipers from the stamping of the old blade and install on the new blade, noting the orientation of each wiper. The locating posts and screws used in the next step will secure the wiper.

3. Carefully replace the plastic shims (FIG 25).

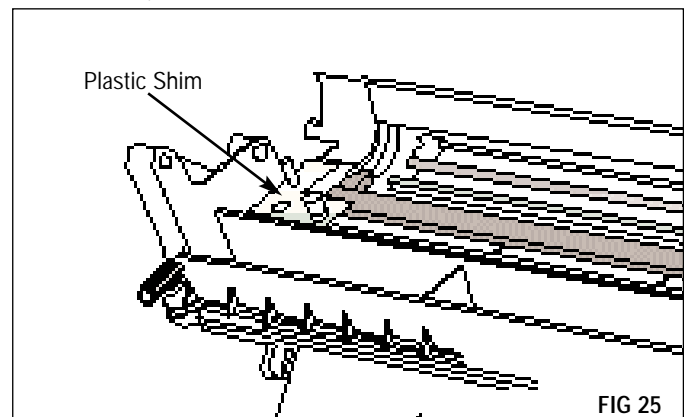
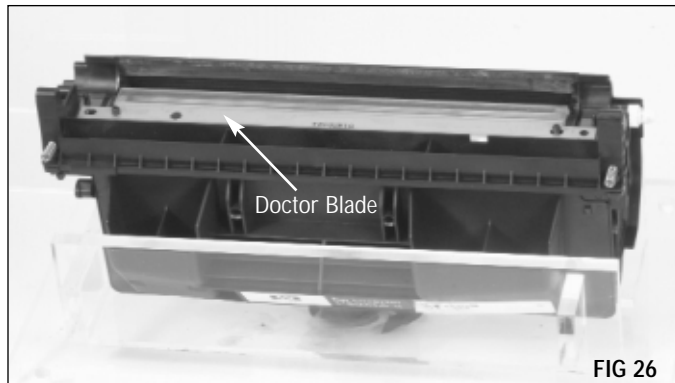
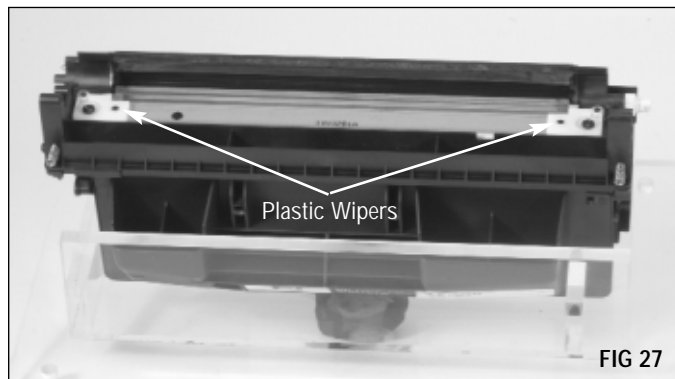


FIG 25

4. Install the doctor blade (FIG 26).



5. Replace the plastic wipers on both side (FIG 27) and secure with two screws.



6. Replace with SCC red bushings for improved yield performance. (Left: HP41MRBUSH-RL red/long, Right: HP41MRBUSH-RSH red/short)

7. Clean and inspect the mag roller. If you plan to reuse the OEM mag roller, clean it with dry, filtered, compressed air.

NOTE: Be careful not to scratch the coated surface of the mag roller or touch the surface with your bare fingers.

Replace the mag roller if it is damaged or causes light print problems. SCC offers a replacement factory-new Mag Roller (4KMDR). Contact a member of your SCC Support team for product availability.

Clean the mag roller bushings with a Lint-Free Swab or a Lint-Free Cleaning Cloth.

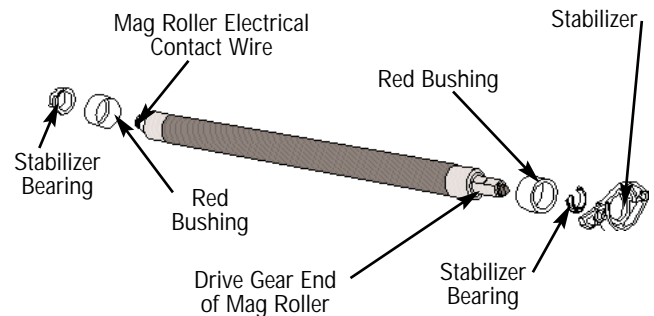


FIG 28

8. Install the mag roller. The mag roller is installed with the electrical contact wire on the contact end of the cartridge and the stabilizer on the drive gear end of the cartridge (FIG 29). Caution: The drive gear can go on backwards. Make sure the gear is seated flush with the end of the mag roller endcap.

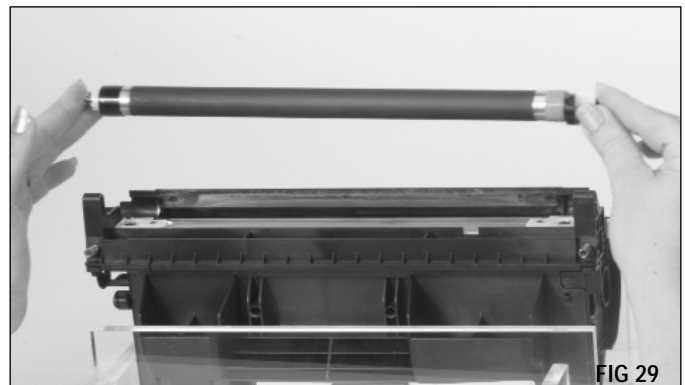


FIG 29

9. The mag roller stabilizer should seat in a slot in the hopper body as shown in (FIG 30).

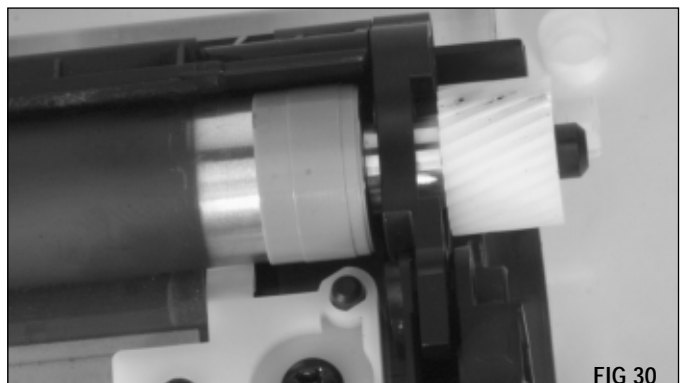
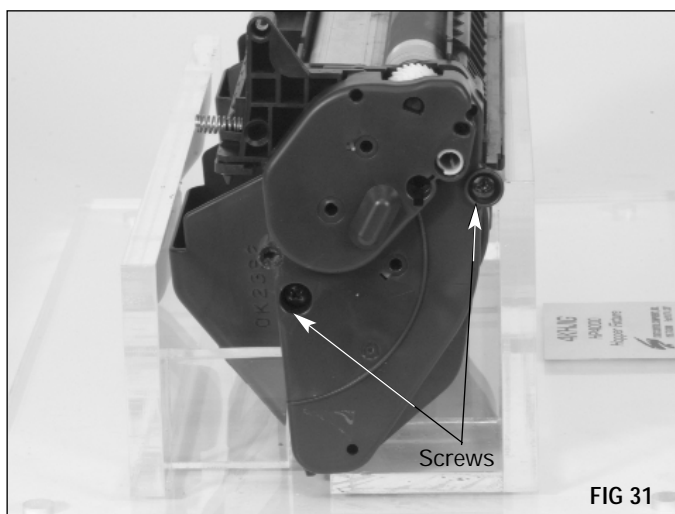


FIG 30

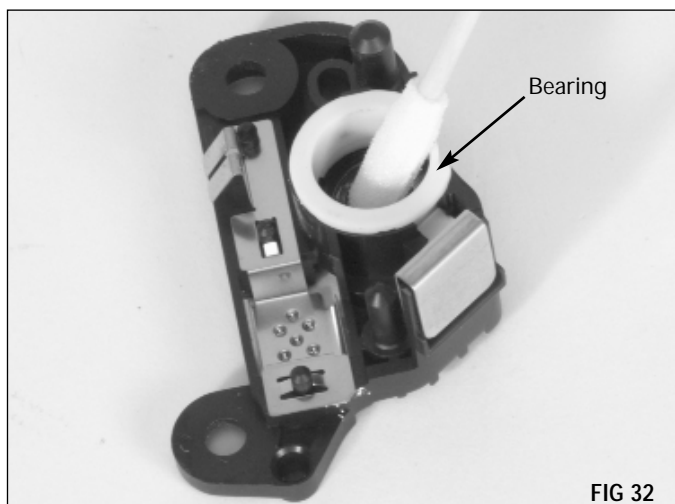
- 10.** Replace the mag roller drive gear and gear housing end plate. Secure the end plate with two Phillips screws (FIG 31).



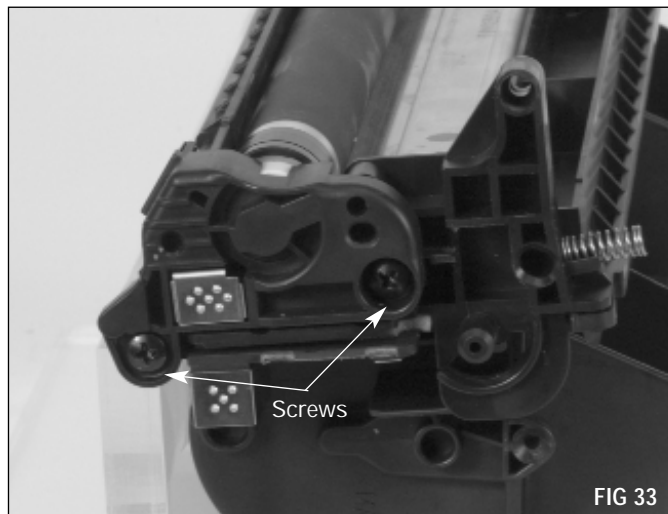
- 11.** Clean the mag roller electrical contact. The contact is located in the mag roller end plate. Clean the contact with a Lint-free Swab dampened with isopropyl alcohol.

Apply a thin layer of Conductive Cartridge Lubricant (CONCLUBE) to the electrical contact (FIG 32). For additional information about the use and application of cartridge lubricant, refer to SSS™ 100, *Cleaning Tools, Tips and Techniques*.

Make sure the mag roller end plate is completely assembled. A white bearing installed in the mag roller end plate is easily lost when the cartridge is disassembled. Make sure the bearing is properly installed on the end plate.

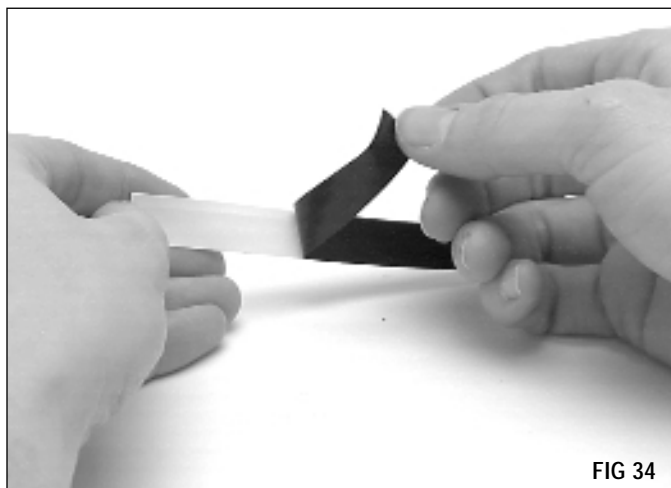


- 12.** Replace the mag roller end plate and secure with two screws (FIG 33).



- 13.** Install a Drum Shutter Felt (4LDSFELT). Installing a drum shutter felt can minimize damage to the drum caused by the drum shutter. For best installation results, remove the drum shutter from the toner hopper section, as shown.

Remove the release liner from the drum shutter felt (FIG 34).



- 14.** Center the felt on the inside of the shutter as shown in FIG 35 and align the long edge of the felt with the long edge of the shutter. An installed felt is shown in (FIG 36).



FIG 35

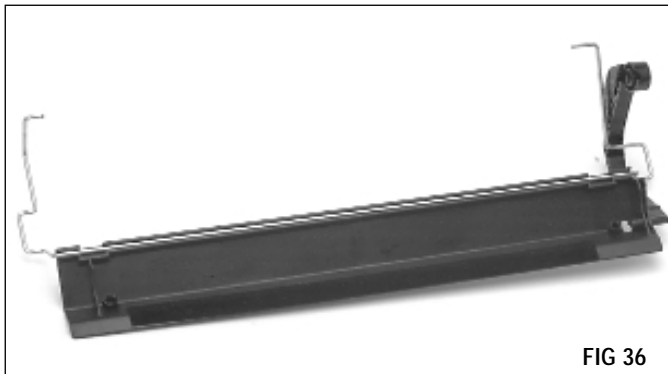


FIG 36

- 15.** Install the drum shutter. Make sure the Actuator Arm Spring (4KDSAS) is properly positioned in the actuator arm. Use a pair of needlenose pliers to rotate the leg of the spring and set it behind the tab (FIG 37). A replacement spring is available if the original spring is lost or damaged.

Install the drum shutter support arm in the keyed positioner bushing on the helical gear end of the cartridge (FIG 38).

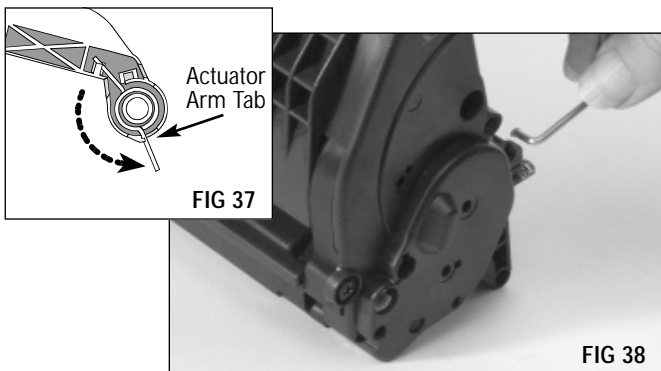


FIG 37

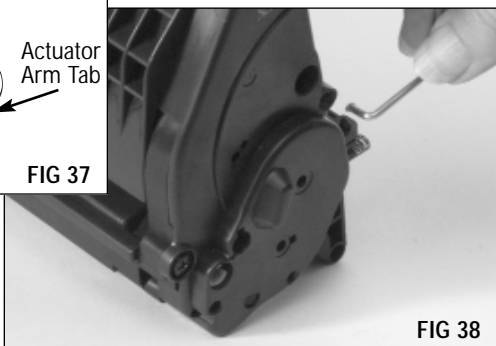


FIG 38

- 16.** Rotate the actuator arm until the spring is positioned to the right of the support bar on the hopper body (FIG 39).

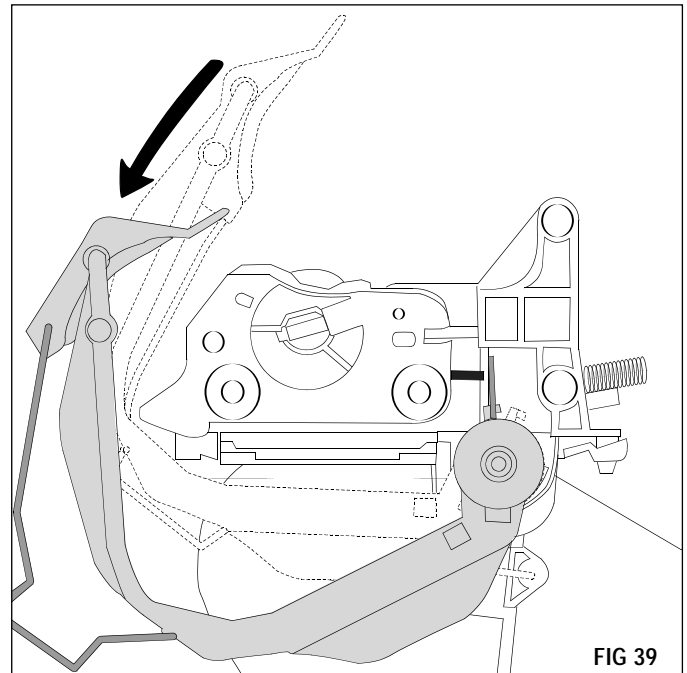


FIG 39

- 17.** Using a pair of needlenose pliers, pull the end of the actuator arm spring over to the support bar (FIG 40 & 41).

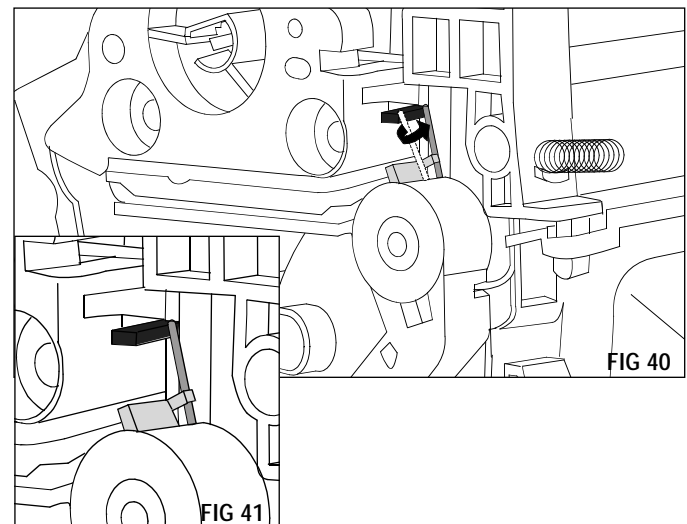
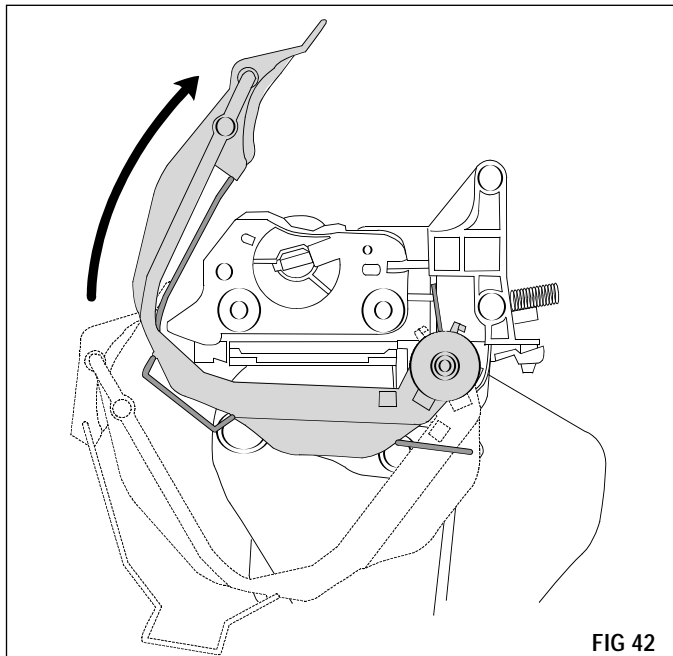


FIG 40



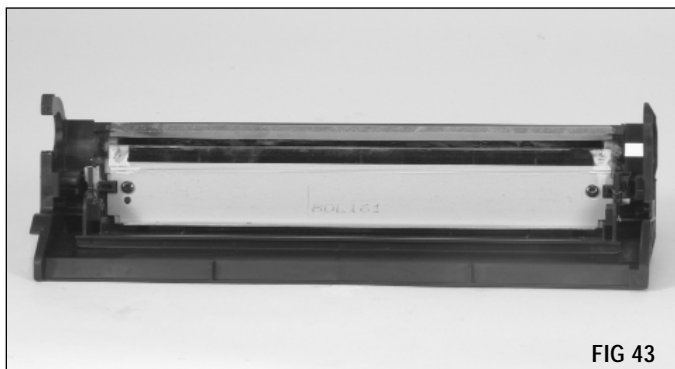
FIG 41

18. With the end of the spring seated against the support bar, tension is applied to the actuator arm allowing the drum shutter to close automatically (FIG 42).



Disassembly/Assembling the Waste Bin Section

1. Remove the two screws that secure the wiper blade. Remove the wiper blade (FIG 43).



2. Clean the waste bin with dry, filtered, compressed air. Direct compressed air on and around foam and felt sealing components to remove as much toner and debris as possible (FIG 44).



3. Clean the PCR saddles. Clean toner residue from the saddles with a Lint-Free Swab (LFSWAB) or Cotton Swab (QTIP) dampened with 91-99% isopropyl alcohol (FIG 45).

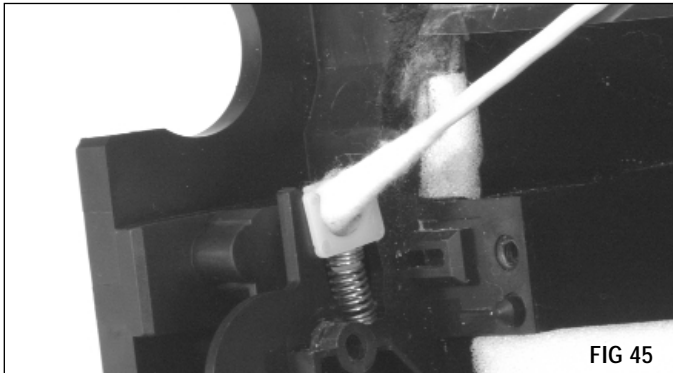


FIG 45

NOTE Do not apply conductive lubricant to the PCR saddles.

4. Inspect the wiper blade sealing foam, recovery blade, wiper blade end foams and wiper blade end felts (FIG 46). Foam components, such as the wiper blade sealing foam and wiper blade end foam should display a smooth surface without pits or tears in the material. Replace the foam if damaged or missing. Tears in the material can allow toner leakage.

Felt components, such as the wiper blade end felts, should appear clean, intact and secured to the cartridge. Replace the felts that are compacted with toner or display a shiny surface. Make sure the felt is securely attached to the cartridge. The wiper blade end felt and foam are also packaged together in a kit.

The recovery blade should display a smooth, flat surface without kinks or waviness along the edge. Replace the recovery blade if it is damaged, dislodged or missing. SCC recommends applying the blade with the sealing blade tool (RBITool) to keep the adhesive free of contaminants.

Contact your SCC Support Team for availability of those products mentioned as "under development". Complete instructions detailing the installation of the components mentioned above are included with the product.

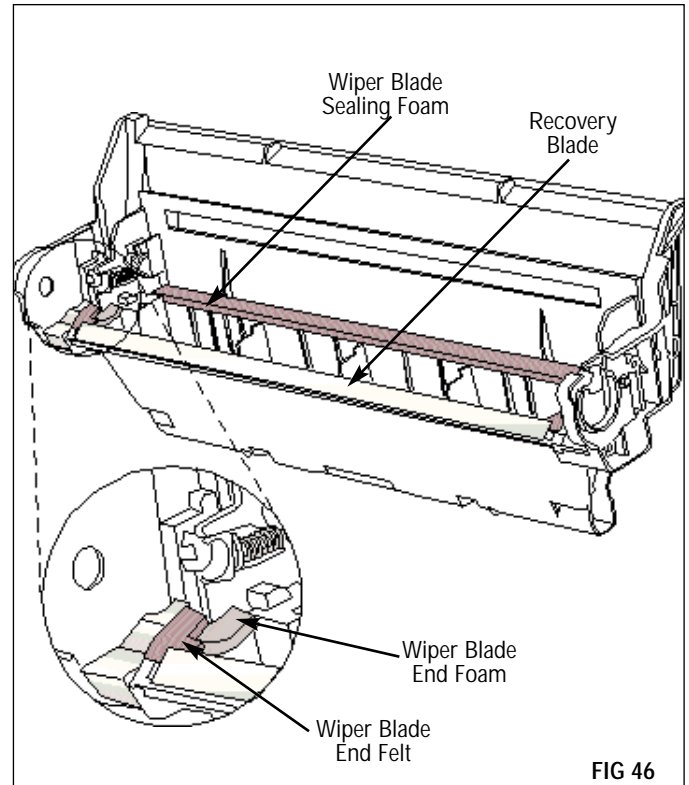


FIG 46

5. Clean and inspect the wiper blade. To avoid damaging the working edge of the blade, SCC recommends cleaning the wiper blade only with dry, filtered, compressed air (FIG 47). For best results, replace the Wiper Blade each time you replace the drum.

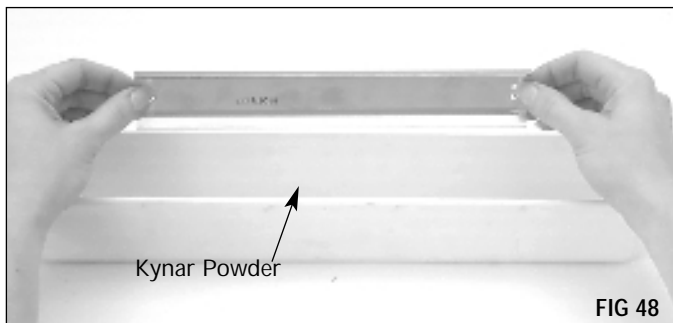


FIG 47

NOTE For best results, we do not recommend using alcohol or any alcohol-based solvent to clean the polyurethane blade.

6. Dip the edge of the wiper blade in Kynar® Lubricating Powder (KPOW) applied to the working edge of the blade will help prevent blade “flip overs” during the first drum rotations of the remanufactured cartridge. Pad the wiper blade regardless of whether you are using a new replacement blade or reusing the old blade.

Dip the edge of the blade in a long, shallow container of Kynar lubricating powder as shown in FIG 48. Examine the blade to ensure even coverage. Repeat.

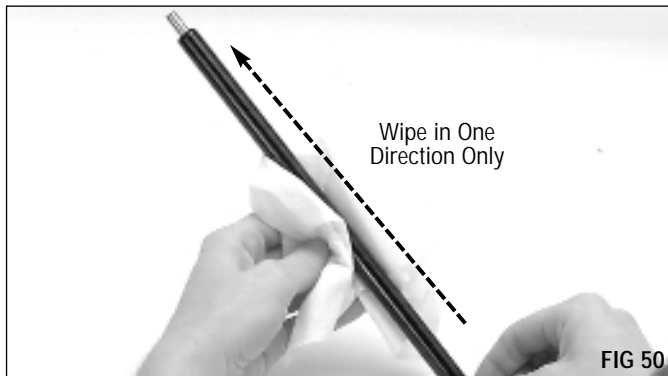


7. Install the wiper blade. Position the wiper blade stamping over the locating posts in the waste bin. Secure the wiper blade with two screws (FIG 49).

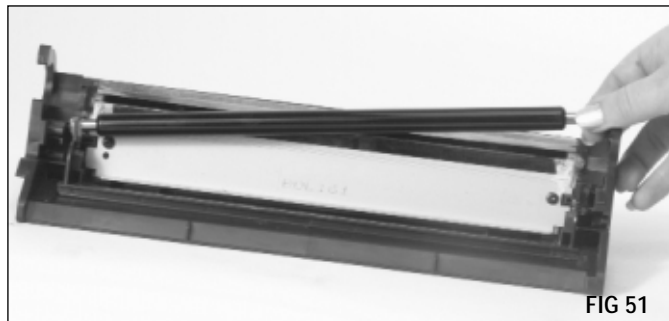


8. Clean and inspect the PCR. If you are reusing the OEM PCR, clean the roller using a soft, lint-free cloth dampened with water.

Gently wipe the PCR in one direction. Be careful not to pinch or dent the surface of the PCR (FIG 50).



9. Install the PCR. The PCR shafts should be firmly installed in the PCR saddles at each end of the waste bin (FIG 51).



10. Clean and evaluate the drum. If you plan to reuse the drum, clean it with compressed air or a soft, lint-free cloth (FIG 52).



- 11.** Pad the coated area of the drum with Kynar Lubricating Powder (KPOW). Be careful to avoid powder on the gears (FIG 53).



FIG 53

- 12.** Install the drum. Position the drum in the waste bin with the helical gear on the left (FIG 54).

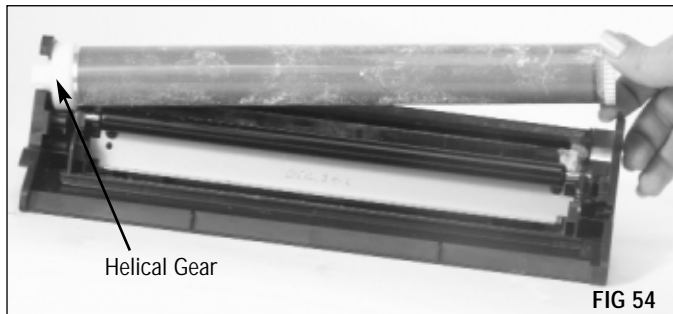


FIG 54

- 13.** Install the waste bin bearing plate. Note the orientation of the plate; secure the plate to the waste bin with the two screws (FIG 55).

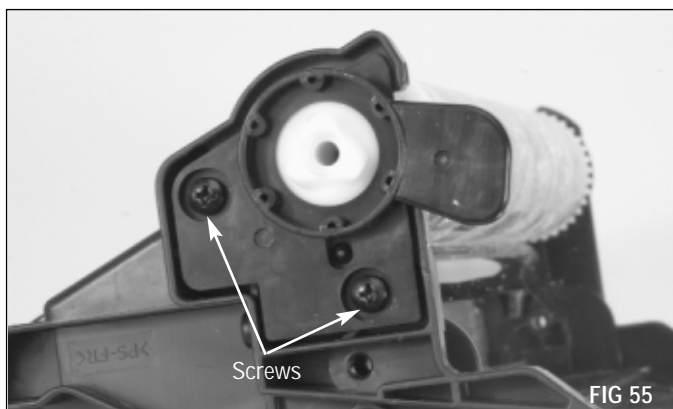


FIG 55

- 14.** Install the drum spur gear axle in the waste bin housing (FIG 56).

It is important to properly seat the drum spur axle against the waste bin housing before tightening the screws. The step on the inside of the axle should mate with the step on the waste bin housing (FIG 56A). When the end plate is correctly installed, the positioning post on the waste bin housing will align in the center of the oblong slot in the end plate (FIG 56B).

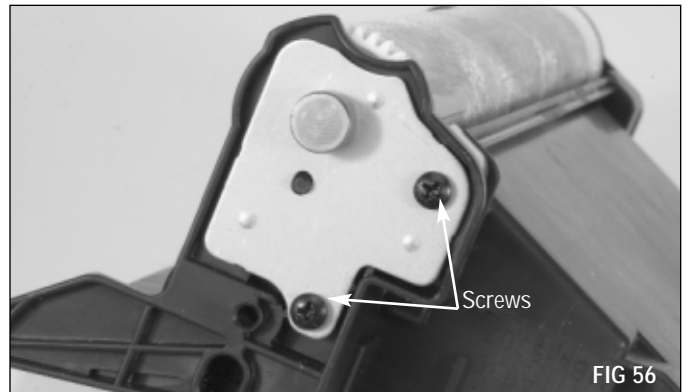


FIG 56

Drum Axle Seated Correctly

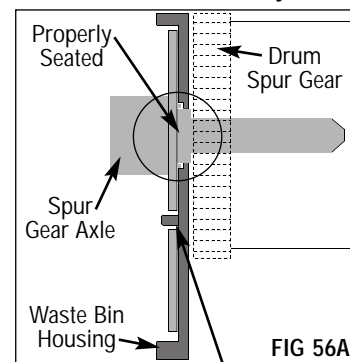


FIG 56A

Positioning Post Aligned in Center of Oblong Slot

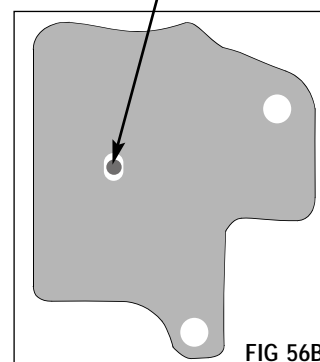
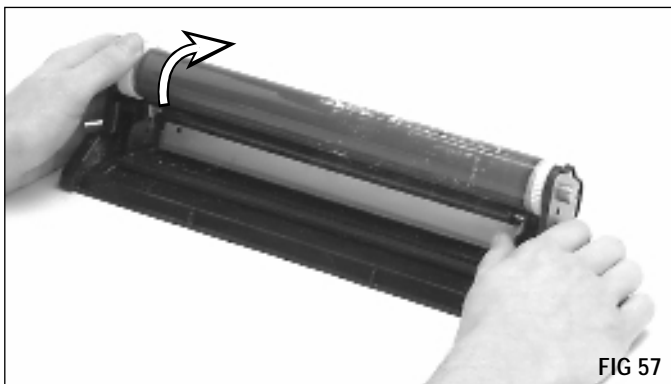


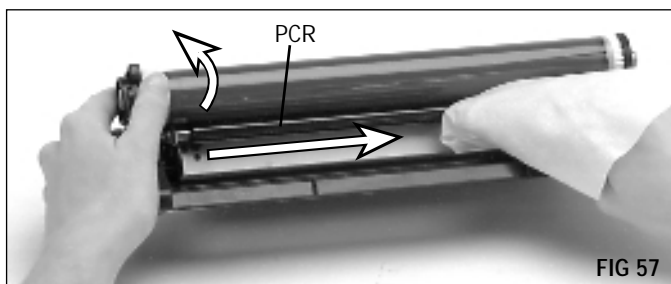
FIG 56B

Positioning Post Aligned Correctly

15. Rotate the drum in its normal rotational direction, as indicated by the arrow in FIG 57, at least six full drum rotations. Rotating the drum will help lubricate the wiper blade and prevent the potential of blade “flip overs”. The lubricating powder wiped from the drum by the wiper blade will deposit in the waste bin.



16. Wipe the lubricating powder from the PCR. After you have rotated the drum to remove the powder, rotate the drum again in small increments to clean the Kynar from the PCR. As you rotate the drum in its normal rotational direction, wipe the powder from the PCR with a Lint-Free Cleaning Cloth (LFCLOTH), as shown in FIG 58. You can also use dry, filtered compressed air instead of the lint-free cloth to remove the powder from the PCR.



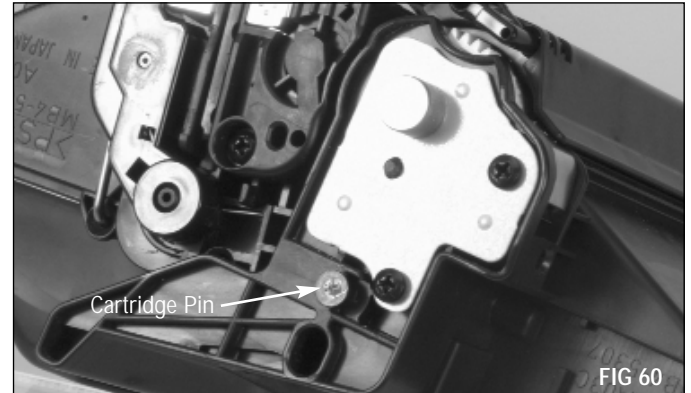
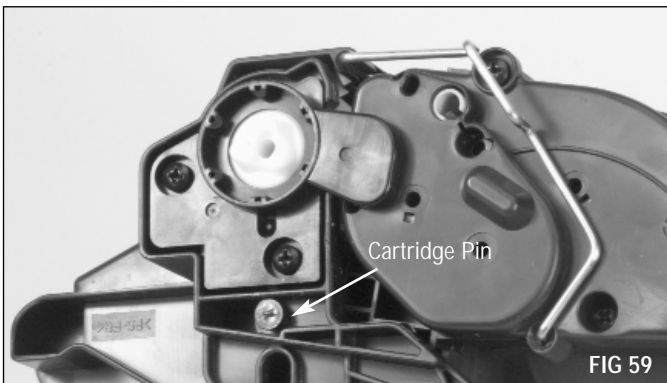
CAUTION: Make sure there is no lubricating powder present on the PCR, otherwise repeating voids in solid print areas at the PCR interval may result.

Assembly of the Cartridge

1. Bring the cartridge sections together. Hold the drum shutter in the "open" position as shown in FIG 58. Bring the sections together.



2. Install the cartridge pins. To facilitate disassembly during subsequent remanufacturing cycles, use SCC HP4000 Cartridge Pins (4KPIN) to rejoin the cartridge sections. SCC's cartridge pins, designed specifically for the HP4000 cartridge, can be removed easily using a pair of side cutters. After installing the cartridge pins, make sure the hopper compression springs are in their correct position (FIG 59 & 60).



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