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Xerox® Docuprint® N2125; IBM® InfoPrint® 21; Epson® 2050; Xerox® Phaser® 4400; Okidata® B6100 and the Genicom® 260

Remanufacturing Instructions

Tools and Supplies You Will Need

Tools and Supplies

Recommended for Basic Remanufacturing:

- Phillips Screwdriver
- 3/32" Punch
- Hammer
- Needle Nose Pliers
- Hook Tool (HTOOL)
- Funnel for Toner Bottle
- Conductive Cartridge Lubricant (CONCLUBE)
- Compressed Air for Cleaning *(See Right)*
- 91-99% Isopropyl Alcohol *(See Right)*
- Lint-free Foam Tip Swab (LFSWAB)
- Cotton Swab (QTIP)
- Lint-Free Cleaning Cloth (LFCCLOTH)
- Kynar® Lubricating Powder (KPOW)
- Xerox® 2125 Toner (X2025TONER)
- Shallow Trough for Dipping the Wiper Blade
- Cartridge Pins (CARTPIN-L)
- 2125 Universal Key Plate (X2125UNIPLT)

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.

WWW.SCC-INC.COM

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If you need additional information or technical assistance, please contact your Support Team.

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Version I - July 2005

Separating the Cartridge

1. Remove the cartridge pins.
Position the cartridge on your work surface with the drum shutter and arrow facing up (FIG 1).

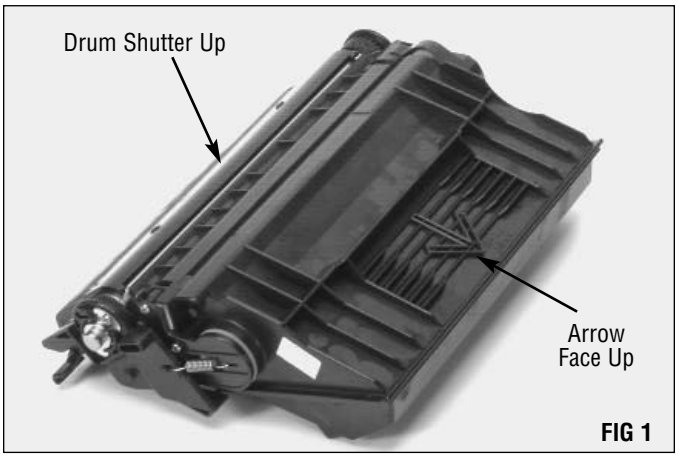


FIG 1

One cartridge pin is located underneath each drum axle. Using a 3/32" punch and hammer, carefully tap the pins to the inside of the cartridge (FIG 2). The pins should fall out of the cartridge through the laser port.

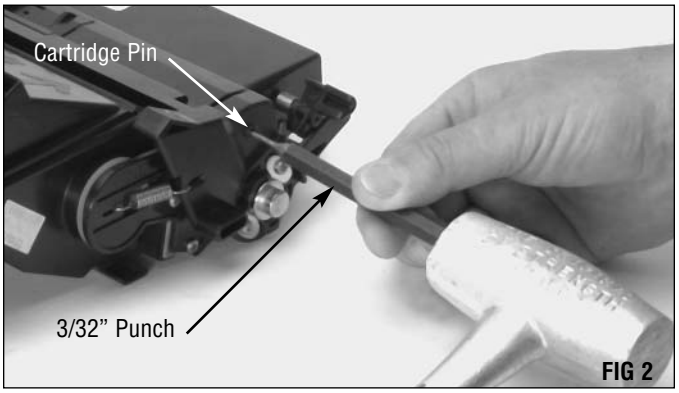


FIG 2

NOTE N2125 system qualified replacement Cartridge Pins (CARTPIN-L) will facilitate pin removal and installation in subsequent remanufacturing cycles.

2. Unhook the outer compression spring.
Use the Hook Tool (HTOOL) to unhook the tension spring (FIG 3).

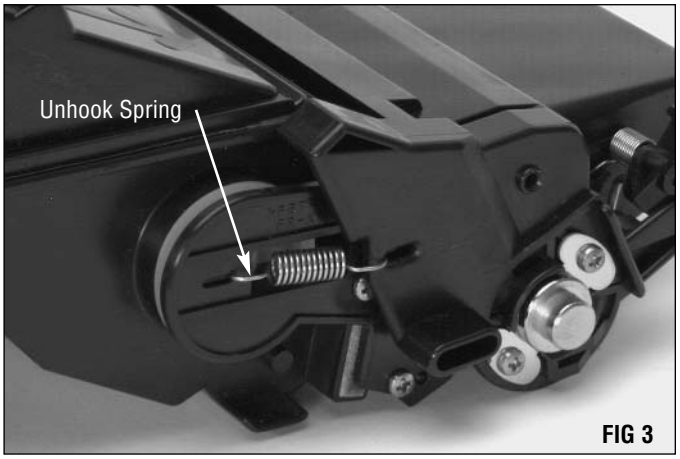


FIG 3

3. Separate the two sections of the cartridge (FIG 4).

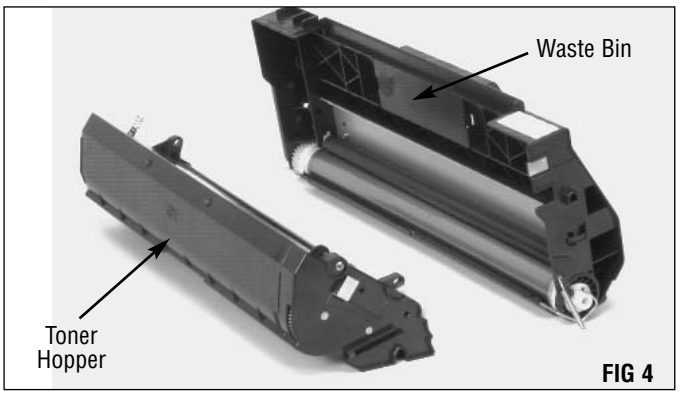


FIG 4

NOTE If you removed OEM pins, make sure the pins are completely removed from the cartridge. The pins sometimes remain in the waste bin.

Disassembly of the Waste Bin Section

1. Secure the drum shutter.
Open the drum shutter. Use a piece of tape to secure the shutter in place (FIG 5).

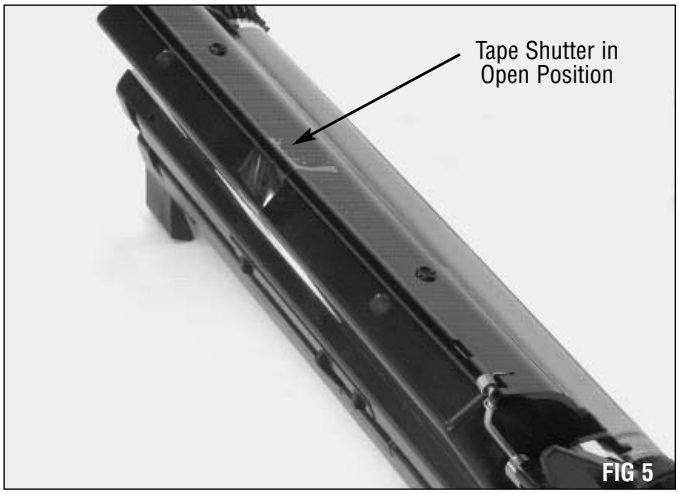


FIG 5

2. Remove the drum axles.
Remove the two screws from each drum axle (FIG 6 & 7). Remove both drum axles.

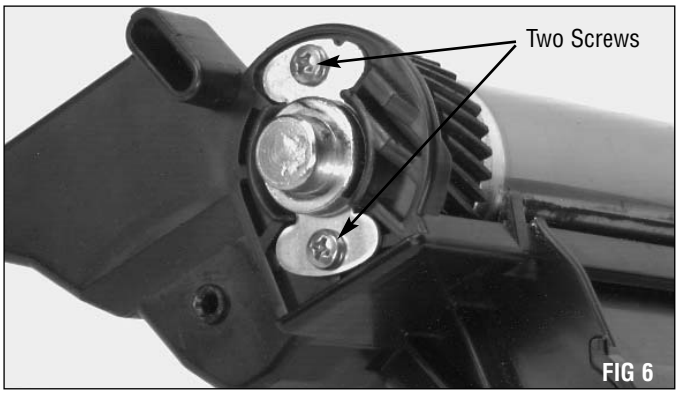


FIG 6

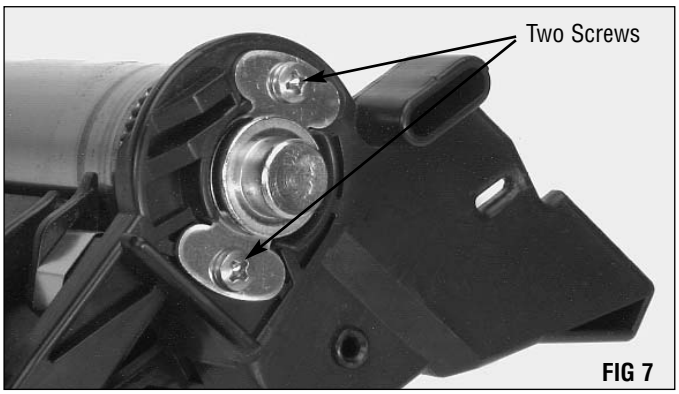


FIG 7

3. Remove the OPC drum.
To avoid damage to wiper blade end foams, grasp the gears at each end of the drum and lift it straight up out of the waste bin (FIG 8).

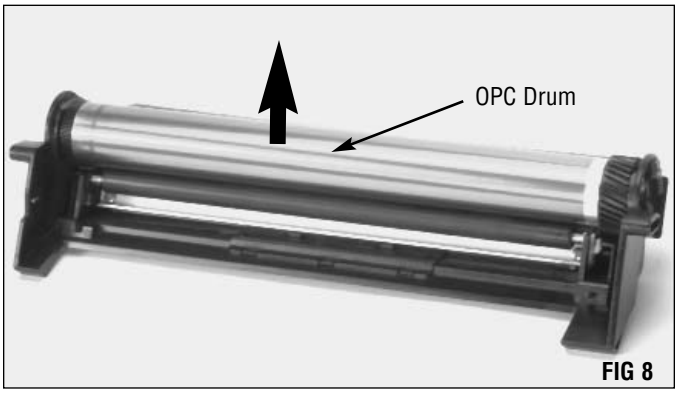


FIG 8

NOTE If you reuse the drum, store it in an area that is protected from light and impact damage. For best results, SCC recommends replacing the drum after each remanufacturing cycle.

4. Remove the PCR.
Handle the PCR by the shaft or use clean latex gloves and lift it up and out of the cartridge (FIG 9).

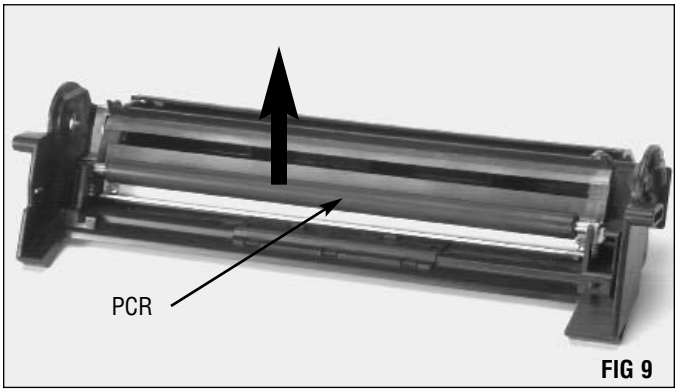


FIG 9

NOTE If you plan to reuse the PCR, store it on a flat uniform surface. Do not stack or lay anything on top of PCRs, wrap PCRs with rubber bands, or touch the surface of the PCR with your bare hands.

5. Remove the wiper blade.
Remove the two screws that secure the wiper blade (FIG 10). Remove the wiper blade. For best results, replace the wiper blade each time you replace the drum.

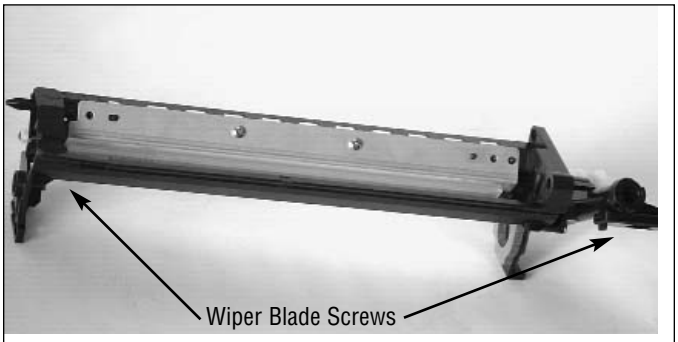


FIG 10

6. Clean the waste bin.
Empty the bulk of the waste toner and clean the waste bin with dry, filtered, compressed air (FIG 11). Direct compressed air on and around the wiper blade sealing foam and end foams to remove toner and debris from the foam material. Be careful not to damage the recovery blade.

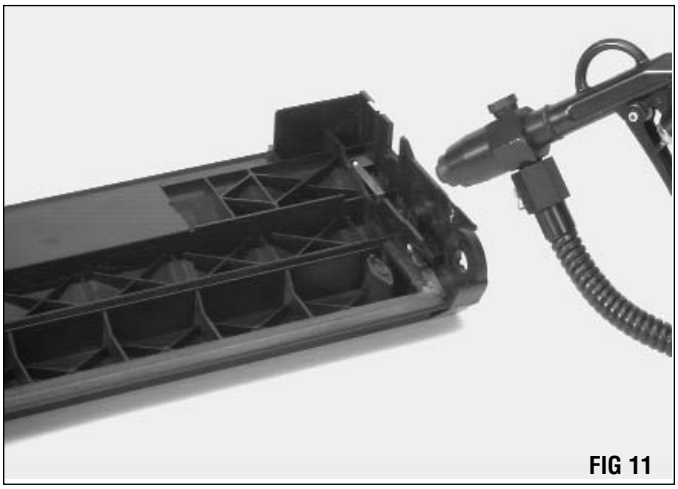


FIG 11

7. Inspect the sealing components in the waste bin (FIG 12).
The foam materials, such as the wiper blade sealing and end foams, should display a smooth surface and be secured to the cartridge surface. Replace foam components that are ripped, pitted or missing. 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.

Call your SCC Regional Support Team for product availability.

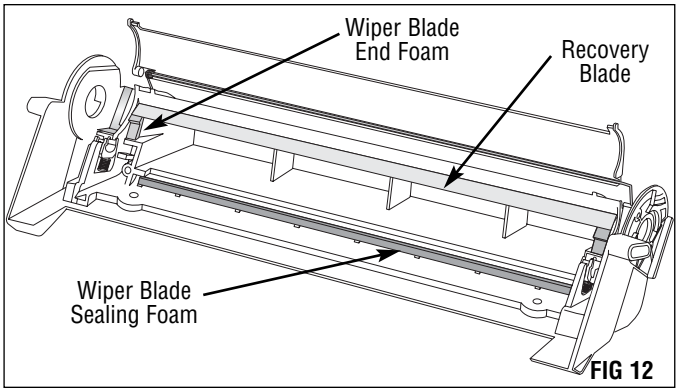


FIG 12

8. Clean the PCR saddles.
Clean toner residue from both PCR saddles using a Lint-Free Swab (LFSWAB) dampened with isopropyl alcohol (FIG 13).

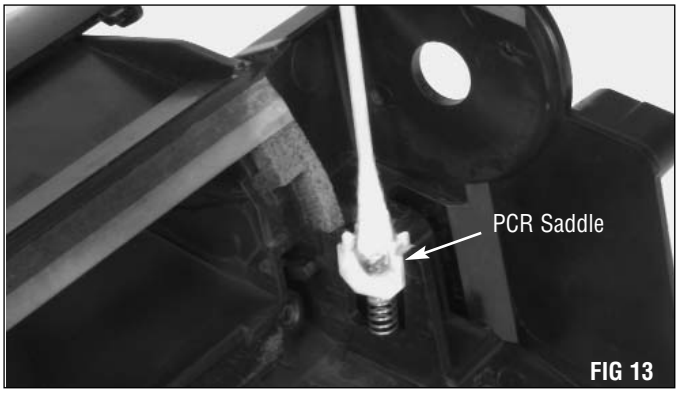


FIG 13

Disassembly of the Hopper Section

NOTE SCC is developing a plexiglass hopper fixture to facilitate hopper disassembly and assembly. If you plan to install a seal, note that the fixture is recommended to facilitate proper seal installation.

Call your SCC Regional Support Team for product availability

1. Remove the mag roller end plate.
Remove the two screws that secure the mag roller end plate (FIG 14). Remove the end plate.

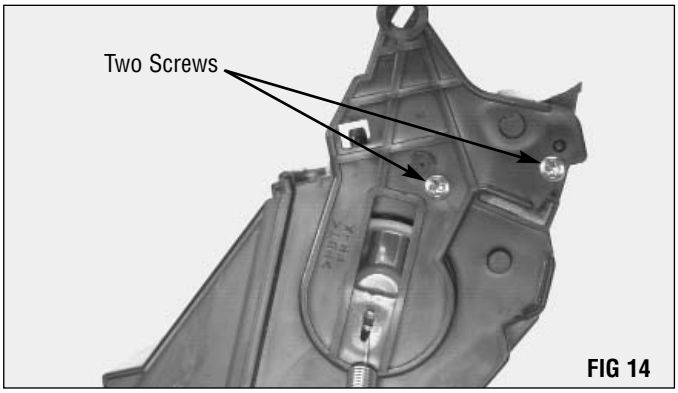


FIG 14

2. Remove the gear housing end plate.
Remove the two screws that secure the gear housing end plate (FIG 15). Remove the end plate.

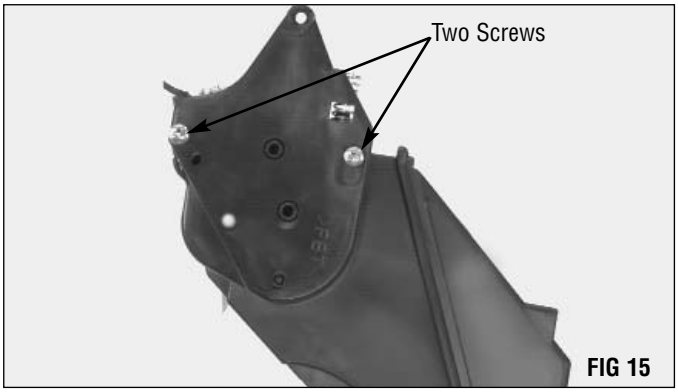


FIG 15

3. Remove the mag roller drive gear (FIG 16).

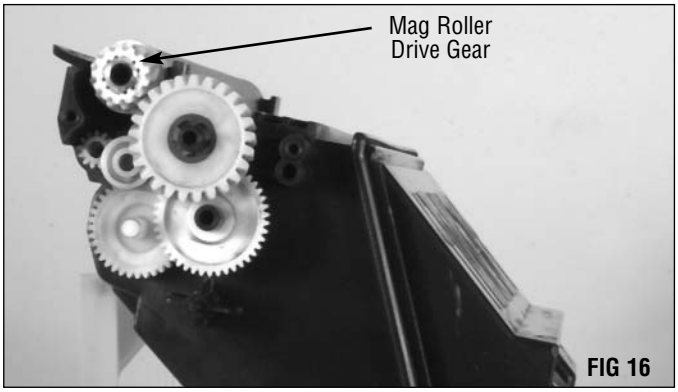


FIG 16

4. Remove the mag roller.
Grasp each end of the mag roller and lift it from the hopper (FIG 17).

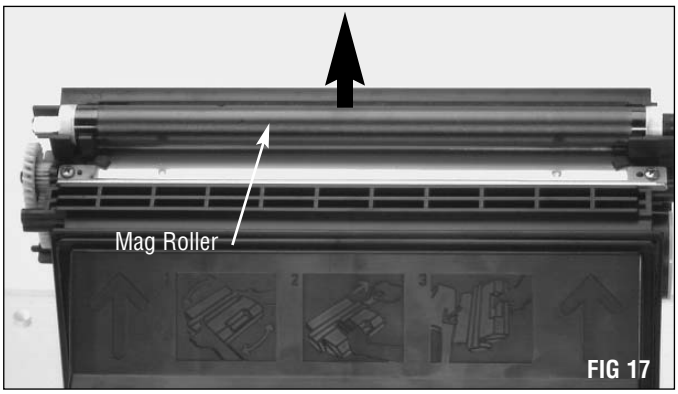


FIG 17

NOTE If you plan to reuse the mag roller, store it on a soft, clean surface. Do not touch the surface of the mag roller with your fingers.

5. Remove the doctor blade.
Remove the two screws that secure the doctor blade (FIG 18). Remove the doctor blade.

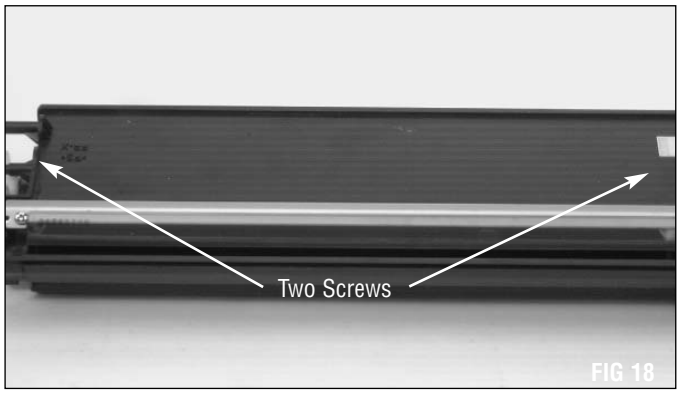


FIG 18

6. Clean the hopper with dry, filtered, compressed air.
Direct compressed air on and around foam and felt components to remove as much toner and debris as possible (FIG 19). Take care not to damage the recovery blade.

FIG 19

7. Inspect the sealing components in the hopper section and replace as required (FIG 20).
Foam components such as the doctor blade end foams and the mag roller seal foam should display a smooth, clean surface. Make sure the foam materials are secured in the correct position.

Mag roller felts should display a plush surface. Make sure the felts are securely adhered to the mag roller saddles. Replace the felts if the surface appears shiny and compacted with toner.

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 mounting surface particularly at the ends of the blade.

Contact your SCC Regional Support Team for product availability.

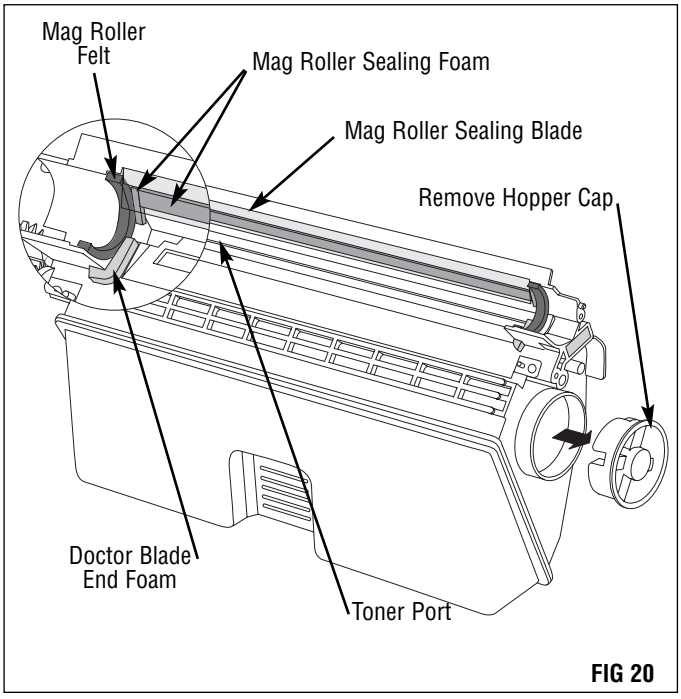


FIG 20

8. Remove the hopper cap if you plan to seal the cartridge.
If you plan to seal the cartridge, install the seal before continuing to the next section. If you do not seal the cartridge, fill the hopper through the toner port. Then, assemble the cartridge following the instructions in the remaining sections of this manual.

Assembly of the Hopper Section

1. Install the doctor blade.
Clean the blade with with dry, filtered, compressed air. The doctor blade sealing foam should display a smooth surface and be securely attached to the blade stamping. Replace the foam if the material is torn or detached from the stamping.

Position the doctor blade on the locating posts and secure with the two screws (FIG 21).

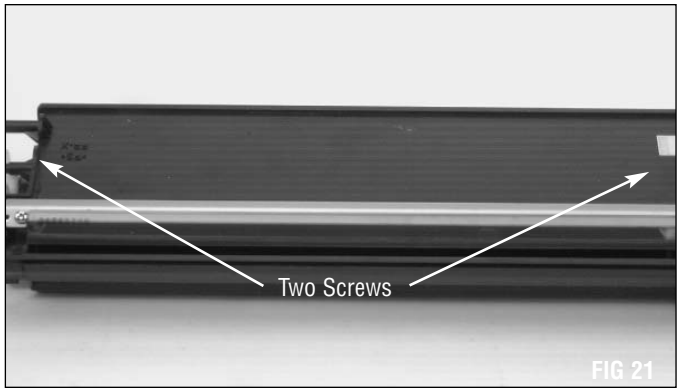


FIG 21

2. Install the mag roller.
Clean the surface of the mag roller with dry, filtered, compressed air only. Clean the mag roller bushings with a Lint-Free Swab (LFSWAB) or a Lint-Free Cleaning Cloth (LFCCLOTH). Place the bushings on the mag roller and install the mag roller (FIG 22 & 23).

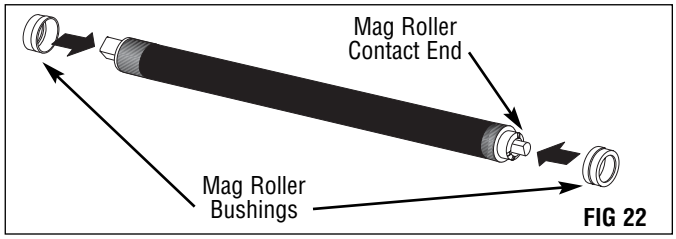


FIG 22

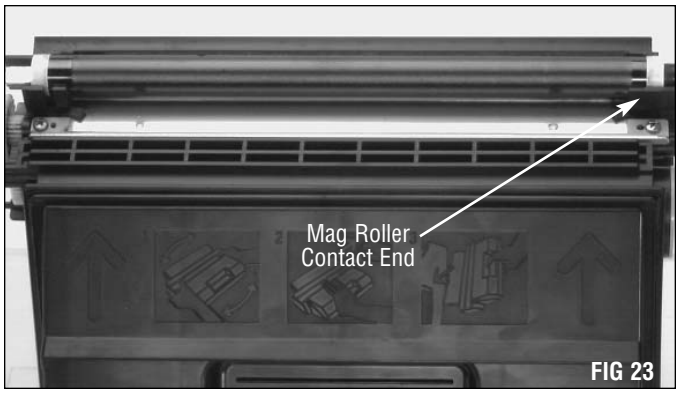


FIG 23

3. Install the mag roller drive gear ((FIG 24)
Note the orientation of the gear as shown.

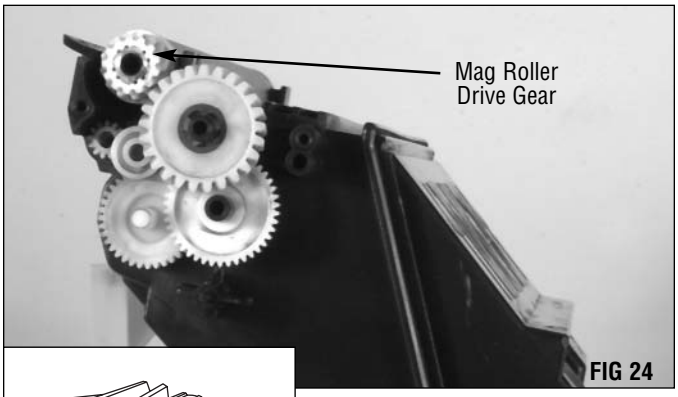
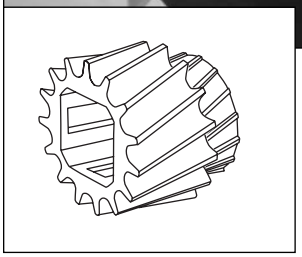


FIG 24



4. Clean the electrical contact on the mag roller end plate.
Clean toner and debris from the electrical contact using a Lint-Free Swab (LFSWAB) dampened with isopropyl alcohol (FIG 25).

Note that conductive lubricant is NOT used on the electrical contact in the OEM cartridge.

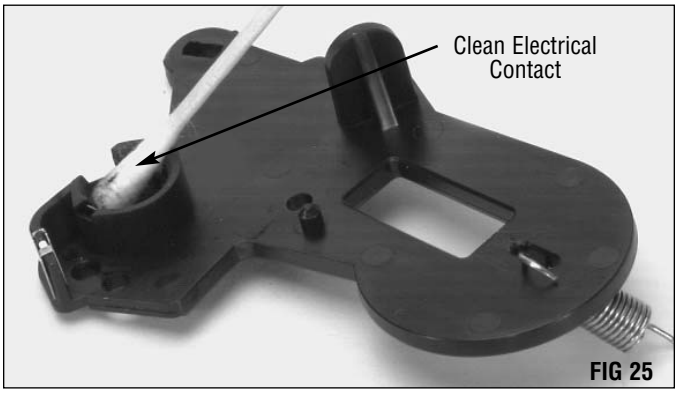


FIG 25

5. Install the mag roller end plate

Note that the mag roller axle is keyed and fits into a positioner bushing in the end plate. Secure the end plate with the two screws (FIG 24).

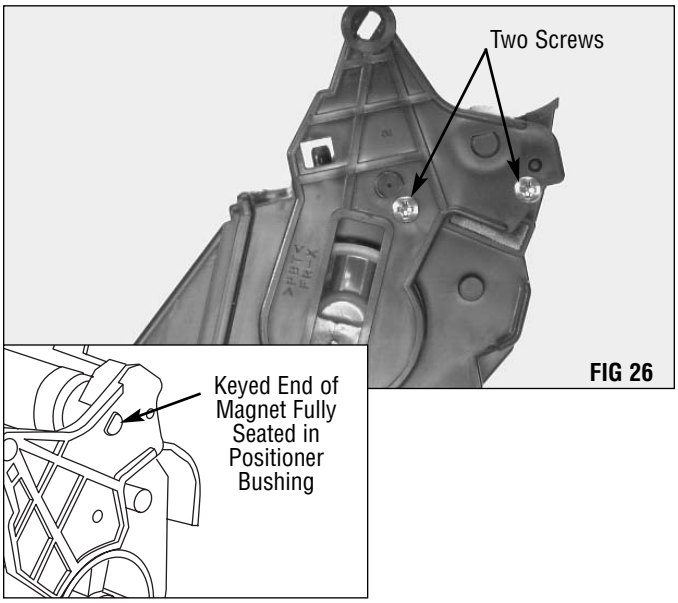


FIG 26

6. Install the gear housing end plate and secure with the two screws (FIG 25).

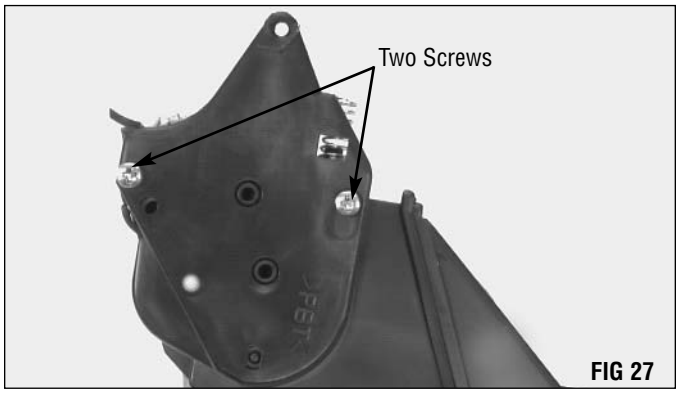


FIG 27

Assembly of the Waste Bin Section

1. Clean the wiper blade

If you plan to reuse the wiper blade, clean it with dry, filtered, compressed air (FIG 26).

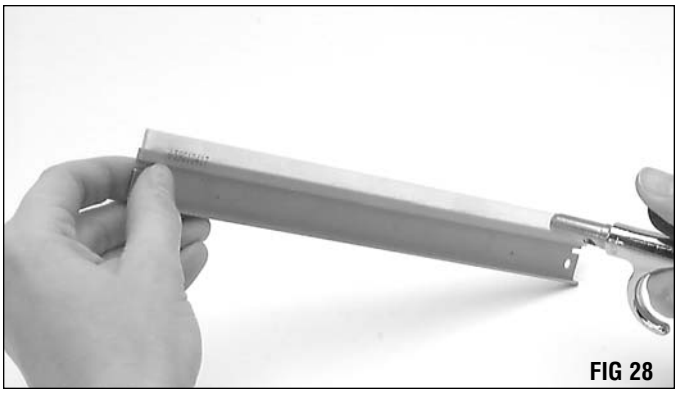


FIG 28

NOTE Do not use alcohol or any alcohol-based solvent to clean the polyurethane blade. To avoid damage to the working edge of the blade, SCC recommends using only dry, filtered, compressed air to clean the wiper blade.

2. Pad the wiper blade.
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 lubricating powder as shown (FIG 29). Examine the blade to ensure even coverage.

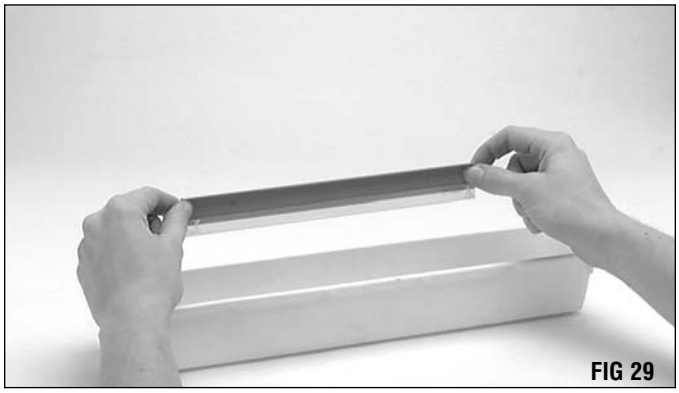


FIG 29

3. Install the wiper blade.
Position the stamping over the locating posts in the waste bin, and secure the blade with the two screws (FIG 30).

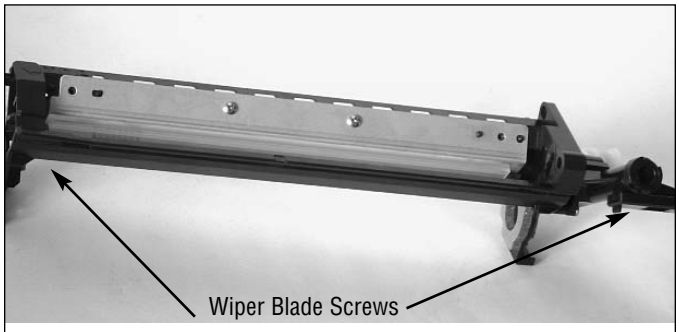


FIG 30

4. Clean and inspect the PCR.
If you are reusing an OEM PCR, clean the roller using a soft, Lint-free Cloth (LFCCLOTH) dampened with water.

Gently wipe the PCR in one direction. Be careful not to pinch or dent the surface of the PCR (FIG 31)

A remanufactured PCR is currently under development. Contact a member of your SCC Regional Support Team for availability.

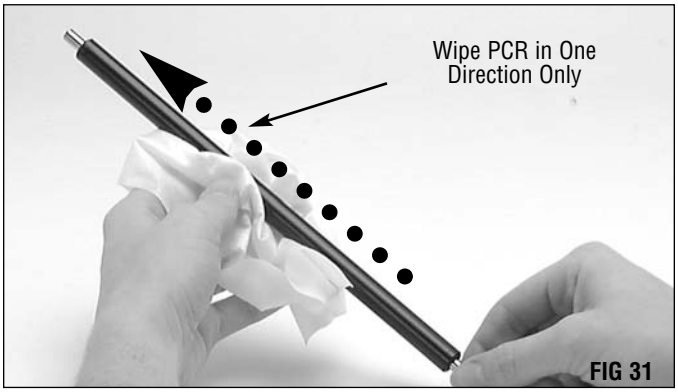


FIG 31

5. Apply Conductive Cartridge Lubricant (CONCLUBE) to the PCR saddle at the contact end of the cartridge (FIG 32).

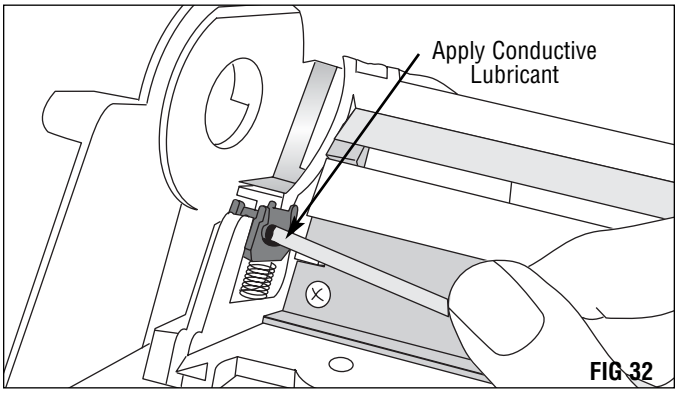


FIG 32

6. Install the PCR (FIG 33)

The PCR shafts should fit securely in the saddles at each end of the waste bin.

FIG 33

7. Clean and inspect the drum (FIG 34).

If you plan to reuse the drum, clean it with compressed air.

FIG 34

8. Pad the drum.

Pad the coated area of the drum with Kynar lubricating powder (FIG 35). Avoid Kynar on the drum gears.

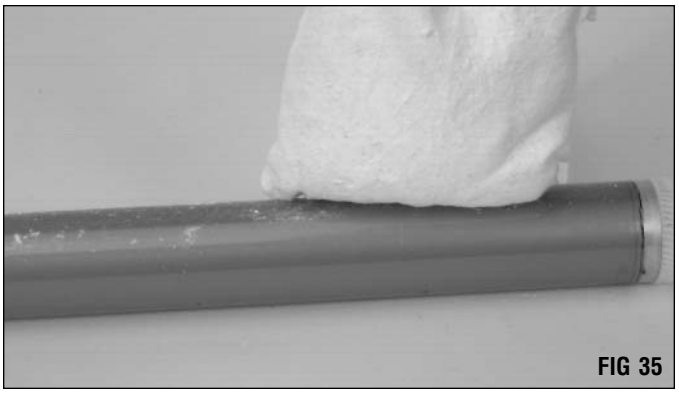


FIG 35

9. Install the drum (FIG 36)

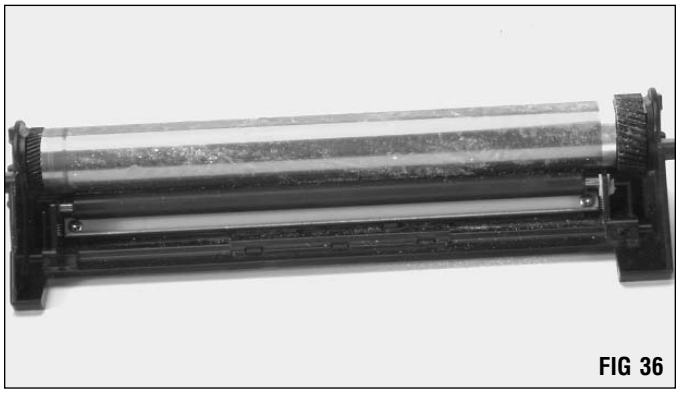


FIG 36

10. Install both gear axles.

Secure each drum axle with two screws (FIG 37 & 38).

FIG 37

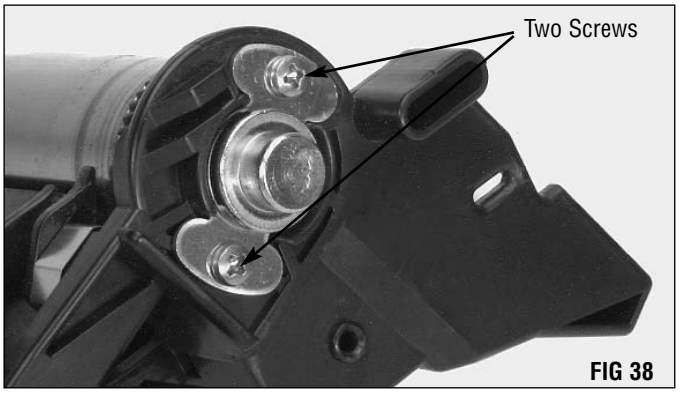


FIG 38

11. Rotate the drum.
Rotate the drum in its normal rotational direction, as indicated by the arrow in FIG 39, 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.

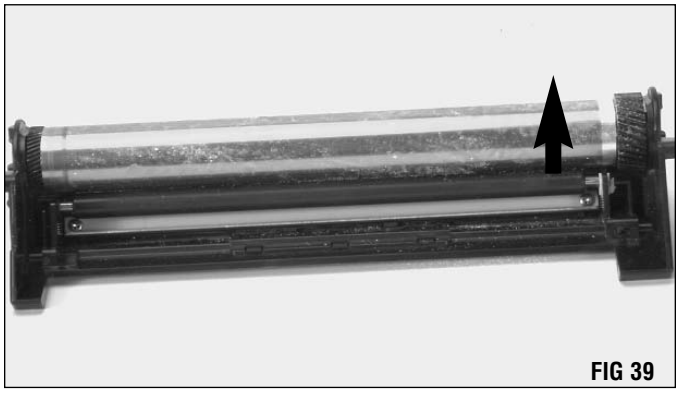


FIG 39

12. Wipe Kynar from the PCR.
After you have rotated the drum to remove the powder, rotate the drum again in small increments to clean the lubricating powder from the PCR. As you rotate the drum in its normal rotational direction, wipe the powder from the PCR with a lint-free cloth (FIG 40).

You can also use dry, filtered, compressed air instead of the cloth to remove the powder from the PCR.

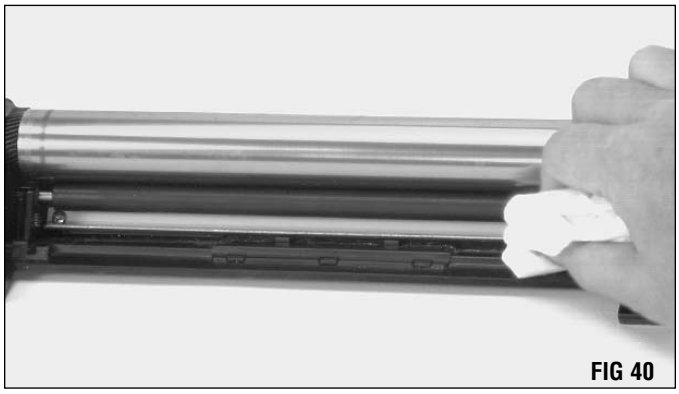


FIG 40

NOTE Make sure there is no Kynar® present on the PCR, otherwise repeating voids in solid print areas at the PCR interval may result.

1. Bring the two cartrige sections together as shown (FIG 41).
Note there is only one compression spring on the toner hopper section. Position the end of the hopper compression spring on the locating post in the waste bin (FIG 42).


FIG 41

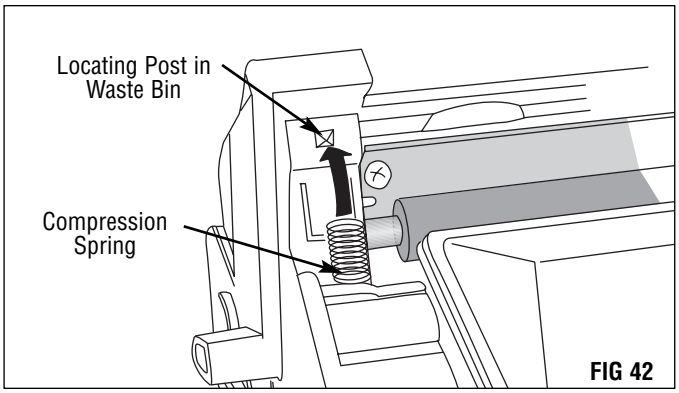


FIG 42

2. Install cartridge pins at each end of the cartridge (FIG 43). N2125 system-qualified replacement Cartridge Pins (CARTPIN-L) will facilitate pin removal and installation in subsequent remanufacturing cycles.

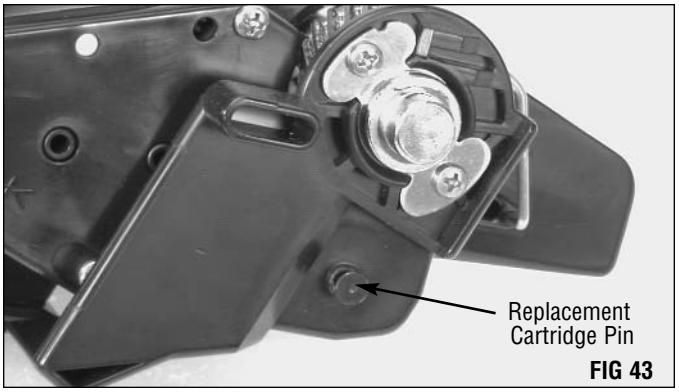


FIG 43

3. Engage the outer compression spring (FIG 44). Use the hook tool to rehook the tension spring.

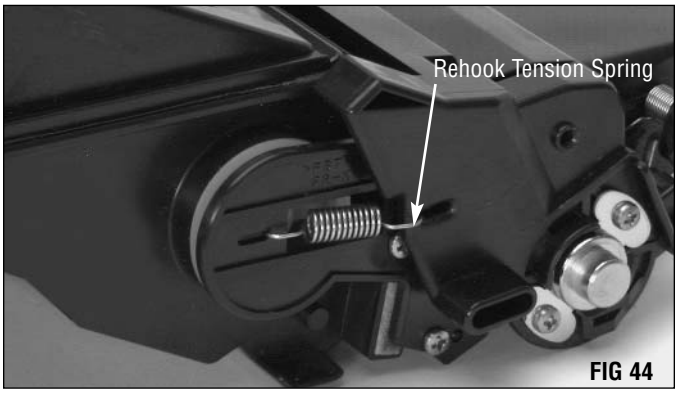
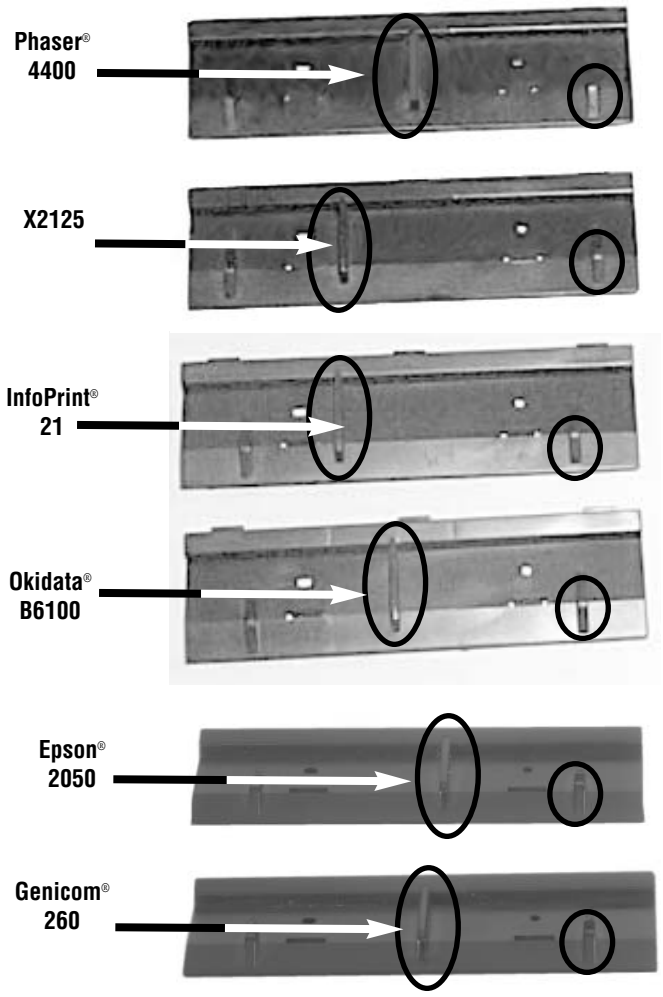
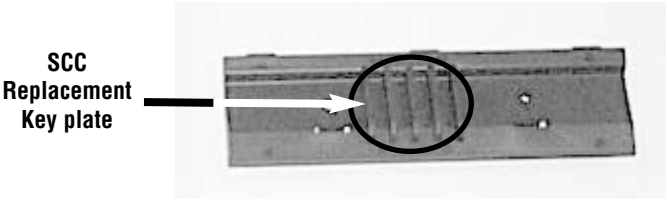


FIG 44

Universal Key Plate Information

Compatible cartridges for the Xerox® N2125 are similarly designed, except for the key plates on the upper side of the cartridge prevented cartridges from being utilized in more than one printer. Compatible cartridge are X2125, InfoPrint® 21, Okidata® B6100, and Phaser® 4400. SCC has developed a cost effective solution that will enable rechargers to change this key plate on any one of the four cartridges listed above and this will make these cartridges universal for each engine listed above.





Outside ribs on OEM Key Plate assist with placement and are also located in different positions. These outside ribs were left off SCC's Universal Key Plate

The key plate is located on the top of the Waste Bin section as shown in the Figure below.

To remove the key plate use a flatblade screwdriver, and pry the key plate from the Waste Bin. The key plate snaps back ino place.

Imaging System Technology You Can Count On!

The development of cartridge imaging systems, such as the Xerox® Docuprint® N2125 Imaging System, is the primary mission of our imaging technology laboratories. 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 designed 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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