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Xerox® DocuPrint® N2025/N2825

Remanufacturing Instructions

Engine Reference Information

In February 2000 Xerox® announced the release of the DocuPrint® N2025 and N2825, two of the six new models of workgroup lasers based on a completely new engine developed by Fuji-Xerox®. Along with being the first network lasers to ship standard with both USB and parallel interfaces, making them Mac and PC compatible right out of the box, these February releases were the first to carry Xerox's new four-digit model numbering scheme. The first two digits denote machine speed, while the second two digits represent the family series.

Externally the new machines are virtually unchanged from previous Xerox network printers, except for being streamlined for a more modern look. The N2025 and N2825 are essentially identical, except for speed (20ppm vs 28ppm) and duty cycles (100,000 vs 130,000 pgs/month). Both were targeted at small-to medium-sized workgroups, had a maximum paper size of 11"x17", and contained 200 MHz processors with 32MB RAM upgradeable to 192 MB. Their fuser could be manually adjusted (low, medium or high) to support

continued, page 2

Engine Information

Engine Manufacturer	Fuji-Xerox®
Engine Type	Monochrome Laser
Date of Printer Introduction - Introduction Price (Street)	
Xerox® DocuPrint® N2025	Feb. 2000 - $1599.00
Xerox® DocuPrint® N2825N/2825DT/2825DX	Feb. 2000 - $1899.00
Genicom® microLaser® 280	Jan. 2000 - $1995.00
Genicom® microLaser® 280N	Jan. 2000 - $2365.00
ACOM® MICR N2025 (models 1 & 2)	Mar. 2000 - $1599.00
ACOM® MICR N2825 (models 1 & 2)	Mar. 2000 - $1899.00
Print Speed (ppm)	
Xerox® 2025	20ppm @ 600dpi /10ppm @ True 1200dpi
Xerox® 2825	28ppm @ 600dpi /14ppm @ True 1200dpi
Genicom®	28dpi
ACOM®	20ppm @ 600dpi /14ppm @ 1200dpi
Print Resolution (dpi)	
Xerox®	600/1200/1200IQ
Genicom®	1200 @ 28dpi
ACOM®	600/1200/1200IQ
Duty Cycle (pages per month)	
Xerox® DocuPrint® N2025	100,000
Xerox® DocuPrint® N2825N/2825DT/2825DX	130,000
Genicom® microLaser® 280/280N	150,000
ACOM® MICR N2025 (models 1 & 2)	100,000
ACOM® MICR N2825 (models 1 & 2)	130,000

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WWW.SCC-INC.COM

Get the latest information on the web at Static Control's Xerox® DocuPrint® N2025/N2825 Online Engine Center at
www.scc-inc.com

System Support Series™ documents are available on our Web site in Adobe® Acrobat® format.

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

800 488 2426 (USA)
919.774.3808 (Int'l)
+44 (0) 118.923.8800 (UK)
info@scc-inc.com (US Email)
info@scceurope.co.uk (UK Email)
www.scc-inc.com

Version 2 - April 2002

Engine Reference Information, continued

different types of print media, and featured "Secure Print" for security of network printing and "Proof Print", which allowed the review of multi-copy jobs at the printer before releasing the entire job (from the front panel). A personal identification number (PIN) entered from the front panel was required to release jobs to print.

Standard print resolution was 600x600 dpi, with a maximum of 1200x1200. Print speed dropped to 14ppm in the 1200 dpi mode, however, 1200 dpi "Image Quality" mode was said to be equivalent to 1200 dpi while maintaining the rated print speeds of 20ppm and 28ppm, thanks to Xerox's XIE resolution enhancement technology. A duplexing feature was optional for both models. The N2825 replaced the five-year-old DocuPrint N24, and was available in three versions - the network-ready N2825N, the network-ready and duplex-standard N2825DT, and the network-ready, duplex and hard-disk-standard N2825DX.

Two other OEMs released their versions of the Xerox models at about the same time. ACOM Solutions® introduced four MICR-enhanced versions of the N2025 and N2825, while Genicom® released their microLaser® 280 (base) and 280N (network-ready) versions. All were based on the same Fuji-Xerox engine and used consumables with the same specs as the Xerox models (a toner cartridge with a 17,000 page yield and a maintenance kit containing a fuser and bias transfer roller, yield 200,000 pages).

Tools and Supplies

Recommended for Basic Remanufacturing:

- Phillips Screwdriver
- Small Screwdriver
- Needle Nose Pliers
- Hook Tool (HTOOL)
- Funnel for Toner Bottle
- 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® 2825 Toner (X2085TONER)
- Shallow Trough for Dipping the Wiper Blade

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.

Cartridge Information

OEM Part Number	
Xerox® DocuPrint® N2025	113R443
Xerox® DocuPrint® N2825N/2825DT/2825DX	ACOM MICR 70-2028-0701
Genicom® microLaser® 280/280N (Non-MICR)	ML-280X-AA (Replaces 6A1215P01 & LN28XAA)
Genicom® microLaser® 280/280N (MICR)	ML-280X-MA
ACOM® MICR N2025/N2825N (model 1 & 2 MICR enchanced printers)	70-2028-0700
ACOM® MICR N2025/N2825N (model 2 Tri-Mode printers)	70-2028-0001
OEM Rated Page Yield	17,000
Cartridge List Price* - Typical Cartridge Wholesale Price*	
Xerox® DocuPrint® N2025	$251 (avg) - $210 (avg)
Xerox® DocuPrint® N2825N/2825DT/2825DX	$380 (web) - not available
Genicom® microLaser® 280/280N (Non-MICR)	$249 (web) - not available
Genicom® microLaser® 280/280N (MICR)	$494 (web) - not available
ACOM® MICR N2025/N2825N (model 1 & 2 MICR enchanced printers)	$380 (web) - not available
ACOM® MICR N2025/N2825N (model 2 Tri-Mode printers)	$225 (web) - not available
Maintenance Kit Part Number (OEM)	
Xerox® DocuPrint® N2025/N2825N/2825DT/2825DX	109R481
Genicom® microLaser® 280/280N (Non-MICR & MICR)	ML-280X-AG (Replaces 6A1245P01 & LN28XAB)
ACOM® MICR N2025/N2825N (model 1 & 2 MICR enchanced & model 2 Tri-Mode printers)	80-MAIN-0481

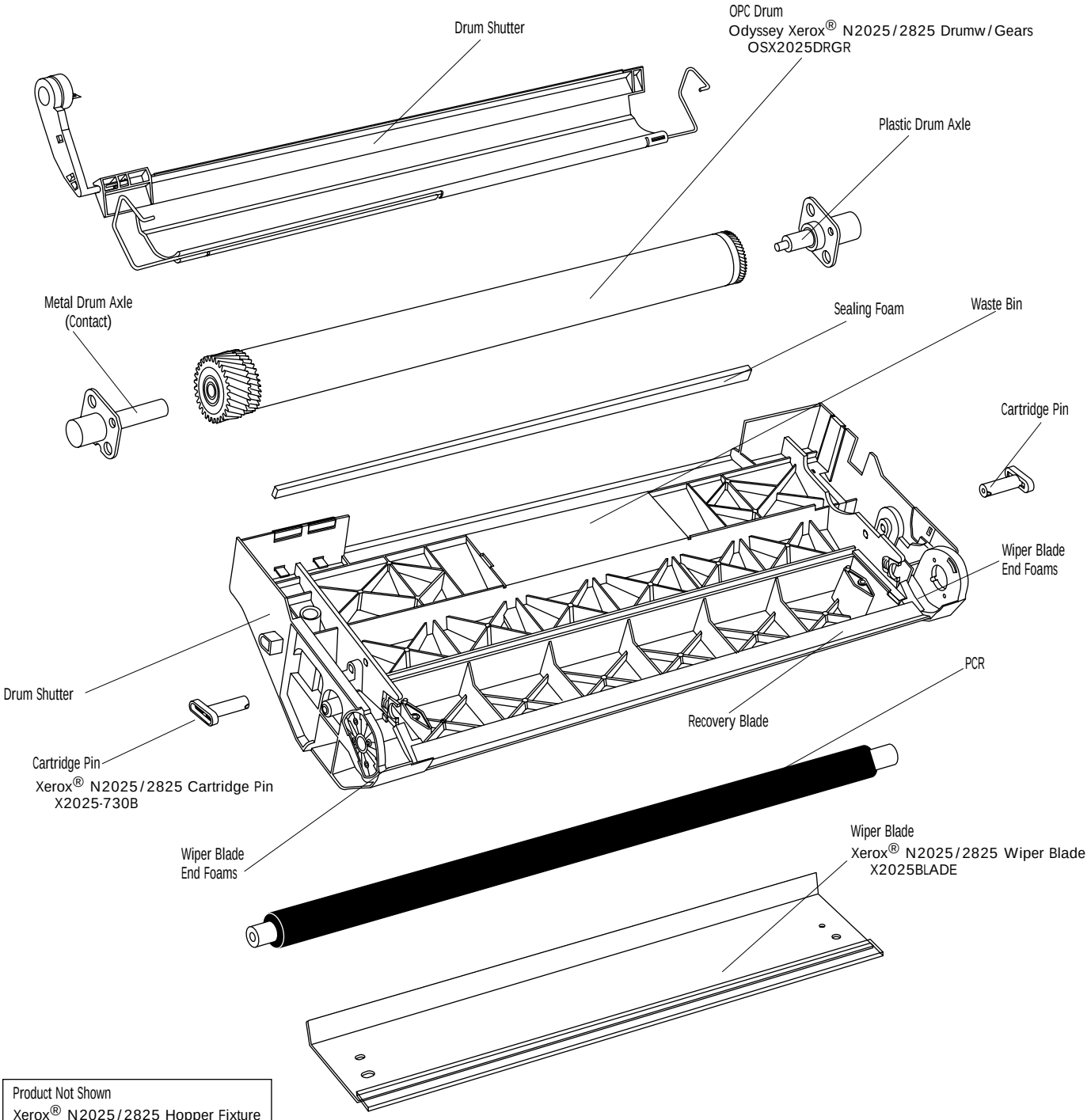
**Prices as of March 2002*

Compatibility

- Xerox® DocuPrint® N2025
- Xerox® DocuPrint® N2825N
- Xerox® DocuPrint® 2825DT
- Xerox® DocuPrint® 2825DX
- Genicom® microLaser® 280
- Genicom® microLaser® 280N
- ACOM® MICR N2025 model 1
- ACOM® MICR N2025 model 2
- ACOM® MICR N2825N model 1
- ACOM® MICR N2825N model 2

XEROX® DOCUPRINT® N2025/N2825

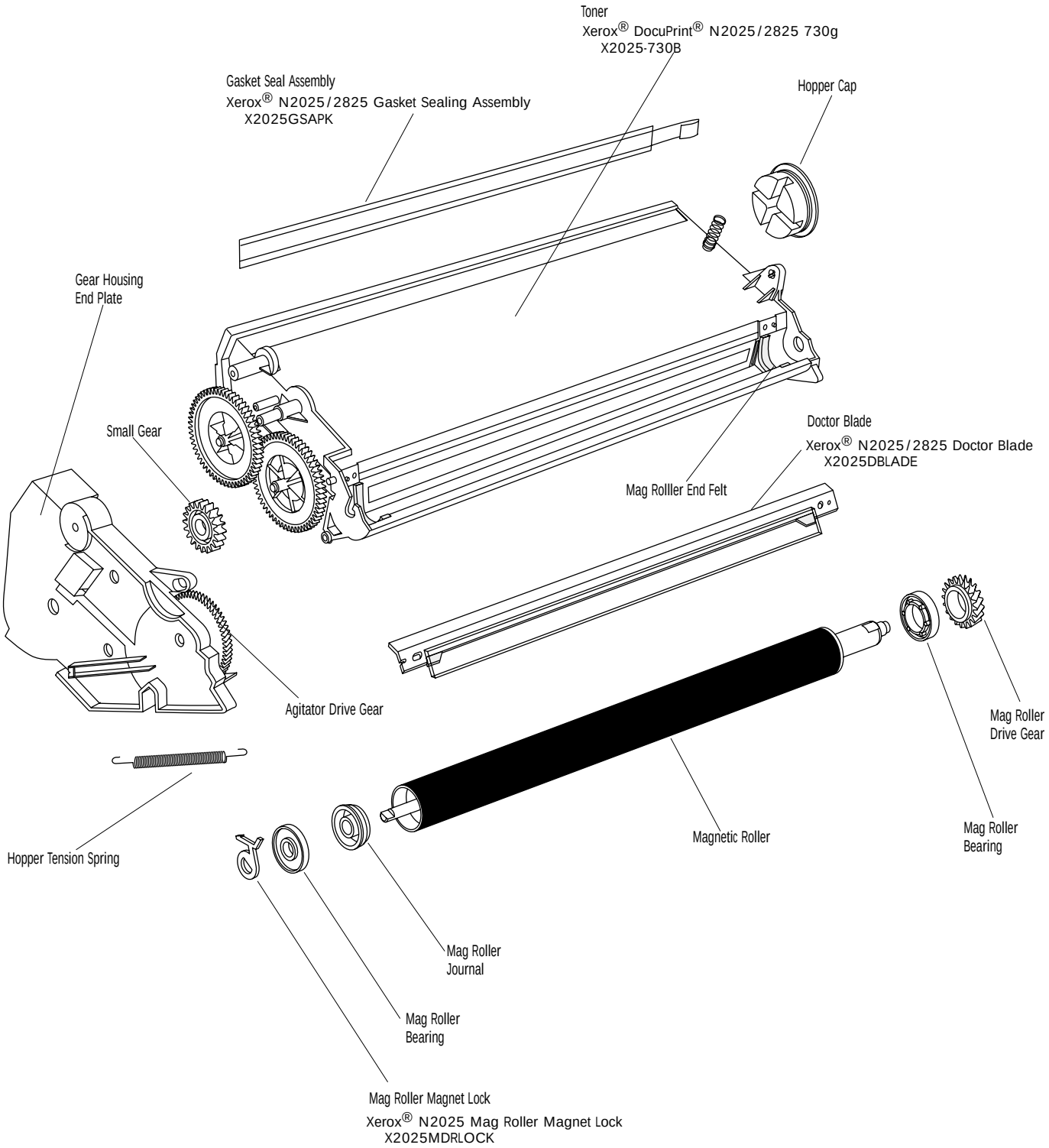
WASTE BIN SECTION



Product Not Shown
Xerox® N2025/2825 Hopper Fixture
X2025HJIG

XEROX® DOCUPRINT® N2025/N2825

HOPPER UNIT



Separating the Cartridge

1. Remove the cartridge pins.

The N2825 cartridge utilizes plastic cartridge pins with locking tabs. Rotate the pin (FIG 1) to align the locking tabs with the keyed slot on the cartrige (FIG 2). Pry the pins (one on each side of cartridge) out with a small screwdriver.

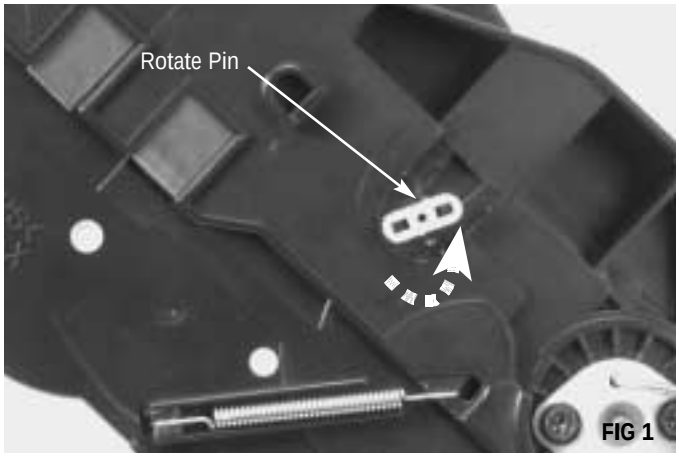


FIG 1

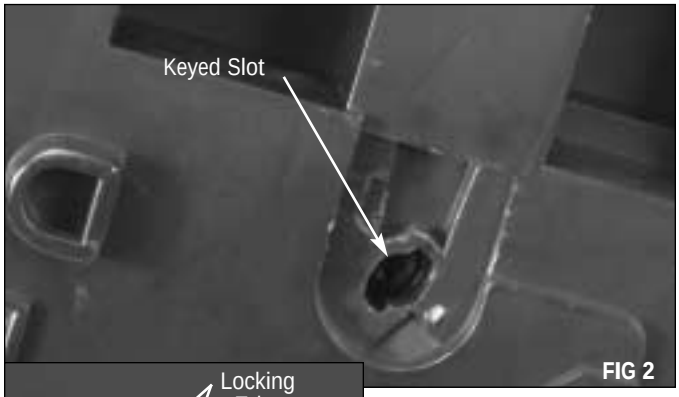
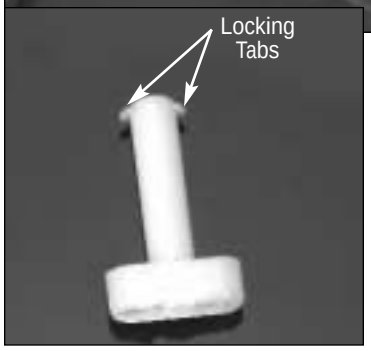


FIG 2



2. Unhook the tension spring.

Use the Hook Tool (HTOOL) to unhook the tension spring (FIG 3) and remove the tension spring from the cartridge.

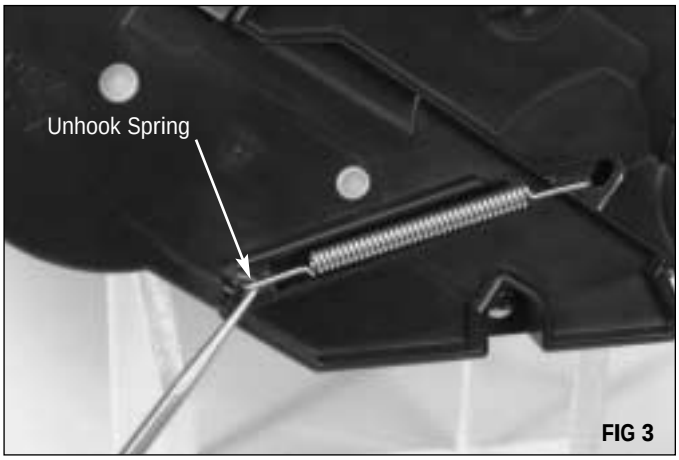


FIG 3

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

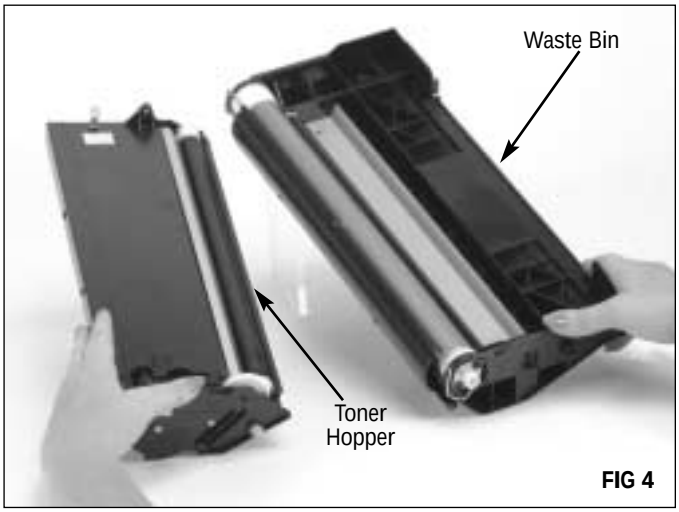


FIG 4

Disassembly of the Waste Bin Section

1. Remove the drum shutter.

Pull the shutter support bar out from the drum axles (FIG 5 & 6).

FIG 5

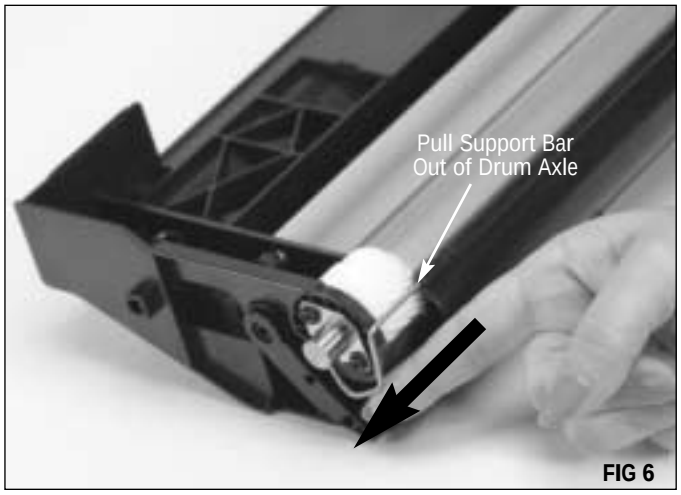


FIG 6

Remove the shutter arm by first releasing the locking tab from the inside of the cartridge, then pull the arm free (FIG 7 & 8).

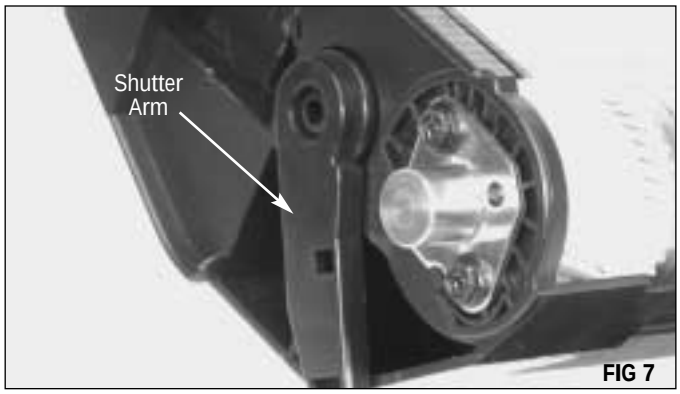


FIG 7

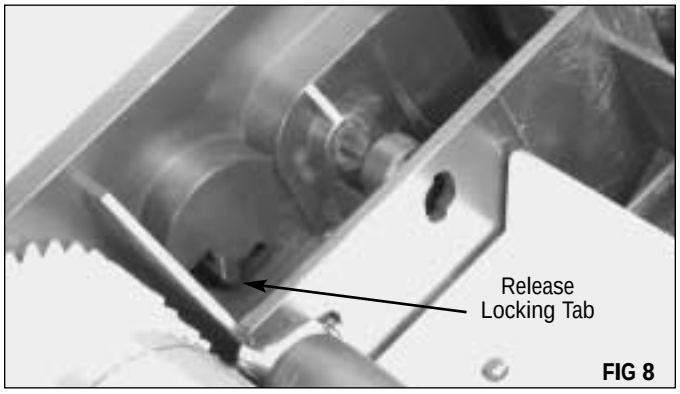


FIG 8

2. Remove the drum axles.

Remove the two screws from each drum axle (FIG 9 & 10). Remove both drum axles.

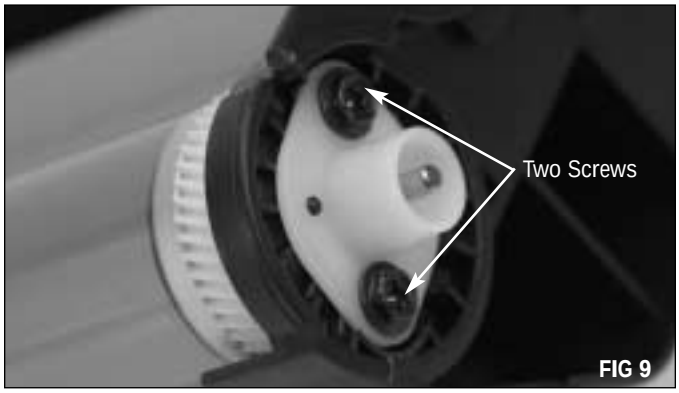


FIG 9

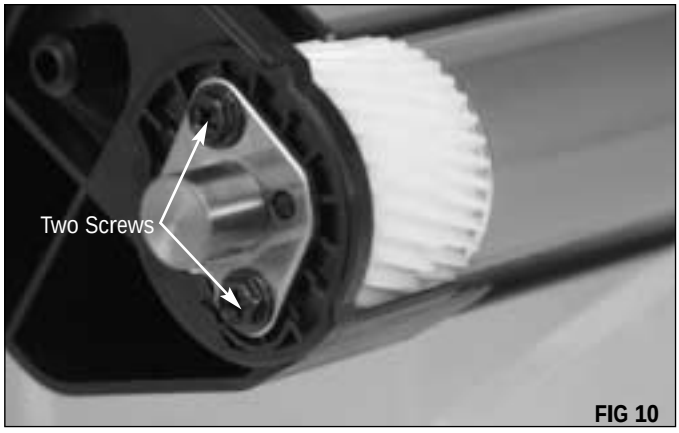


FIG 10

3. Remove the OPC drum.

Grasp the gears at each end of the drum and lift it straight up out of the waste bin (FIG 11).

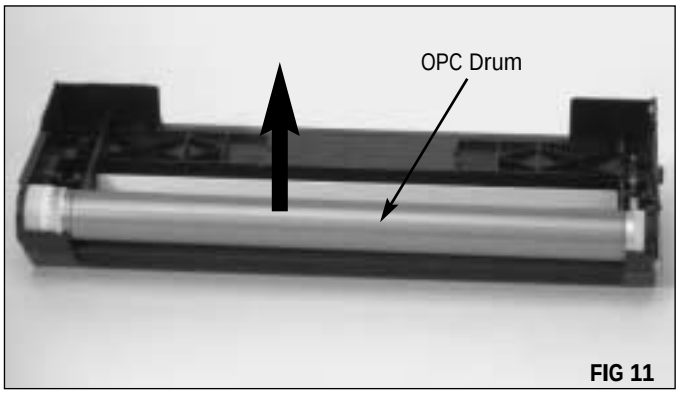


FIG 11

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 12).

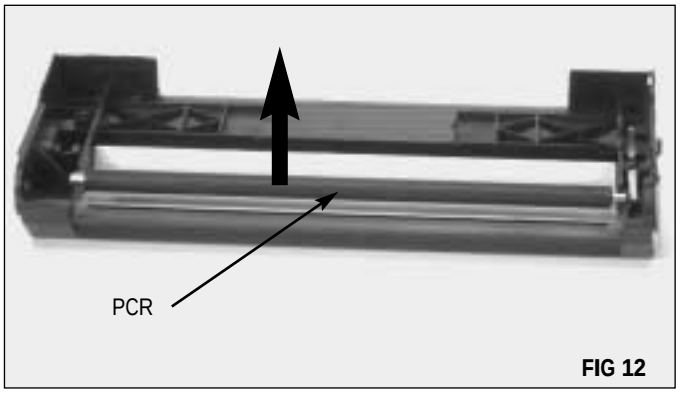


FIG 12

NOTE If you plan to reuse the PCR, wrap it in a lint-free cloth and 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 13). Remove the wiper blade. For best results, replace the wiper blade each time you replace the drum.

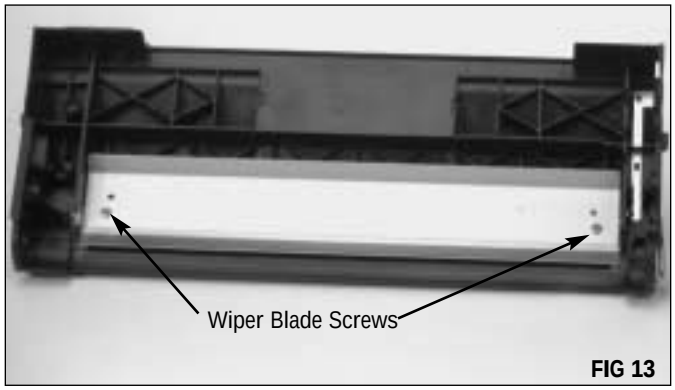


FIG 13

6. Clean the waste bin.

Empty the bulk of the waste toner. 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 14). Note the wiper blade sealing foam is not secured to the cartridge. Hold the foam in place while cleaning.

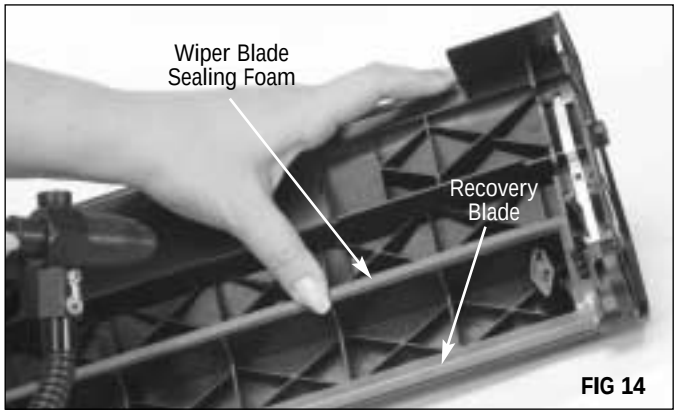


FIG 14

7. Inspect the sealing components in the waste bin (FIG 15).

The foam materials, such as the wiper blade sealing and end foams, should display a smooth, clean 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.

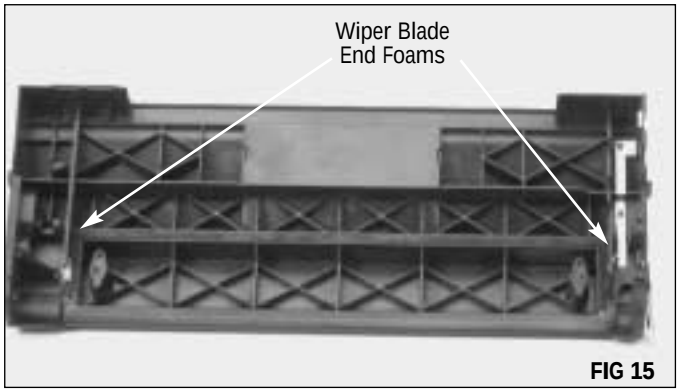


FIG 15

Contact your Static Support Team for product information, ordering, and technical support services.

8. Clean the PCR saddles.
Clean toner residue from both PCR saddles using a Lint-Free Swab (LFSWAB) dampened with isopropyl alcohol (FIG 16).

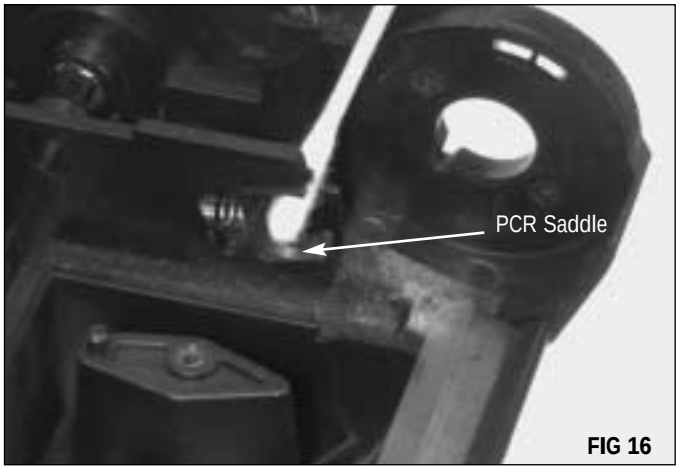


FIG 16

9. Clean the electrical contact.
Clean toner residue from the electrical contact using a lint-free swab dampened with isopropyl alcohol (FIG 17).

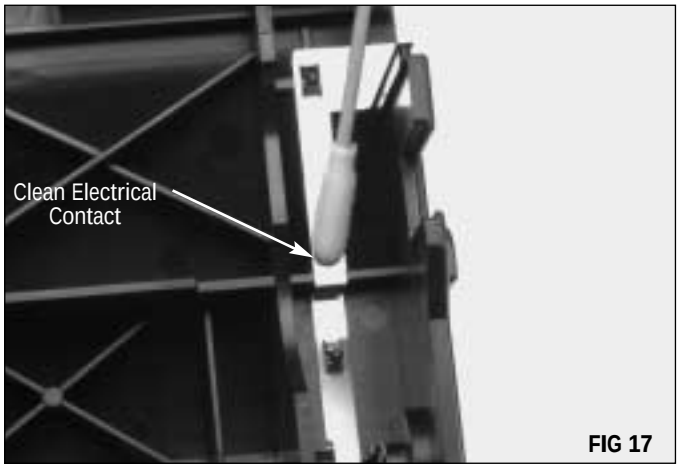


FIG 17

Disassembly of the Hopper Section

1. Remove the gear housing end plate.
Remove the two screws that secure the mag roller end plate (FIG 18). Remove the end plate. The agitator drive gear will come off with the end plate (FIG 19).

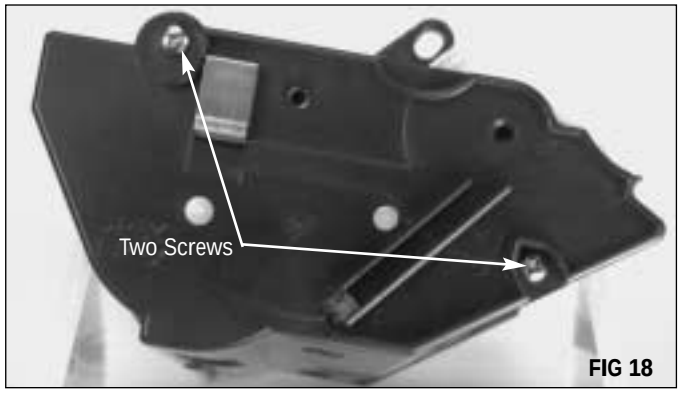


FIG 18

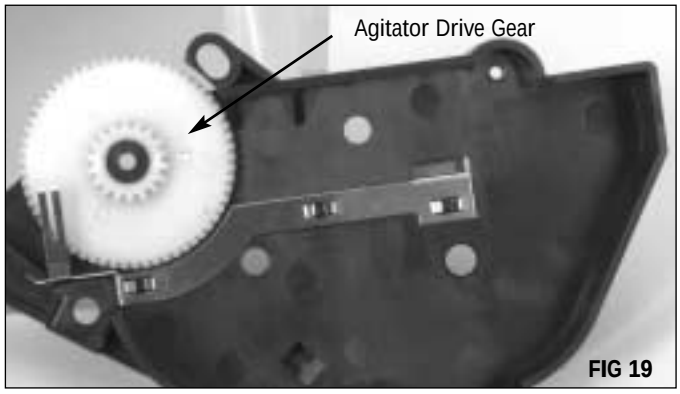
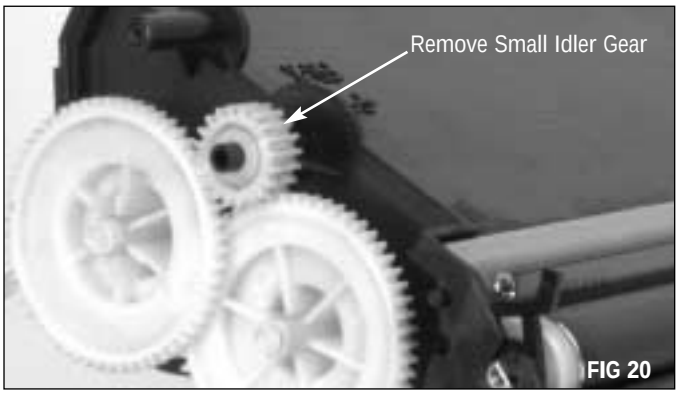


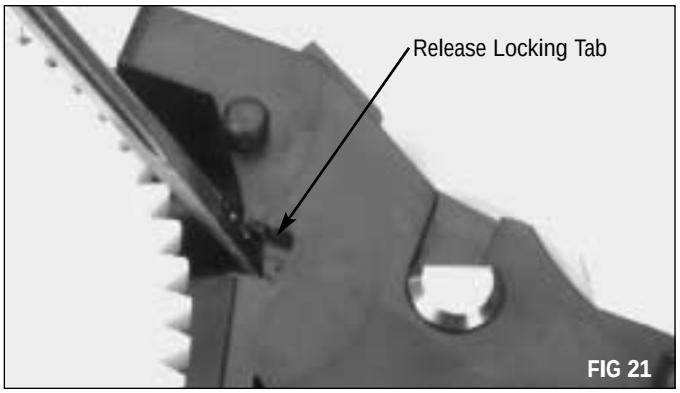
FIG 19

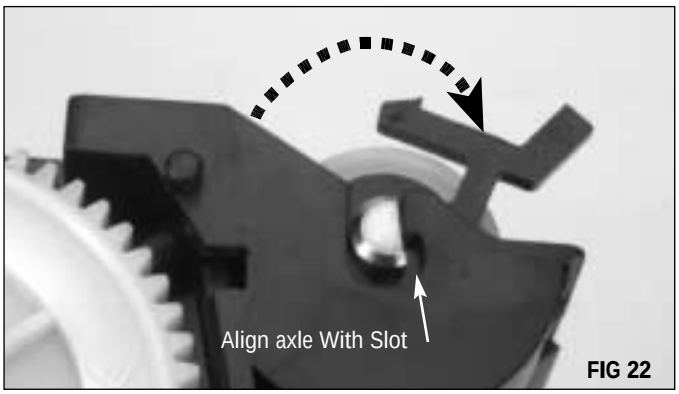
2. Remove the small idler gear (FIG 20).



3. Release the mag roller magnet lock.

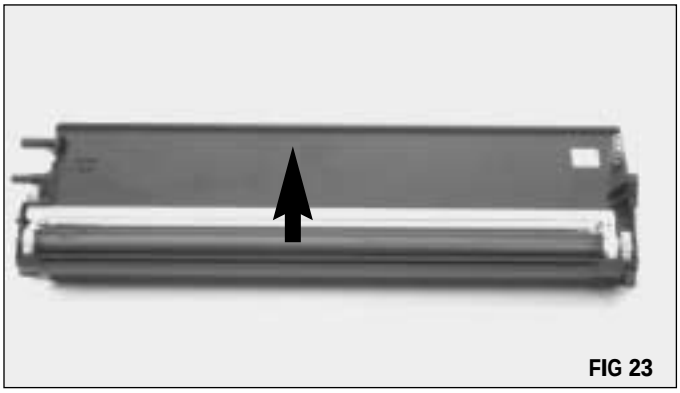
Use a small screwdriver to release the locking tab on the mag roller magnet lock (FIG 21). Then rotate the mag roller magnet lock until the keyed axle on the mag roller is aligned with the slot on the cartridge (FIG 22).

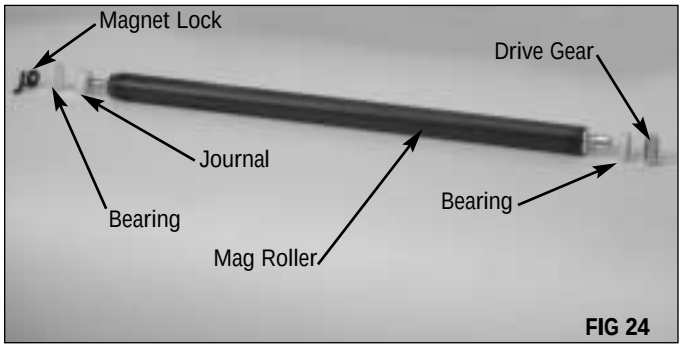




4. Remove the mag roller.

Grasp each end of the mag roller assembly and lift it from the hopper (FIG 23). The mag roller assembly consists of the mag roller, two bearings, drive gear, Journal and magnet lock (FIG 24).





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 25). Remove the doctor blade.

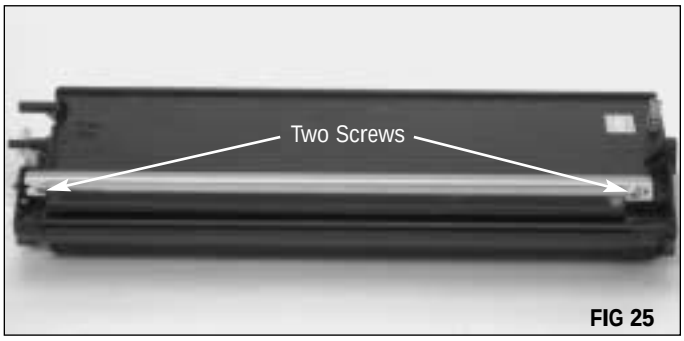


FIG 25

6. Remove the hopper cap.
Use needlenose pliers to loosen and remove the larger hopper cap (FIG 26). It is not necessary to remove both caps.

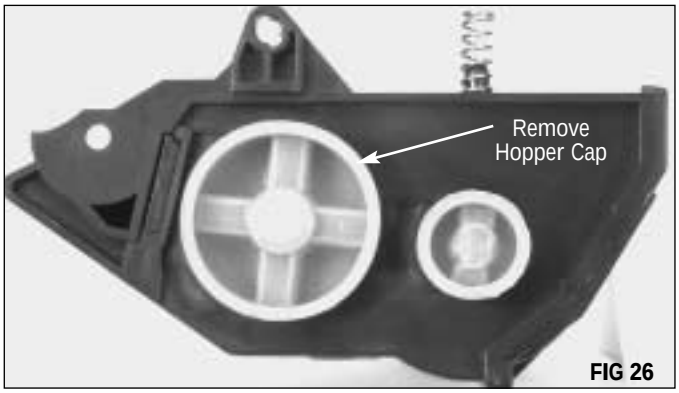


FIG 26

7. 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 27).

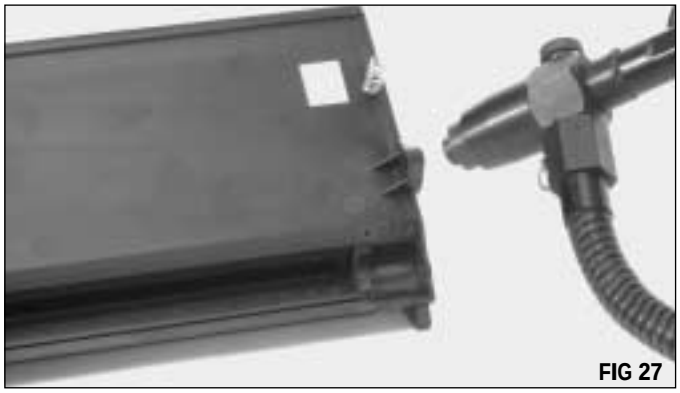


FIG 27

8. Inspect the sealing components in the hopper section and replace as required.
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.

Contact your Static Support Team for product information, ordering, and technical support services.

Assembly of the Hopper Section

1. Install the doctor blade.
Clean the blade with with dry, filtered, compressed air.

Position the doctor blade on the locating posts and secure with the two screws (FIG 28).

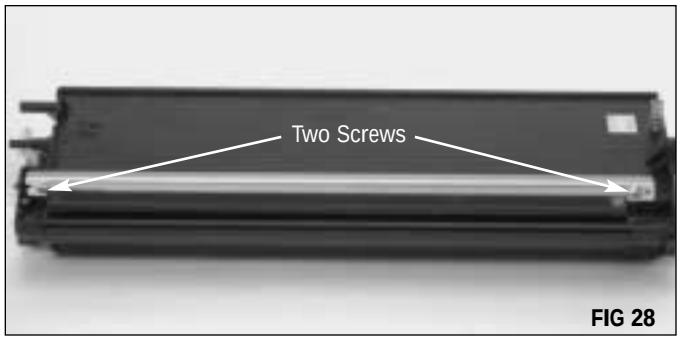


FIG 28

2. Install the mag roller.
Clean the surface of the mag roller with dry, filtered, compressed air only. Use a lint-free swab or a Lint-Free Cleaning Cloth (LFCCLOTH) to clean the bearings, drive gear, stabilizer and magnet lock (FIG 29 & 30.

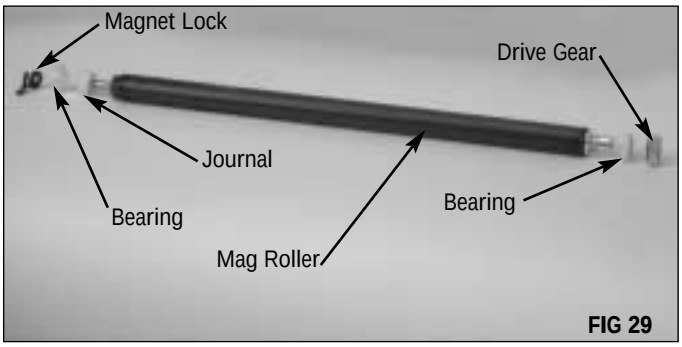


FIG 29


FIG 30

3. Position the mag roller magnet lock.
Rotate the mag roller magnet lock until the locking tab becomes engaged (FIG 31 & 32).

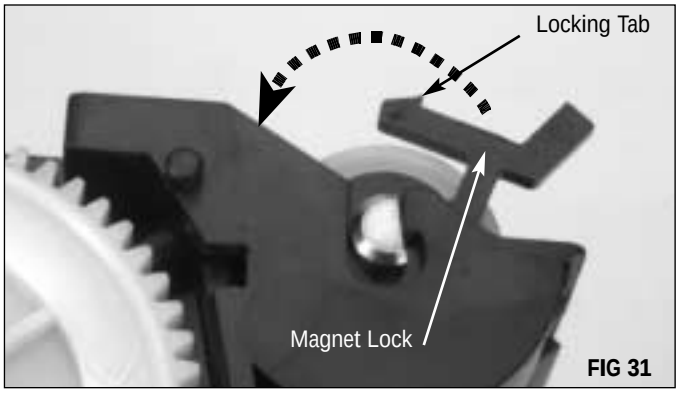


FIG 31

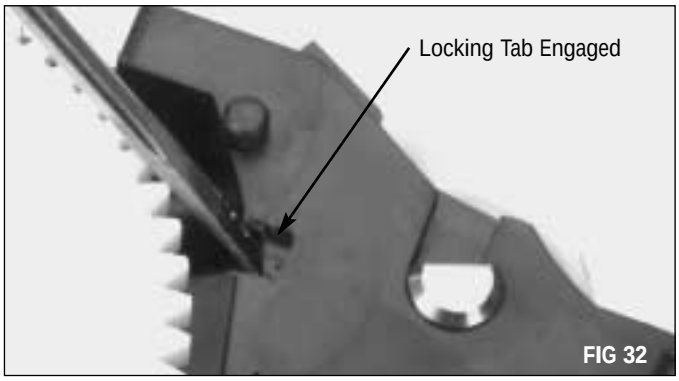


FIG 32

4. Fill the hopper with toner and replace the hopper cap.

5. Clean the electrical contact on the mag roller end plate.
Clean toner and debris from the electrical contact using a lint-free swab dampened with isopropyl alcohol (FIG 33).

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

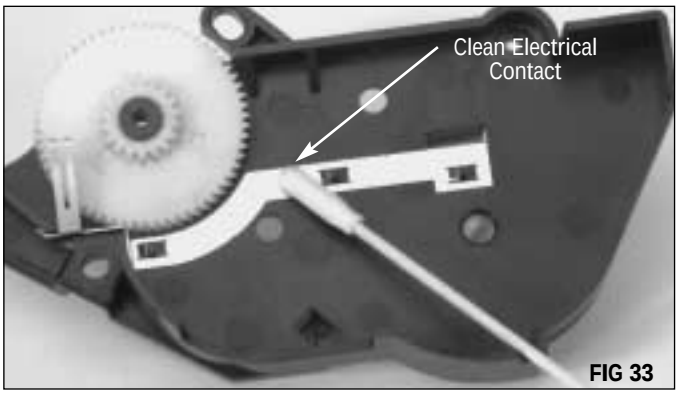


FIG 33

6. Replace the small idler gear (FIG 34).

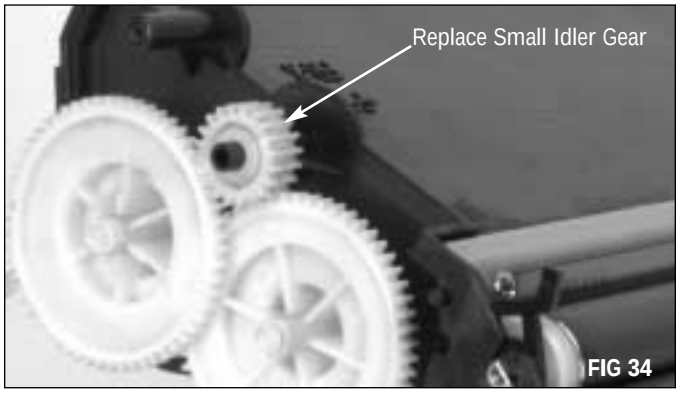


FIG 34

7. Install the gear housing end plate.
Replace the gear housing end plate and secure with the two screws (FIG 35).

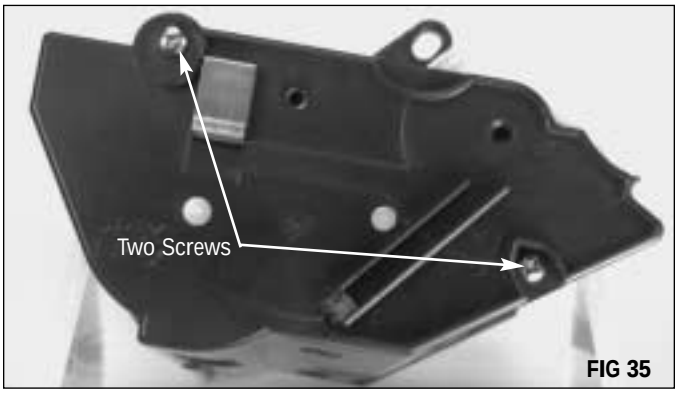


FIG 35

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.

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 36). Examine the blade to ensure even coverage.

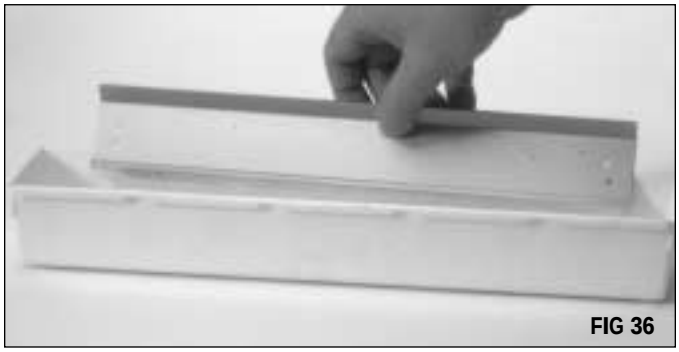


FIG 36

2. Install the wiper blade.
Make sure the wiper blade sealing foam is in position in its slot (FIG 37). Replace the wiper blade and secure with the two screws (FIG 38).

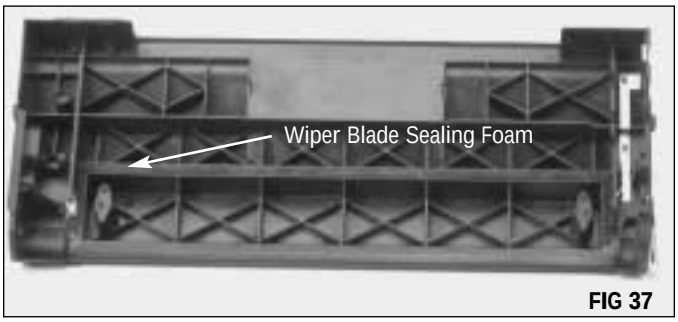


FIG 37

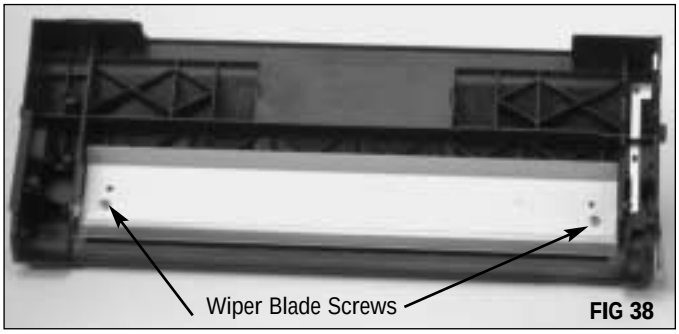


FIG 38

3. Clean and inspect the PCR.
If you are reusing an 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 39)

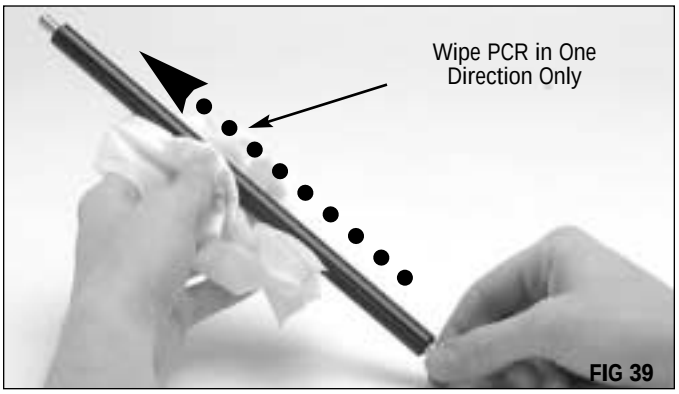


FIG 39

4. Install the PCR (FIG 40).
The PCR shafts should fit securely in the saddles at each end of the waste bin.


FIG 40

5. Clean and inspect the drum.
If you plan to reuse the drum, clean it with dry, filtered, compressed air.

6. Pad the drum.
Pad the coated area of the drum with Kynar® lubricating powder (FIG 41). Avoid getting Kynar on the drum gears.


FIG 41

7. Install the drum (FIG 42).


FIG 42

8. Install both drum axles.

Secure each drum axle with two screws. The plastic axle goes on the single helical gear side (FIG 43). The metal axle goes on the double helical gear side (FIG 44).

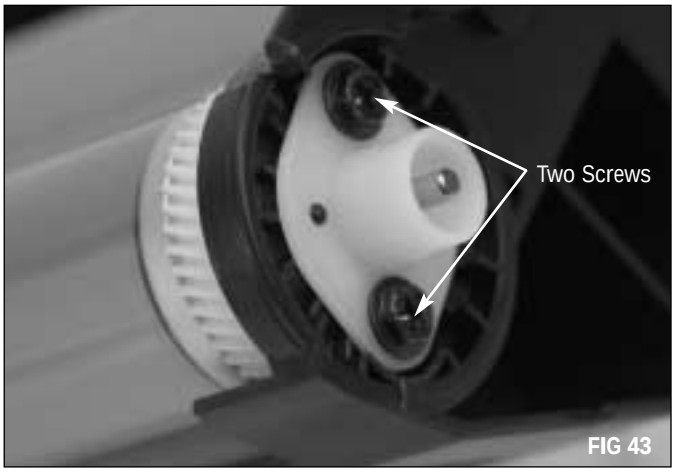


FIG 43

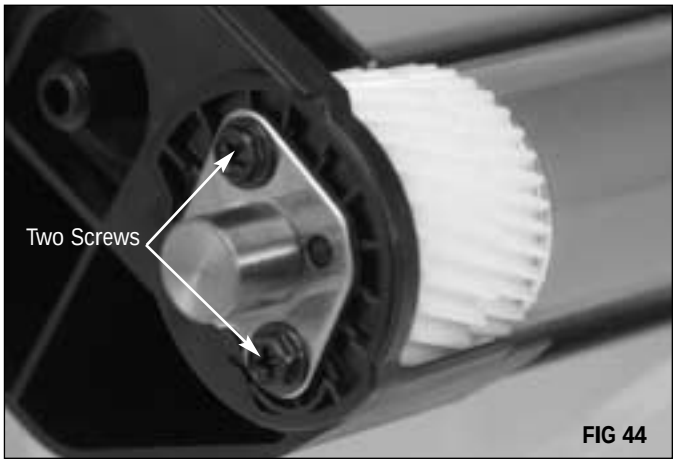


FIG 44

9. Rotate the drum.

Rotate the drum in its normal rotational direction, as indicated by the arrow in FIG 45, 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 45

10 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 46).

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

FIG 46

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

11. Replace the drum shutter.

Place each end of the shutter support bar back into both drum axles (FIG 47 & 48).

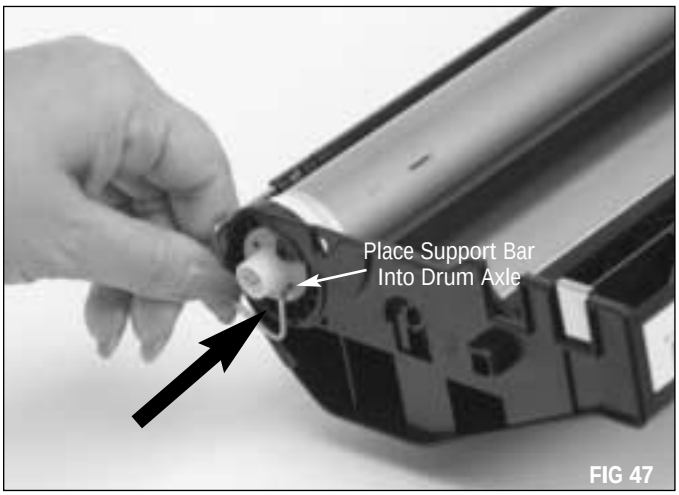


FIG 47

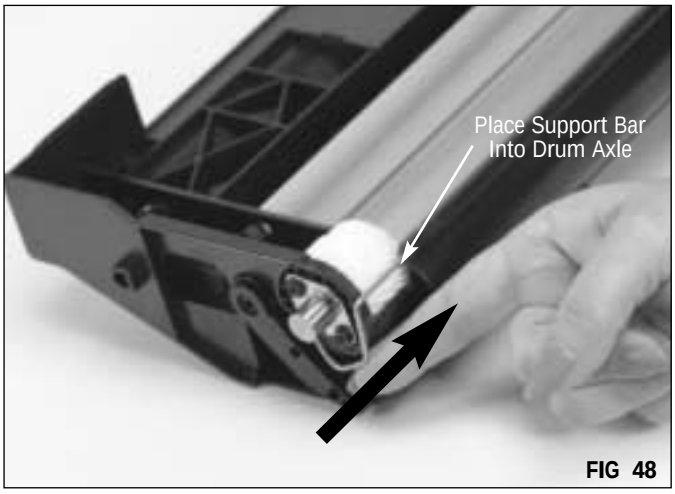


FIG 48

Place the shutter arm on its axle, making sure the locking tab engages (FIG 49 & 50).

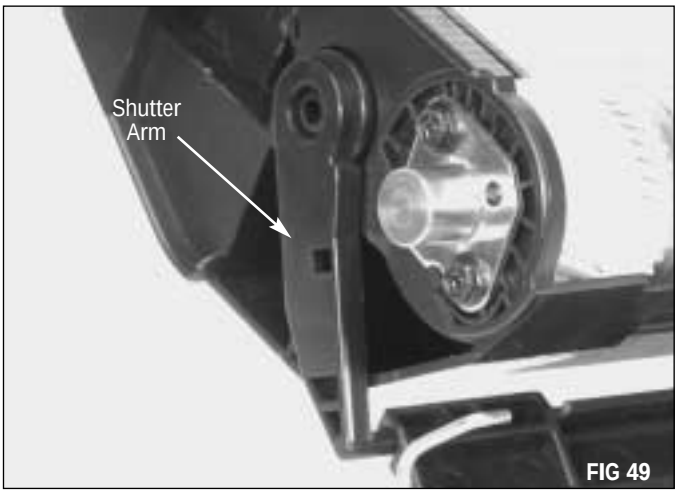


FIG 49

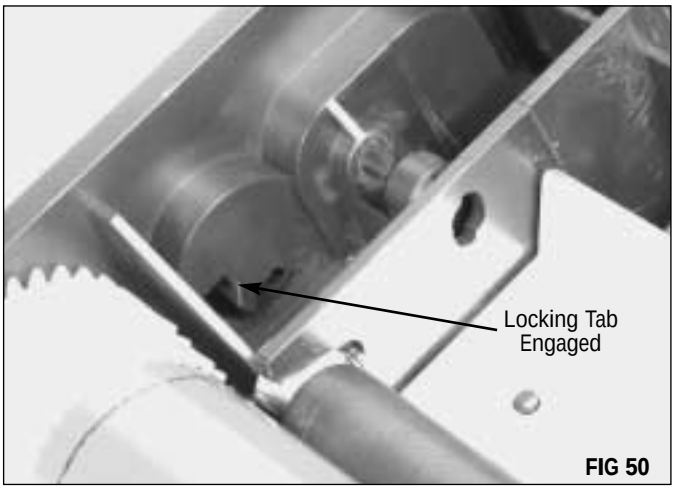


FIG 50

Assembling the Cartridge

1. Bring the two cartridge sections together as shown (FIG 51. Note there is only one compression spring on the toner hopper section. Position the end of the hopper compression spring on the positioning hub in the waste bin (FIG 52).

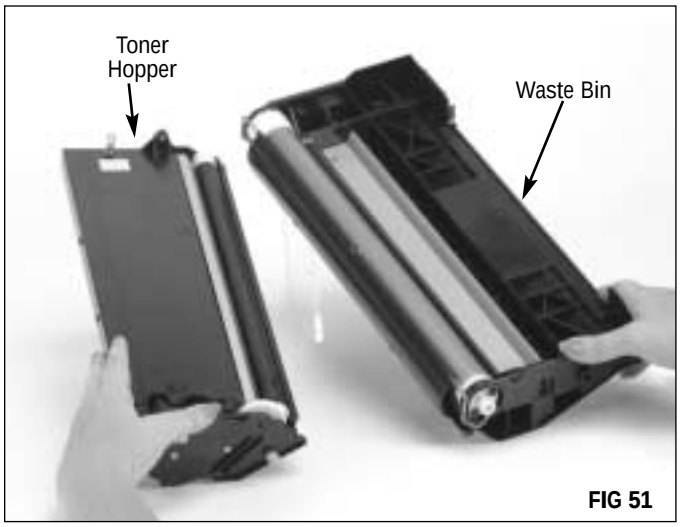


FIG 51

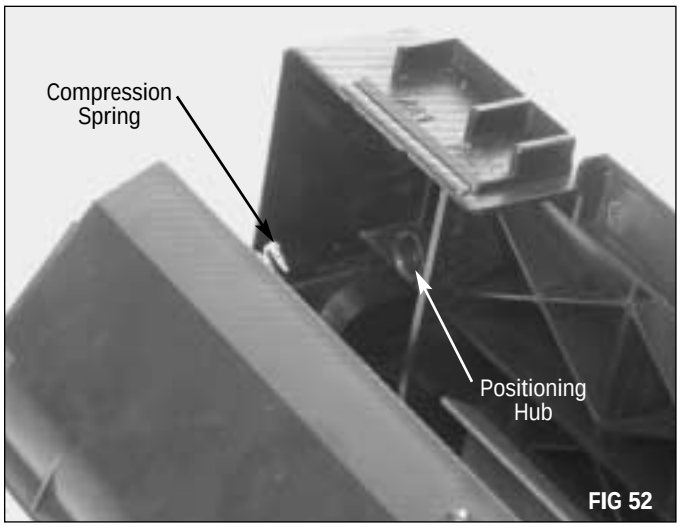


FIG 52

2. Replace the cartridge pins.
Align the locking tabs on the cartridge pin with the keyed slots on the cartridge (FIG 53). Insert the cartridge pin. Rotate the pin about a 1/2 turn to engage locking tabs (FIG 54).

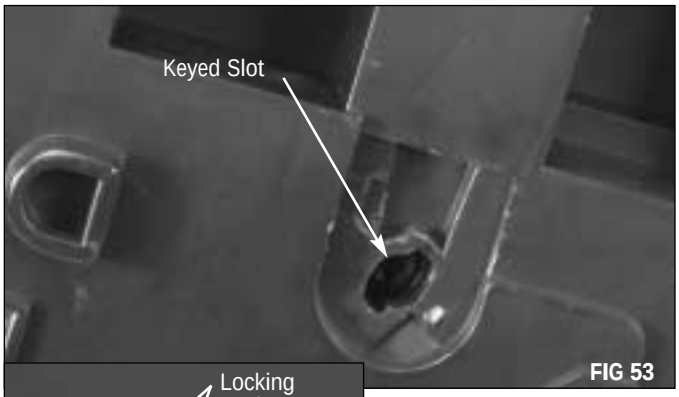
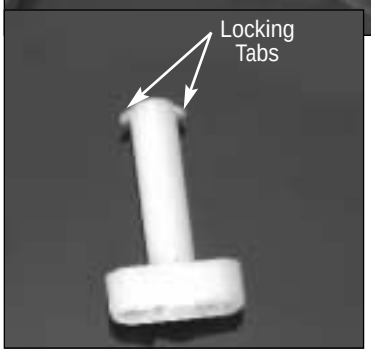


FIG 53



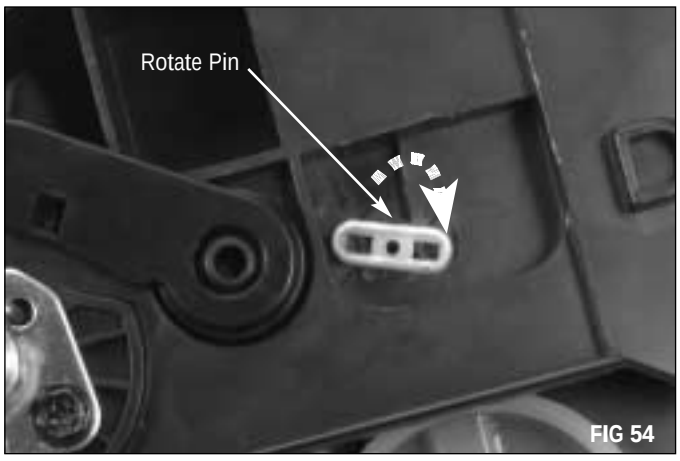


FIG 54

3. Engage the tension spring.

Use the hook tool to rehook the tension spring (FIG 55).

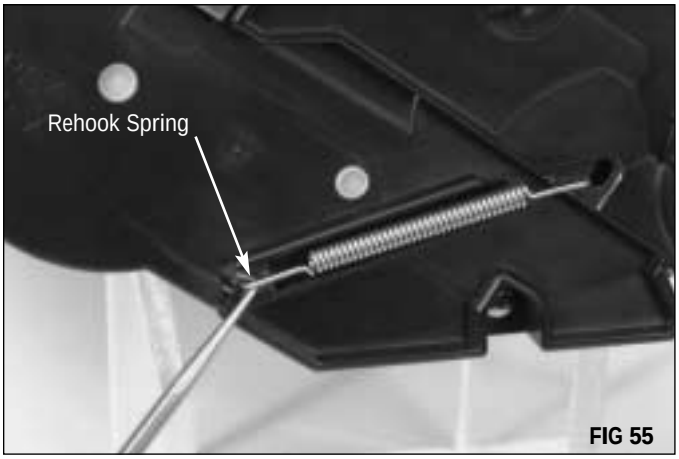


FIG 55

Notes

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We realize that the success of your business directly affects the success of Static Control. It's no longer a matter of keeping up with your competition, but surpassing them. That is why we invest so much time and effort in the technology necessary for your business to address new market opportunities quickly, and with confidence.

Where monochrome once ruled the industry color is now emerging and taking a foothold. It is our pledge to you, our customer, to do all we can to help you move into this new opportunity and others, as quickly and effortlessly as possible. We will continue to support monochrome markets, while building a comprehensive color technology library for your reference, along with products to support your growing business. Together we can build a partnership for a successful future.

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