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System Support Series™ 289

Xerox® XD100 (Sharp® AL1000)
Remanufacturing Instructions

Released in November 1998, the Xerox® Document WorkCentre XD100/102 digital copier/printers use the same 600-dpi Sharp engine found in the Sharp AL-1000/1010/1041 line. Unlike the Sharp machines, Xerox shipped the XD models with the printing capability installed. The XD offered a copy speed of 10 ppm and a print speed of 8 ppm. Aimed at the small office and home users, Xerox has aggressively marketed the XD100 series through superstores, catalogs, wholesale distribution and dealer channels. The combination of rising placements and high cartridge list prices makes this engine an attractive remanufacturing opportunity.

About the Cartridge

In August 1998, Sharp® released the AL-1000 family of digital laser copier/printers. The series consisted of three machines, AL-1000, AL-1010 and AL-1041. All machines featured a copy speed of 10 pages-per-minute (ppm) with a print speed of 8 ppm. The base AL-1000 and AL1010 models offered a user-installed printer capability upgrade. The high-end AL-1041 model included a scan once/print many feature and printer capabilities. Targeted at copier users in small businesses and home offices, the series was distributed through superstores, catalogs, and warehouse clubs. Sharp later used the same engine for an AL-1200 series which offered the same capabilities as the AL-1000 machines, but featured an increased copy speed of 12 ppm.

This Sharp engine features a dual-component developing system using a drum cartridge and a toner cartridge. Both toner and developer are housed in the toner cartridge and have OEM weights of 215g and 190g respectively. The XD100 series ships with a starter cartridge.

The assembly and disassembly of the cartridges is fairly easy. The wiper blade is made of polyurethane attached to a metal stamping. The doctor blade is in a fixed position and made of steel. The developer roller has an aluminum sleeve with a silver coating. It is important to note that although the Sharp and Xerox cartridges use the same internal components, the cartridges are not interchangeable between printers without modification.

Xerox® XD100 Engine Information

Engine Name	Sharp® AL1000
Engine Type	Monochrome, Digital Laser Copier/Printer
Date of Introduction	August 1998
Print Speed (pages per minute)	10 cpm (copying), 8 ppm (printing)
Duty Cycle	1,000 pages/month
Print Resolution (dpi)	600 x 600 dpi

Cartridge Information

Toner Cartridge OEM Part Number	6R914 (Xerox®)	AL-100TD (Sharp®)
Cartridge List Price*/Wholesale Price*	$187/$179 (Xerox®)	$250/$208 (Sharp®)
OEM Rated Page Yield	6,000 pages	
Drum Cartridge OEM Part Number	13R551 (Xerox®)	AL-100DR (Sharp®)
Cartridge List Price*/Wholesale Price*	$198/$165 (Xerox®)	$270/$214 (Sharp®)
OEM Rated Page Yield	18,000 pages	

*Prices as of February 2000

Printer Compatibility

Xerox® WorkCentre XD100/102/103F/120F/155F
Sharp® AL-1000/1010/1041/1200/1220/1250/1521

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WWW.SCC-INC.COM

Get the latest information on the web at Static Control's Xerox® XD100 Online Engine Center at
www.scc-inc.com

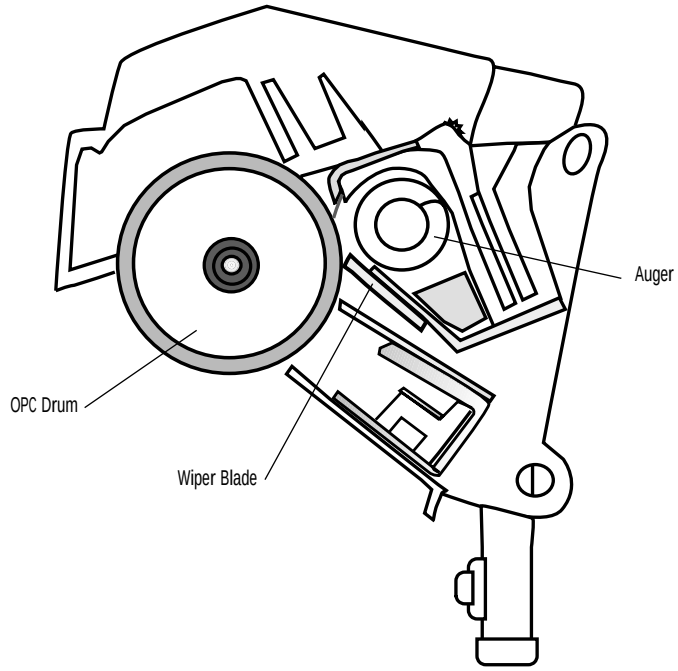
System Support Series™ Documents are available on our Web site in Adobe® Acrobat® format.

If you need additional information or technical assistance, please contact the Technical Support Group.

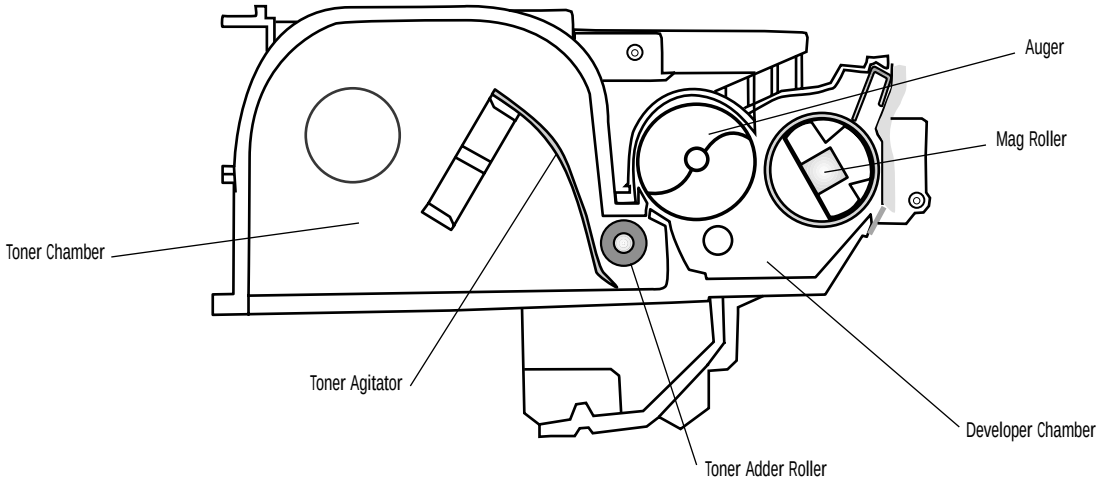
1.800.948.1072 (USA)
+44 (0) 118 9323 8800 (UK)
e-mail: techservices@scc-inc.com
www.scc-inc.com

Version 1 - February 2000

OPC Drum Unit Section



Toner Unit Section



Tools and Supplies You Will Need

Tools and Supplies:

- Phillips Screwdriver
- Small Flathead Screwdriver
- Hook Tool .....HTOOL
- Foam/Felt Scraper Tool .....FSTOOL
- Lint-Free Cleaning Cloth .....LFCCLOTH
- XD Hopper-Developer Cap Removal Tool ....XDHCRTOOL
- Compressed Air .....(See"Use of Compressed Air")

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.

Disassembly of the Toner Unit

1. Remove the two screws that secure the waste bin (FIG 1). Remove the waste bin (FIG 2).

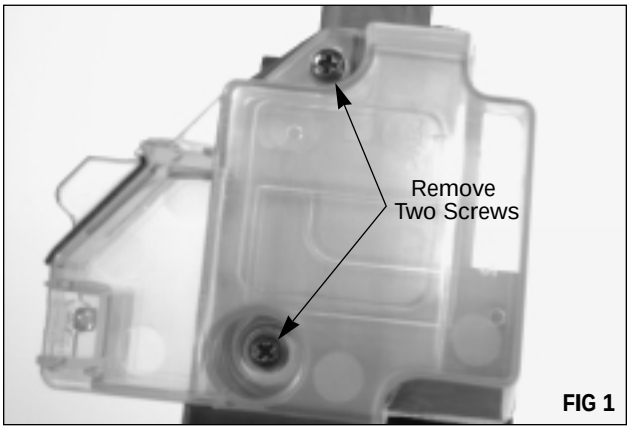


FIG 1

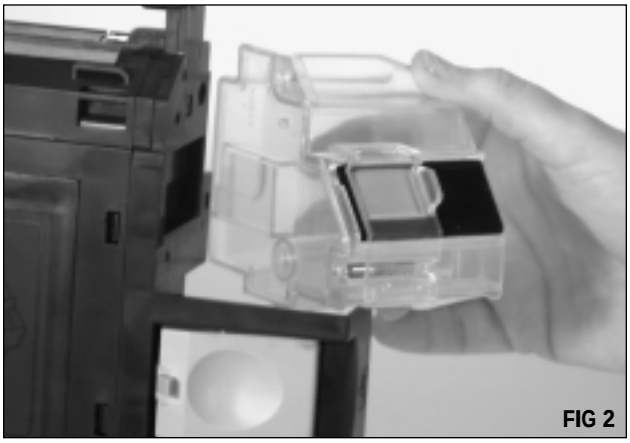


FIG 2

2. Remove the two screws that secure the end plate (FIG 3).

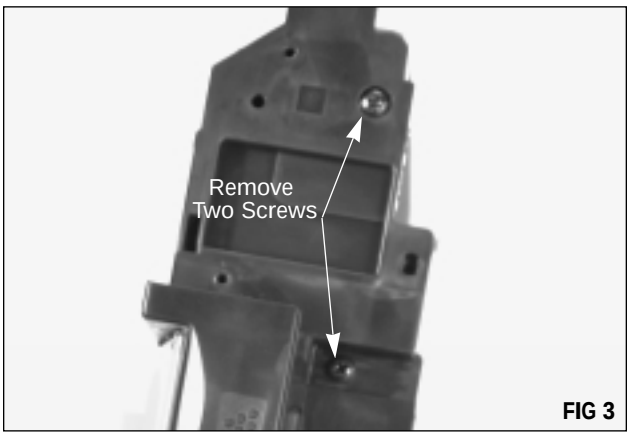


FIG 3

3. Pull out the top of the end plate and the locking tabs on the bottom of the cartridge will release (FIG 4). Remove the end plate.

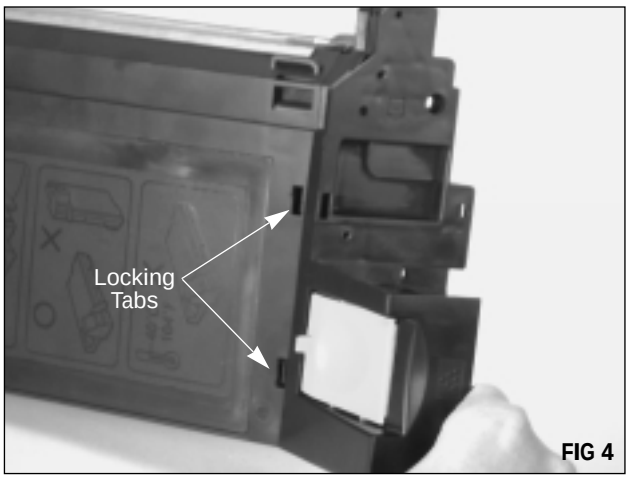


FIG 4

4. Remove the two screws that secure the developer section to the toner section (FIG 5).

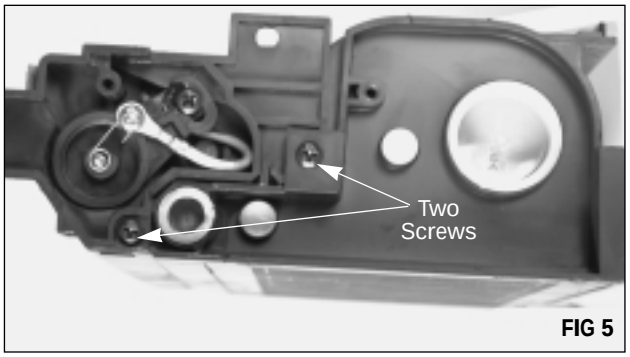


FIG 5

5. Carefully separate the developer section from the toner section (FIG 6).

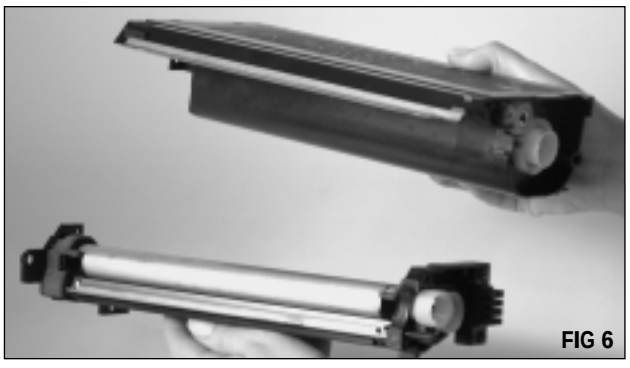


FIG 6

6. Thread the large end of the XD Hopper Cap Removal Tool (XDHCRTOOL) into the toner hopper cap in a counterclockwise direction (FIG 7).

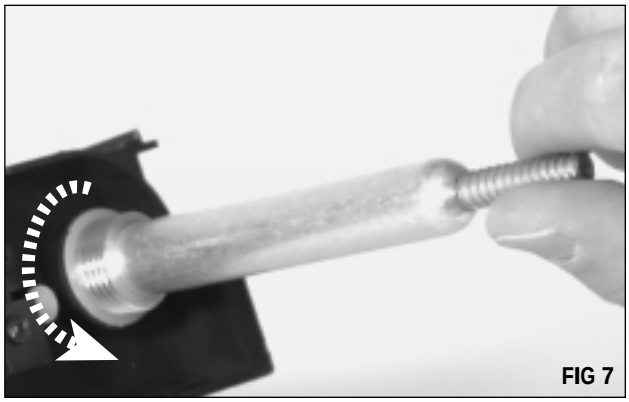


FIG 7

7. Remove the toner hopper cap (FIG 8).

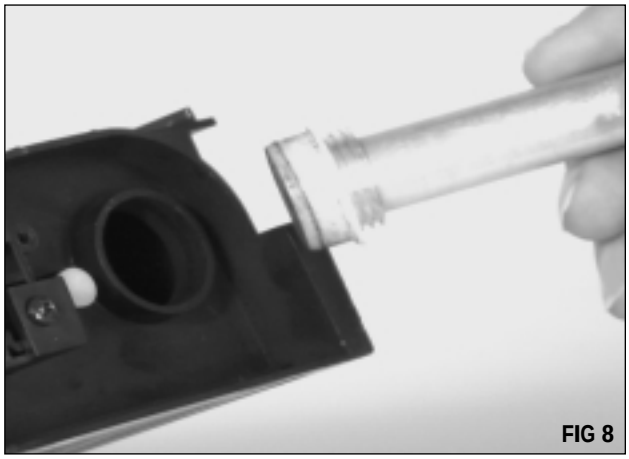


FIG 8

8. Thread the small end of the hopper cap removal tool into the developer cap in a counterclockwise direction (FIG 9).

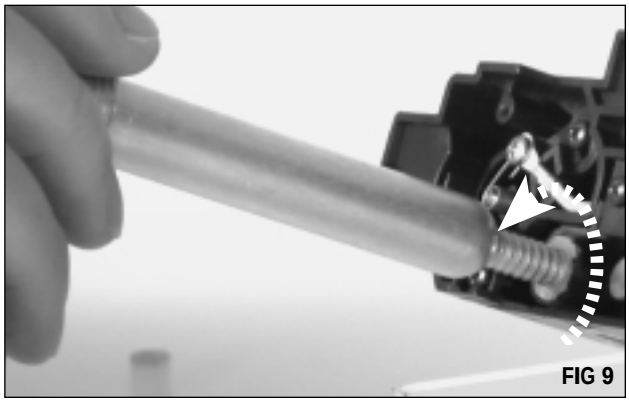


FIG 9

9. Remove the developer cap (FIG 10).

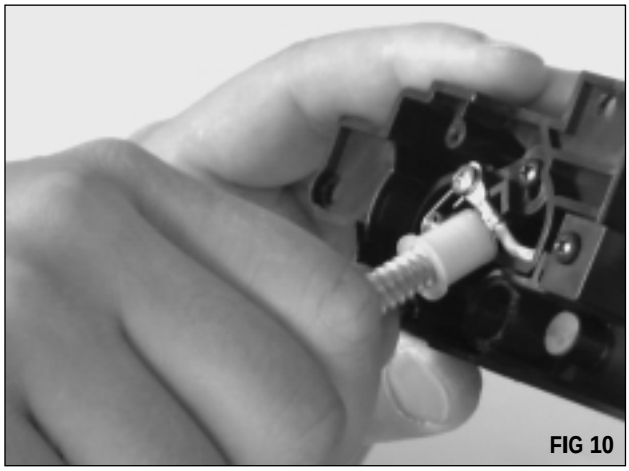


FIG 10

10. Clean the toner section with dry, filtered compressed air (FIG 11).

FIG 11

11. Clean the developer section with dry, filtered compressed air, rotating the developer roller to remove the remaining developer (FIG 12).

FIG 12

Reassembly of the Toner Unit

1. Reattach the developer section to the toner section and secure with the two screws (FIG 13).

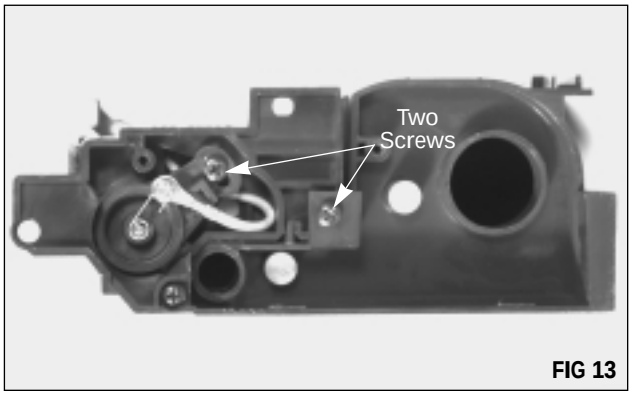


FIG 13

2. Fill the developer chamber with developer and replace the developer cap (FIG 14).

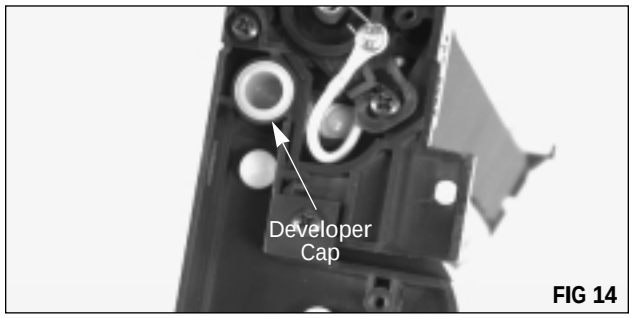


FIG 14

3. Fill the toner chamber with toner and replace the hopper cap (FIG 15).

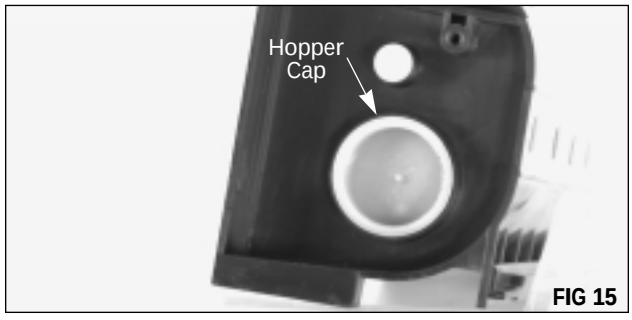


FIG 15

4. Replace the end plate by placing the locking tabs on the bottom of the plate into the corresponding slots on the cartridge. Then press the top of the plate into position (FIG 16).

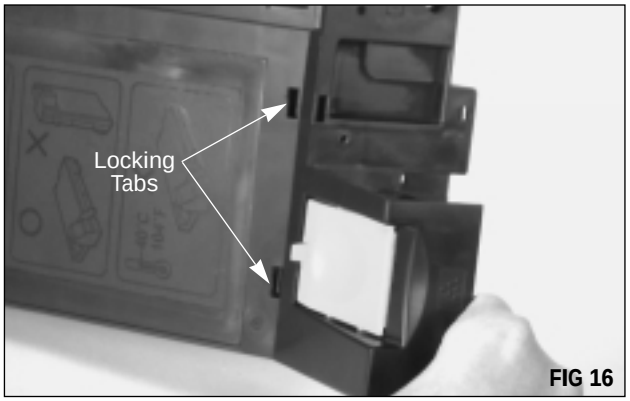


FIG 16

5. Secure the end plate with the two screws (FIG 17).

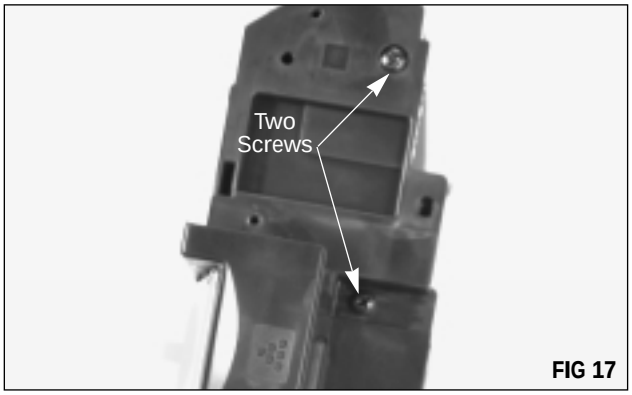


FIG 17

6. Replace the waste bin and secure with the two screws (FIG 18).

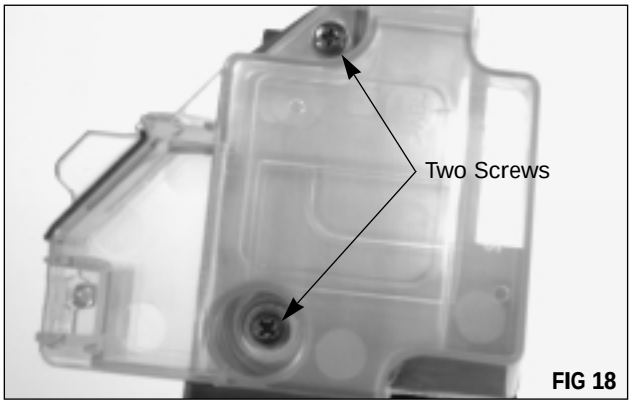


FIG 18

Disassembly of the Drum Unit

1. There are four locking tabs that secure the green drive gear cover (FIG 19). Squeeze in on the cover as shown to release the tabs (FIG 20) and remove the cover.

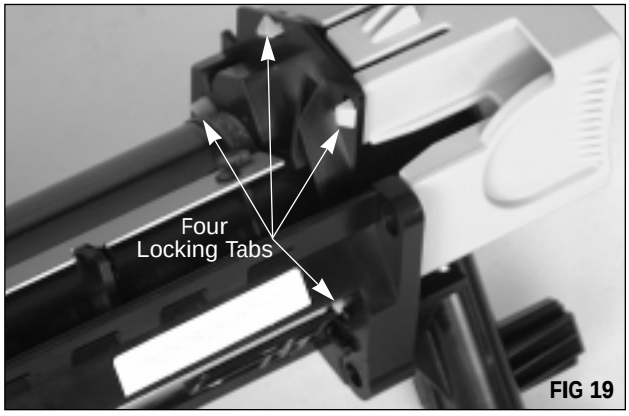


FIG 19

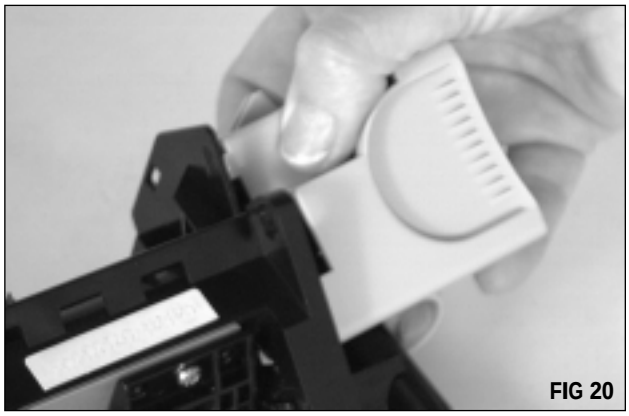


FIG 20

2. Use a small flathead screwdriver to rotate the locking hub on the drum axle from the lock position (FIG 21) to the release position (FIG 22).

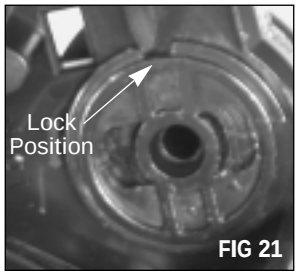


FIG 21

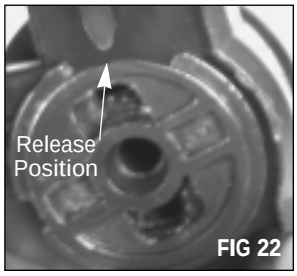


FIG 22

3. Pry the drum axle loose and remove it (FIG 23).

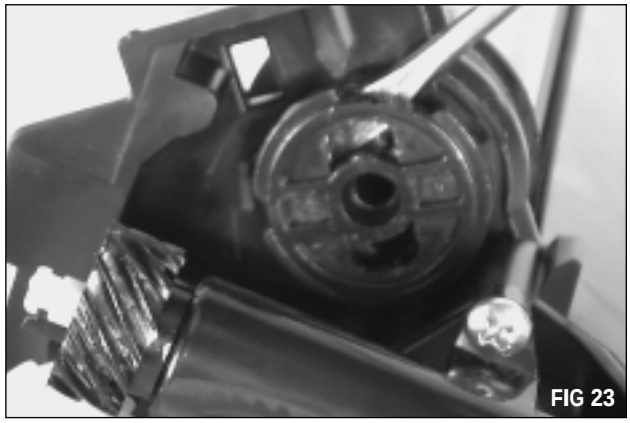


FIG 23

4. Remove the OPC drum, being careful to handle it by the drum gear and the opposite end with a lint-free cleaning cloth (FIG 24). If you plan to reuse the drum, store it in an area where it is protected from light and impact damage. Clean the drum with dry, filtered compressed air.

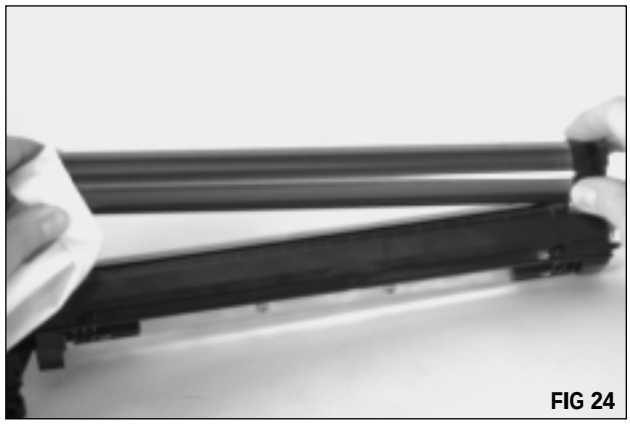


FIG 24

5. Remove the two screws that secure the corona wire assembly (FIG 25).

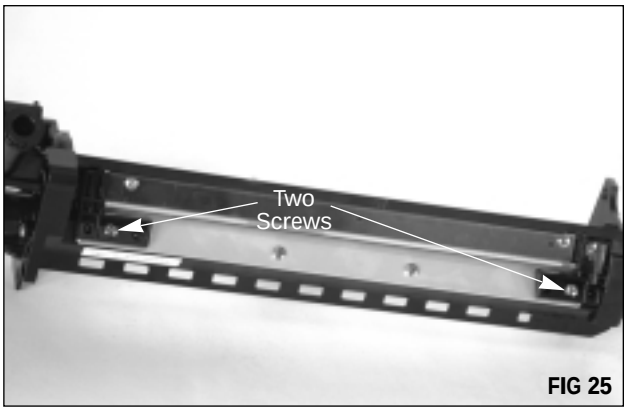


FIG 25

6. Pull the housing out slightly with your left hand as shown (FIG 26). Then lift up the right end bracket and slide the corona wire assembly out to the right (FIG 27). Clean the assembly with dry, filtered compressed air.

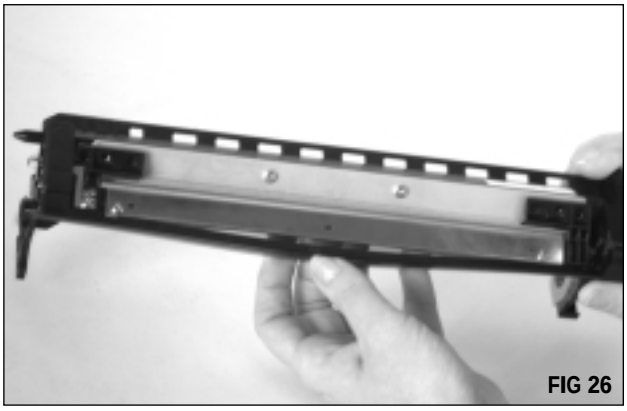


FIG 26

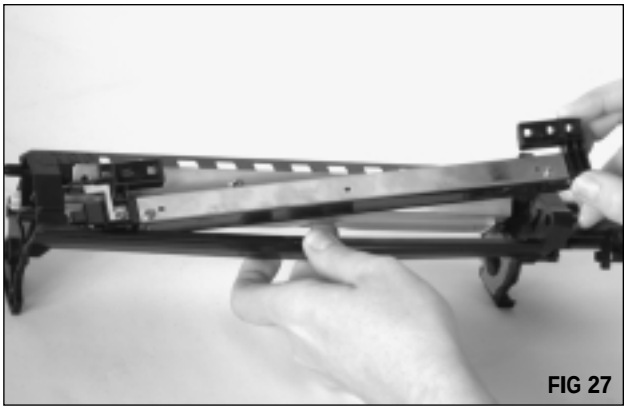


FIG 27

7. Remove the two screws that secure the wiper blade (FIG 28). Remove the wiper blade. Clean the wiper blade with dry, filtered compressed air.

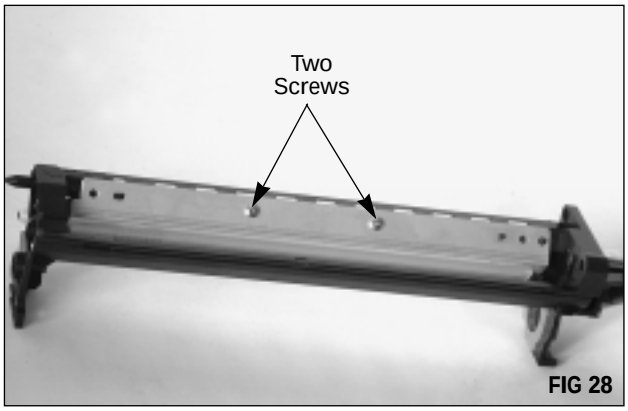


FIG 28

8. Clean the toner unit housing with dry, filtered compressed air including all felt and foam sealing components (FIG 29).

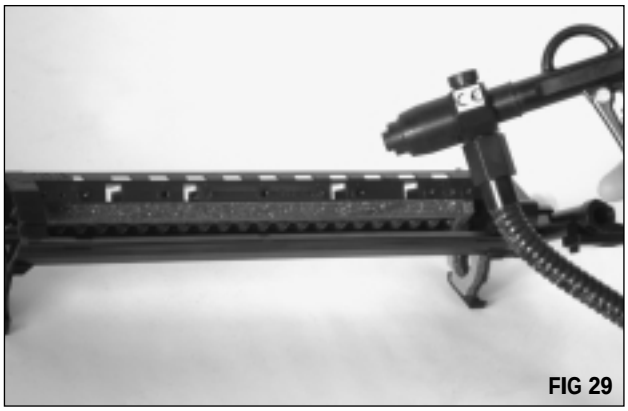


FIG 29

Reassembly of the Drum Unit

1. Replace the wiper blade and secure with the two screws (FIG 30).

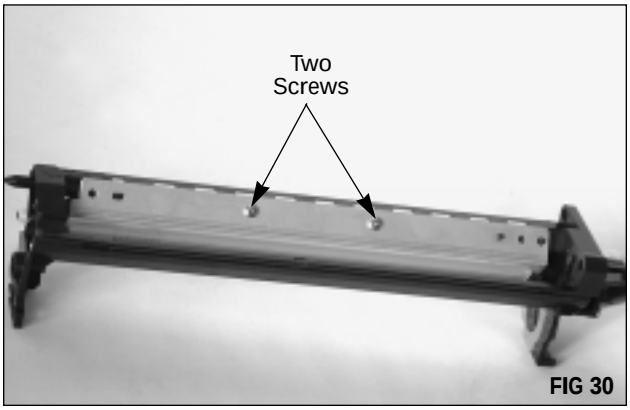


FIG 30

2. Replace the corona wire assembly, sliding the left end in first and then press the right end bracket into position (FIG 31). Secure the assembly with the two screws (FIG 32).


FIG 31

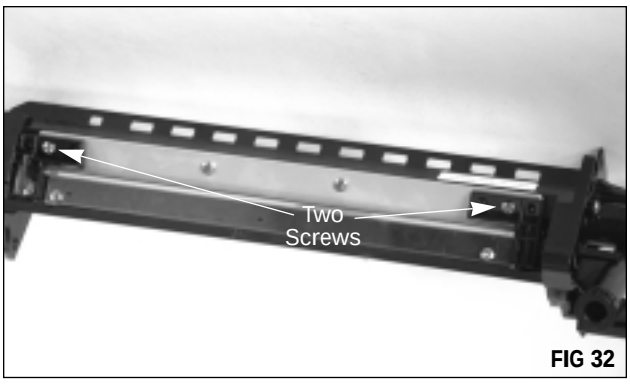


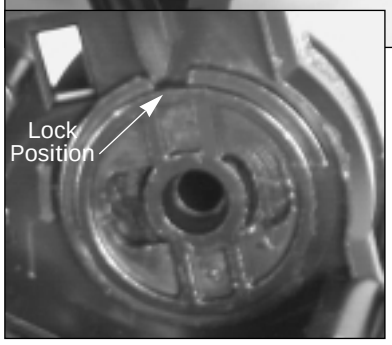
FIG 32

3. Replace the OPC drum. Place the geared end into the corresponding hole on the housing and then lower the opposite end into position (FIG 33).


FIG 33

4. Replace the drum axle and then rotate the drum axle hub into the lock position (FIG 34).


FIG 34



5. Repositioning the reset flag gear

Inside the drive gear end cover locate the comma-shaped locking tab on the large gear (FIG 35). Using the Hook Tool (HTOOL), lift up on the tab to release (FIG 36). Then rotate the gear in a clockwise direction until the gear flag is all the way down in the starting position (FIG 37).

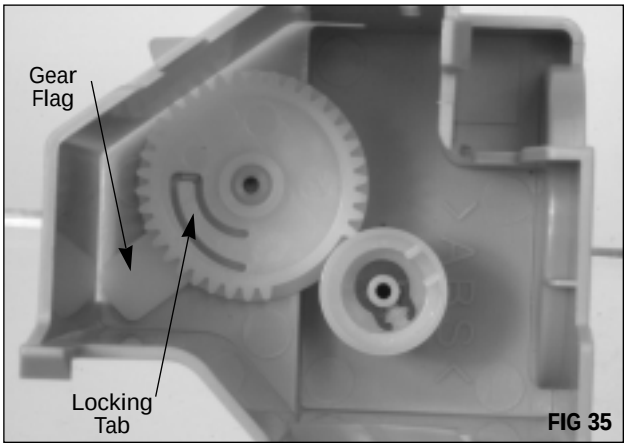


FIG 35

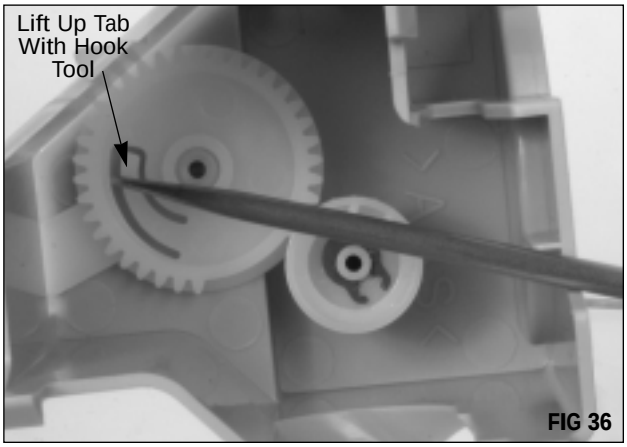


FIG 36

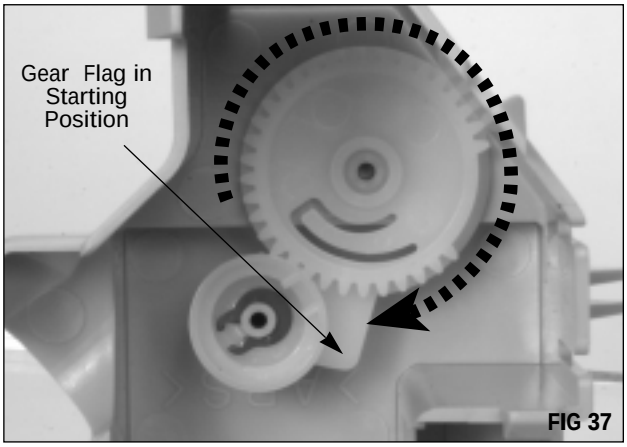


FIG 37

NOTE If the two gears are not present in drive gear end cover, the drum unit is a starter cartridge. Resetting a starter cartridge has to be done through the copier diagnostics following these steps.

1. Enter **Diagnostics Mode**. Turn the copier off, then on. Hit **Clear**, then **Exposure** twice in succession. This must be done within 4 seconds. If successful the LED Display Screen will go blank.

2. Use the copy quantity keys to enter the value 24, followed by the start button.

3. Use the copy quantity keys to enter the value 7, followed by the start button.

4. Turn the copier Off. When you restart the copier, the drum counter should be reset to zero.

6. Reinstall the drive gear end cover (FIG 38).

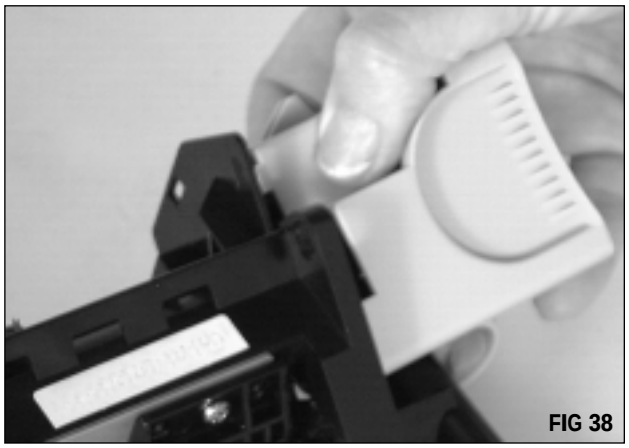


FIG 38

Notes:

Imaging System Technology You Can Count On!

The development of cartridge imaging systems, such as the Xerox® XD100 (Sharp® AL1000), is the primary mission of our 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 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.

STATIC CONTROL

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