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Brother HL® 6050 Remanufacturing Instructions



About the Printer

In December of 2003 Brother released the HL-6050. The Brother HL-6050 provides a larger duty cycle of 60,000 and a faster print speed of 25 pages per minute, than the Brother HL-1240. With a first page out of less than 11 seconds the HL-6050 one of the fastest Brother printers available. The Brother HL-6050 cartridges are sold in two separate sections. There is a Hopper Section, and a Drum Section which contains a

Corona Assembly and a small Waste Bin. The OEM rated page yield for the Hopper Section is 7.5k and 30k for the Drum Section.

Engine Information

Engine Name	Brother® HL6050D/6050DN/6050DW
Printer Price	\$550 /\$700/n/a
Printer Name	Brother® HL-6050
First Page Out	Less than 11 seconds
Charger	Corona
Date of U.S. Printer Introduction	Dec. 2003
Print Speed (pages per minute)	25 ppm
Duty Cycle	60,000 pages per month
Print Resolution (dpi)	1200 x 1200 dpi

Cartridge Information	Toner Section	Drum Unit
Part Number	TN-670 (N. & S. America) TN-4100 (Europe)	DR-600 (N. & S. Amer.) DR-4000 (Europe)
Cartridge List Price	\$100	\$150
OEM Rated Page Yield	7.5k	30k
Wholesale Price	\$67	\$94

*Prices as of Jan. 2005

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WWW.SCC-INC.COM

Get the latest information on the web at Static Control's Brother® HL 6050 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.

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Version 1
October 2005

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

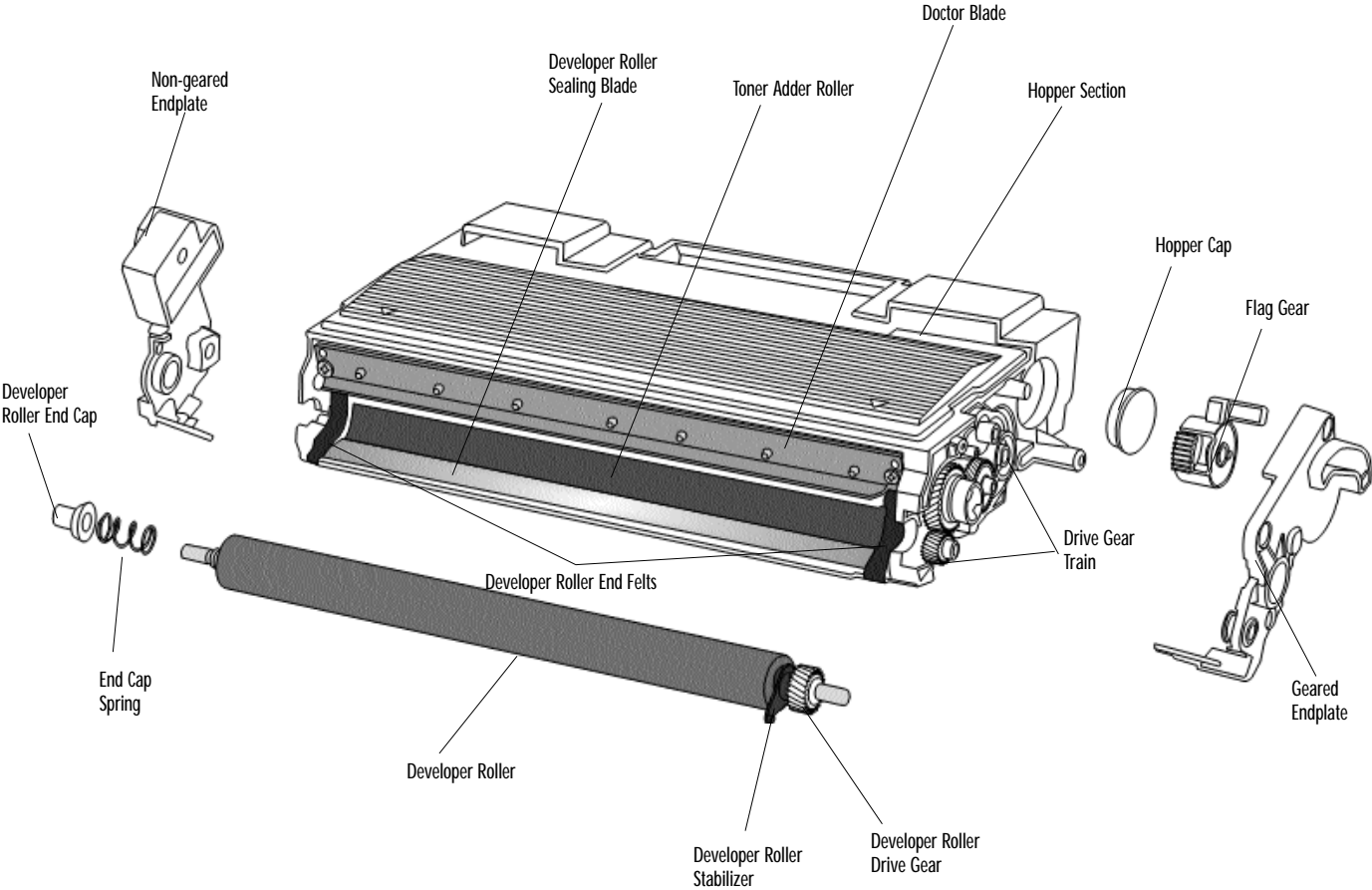
For best results, we recommend using ONLY 91-99% for cleaning as directed in these instructions. 91% Isopropyl alcohol is available at most major drug stores; 99% Isopropyl alcohol is available through distributors of chemical products. Follow the alcohol manufacturer's safety instructions.

Tools and Supplies You Will Need

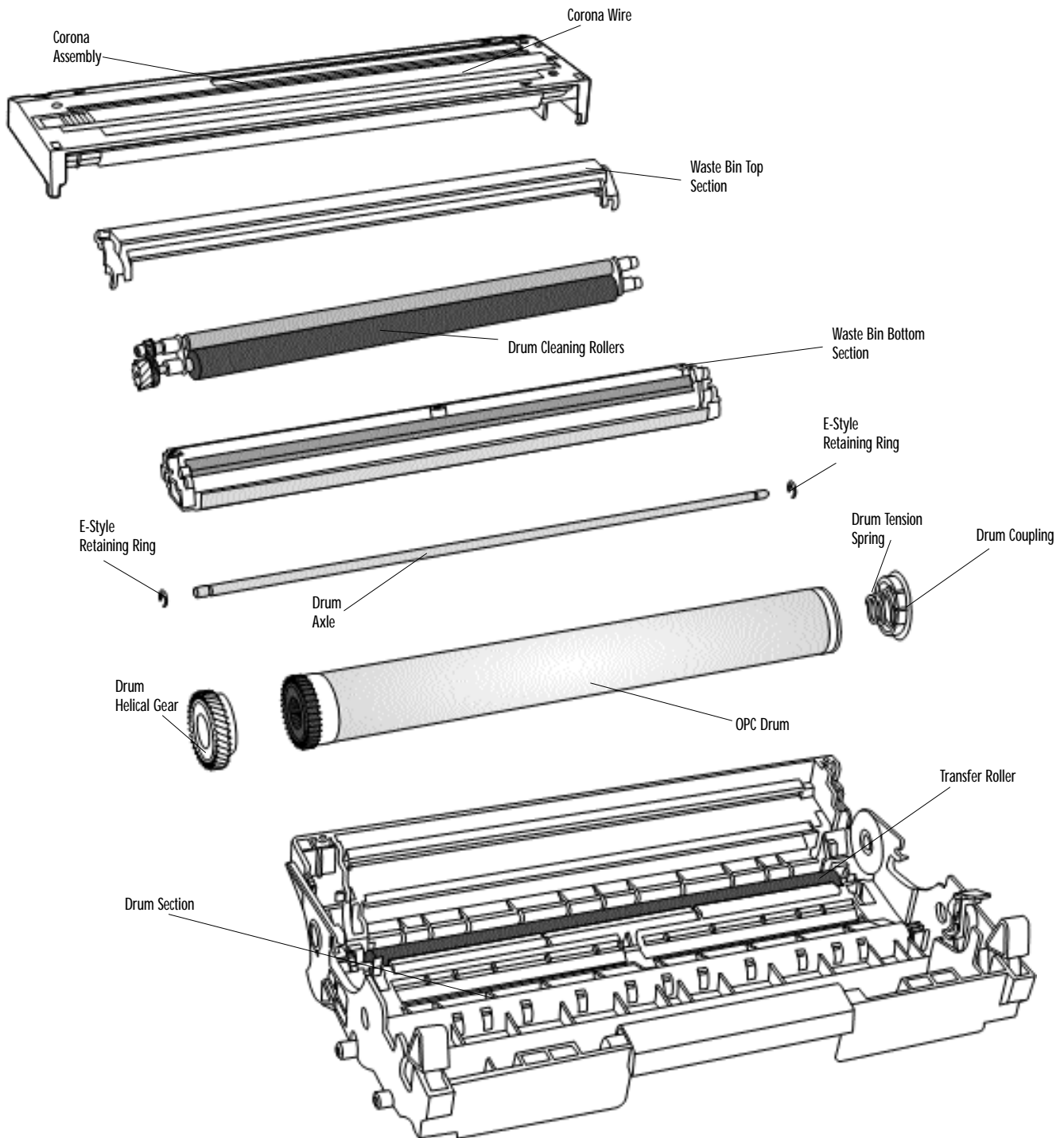
For Basic Remanufacturing:

- Phillips Screwdriver
- Standard Flat Blade Screwdriver
- Small-Tipped Flat Blade Screwdriver
- Needlenose Pliers
- Funnel for Toner Bottle
- Compressed Air for Cleaning(See left)
- 91-99% Isopropyl Alcohol(See left)

Brother® HL 6050 Toner Unit

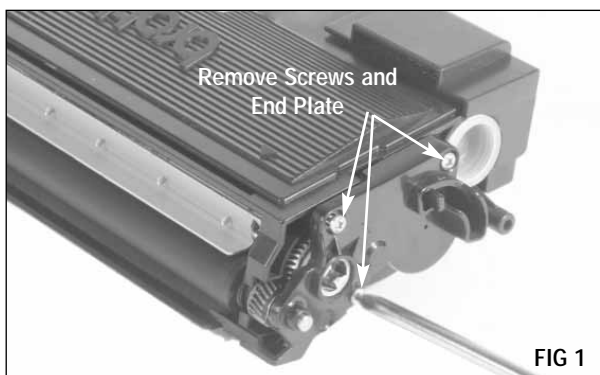


Brother® HL 6050 Waste Bin and Drum Unit

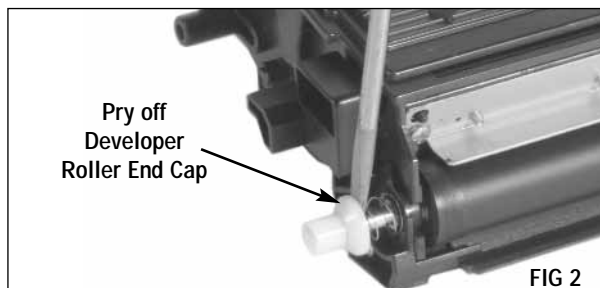


Disassembly of the Toner Hopper Section

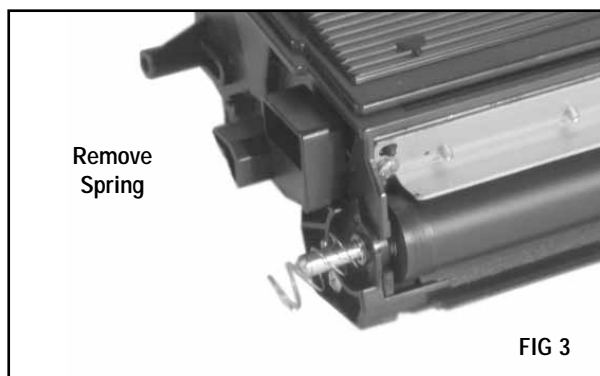
1. Remove the three screws on the gear side end plate. Then remove the gear side end plate (FIG 1).



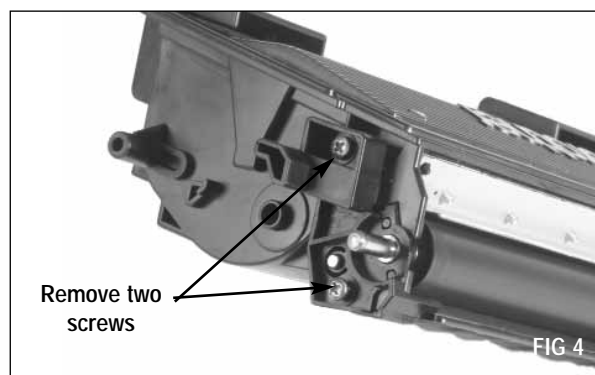
2. Using a small flat blade screwdriver pry the Developer Roller end cap from the non-gear side of the hopper (FIG 2).



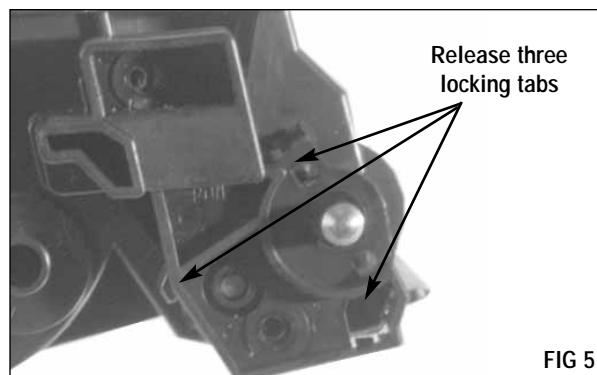
3. Remove the Developer Roller End Spring (FIG 4).



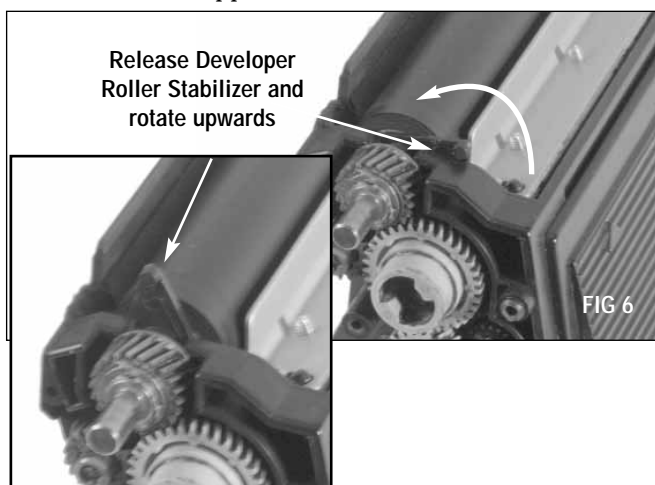
4. Remove the two screws from the Developer Roller End plate on the non-gear side of the hopper (FIG 4).



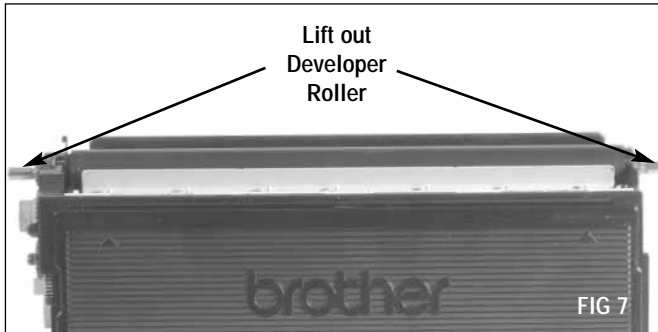
4. Release the three locking tabs from the Developer Roller End Plate (FIG 5). Remove the End Plate.



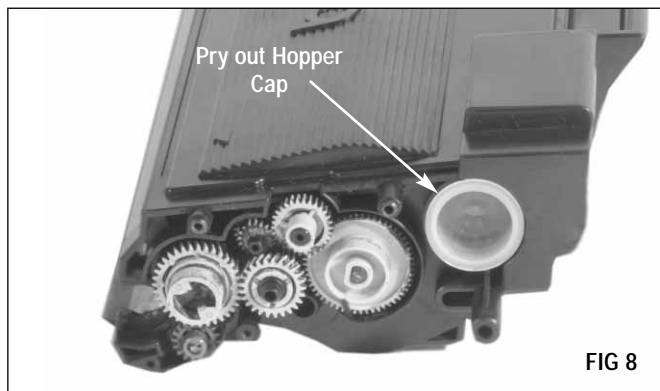
5. Release the Developer Roller Stabilizer and rotate upwards to release the Developer Roller from the hopper (FIG 6)(FIG 7).



- Carefully remove the developer roller from the cartridge and clean with dry, filtered compressed air and a lint-free cloth dampened with water (if necessary) (FIG 7). Inspect for damage.



- Remove the hopper cap and dump out any remaining toner (FIG 8). Careful not to damage the Hopper Cap.



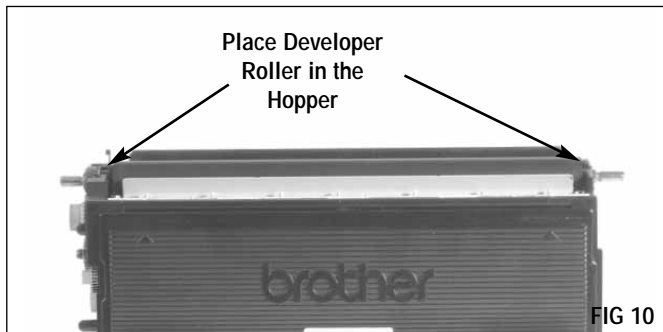
- Clean the toner hopper section with dry, filtered, compressed air and wipe the doctor blade with a clean, dry cloth (FIG 9).



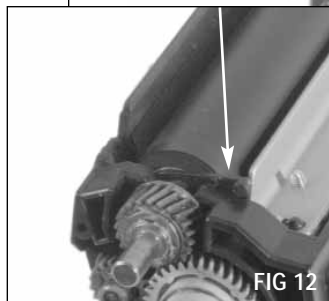
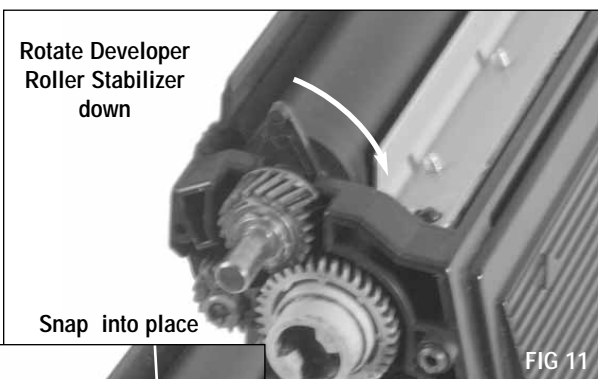
NOTE: Inspect the Doctor Blade for damage. Refer to SSS# 795 for detailed instructions on the removal and installation of the doctor blade and sealing foam (B1240DBLADE) (B1240DBSFM).

Assembly of the Toner Hopper Section

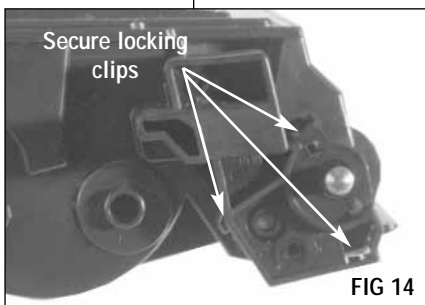
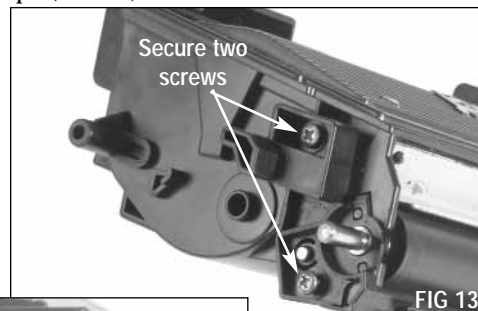
1. Replace the developer roller (FIG 10).



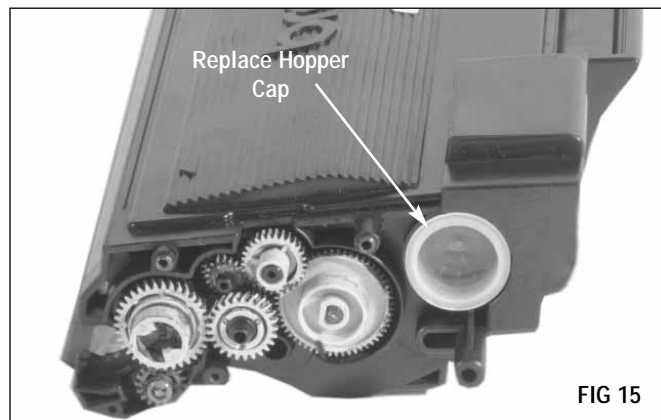
2. Turn the stabilizer down until the tab snaps into place as shown (FIG 11 & 12).



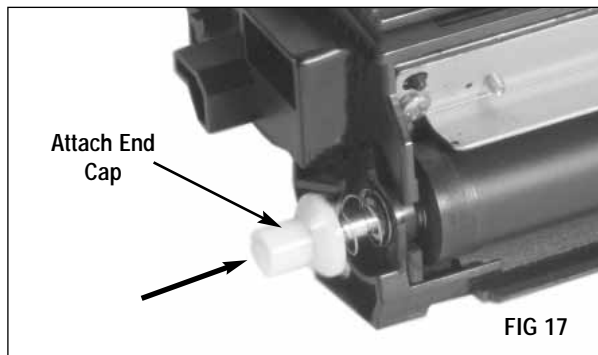
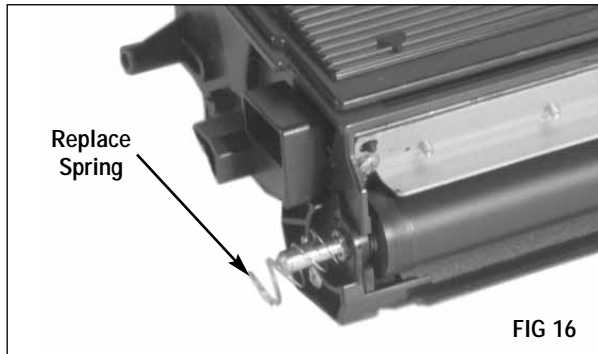
4. Attach the non-g geared side end plate and secure with two screws (FIG 13). Be sure to secure three locking clips (FIG 14).



5. Fill the hopper with toner and replace Hopper Cap, use SCC's hopper cap (HCAP-A) if damaged (FIG 15).

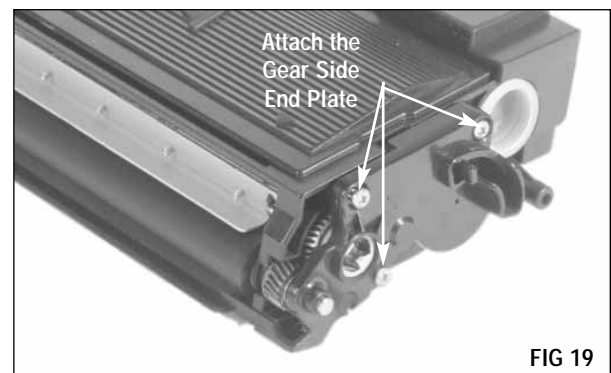
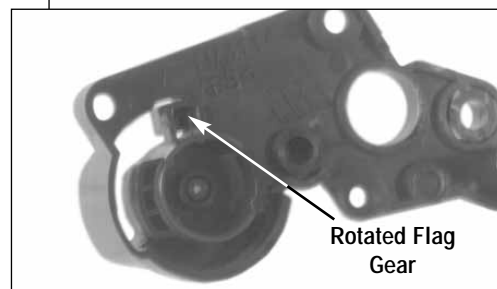
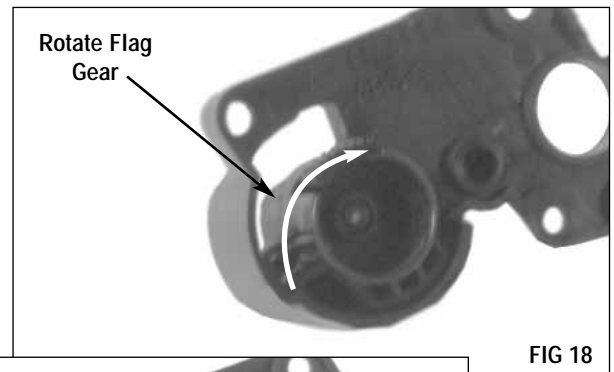


6. Attach the Developer Roller End Spring and End Cap (FIG 16) (FIG 17). Be sure to snap the End Cap into place.



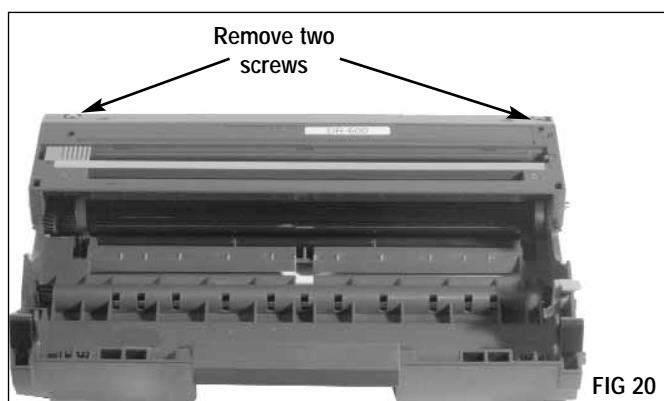
Note: Resetting the Flag Gear is necessary in some machines to clear the "Toner End Life" message.

7. Be sure to reset the Flag Gear (if present, not present on all cartridges) prior to attaching the End Plate (FIG 18). Attach the Gear Side End Plate (FIG 19).



Disassembly of the Drum Section

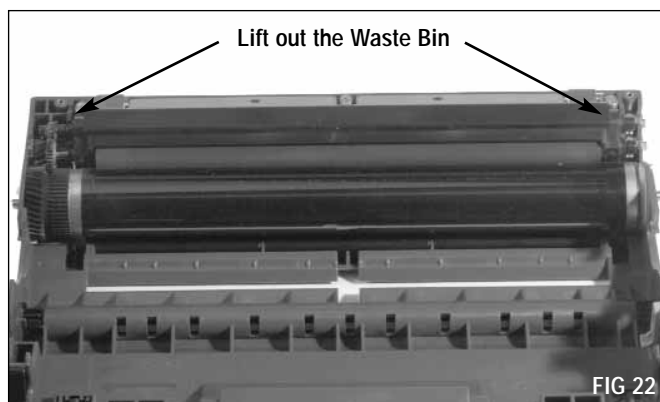
1. Remove the two screws that secure the Corona Assembly (FIG 20).



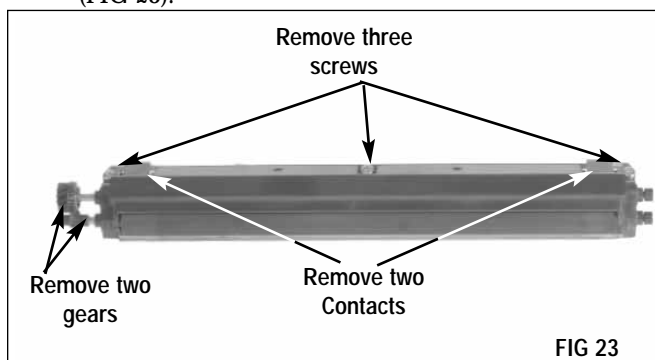
2. Remove the Corona Assembly (FIG 21). The Corona Assembly is hinged, rotate to remove.



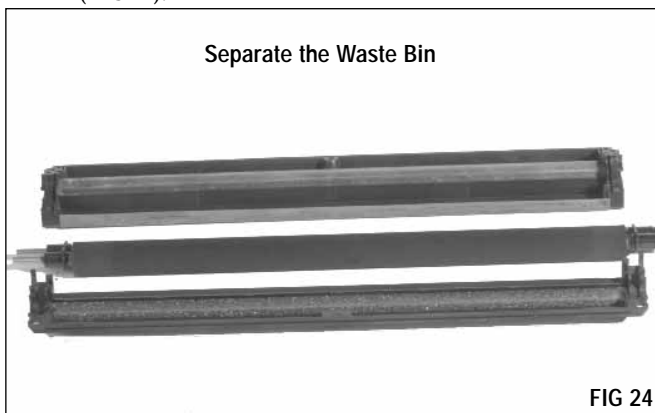
3. Lift the Waste Bin from the Drum section (FIG 22).



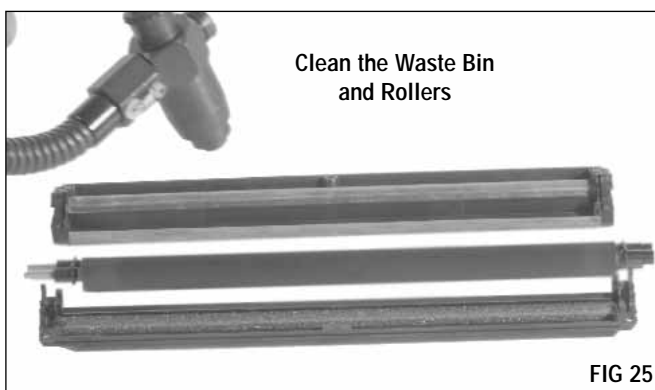
4. Remove the two gears from the Waste Bin. Remove the three screws that secure the Waste Bin. Lift off the two contacts from the Waste Bin (FIG 23).



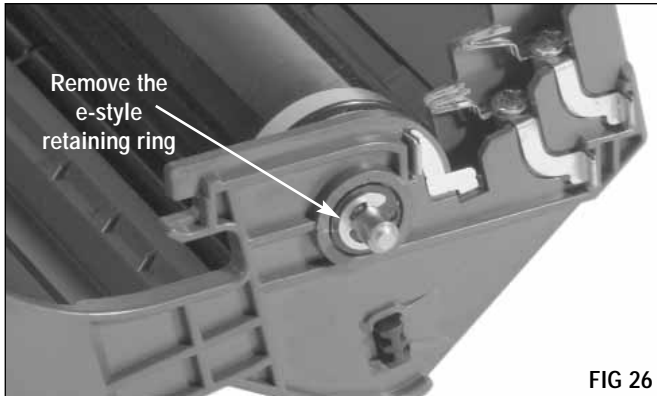
5. Separate the Waste Bin and lift out the two rollers (FIG 24).



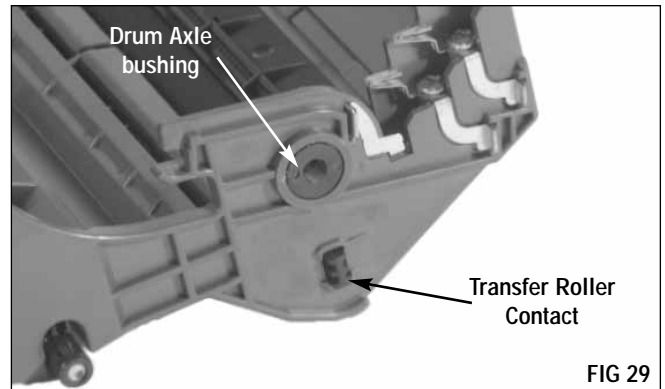
6. Clean the Waste Bin and the Rollers with dry, filtered compressed air (FIG 25).



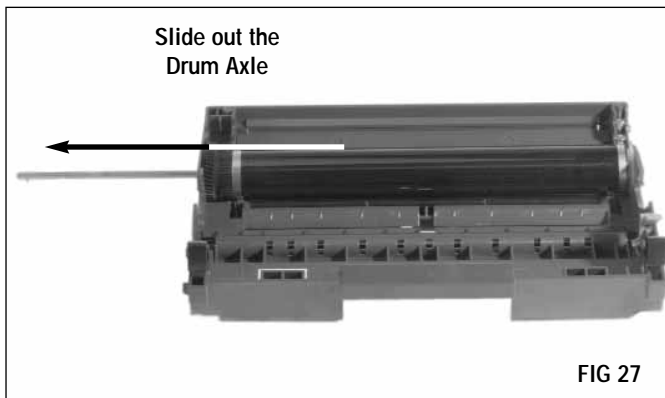
7. Remove the e-style retaining ring from the Drum Axle (FIG 26).



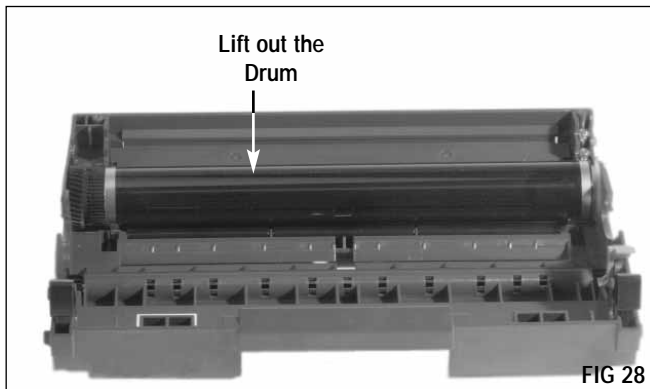
10. Be sure not to lose the Drum Axle Bushing and the Transfer Roller Contact (FIG 29).



8. Push the Drum Axle out of the cartridge (FIG 27).



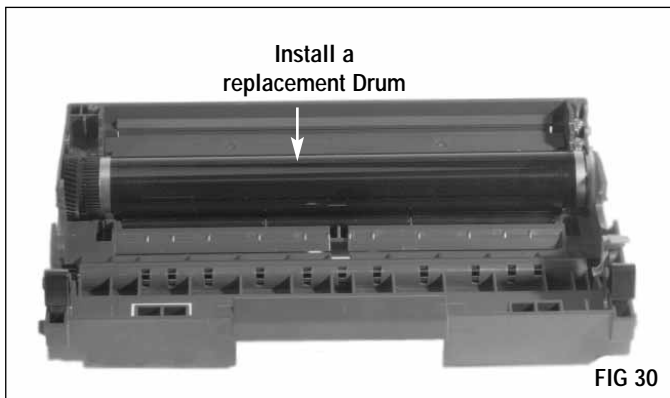
9. Lift the Drum from the Drum Section (FIG 28).



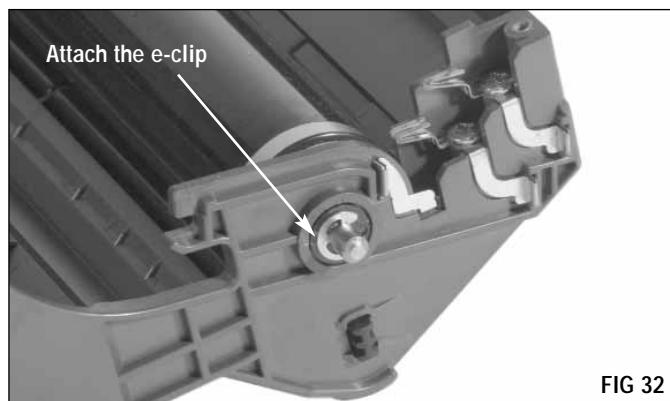
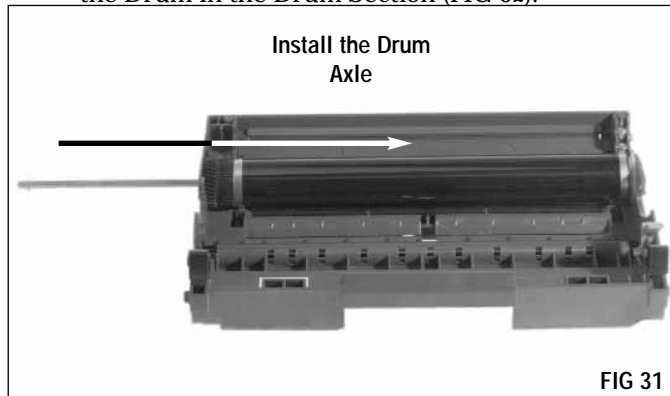


Assembly of the Drum Section

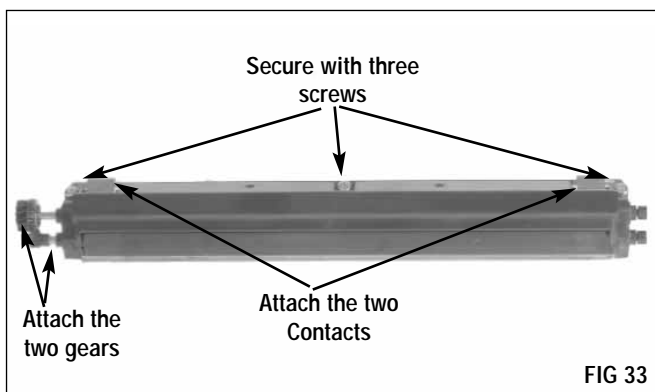
1. Install a replacement Drum (OSB6050DRGR) into the Drum Section (FIG 30).



2. Install the Drum Axle (FIG 31), and attach the e-style retaining ring to the Drum Axle to secure the Drum in the Drum Section (FIG 32).



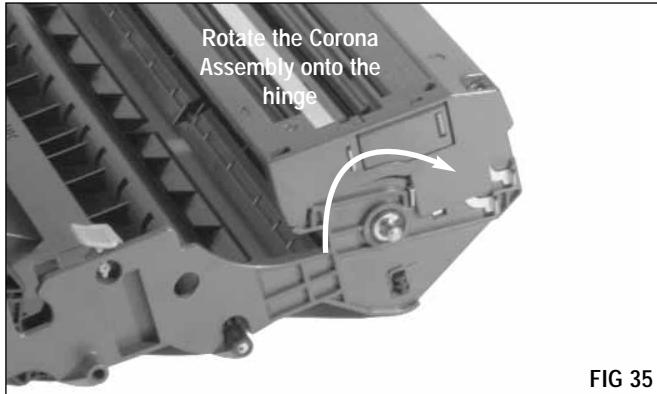
3. Assemble the Waste Bin, by attaching the two gears, attaching the two contacts and securing with the three screws (FIG 33).



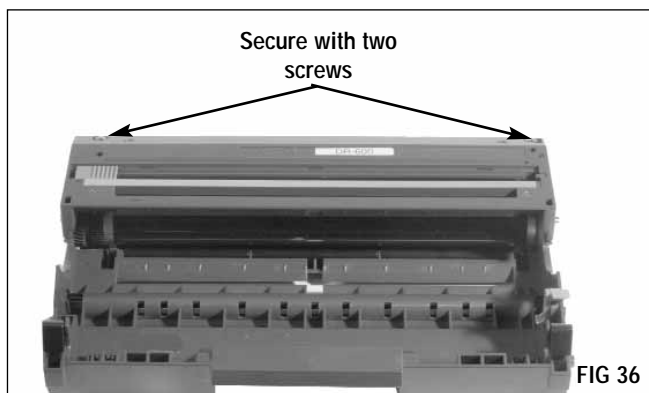
4. Set the Waste Bin into place in the Drum Section (FIG 34).



5. Attach the Corona Assembly to the Drum Section, by rotating onto the hinge (FIG 35).



6. Secure the Corona Assembly to the Drum Section by attaching two screws (FIG 36).





Drum Reset Information

Brother DR-600

1. With the front cover open, press and hold the GO button until DRUM CLEAR is displayed, then release the button and close the front cover.

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