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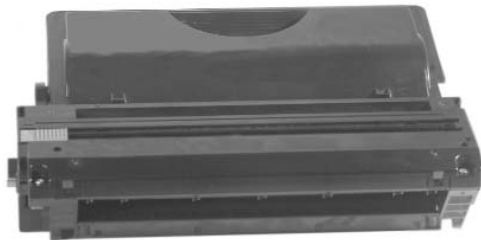
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Brother HL® 5140/5150/5170 Remanufacturing Instructions



About the Printer

In February of 2004 Brother releases the HL-5140/5150/5170. Reasonably priced with a duty cycle of 20k pages per month. The first page out for these printers is less than 10 seconds. The HL-1240/1650 printers print 21 pages per minute. The OEM rated page yield ranges from 3.5k to 6.7 k.

The Brother HL-5140/5150/5170 cartridges are sold in two separate sections. There is a Hopper section and Drum section which contains a corona wire assembly.

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WWW.SCC-INC.COM

Get the latest information on the web at Static Control's Brother® HL 5140 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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Engine Information

Engine Name	Brother® HL5140/5150/5170		
Printer Price	\$229 /\$299/\$449		
Printer Name	Brother® HL5140/5150/5170		
First Page Out	Less than 10 seconds		
Charger	Corona		
Date of U.S. Printer Introduction	Feb. 2004		
Print Speed (pages per minute)	21 ppm		
Duty Cycle	20,000 pages per month		
Print Resolution (dpi)	2400 x 600 dpi		

Cartridge Information

Part Number (Hopper)	TN-540	TN-3030	TN-3060
Cartridge List Price	\$70	\$92	45
OEM Rated Page Yield	3.5k	6.7k	6.7k
Wholesale Price	\$45	\$59	N/A
Part Number (Drum)	DR-510	DR-3000	
Cartridge List Price	\$180	£82	
OEM Rated Page Yield	20k	20k	
Wholesale Price	\$107	N/A	

*Prices as of Jan. 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

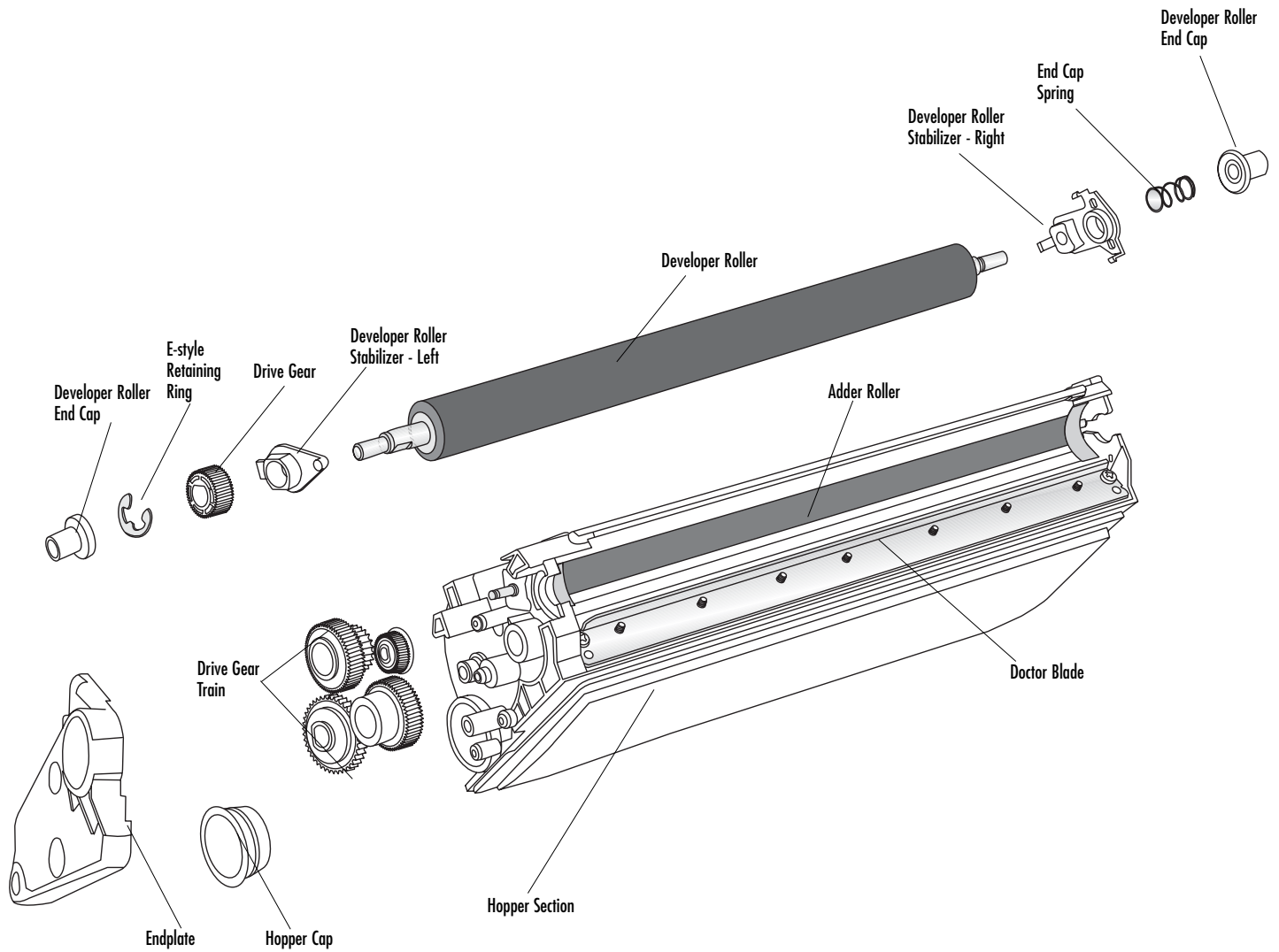
For best results, we recommend using ONLY 91-99% for cleaning as directed in these instructions. 91% Isopropyl alcohol is available at most major drug stores; 99% Isopropyl alcohol is available through distributors of chemical products. Follow the alcohol manufacturer's safety instructions.

Tools and Supplies You Will Need

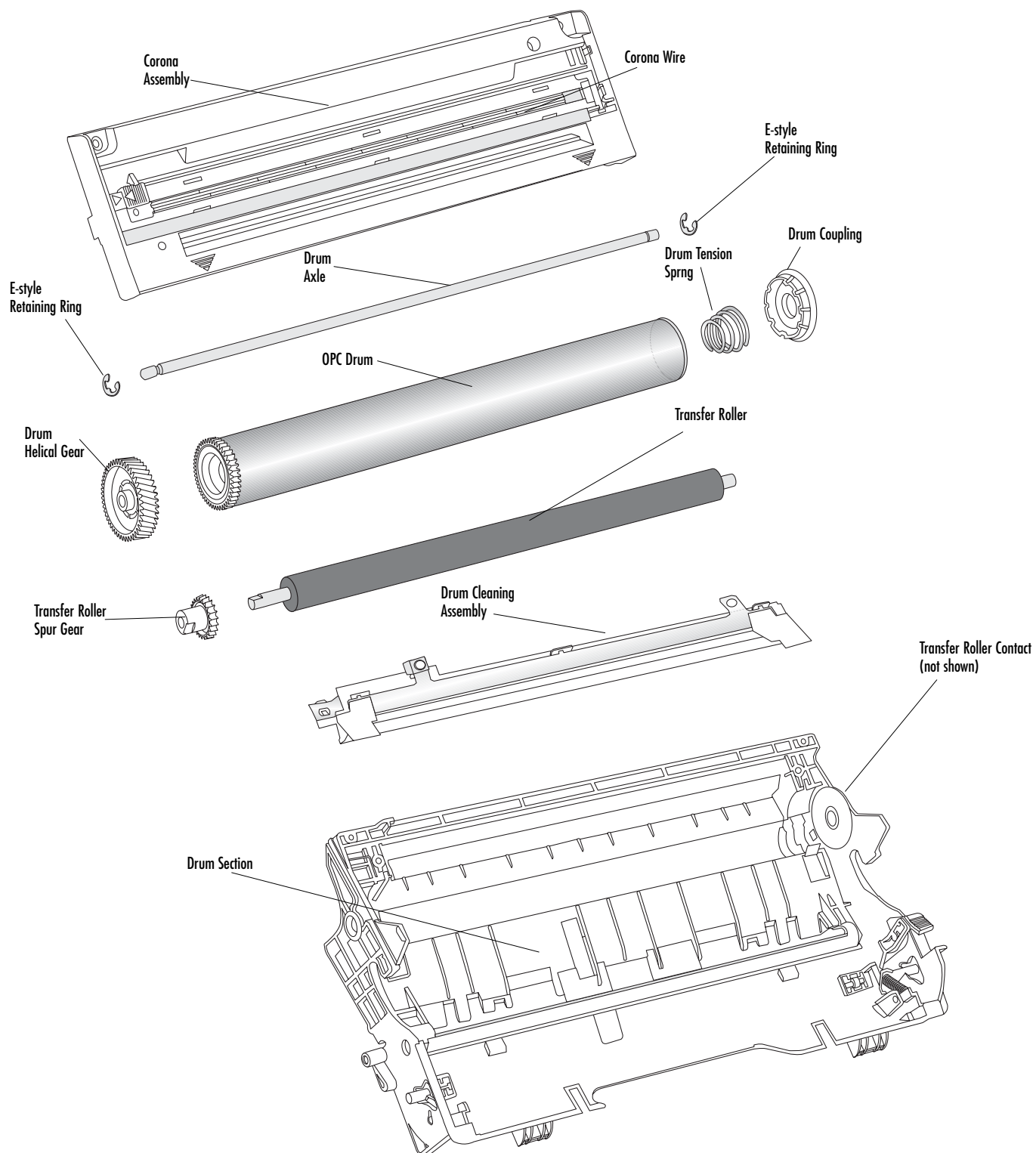
For Basic Remanufacturing:

- 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)
- Lint-Free Foam Tip SwabLFSWAB
- Lint-Free Cleaning ClothLFCCLOTH
- Cotton SwabQTIP
- Aluminum MalletWXHAMMER
- Liquid Cartridge LubricantCLUBE

Brother® HL 5140 Toner Unit

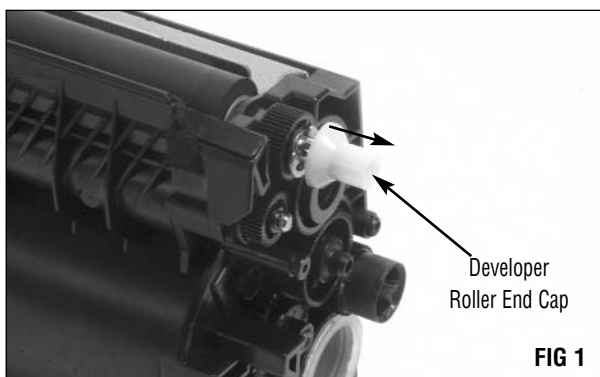


Brother® HL 5140 Waste Bin Unit

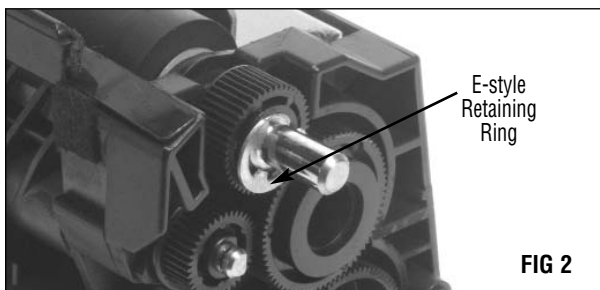


Disassembly of the Toner Hopper Section

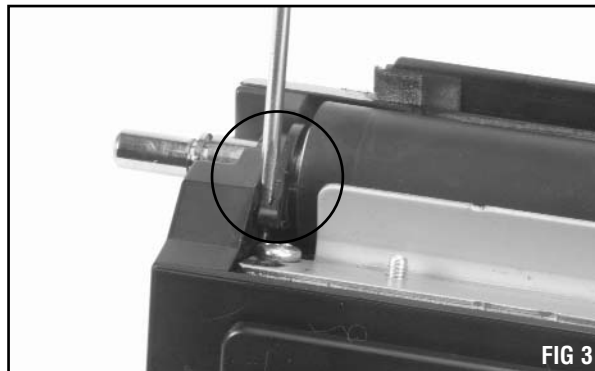
1. Remove developer roller end cap from the drive side by sliding it completely off the developer roller shaft (FIG 1).



2. Remove the e-style retaining ring from the developer roller (FIG 2).



3. Using a flat blade screwdriver, wedge in between the stabilizer and the cartridge in order to pull the tab out as shown (FIG 3). Then rotate the stabilizer toward the top of the cartridge as shown (FIG 4).



- Using a flat blade screwdriver, remove the developer roller end cap from the non-drive side of the cartridge (FIG 5). Remove the spring once the end cap is removed (FIG 6).

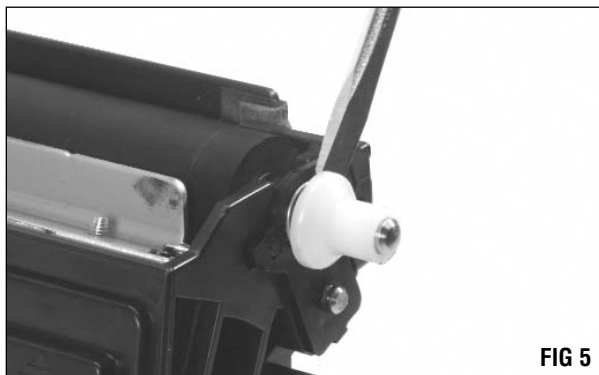


FIG 5



FIG 6

- Using a flat blade screwdriver, remove the stabilizer by releasing the locking clip (FIG 7).

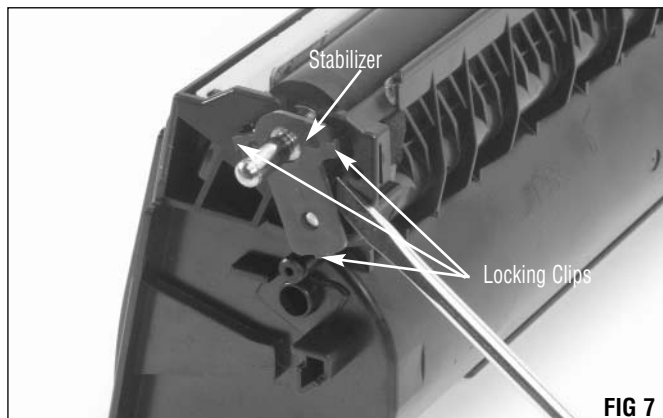


FIG 7

- 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 8). Inspect for damage and replace with SCC's developer roller (B1240DEVROLL) if necessary.

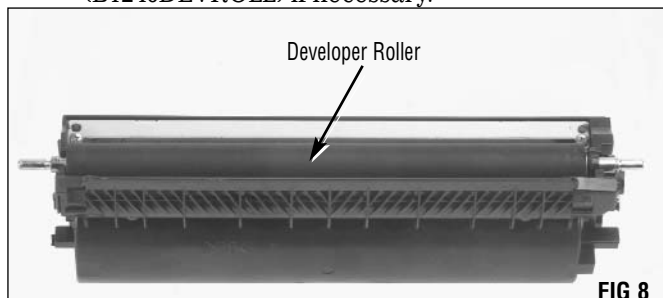


FIG 8

- Remove the hopper cap and dump out any residual toner (FIG 9). Careful not to damage the Hopper Cap.



FIG 9

- Clean the toner hopper section with dry, filtered, compressed air and wipe the doctor blade with a clean, dry cloth (FIG 10).

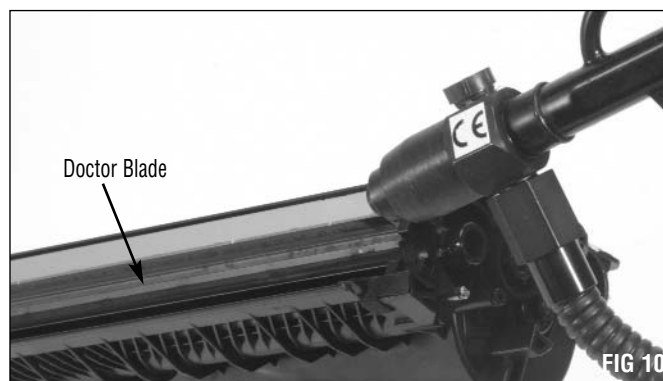
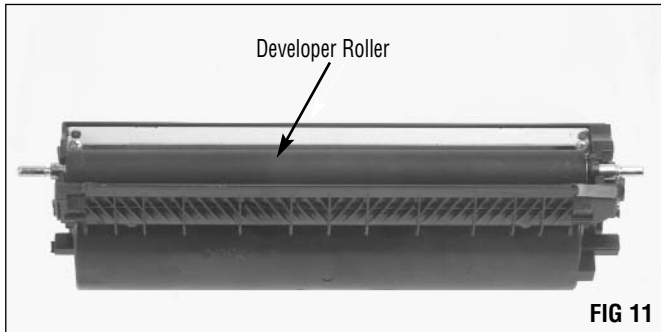


FIG 10

NOTE: See SSS#759 for detailed instructions on the removal and installation of the doctor blade and the sealing foam (B1240DBLADE) (B1240DBSFM).

Assembly of the Toner Hopper Section

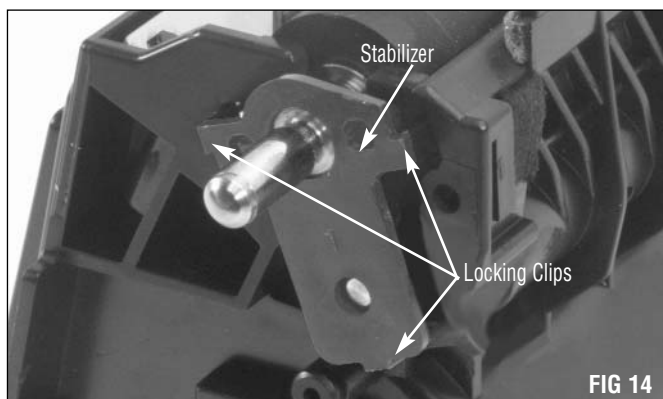
1. Replace the developer roller (FIG 11).



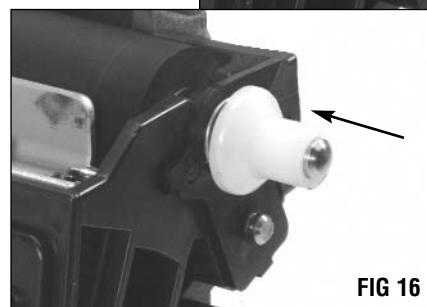
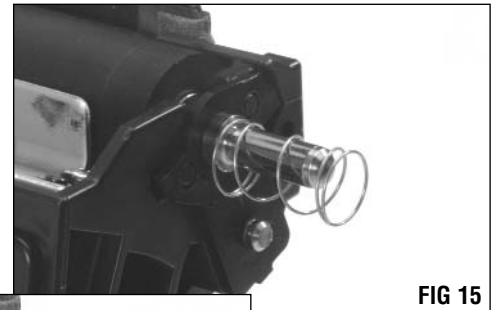
2. Turn the stabilizer down until the tab snaps into place as shown (FIG 12 & 13).



3. Replace the stabilizer (FIG 14). Make sure that the locking clips are secure.



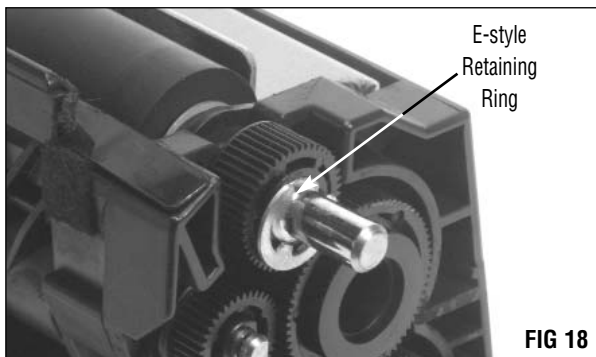
4. Replace the end cap spring (FIG 15). Replace the developer roller end cap to the cartridge (FIG 16).



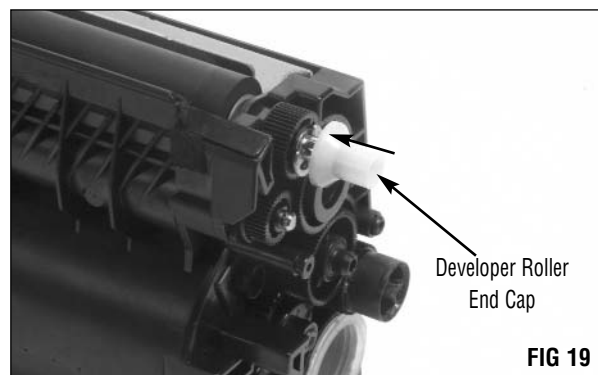
5. Fill the hopper with toner and replace the hopper cap, use SCC's hopper cap (HCAP-A) if damaged (FIG 17).



6. Replace the e-style retaining ring to the developer roller (FIG 19).

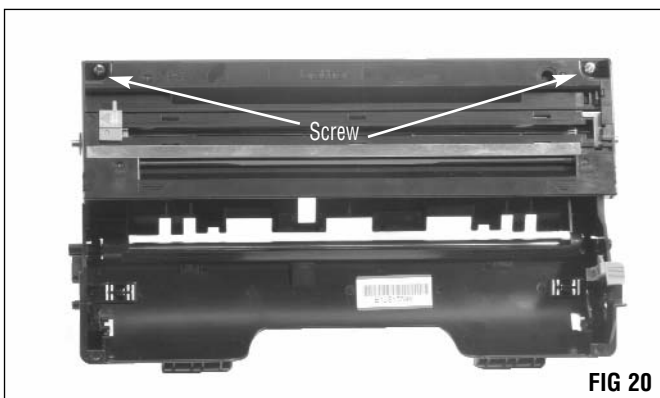


7. Replace the developer roller end cap by sliding it completely on the developer roller shaft (FIG 19).

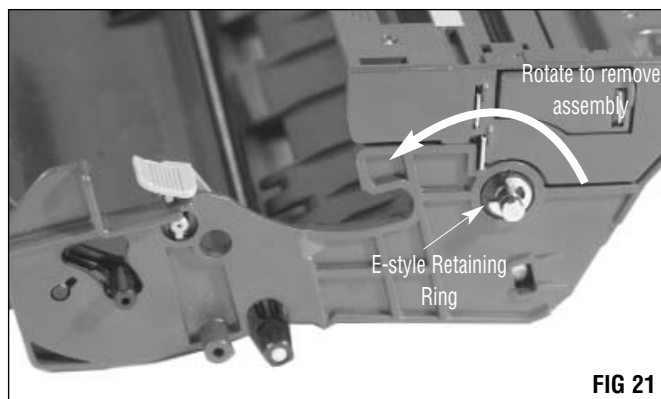


Disassembly of the Drum Section

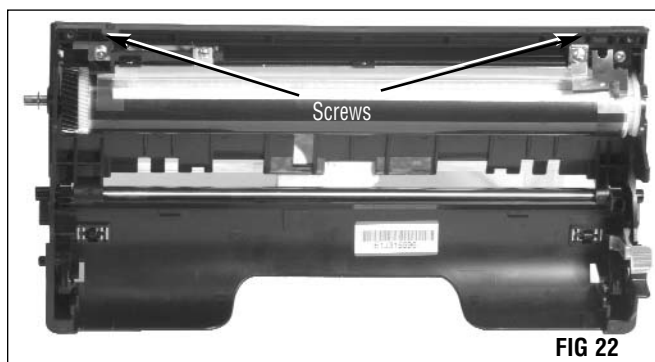
1. Using a Phillips screwdriver, remove the two screws securing the corona assembly (FIG 20). Then lift out the corona assembly



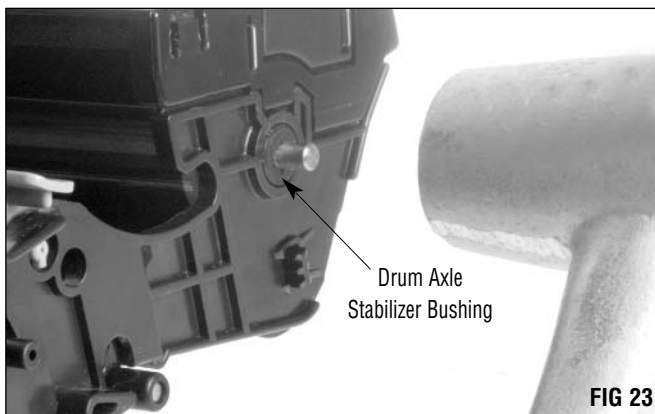
2. Remove assembly and e-style retaining ring from the drum axle (FIG 21).



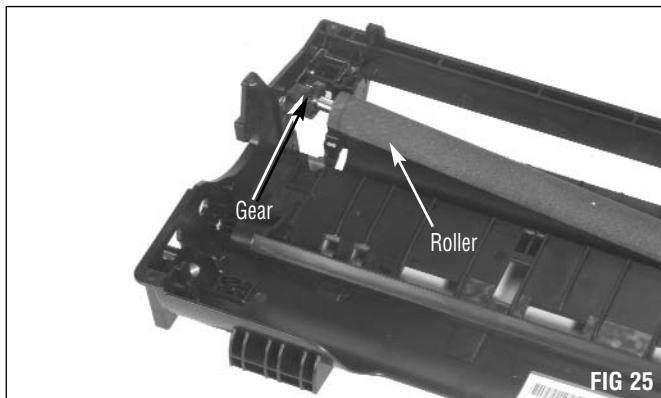
3. Using a Phillips screwdriver, remove the two screws securing drum cleaning assembly (FIG 22).



4. Using an aluminum mallet, gently tap out the drum axle and remove the drum axle stabilizer bushing (FIG 23). Pull the drum axle from the other side and remove the drum and gears (FIG 24).



5. Remove the transfer roller (FIG 25). Make sure not to lose the transfer roller gear, the transfer roller contact (FIG 26), or the drum axle stabilizer bushing.



6. Clean the drum section and the corona assembly with dry, filtered, compressed air (FIG 27).



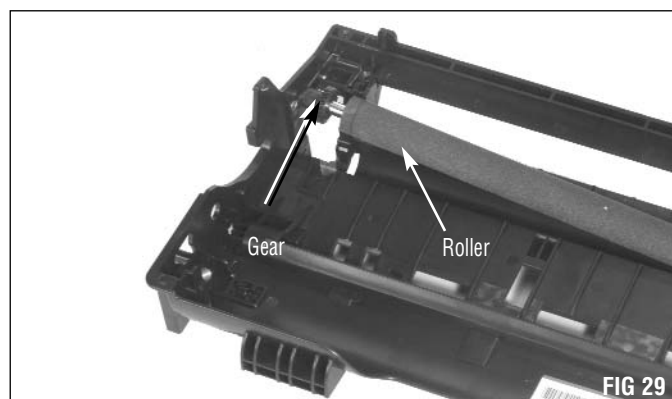


Assembly of the Drum Section

1. Ensure the transfer roller contact is in place (FIG 28).



2. Replace transfer roller and transfer roller helical gear (FIG 29).

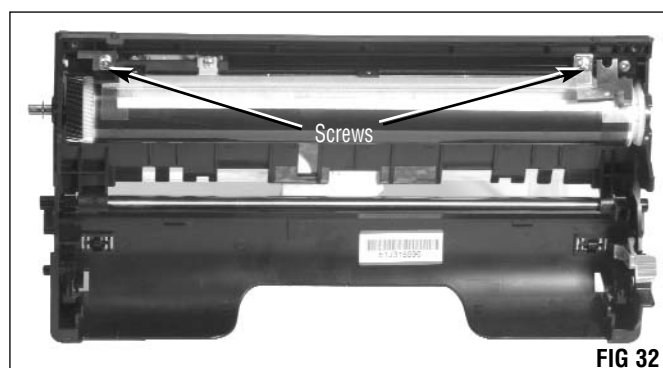


NOTE: See further instructions in System Support Series™ SSS#425 for drum and gear placement.

3. Replace the drum and gears and push the drum axle back into the cartridge (FIG 30). Replace the drum axle stabilizer bushing (FIG 31).



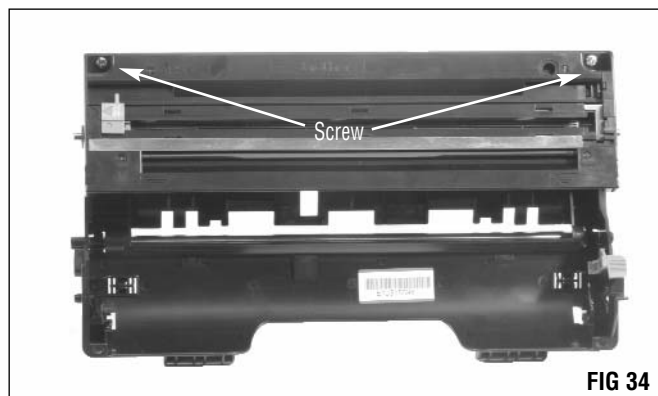
4. Using a Phillips screwdriver, replace the two screws securing drum cleaning assembly (FIG 32).



5. Reinstall the Corona Assembly and replace the e-style retaining ring on the drum axle (FIG 33).



6. Secure the corona assembly with the two screws (FIG 34).





Drum Reset Information

Brother DR-510

1. With the front cover open, press and hold the GO button until all four LEDs are lit. After all LEDs are lit release the GO button and close the front cover.

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