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Brother® HL-2140/2170 Cartridges

Compatibles: Brother® MFC 7320/7440n/7840w/DCP 7030 Cartridges



System Support Series™ 1029

TOOLS & SUPPLIES2

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Other System Support Series™ documents available in Adobe® Acrobat® format



TOOLS & SUPPLIES

- Phillips Screwdriver
- Dry, Filtered, Compressed Air for Cleaning
- Lint-free Swab (LFSWAB)
- Lint-Free Cleaning Cloth (LFCCLOTH)
- Small Slotted Screwdriver
- Conductive Lubricant (CONCLUBE)
- 91-99% Isopropyl Alcohol
- Narrow Toner Pour Spout (TPS-90)
- Felt Foam Scraper Tool (FSTOOL)



Lint-Free Swab (LFSWAB)



Lint-Free Cleaning Cloth (LFCCLOTH)



Small Slotted Screwdriver



Conductive Lubricant (CONCLUBE)



Narrow Toner Pour Spout (TPS-90)



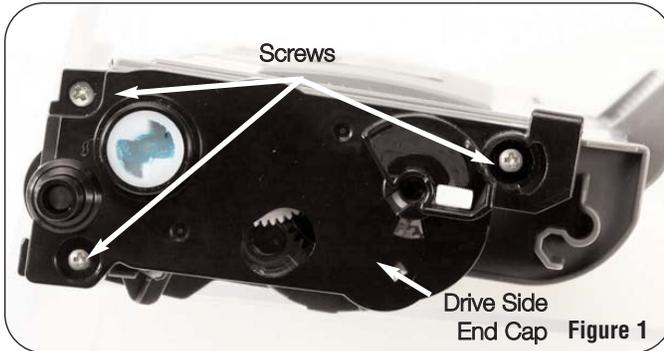
Felt Foam Scraper Tool (FSTOOL)



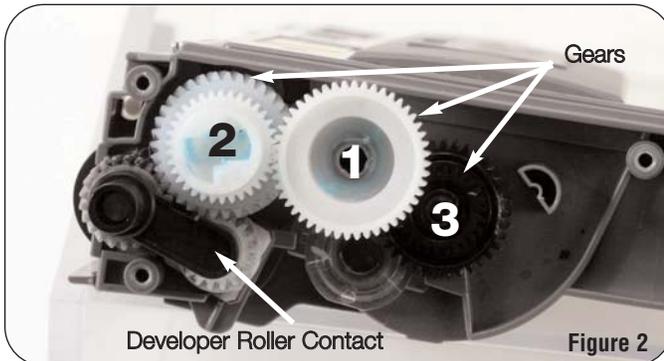
Phillips Screwdriver

DISASSEMBLING THE CARTRIDGE

1. Remove the three screws as shown in Figure 1. Remove the drive side end cap.



2. Remove gears (1- 3) and developer roller contact from the drive side as shown in Figure 2.



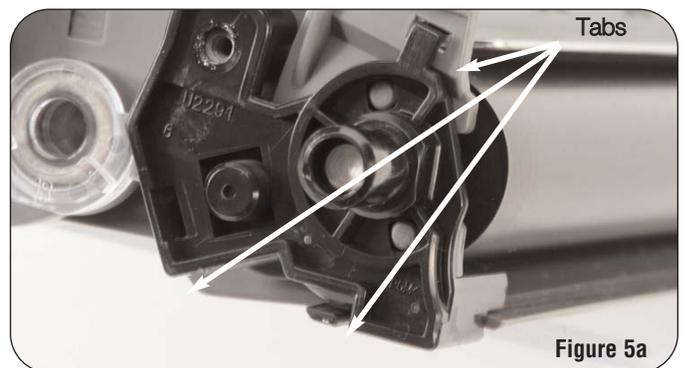
3. Carefully remove the e-clip from the developer roller drive gear as shown in Figure 3. Remove the developer roller drive gear.



4. Remove the screw on the non drive side end plate as shown in Figure 4.

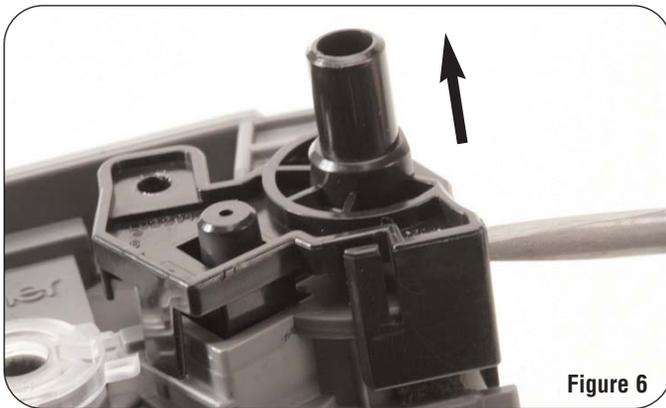


5. Release the three locking tabs on the non-drive side end plate as shown in Figures 5a & 5b.

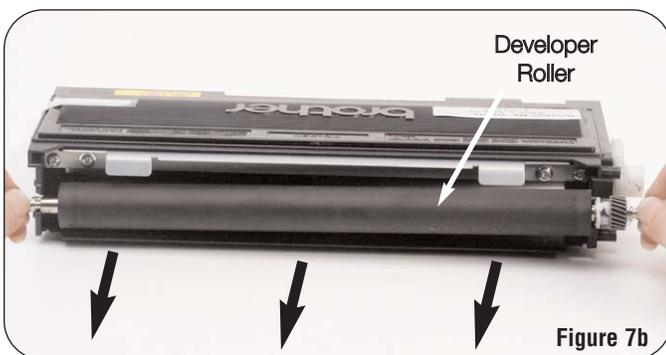


DISASSEMBLING THE CARTRIDGE

6. Remove the non-drive side end plate from the cartridge as shown in Figure 6. A slotted screwdriver may be needed to gently pry the end plate away from the cartridge.



7. Rotate the developer roller stabilizer forward as shown in Figure 7a. Lift the developer roller out of the cartridge as shown in Figure 7b. Leave the developer roller stabilizer on the roller shaft to avoid losing it.



8. Clean the developer roller with dry, filtered compressed air.

9. Using a lint-free cloth with 91-99% isopropyl alcohol, wipe down the developer roller. Then, wipe again with a lint-free cloth and deionized water. Dry the roller completely with dry, filtered compressed air.

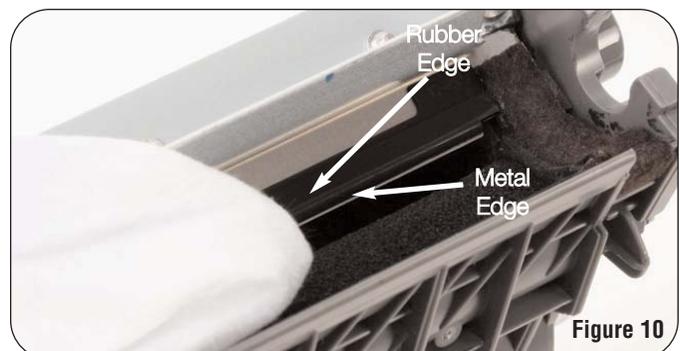
10. Carefully remove the hopper cap as shown in Figure 8.



11. Dump out any toner remaining inside the cartridge and clean with dry, filtered compressed air as shown in Figure 9.



12. Using a lint-free cloth with 91-99% isopropyl alcohol clean off the rubber working surface of the doctor blade as shown in Figure 10.



13. Using the wooden end of a cotton or lint-free swab, gently scrape the metal working edge to remove the built in additives as shown in Figure 11.



14. Rotate the toner adder roller while vacuuming to remove all the toner as shown in Figure 12.



15. Scrape the end felts and vacuum any toner as shown in Figure 13.

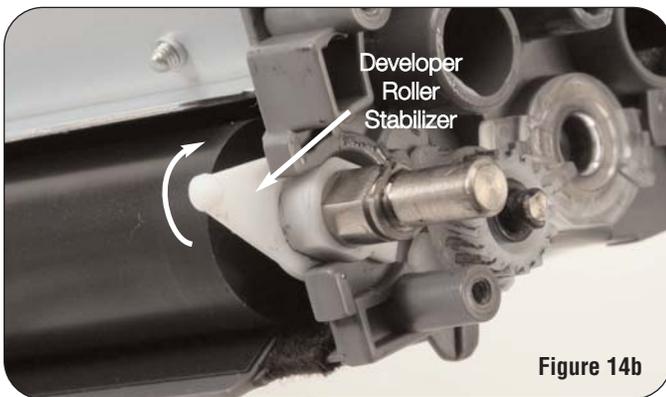
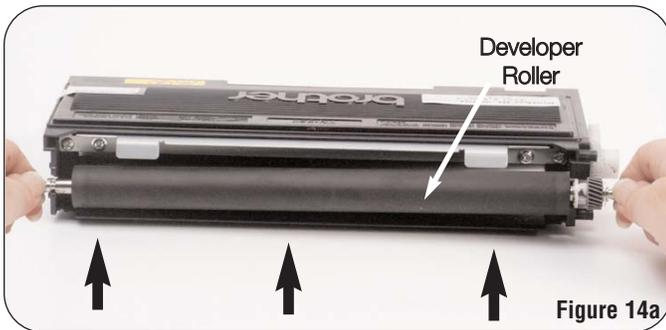


REASSEMBLING THE CARTRIDGE

1. Install the developer roller with both hands as shown in Figure 14a. This eliminates the felts and foams from being damaged. Rotate the developer roller stabilizer until it snaps into place as shown in Figure 14b.



Note: Installing the developer roller other than as directed will damage the felts and cause leakage.



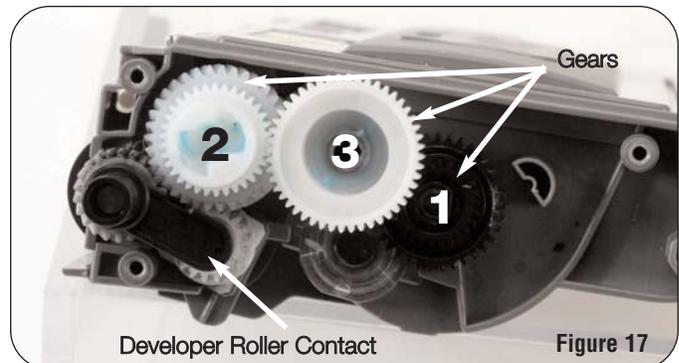
2. Replace the non-drive side plate and secure with the screw as shown in Figure 15.



3. Replace the developer roller drive gear and re-attach the e-clip as shown in Figure 16.

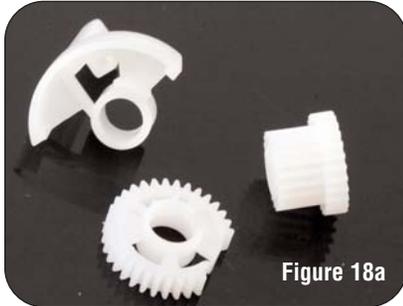


4. Replace the gears (1-3) and then the developer roller contact as shown in Figure 17.

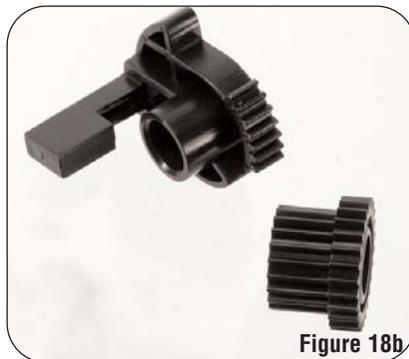


RESETTING THE FLAG GEAR

5. Refer to Figures 18a & 18b for the various parts of the low yield and high yield flag gears.



High-Yield Flag Gears



Low-Yield Flag Gears

6. Before reinstalling the drive side end plate, the flag gears must be reset. Rotate the flag counter clockwise as shown in Figure 19b. This will reset the flag gear. See Figure 20b.



Note: The transfer gear will need to be rotated separately clockwise after resetting the flag gear. Turn the gear until the teeth no longer mesh with the drive gear as shown in Figure 20a.



Figure 19a

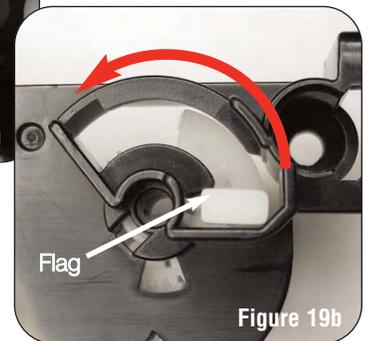


Figure 19b

High-Yield Flag Gear - Spent Position

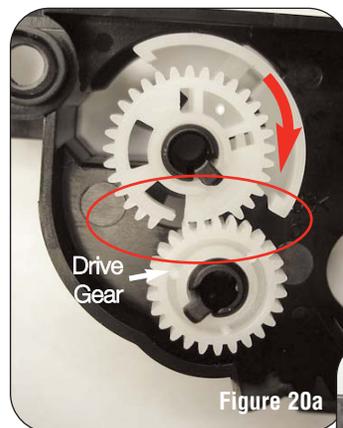


Figure 20a

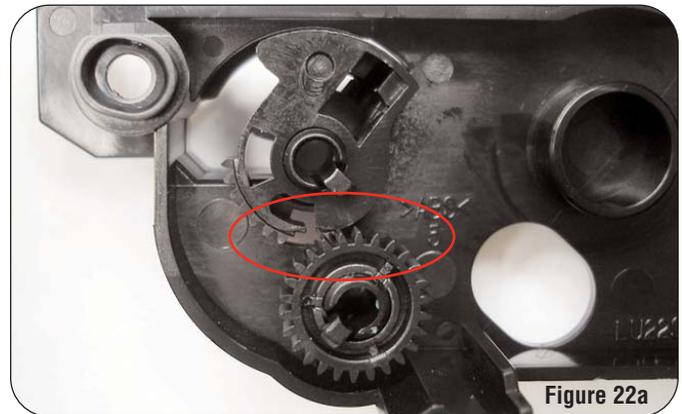


Figure 20b

High-Yield Flag Gear - Reset Position

RESETTING THE FLAG GEAR

7. Before reinstalling the drive side end plate, the flag gears must be reset. Rotate the flag counter clockwise as shown in Figure 21b. This will reset the flag gear. See Figure 22b.

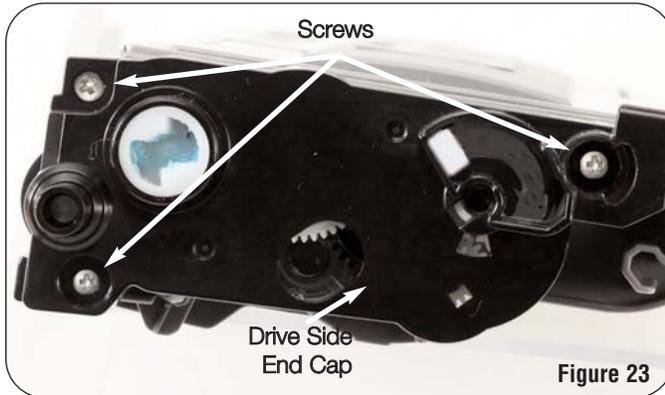


Low-Yield Flag Gear - Spent Position



Low-Yield Flag Gear - Reset Position

8. Reinstall the drive side end plate and secure with the three screws as shown in Figure 23.



9. Fill the cartridge with the qualified toner and replace the hopper cap as shown in Figure 24.



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 91-99% Isopropyl Alcohol should be used for cleaning as directed in this instruction. 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.

Illustrations

The illustrations and photos in this document might differ slightly from your cartridge. Every effort is made to include the most up to date photos and illustrations at the time of printing. However, the OEM may make changes which were not available at the time of printing.

Safety Information

- Always wear eye protection while operating power tools.
- Always wear eye protection and protective clothing while working with toner and or other chemicals.
- Do not swallow or ingest toner, isopropyl alcohol, toner dust, or any chemicals or materials used in the process of remanufacturing.

MOVING AT THE SPEED OF NEW TECHNOLOGY

The development of cartridge imaging systems is the primary mission of our Imaging Labs. 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.



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