

Printing

Using color

Paper handling

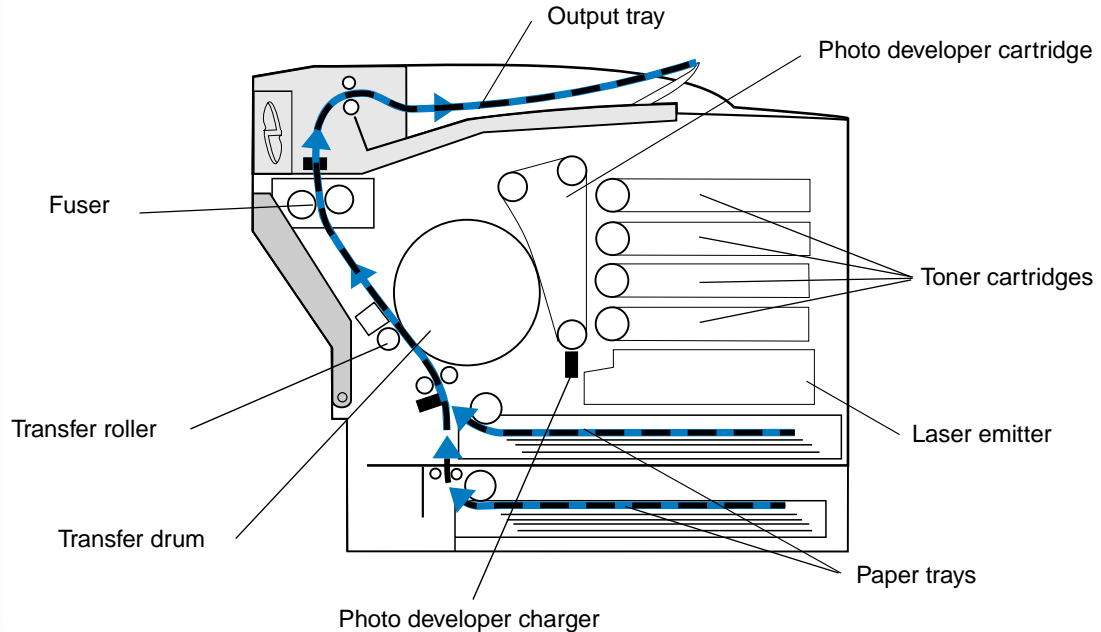
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By understanding how the toner cartridges, photo developer cartridge, transfer drum, transfer roller, and fuser interact you can understand why problems occur and how to correct or prevent them.



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The green film inside the photo developer is a belt that makes a continuous loop as your printer operates. The photo developer charger (the thin wire on the bottom of the photo developer), places a uniform negative charge on the surface of the green film (photo developer media) as the media travels past the photo developer charger.

As the media moves toward the toner cartridges it passes the laser emitter inside your printer. The information you send to your printer is changed into a laser-emitted signal. This signal is projected onto the photo developer media and discharges portions of the media.

The discharged areas on the photo developer media pull negatively charged toner particles from the toner cartridges into the discharged areas on the photo developer media.

As the photo developer media rotates, it meets the transfer drum. The transfer drum has a uniform neutral charge on it. When the transfer drum and photo developer meet, the image on the photo developer media moves from the media onto the transfer drum.

As the transfer drum rotates toward the rear of the printer, the paper is pulled from the paper tray and travels up the paper path to meet your image. The paper or other media (such as transparencies or envelopes), arrives at the transfer roller and transfer drum just prior to your image.

The transfer roller is located on the inside of the rear door of the printer. It has a strong uniform positive charge on the roller. The positive charge on the transfer roller goes through the paper to the transfer drum.



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As the transfer drum rotates it brings the image toward your paper. The paper and toner image on the transfer drum meet at the transfer roller. The negatively charged toner image on the transfer drum is pulled from the transfer drum into the paper by the strong positive charge on the transfer roller. As the paper continues to move up the paper path and the transfer drum rotates, more of the transfer drum image is moved onto the paper.

The paper travels up the paper path to meet the fuser. The fuser uses heat and pressure to make the toner adhere to the paper. The result of these components working together is the sharp laser image you want.

To get the best possible output, use the correct media thickness and type. The media recommended by Lexmark provides the best print quality.

