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## Personal LaserWriter Family: Image Transfer Process

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TOPIC -----

How does a Personal LaserWriter cause the toner to transfer from the photosensitive drum to the paper?

DISCUSSION -----

The transfer charging roller receives positive voltage from the high-voltage power supply board. The paper is then fed between the transfer-charging roller and the photosensitive drum. The drum contains negatively-charged toner particles.

As the paper passes between the charging roller and the photosensitive drum, the back of the paper receives a high positive charge and attracts the negatively charged toner particles to the front of the paper.

This is called the "charging roller method" and it has certain advantages compared with the "corona transfer method" used, for instance, in the LaserWriter, LaserWriter Plus, and LaserWriter II. The advantages are:

- Lower transfer voltages (half that of the corona transfer method).
- Less ozone generation.
- More stable paper feed, because the paper is supported by the roller.

Refer to Technical Procedures, Laser Printers Volume 3, Basics, page 1.31, for additional information.  
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