

# Xerographics Process - Xerographics

## Charging

As the photoreceptor drum rotates, the Charge Corotron places a uniform, negative, electrostatic charge on the photoreceptor. The Charge Corotron is a single wire constant current ( $570 \pm 20$  Microampere) device, that ionizes the air around it and directs the ions onto the surface of the Drum to produce a uniform negative charge. A metal screen called a Control Grid is positioned between the corotron wire and the drum surface. By applying a negative bias voltage to the Corotron Control Grid the Control Logic can control the amount of charge on the drum. An electrostatic voltage measuring device (ESV Sensor) measures the surface charge and provides the Control Logic with information to increase or decrease the amount of bias voltage to the control grid. In the Y and C Modules the ESV Sensor is located on the inboard end of the drum. In the M and K Modules the ESV Sensor is located on the outboard end.

