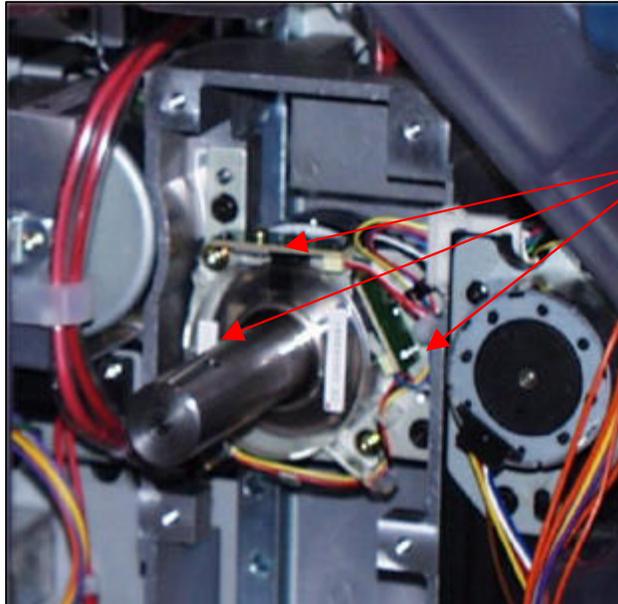


# Drum Drives - Xerographics

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## Drum Encoders

Each Drum Encoder has three sensors that track the rotation of the drum. The information from the encoder is sent to the Drum Drive PWB for processing. IOT Run Control processes the information from the Encoders, paper feed sensors, Belt Position Sensor and other machine run control signals to provide input to the drive motors in the Xerographic Module and IBT Module. The four photoreceptors and IBT Belt must be timed correctly to ensure that the image is written to the drum at the correct speed and correct time. A mismatch in speed or image transfer timing will cause misregistration and color image distortion.



**Drum Encoder  
Sensors**