ROS Image Skew Correction

The Mirror Tilt Mechanism is attached to the inner end of the Skew Mirror. The CRC routine adjusts the skew mirror for all four colors and registers those images against the Cyan image. the Registration Control PWB determines the amount and direction of correction needed to bring that color back into registration.

To accomplish the correction, the Mirror Motor for that color is switched on to operate the Mirror Drive Mechanism on the Mirror Tilt Mechanism (See Figure on Next Page).

The Screw Pulley shaft moves the Tilt Nut along the shaft. The Tilt Nut moves in the Horizontal direction as viewed from the front. This movement changes the position of the inner end of the Skew Mirror by tilting the mirror in the horizontal direction. The result is a change in Skew Mirror alignment with the other mirrors in a direction that will offset the original skew. This brings the registration for that color back into correct alignment.

ROS Image Skew Correction (continued)

The Mirror Position Sensor monitors the position of the mirror and provides information to the IOT PWB which calculates the stores the coordinates.