Kodak

Aligning Home Position and End Position on the Carriage Motor on a Magnus 400 Quantum

Platesetter

Adjustment/Alignment Procedure

English

731-01010A-EN

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Product

- Kodak® Magnus™ 400 Quantum platesetter

Background

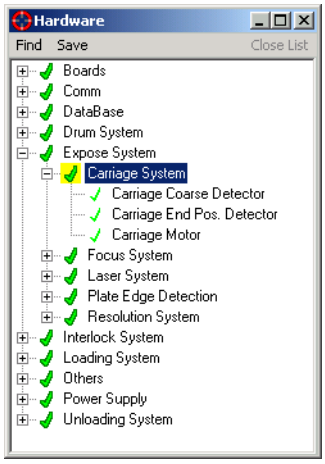
This procedure describes how to align the home position (HP) and end position (EP) on the carriage motor so that the optic head is permanently situated opposite the light detector.

Procedure

1. On the **Operations** toolbar, select **Utilities > Hardware**.



2. In the Hardware tree, go to **Expose System > Carriage System** and open the following windows:
   - Carriage Coarse Detector
   - Carriage End Pos. Detector
   - Carriage Motor



3. Verify that the Motor Interlock Defeater and the Laser Focus Defeater have been inserted into their respective interlocks.
4. To move the carriage on the leadscrew as far to the left as possible, in Kodak Service Shell, at the `Quantum>>` command prompt, type `carriage init`.
5. Loosen the Motor Interlock Defeater:
   a. Manually rotate the leadscrew until the red laser beam on the optic head is centered on the ruler that runs along the drum's circumference. This position should be approximately 6 mm (.24 in.) from the left edge of the drum.
   b. Loosen the screws that secure the home position flag on the optic head and adjust the home position flag, so that the Coarse Detector turns on at exactly the moment when it detects the tip of the home position flag.
   c. Manually rotate the leadscrew until the home position flag is no longer within range of the detector's sensors (and the Coarse Detector is off).
6. Insert the Motor Interlock Defeater:
   a. To move the carriage to home position, at the `Quantum>>` command prompt, type `carriage init`.
   b. Verify that the red laser beam on the optic head is centered on the ruler at the edge of the drum. Remember that the carriage 0 position is exactly 1 mm (.04 in.) to the right of the home position detector. At this position the home position detector is Off.

7. Remove the Motor Interlock Defeater Cheater:
    a. Manually rotate the leadscrew until the carriage touches the mechanical stopper.
    b. Verify that at this position the red laser beam on the optic head projects at least 2 mm (.08 in.) on the drum.
    c. Manually rotate the leadscrew until the home position flag is no longer within range of the detector's sensors (and the Coarse Detector is off).
8. Insert the Motor Interlock Defeater Cheater.
9. In Service Shell, at the `Quantum>>` command prompt, type `carriage init`.
10. In the Kodak Magnus 400 Controller software, move the carriage to position **764** mm.
11. Verify that the red laser beam on the optic head is positioned on the drum and that the mechanical stopper does not touch the ball bearing housing.
12. Remove the Motor Interlock Defeater Cheater:
    a. Manually rotate the leadscrew until the carriage touches the mechanical stopper.
    b. Verify that at this position the optic head's red laser beam projects at least 2 mm (.08 in.) on the drum.
    c. Manually rotate the leadscrew until the end position flag is no longer within range of the detector's sensors (and the Carriage End Pos Detector is off).
13. In Service Shell, at the `Quantum>>` command prompt, type `carriage init`.

Technical Contact(s)

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See the Escalation page for escalation contacts.

Date Submitted

30 Jan 2007

Last Updated