

IBT Belt - IOT Module

Image Registration Routine

Image Registration Routines are initiated and run at the following times:

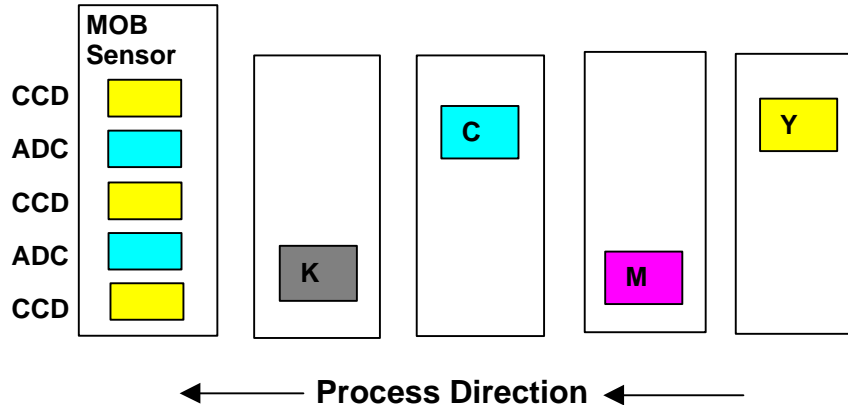
- Initiated by Control logic when the internal machine temperature changes by 3 degrees
- Initiated by Control logic when the Fuser temperature changes above or below 70 degrees
- Service Engineer initiated through the IOT Diagnostics during repair analysis or replacement of Xerographic components such as developer, drum, Belt Cleaner, Corotrons, etc.

The Image Registration Control Routine is centered around the CYAN ROS. When the Cyan ROS is positioned correctly using input from the MOB sensor. The other 3 colors are aligned to Cyan. The registration order is Cyan, Yellow, Magenta and Black.

NOTE: The registration order (CYMK) is different from the print order (YMCK).

Image Registration Routine (continued)

The Image Registration Routine positions a chevron pattern on the IBT. The pattern is monitored by the MOB sensor as follows:



START

1. The Chevron patterns are generated by Halftone PWB, and placed on IBT Belt.
2. The pattern is read by the MOB sensor and the information is sent to the Hyper Regi PWB which analysis the data and initiates the following:
3. If Registration is OK, no adjustments are made and the routine and ends.
4. If Registration close, fine adjustments are made and the routine ends.
5. If Registration is a long way out, the control logic performs a rough adjustment routine first and then performs steps one and two.

END

NOTE: All ROS assemblies are exactly the same and can be interchanged for diagnostic purposes. However all the other ROS lasers are set to the Cyan ROS. If the Cyan ROS is removed, the routine cannot be performed.