

## IOT & Drive PWBs - Machine Power

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### Hiper Regi PWB

The Hiper Regi PWB is located at the rear of the Ecology Module. The Hiper Regi PWB control the components used to register the paper with the image on the IBT Belt by controlling the following functions:

- Receives timing and control signals from the IOT Control Board for initialization, operation specification, and NVM data.
- Performs continuous Servo Regi Motor control (Regi Roller Rotation Control) by reducing the speed of the paper from the transport speed (450 mm/sec) to the process speed (263.894 mm/sec).
- Receives the control signal generated by the IOT Control Board used to time the registration of the lead edge of the paper with the image on the IBT Belt.
- Controls the side shift function (moves the regi roller back-and-forth)
- Controls regi roller drive and nip pressure to hold the paper in place for transfer.
- Controls Aligner Nip Release pressure to align the paper with the side guide (side skew elimination),
- Performs regi portion regi motor ON/OFF drive based on the specification from the IOT Control Board.
- Detects failures when it is not possible to control the functions described above and informs the IOT Control Board.
- Changes the control parameters depending on the type of the transported paper, the number of print sides, and the size.
- Performs individual driving of each of the output components in diag I/O check mode. (The inputs are also connected to the IOT.)

**NOTE:** See Next Page for Hiper Regi PWB location photo.

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Hiper Regi PWB (continued)

