Riesling Heavyweight Paper Mode Improvement Information
Customer information on how to switch modes

1. How to introduce countermeasure

1) Related NVM List
Following NVMs can be set in tools mode.

Chain-Link	Description	note
740-043	Heavyweight Paper Mode switch 0: Normal (Default) 1: Heavyweight Paper Mode	Access through tools mode nvm read/write
742-420	Regi Nip Release control switch (process speed: **35ppm**) 0: Nip Release ON (Default) 1: Nip Release OFF	Access through tools mode nvm read/write
742-421	Regi Nip Release control switch (process speed: **23ppm**) 0: Nip Release ON (Default) 1: Nip Release OFF	Access through tools mode nvm read/write

3) Access tools mode by selecting the "Log in/Out" button on the UI console.
4) Enter 5 ones (11111).
5) Select the "Machine Status" button on the UI console.
6) Select the "Tools" folder.
7) In the features column, scroll down and select "Maintenance".
8) Select "NVM Read/Write"
9) Enter NVM chain link 740-043 to enable the Heavyweight Paper mode.
10) Exit out by selecting close, then close and then select the "Log In/Out" button on the UI console.
11) The machine will return to the "Ready to copy" state.

Riesling Heavyweight Paper Mode Improvement Information

1. Add an NVM switch of "Heavyweight Paper improvement mode" in tools mode. When this mode is selected, the operation for over 177gsm paperweight range is changed as below.

1) Slow down process speed:
177–220gsm the Productivity is 35ppm (A4/8.5X11 LEF) for all paper including uncoated paper and coated paper. It is possible to both simplex and duplex/Inverter operation.
221gsm and greater the Productivity is 23ppm (A4/8.5X11 LEF) for all paper including uncoated paper and a coated paper. Simplex only (same as current).

2) Fusing temperature increase: 171°C to 188°C.

3) 2nd Transfer bias decrease is reduced to from 100% to 70%. Reduction rates are able to be set to each paper weight range individually (common setting for coated/uncoated/ etc) If further adjustment required, it should be adjusted individually for each paper type in Custom paper type in tools mode.

4) Regi Roll Nip Release: Current status as is (Nip to be released)
Added an NVM switch of "Not to release Nip" in tools mode. This switch is separate from "Heavyweight Paper Mode"
"Not to release Nip" setting offers larger 2nd Transfer bias latitude for Image defect avoidance. However, secondary defects may occur (See below). Therefore, the default is as is. In case of selecting "Not to release Nip", the side sift operation of the registration roll and the paper oscillation operation are prohibited.

5) Half latch fuser settings will be applied.

6) In case of designating "Heavyweight Paper Mode" during B/W mode, IOT will run in FC mode.

2. How to introduce countermeasure

1) Load the software provided. IOT V54.40.0

2) Related NVM List

Following NVMs can be set in tools mode.

Chain-Link	Description	note
740-043	Heavyweight Paper Mode switch 0: Normal (Default) 1: Heavyweight Paper Mode	Access through tools mode nvm read/write
742-420	Regi Nip Release control switch (process speed: **35ppm**) 0: Nip Release ON (Default) 1: Nip Release OFF	Access through tools mode nvm read/write
742-421	Regi Nip Release control switch (process speed: **23ppm**) 0: Nip Release ON (Default) 1: Nip Release OFF	Access through tools mode nvm read/write

3) Access tools mode by selecting the "Log in/Out" button on the UI console.

4) Enter 5 ones (11111).

5) Select the "Machine Status" button on the UI console.

6) Select the "Tools" folder.

7) In the features column, scroll down and select "Maintenance".

8) Select "NVM Read/Write"

9) Enter NVM chain link 740-043 to enable the Heavyweight Paper mode.

10) Exit out by selecting close, then close, then select the "Log In/Out" button on the UI console.

11) The machine should return to the "Ready to copy" state.

NOTE: Please inform your customer of the steps above to change between modes. There is an additional customer document "Customer Mode change for Heavyweight Paper Mode" supplied with the sw CD. Please give a copy of that document to your customer for reference. Also included with the CD is a preprinted customer letter.