Instruction for HSA pumps interactive mode.

Introduction

With the PCIPCB board, new electronics were introduced in the ink supply. The pump controller in this ink supply is known as "pump5" (5th generation). It allows you to adjust the settings of the pump by using the two buttons on top of the ink supply.

General information

This generation of printers will automatically turn of the pump when not printing. This means that if the photocell is not activated in 5 minutes the printer will fall into sleep mode. When the photocell is activated in sleep mode the printer will immediately return to normal cycle mode.

Start of interactive mode

Hold down **both** buttons until both LEDs are blinking. When the buttons are released, both LEDs are turned off.

From here, you have 2 options with the XaarJet 128 printer, and 3 options with the XaarJet 500 printer.

Adjust the length of the pump cycle

- Activate the *black* button until both LEDs are blinking. The LEDs are turned off when the button is released.
- The yellow LED is blinking according to the selected level. The faster, the more the pump will be working
- By pressing the *black* button, the next higher level will be selected. There is a total of 6 levels; the green lamp will be on a the lowest level (longest time between pump activity). Level 3 is the default setting.
- Press the *red* button to go back to normal function. The pump will start after this.

Pump timings for microprocessor Pump5.xx

Xaar128 MODE			
LEVEL	RUN TIME (seconds)	IDLE TIME (minutes)	SPEED INDICATOR (flashes/second)
1	30	20	32
2	30	15	16
3	40	12	8
4	40	8	4
5	40	6	2
6	40	2	1

Xaar500 mode on the next page.

Xaar500 MODE			
LEVEL	RUN TIME (seconds)	IDLE TIME (minutes)	SPEED INDICATOR (flashes/second)
1	40	30	32
2	60	15	16
3	60	12	8
4	120	8	4
5	120	6	2
6	120	2	1

Adjust the measurement of low ink

- Dismount the ink bottle
- **From interactive mode**, press *both* buttons until both LEDs are blinking. When the buttons are released, the LEDs are turned off.
- The empty condition is measured. (the pumps runs for 5 minutes) When finished, both LEDs are turned on.
- Mount a full ink bottle
- Press the *black* button until both LEDs turn off. (the pump runs for 20 seconds)
- The LEDs are blinking, to indicate that the measurement is complete
- Press the *red* button to return to normal function. The pump will start running.

Adjust the print direction (XaarJet 500 only)

The XaarJet 500 allows you to choose between two different ways of shooting with the nozzles. The print quality will depend on this setting.

- **From interactive mode**, press the red button. One lamp will be lit, the other not.
- Press the black button to toggle between the two directions. The light will change accordingly.
- Press the red button to exit. The pump will run.