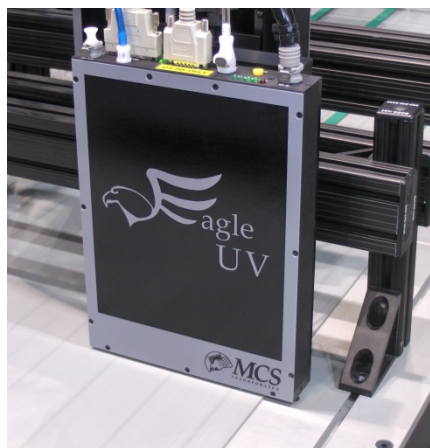




# Flushing MCS Eagle Print Head

(V4.0.8.0 and later)



# Flushing MCS Eagle Print Head

**Purpose of this document:** This document is intended to demonstrate the proper procedure for flushing of the Eagle Print Head system.

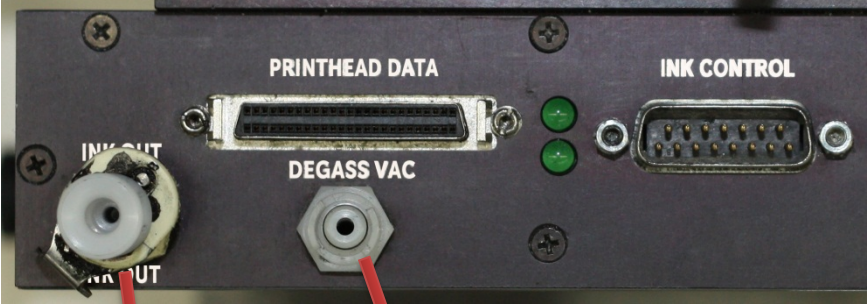
**What is Flushing?:** Flushing of the Eagle Print Head is the process of replacing the ink contained within the Print Head with an approved flushing solution. Only flushing solutions provided by Think Ink, Inc. can be used.

**When should you flush an Eagle Print Head?:** It is advised to flush the Print Heads anytime the system will be idle for more than 3 days. A complete system flush is advised at least once every month for the Eagle UV and at least once every three months for the Eagle H2O and the Eagle FlexPrint. Flushing will help maintain print quality throughout the life of the Print Head.

## **Main things to consider when flushing an Eagle Print Head:**

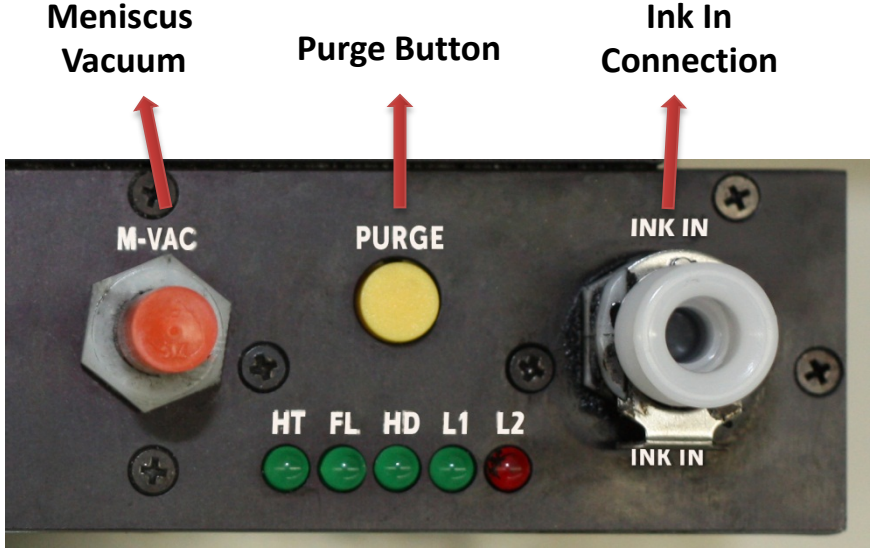
- The Eagle Print Head is very sophisticated and expensive, treat it with respect
- Use only approved Think Ink flushing solution and wipes
- Don't forget to place a pan under the Print Head when flushing
- Always replace ink with flush solution if system is to remain idle for more than 3 days

# Print Head Connections



**Ink Out Connection**

**Degass Vacuum Connection**



**Meniscus Vacuum**

**Purge Button**

**Ink In Connection**

# Eagle Flush Needed Supplies



**Purge Bottle**



**Purge/Flush Pan**



[www.thinkink.com](http://www.thinkink.com)

877-857-2459

Part# 5851

Black (H) UV Curable Ink Flush  
(1 liter bottle)

Part# 5901

Black (L) UV Curable Ink Flush  
(1 liter bottle)

Part# 6012

FlexPrint  
(1 liter bottle)

Part# 5688

H<sub>2</sub>O  
(1 liter bottle)

## Flush

## Flush Solution

(Be sure you are using proper flush solution. Check letter code with ink)

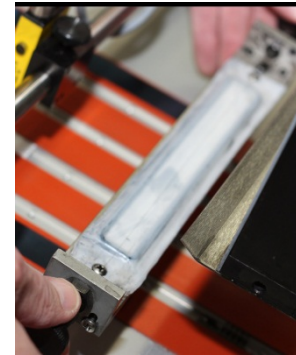
# Flushing Procedure

1. **IMPORTANT!!! Turn Power Off to Print Controller. All lights should be off on the Print Head.**

Disconnect ink line to ink in connection.



2. Place pan under Print Head to catch all fluids and uncap the Print Head.



3. Remove cap from ink out connection.



# Flushing Procedure

4. Connect flush line connector to ink out connection. Inspect O-ring on connector. Be sure it is in place and in good condition.

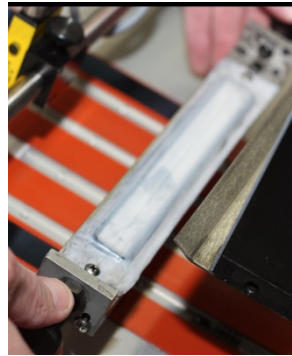


5. Flush should immediately start flowing into Print Head and ink should start dripping out the nozzles. (If flush does not flow, check the flush line – be sure it is not looped too far below Print Head). Within a minute, you should see flush coming out the nozzles.
6. Once ink has been replaced by flush, about a minute, disconnect flush line and replace cap on the ink out connector. **Do not leave flush line connected.**



# Flushing Procedure

7. Recap the Print Head.



8. If Print Head is to remain idle, disconnect ink line and vacuum hoses from the Print Head.

9. Cap ink in connection



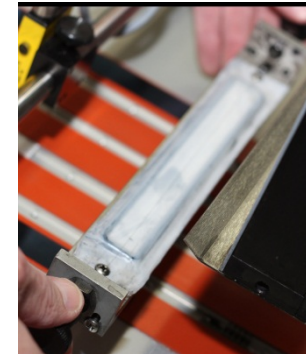


# Putting Ink Back into System

1. Place pan under Print Head and uncap.



2. Reconnect vacuum lines and connect ink line to in connection (if previously disconnected). Inspect O-ring on connectors. Be sure it is in place and in good condition.



3. Turn on print controller power.



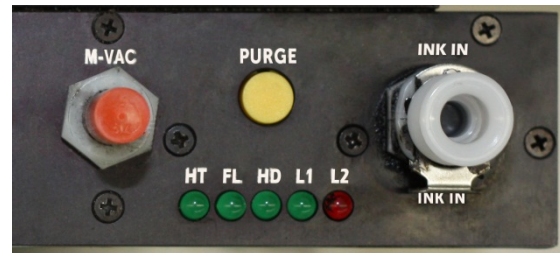


# Putting Ink Back into System

4. Remove cap from ink out connection



5. Connect purge bottle to ink out connector



6. Press purge button to purge ink into Print Head and press again to reset, repeat 3 times. You should then have flush flowing into purge bottle.

# Putting Ink Back into System

7. Remove purge bottle connector



8. Recap ink out connection

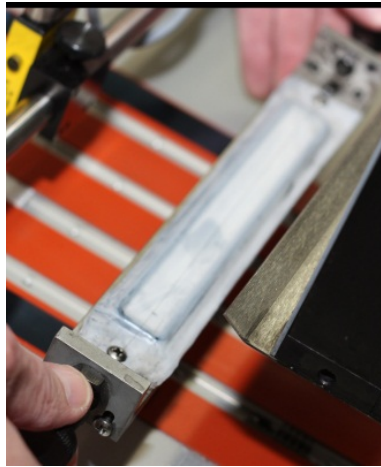


9. Press purge button to continue putting ink back into Print Head. Press again to reset. Repeat 5 times to clear out all flush from Print Head.



# Putting Ink Back into System

10. If Print Head is not going to be used immediately, wipe Print Head using proper wiping procedures and install cap.



11. If going to run print job, wipe Print Head using proper wiping procedure and continue to setup print job. Use only approved wipes available from Think Ink.