

## Flushing the System and preparing the printer for storage



Technical Support

Version 1.2  
8/31/2016



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## Revision History

| <b>Revision</b> | <b>Description</b>     | <b>Author</b>   | <b>Date</b> |
|-----------------|------------------------|---|-------------|
| 1.2             | Initial release draft. | Robert Herman – Tech Support<br>Manager<br>Edited by Alan McManus | 8/10/2016   |

## *Flushing the System with Cleaning Solution*

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### *Introduction*

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This is a step by step guide on how to properly flush the system with cleaning solution.  
**THIS REQUIRES 1 SET OF STANDARD CLEANING CARTRIDGES (MCF-GW1) AND 1 SET OF HIGH VISCOCITY CLEANING CARTRIDGES (MCFHV)**

### *Scope*

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This applies to all mPower printers.

### *Steps for System Flush*

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**It is very important the printer is flushed thoroughly to avoid clogging the print heads. They are not covered by warranty due to clogging issues.**

**CAUTION:** Make sure your waste ink tank is Empty before starting this process.

**Step 1:**

Perform your normal maintenance to achieve a solid nozzle check. Then perform the nozzle check and take a picture of the results. Save the picture of the nozzle check. Then remove all ink cartridges. With NO ink cartridges in the printer, go to Menu, Printer settings and switch the cartridge check to NO.

**Step2:**

Once the cartridge check is at NO, go into maintenance functions, enter start up fill. Enter fill purge lines first.

**Step 3:**

Once inside of the fill purge menu, choose 60 seconds. Open the lid to see the white ink exit the tubes. It will take several of these fills at 60 seconds to completely empty the purge lines of ink. Do at least three 60 second fills. If ink is still visible in the purge lines after three fills, continue with the 60 second fills, until the lines are empty. The Purge lines go to the BACK of the print head.

**Step 4:**

Next, press the enter button with the cursor over Exit. This will turn the pump OFF. After that, go to the Fill Print Lines window. Choose to fill for 30 seconds then open the lid to see the ink exit the Print Lines. Repeat the fill for 30 seconds at least three times. If ink remains in the print lines after three 30 second fills, continue the 30 second fills until no ink is visible in the print lines. The print lines go to the FRONT of the print head.

**Step 5:**

After flushing both ink systems PURGE and PRINT, go ahead and install all six cleaning fluid cartridges (MCF-GW1) into the printer. Before starting with the fill – release the carriage and clean excessive ink/air mixture from the maintenance station and print head plate using lint free wipes and cleaning swabs (just cleaning swabs for the print heads) then secure the carriage. Exit the fill PRINT Menu and re-enter fill PURGE lines.

**Step 6:**

Once inside of the PURGE lines enter 60 seconds to get them filled with cleaning fluid. Fill the Purge Lines at 60 seconds at least five times (or until the lines are filled and clear). Additional fills may be required if five fills do not completely fill the purge lines with cleaning solution.

**Step 7:**

Next, go into the Fill Print Lines and choose 30 seconds. Fill the print lines at 30 seconds at least 10 times (or until the lines are filled and clear). Additional fills may be required if the print lines are not completely filled with cleaning solution.

**Step 8:**

Once the printer is full of cleaning fluid perform a few head cleans. Now perform a nozzle check of the cleaning fluid directly onto the platen. Due to the fluid being thinner than ink, you may need to perform a few nozzle checks, one on top of the other to build a layer of fluid in the nozzle check. If possible, take a picture of the nozzle check. Then we will remove the cleaning fluid cartridges and go through purging the cleaning fluid from the system, just like the previous steps to drain the ink.

**Step 9:**

Enter the startup fill menu and select fill purge lines, choose 60 seconds. Perform at least 5-10 of the sixty second fills (without cartridges installed). If cleaning fluid is still visible in the purge lines after 5-10 fills, continue until the lines are empty.

**Step 10:**

Next, press the enter button with the cursor over Exit. This will turn the pump OFF. After that, go to Fill Print Lines. Perform the 30 second fill at least 10-15 times. If cleaning fluid remains in the print lines after the print line fills, continue the fill until no cleaning remains in the print lines.

**Step 11:**

With the print and purge lines clear of ink and cleaning fluid, we can insert the High Viscosity storage fluid cartridges (MCFHV). Clean the print head plate and maintenance station as necessary before refilling with MCFHV. Then begin to fill the lines with high viscosity fluid by repeating the same steps as before

**Step 12:**

Start by going back to the startup fill menu and select fill purge lines. Perform five of the 60 second purge fills (or until the lines are filled and clear). Additional fills may be required if five fills do not completely fill the purge lines with high viscosity cleaning solution.

**Step 13:**

Next, press the enter button with the cursor over Exit. This will turn the pump OFF. After that, go to Fill Print Lines. Perform the 30 second fill at least 5 times (or until the lines are filled and clear). Additional fills may be required if 5 fills do not completely fill the purge lines with high viscosity cleaning solution. Now perform a nozzle check of the high viscosity cleaning fluid directly onto the platen. Due to the fluid being thinner than ink, you may need to perform a few nozzle checks, one on top of the other, to build a layer of fluid in the nozzle check. If possible, take a picture of the nozzle check.

**IF ANY PIGMENT IS LEFT IN THE INK DELIVERY SYSTEM, IT WILL CLOG.**

**THE PRINT HEADS ARE NOT COVERED FOR CLOGGING ISSUES.**

Once the flush is complete, the lines should look like the image below.

