

## SECTION 3 – *Operating Printer*

Once Printer Driver is installed and Printhead is primed, you are ready to start printing. Set up your job and send it to Printer. Printer will start and print.

This section is divided into two parts:

1. How to set up a job to print from Microsoft Word.
2. Driver Properties and various options available when you run a job.

Set Printer Driver installed in Section 2 as default driver. It is then accessible through your applications (such as Microsoft Word). Other types of applications and database management software will work in a similar manner when using this Driver. This Section further assumes that feed is set up and Printer is connected to your computer.

### *Setting Up a Job in MS Word*

When setting up a job to print in MS Word or any other application, first determine print area of Printer and paper sizes it can handle.

**Maximum print area** for Printer:  
8.5" wide x 30" long.

**Maximum media size** Printer Media Support can hold:  
9.5" wide x 17" long\*. (See diagram at right.)

\*(Up to 30" long if media is otherwise supported.)

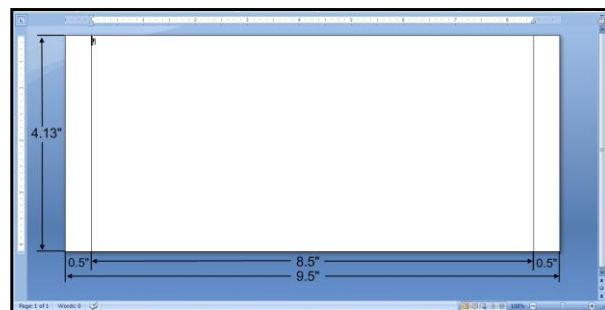
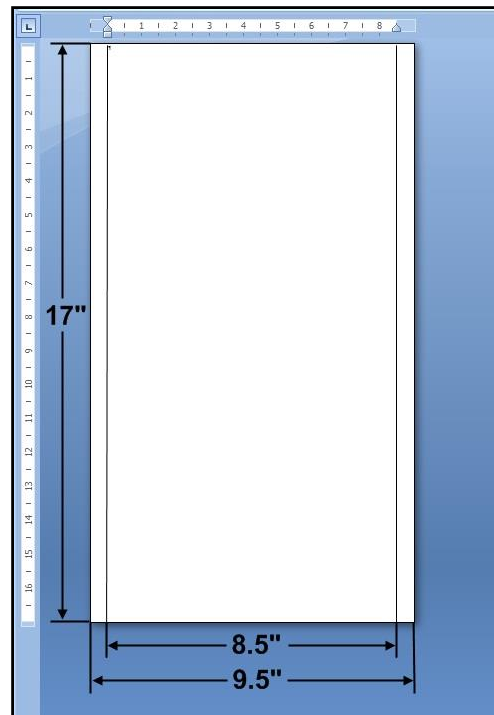
**Minimum paper size** Printer can feed:  
3" wide x 4.2" long.

To set up maximum print area for a 9.5" x 30" document, set paper size to 9.5" wide by 30" long in **Custom Paper** setting. Set top and bottom margins to 0" (or any margin needed). Set right-hand and left hand margins to 0.5". You can now layout job and print maximum printing area.

For other page sizes such as 8.5" x 11" (standard letter) or 8.5" x 14" (legal size), set paper size to exact size and set margins as needed.

**NOTE: Set Left-hand Side Guide to 9.5" position when running 9.5" wide media. Set Guide to 8.5" position with 8.5" or narrower media.**

**Envelopes:** Select an envelope (example uses a #10 envelope) from **Page Setup** in MS Word. Feed envelope by 9.5" width, (fastest way to run envelopes, especially if addressing them with a **Mail Merge**). Set top and bottom margins to 0", left and right margins at 0.5" (as shown).

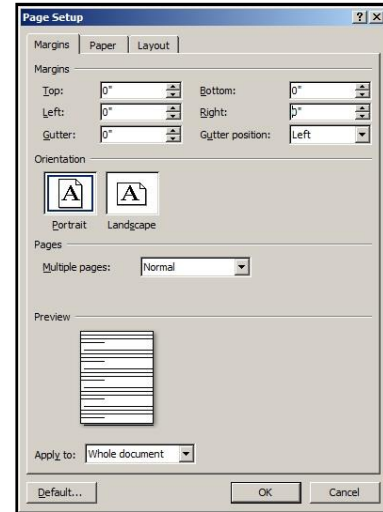


## Printing a Typical Job on 8.5" x 5.5" Paper

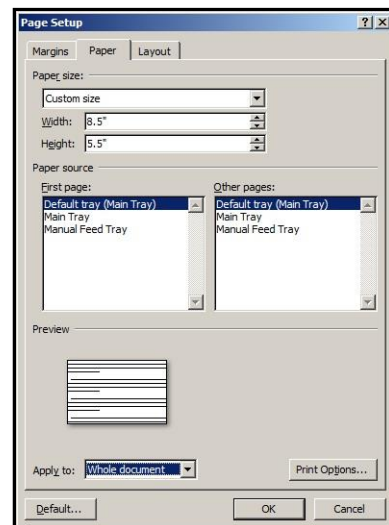
Printer can print edge-to-edge on an 8.5" x 5.5" document.

To set up a job:

1. Go to **File**, then **Page Setup** and select **0"** margins.

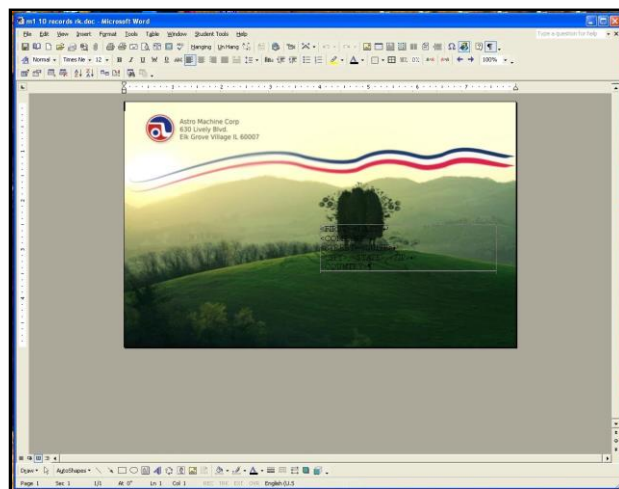


2. Select **Paper** tab, select Paper Size, "**Custom size**" then set paper Width to 8.5" and paper Height to 5.5". Click **OK**.



3. Screen at right is an example of a job to be printed. Once job is ready for printing, select "**Print**" from **File** menu and print job.

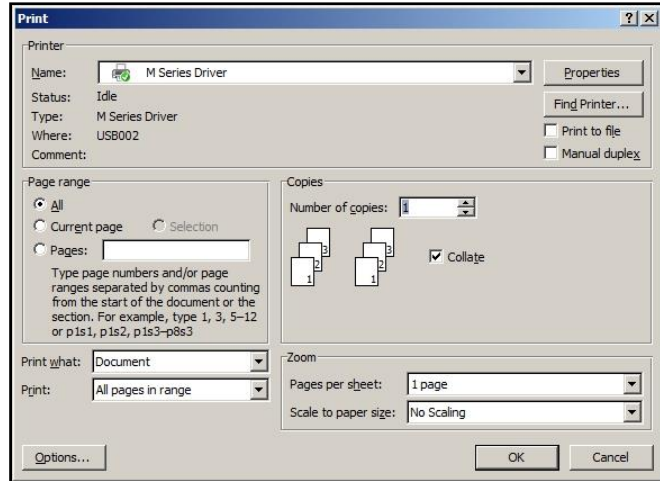
For more information about changes that can be made in **Driver**, see **Printer Driver** section.



## Printer Driver Properties

Printer Driver works the same as any other Printer Driver for Windows. It does have some enhancements to help maximize Printer's ability to print variable addressed pieces quickly and efficiently.

**Windows XP, Vista, Windows 7, Windows 8, Windows 10:** Once job is set up, click **File**, then **Print**. Window at right opens. Make sure **M Series Driver** is selected Printer. Clicking **Properties** opens "Properties" window.



## General Tab

General tab lets you select:

- **Orientation** – Portrait (*default*), Landscape, Rotate 180° and Mirrored.

- **Job Management:**
  - **Page Buffering** – Loads entire print job before printing starts.
  - **Mask Optimization** (*checked is default*) optimizes images for printing in most applications.

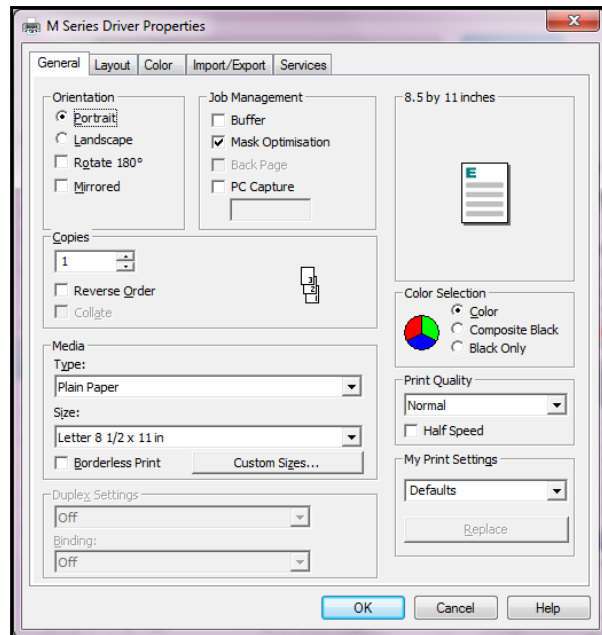
**NOTE:** Some applications (*like FlexMail*) may display image boundaries when printed, unchecking **Mask Optimization** box eliminates these lines. (*Remember to check box when changing applications.*)

**Back Page** – Unavailable unless Printer is attached to M1DX Duplex Printer.

**PC Capture** – When checked, saves a Print File (\*.prn) on the PC (C:\Windows\Temp) for later use. (*Unchecked is default.*)

**NOTE:** Use the box below the selection to name the file, otherwise the Printer assigns the current date and a numerical name.

- **Copies** – Enter the number of copies to be printed. **NOTE: Default setting (Reverse Order unchecked)** prints job starting with first page. Printing starts as soon as first page loads. **Reverse Order** allows job to start printing from last page. Since entire job has to load into Printer before printing starts, large jobs may take longer to load.



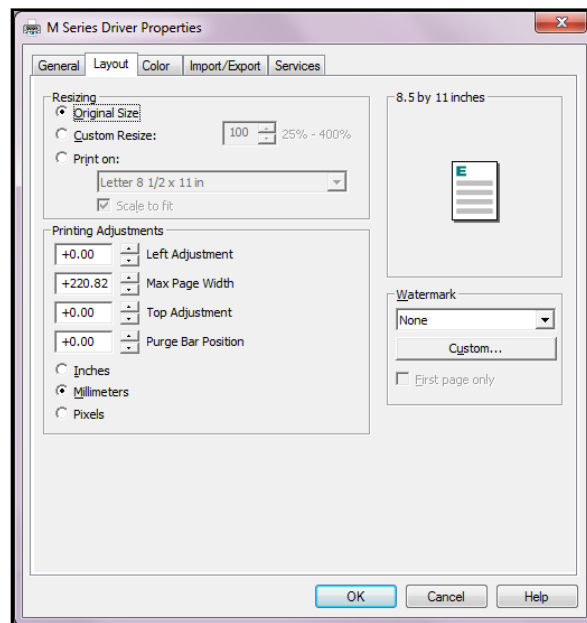
- Media** – Choose a type of media or different size media than document was originally designed for.  
**Type:** Chart at right lists media profiles associated with type of media chosen. **Sizes:** 21 sizes are available. Document is automatically resized to fit new media. Also create and save a **Custom Size** to suit your needs.  
**NOTE: Do not exceed maximum paper size for Printer.**
- Duplex Settings** – Unavailable unless Printer is attached to the **Duplex Printer.**
- Color Selection** – Set Printing for Color, Composite Black (*uses all colors to print Black*), or Black Only (*uses only Black ink*).
- Print Quality** – Select **Normal** or **Best**. **Normal** is 1600 x 800 dpi. **Best** setting is 1600 x 1600 dpi, for use when high quality images are required. Checking **“Half Speed”** box slows printing for higher quality on glossy stock. **NOTE: Half Speed not available when using Best setting.**
- My Print Settings** – Access your saved custom print settings for various jobs.

MEDIA PROFILE	MEDIA TYPE
Plain Paper	Plain Paper Bright White Paper
Matte Paper	Presentation Paper Postcards Matte Brochure Matte Labels Matte Other Inkjet Paper Matte
Premium Matte Coated Paper	Premium Inkjet Paper Premium Photo Paper Matte
Glossy Paper	Photo Paper Semi-gloss Photo Paper Glossy Labels Glossy Postcards Glossy Brochure Glossy
Premium Glossy Paper	Premium Photo Paper Glossy

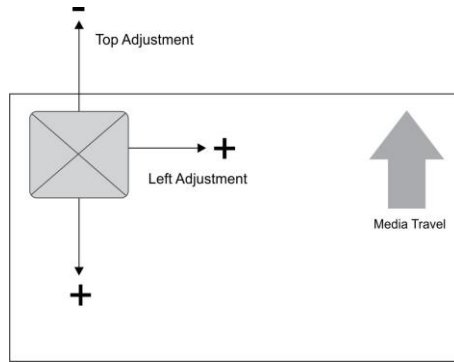
## Layout Tab

**Layout** allows you change how document prints without changing original document.

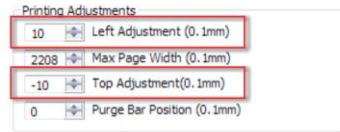
- Resizing** – Specify **Original Size** or **Custom Resize:** Resizes original as a % of normal size. Printer prints document in size you selected regardless of paper size selected.  
**Print on:** Specify particular size of paper to print on regardless of size of original document. Checking **“Scale to Fit”** automatically resizes document to fit on new page size.
- Printing Adjustments** – Make minor positioning changes to print area in relation to media if needed. Also set measurements to be in Inches, Millimeters or Pixels.  
**NOTE: Printing Adjustments only works when Print Area is less than full print width (less than 8.5”/215.9mm wide).** See **“Using Layout Tab Printing Adjustments”** on next page.



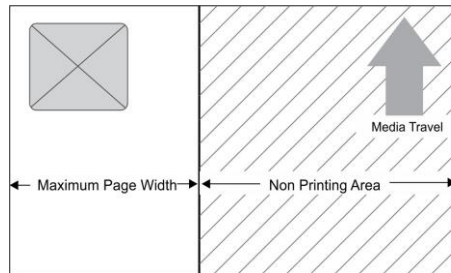
**Using Layout Tab Printing Adjustments**



**Image Position**



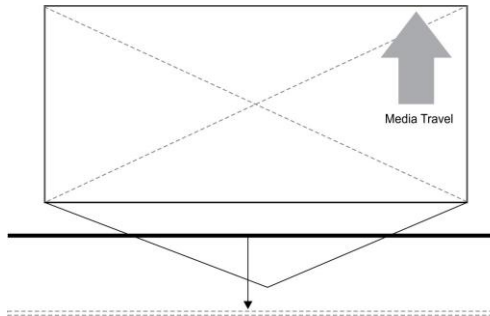
**Image Position – Left Adjustment** moves image area away (-3mm left to +200mm right) from left edge of media. **Top Adjustment** moves image up or down (-5mm up to +200mm down) from top left corner of media used. (0.1mm increments)



**Maximum Printing Area**



**Max Page Width** – Sets width of actual print area. (0.1mm increments) This shuts off nozzles in non-printing area (not used for printing) and saves ink. **NOTE: Can be no larger than maximum print width for Printer (8.5"/215.9mm).**



**Purge Bar Position**



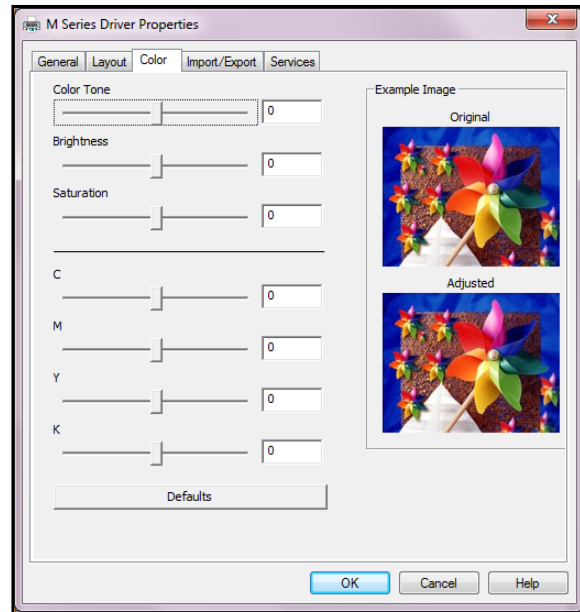
**Purge Bar Position\*** – In operation, Printhead spits a small amount of ink in gap between pieces to keep nozzles refreshed. For irregular-shaped pieces (like an envelope flap), Sensor may “read” lower end as the edge and spray on the tip of the flap instead of actual gap between pieces. This feature allows you to manually set gap (in 0.1mm increments) to account for extra length needed to reach actual gap.

\* See also “**Purge Bar Position**” in **Printer Toolbox** section.

- **Watermark** – Prints a light background watermark in paper while printing original document. When this option is selected, “**First page only**” option prints watermark on first page, but not subsequent pages, unchecking prints watermark on all pages. **Custom** button lets you create a new watermark or edit an existing watermark, including font selection, color, size and printing angle.

## Color Tab

**Color** is used to adjust the color output of the Printer. Use the sliders to adjust **Color Tone**, **Brightness** and **Saturation**. The **C, M, Y, K** sliders adjust individual colors. Use **Defaults** to reset to **0** settings.



## Import/Export Tab

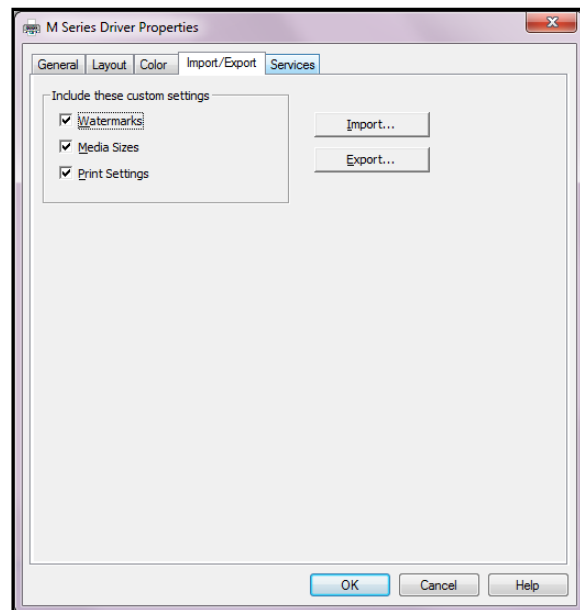
**Import/Export** is used to preserve any custom Media Sizes, Watermarks and/or Print Settings you may have developed and saved for various jobs when you update Printer firmware.

- **Export** – Send custom settings to a holding file before downloading new firmware.
- **Import** – Return custom settings after firmware installation is complete.

This tab is also used to import custom media size packages or watermarks from your dealer if they are available.

### IMPORTANT!

**BEFORE UPDATING ANY PRINTER FIRMWARE, REMEMBER TO FIRST EXPORT ANY CUSTOM MEDIA SIZES, WATERMARKS OR PRINT SETTINGS YOU HAVE ADDED TO AN OUTSIDE HOLDING FILE. THIS PREVENTS THE LOSS OF YOUR CUSTOM SETTINGS.**



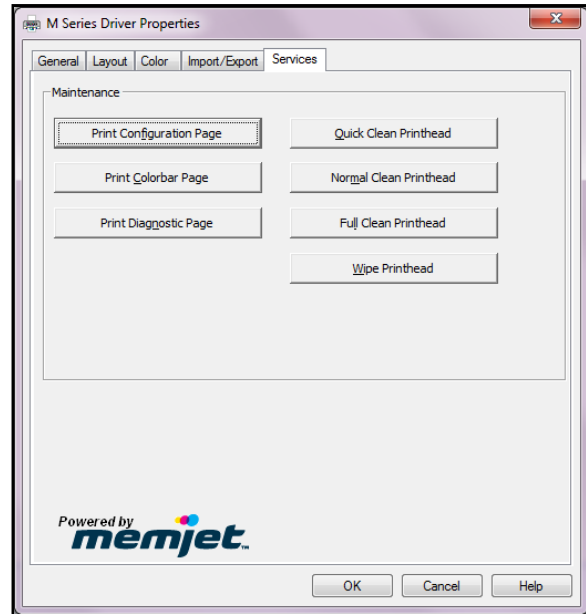
## Services Tab

Services allows you to:

- **Print Configuration Page** – Prints out current configuration of Printer including current Firmware Version, Network Connection, Printer Serial Number and more.
- **Print Colorbar Page** – Prints type and color bands to check print quality.
- **Print Diagnostic Page** – Displays basic Printer information, memory, Network Settings, Event Log and RAM partitions.
- **Clean Printhead Buttons:** Provide 3 levels of cleaning for Printhead Cartridge.
  - Quick Clean Printhead** – Circulates ink, wipes and cleans Printhead Cartridge.
  - Normal Clean Printhead** – Runs cleaning and wiping routine twice for better flushing and cleaning.
  - Full Clean Printhead** – Runs cleaning routine multiple times for the most thorough flushing and cleaning of Printhead.

**NOTE: If Printer is connected to a network and Driver buttons fail to activate cleaning process, perform same functions from Toolbox User Interface.**

- **Wipe Printhead** – Wipes and cleans excess ink from Printhead Cartridge.





## Using Printer Toolbox

Once the Printer Driver is installed, you can access the **Printer Toolbox**. You can check Printer status, monitor ink usage, perform diagnostic checks, print reports and run maintenance tasks on the Printer from your computer. **The Toolbox works with both conventional and touchscreen computer screens.**

### To open Toolbox:

Open **Start Menu**, then click on **Toolbox**. **NOTE: Conventional Screens:** Use your cursor.

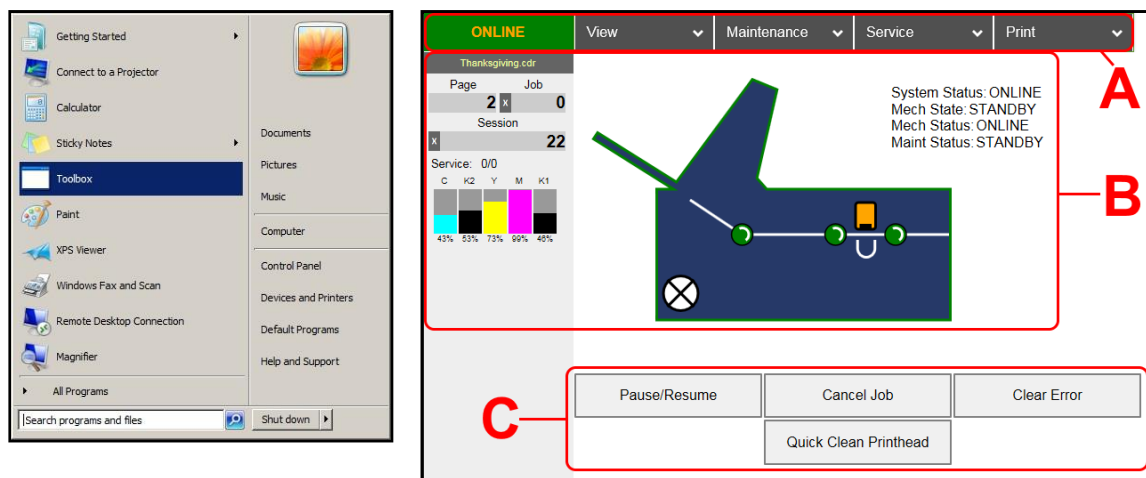
**Touchscreens:** Tap buttons or selections or use your cursor.

When **System Status** window opens:

[A] System Status Indicator and Drop-Down Menu Options (*at top of screen*).

[B] Check Printer Status of both Printers (*across middle of screen*).

[C] Four often-used control buttons (*at bottom of screen*).



## Drop-Down Menu Options

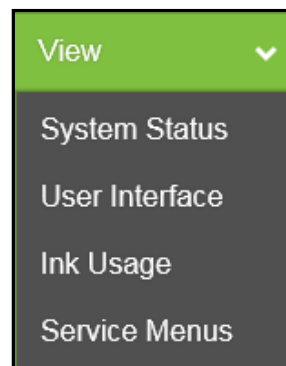


There are four **Drop-Down Menus**:

**View, Maintenance, Service and Print.** The drop-down menus are available on every Toolbox screen allowing you to toggle between menus and select different Printer features and functions.

### View Drop-Down

The **View** drop-down gives you four choices:  
**System Status, User Interface, Ink Usage and Service Menus.**





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### System Status

This screen opens when you access the Toolbox. It provides information about the Printer.

#### Left side:

**Status Indicator** shows Printer activity as **ONLINE**, **ERROR**, **MAINTENANCE**, **PRINTING** or **PAUSED**. The gray box (*below Status Indicator*) shows the name of the job being processed.

**Page** shows the page count for a given job.

**Job** shows number of jobs printed (*resettable*), **Session** shows the total number of pages printed by the Printer (*resettable*) over the length of a Session (*shift, day, week, etc.*).

**Service** shows the number of pages printed (*first number*) up to the next mid-job servicing (*second number*). The second number can be set in **Mid-Job Servicing** on the **User Interface** screen.

**Ink Levels** displays percentage of ink remaining in each of the Ink Tanks in the Printer.

**Date and Time** are configured and set using **Date and Time** on the **System Settings** screen.

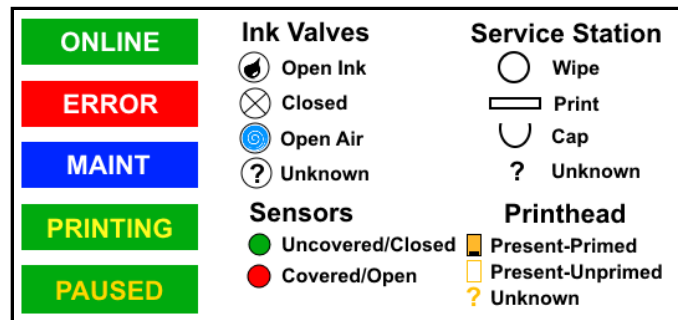
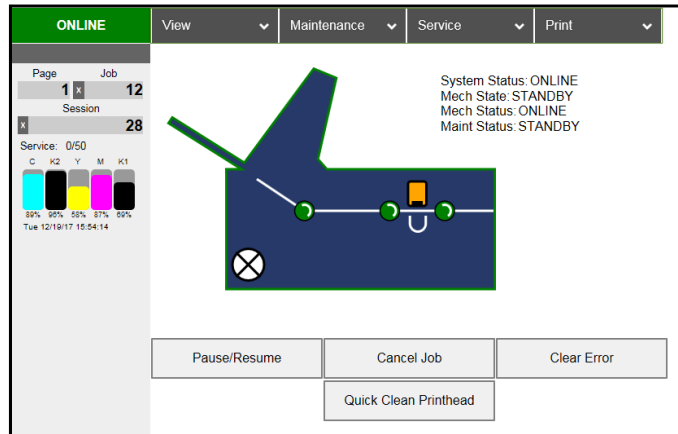
**Printer Icon:** Shows status of the Media Sensors located in the media feed path of the Printer. Also shows status of Ink Valves, Service Station, and Printhead. These can alert the operator to the type and location of a problem.

Tapping or rolling over any of the status icons with your cursor pops up a description of that icon.

#### Right side:

Shows basic operating information about the Printer.

**CONTROL BUTTONS** (*located along bottom of the screen*): **Pause/Resume**, **Cancel a Job**, **Clear Error**, and **Quick Clean Printhead**. Provide quick access to often-used functions.



## User Interface

### SET-UP SETTINGS:

Adjust automated service and cleaning intervals, adjust feeder speed for a job, manually set gap between pieces and adjust the Printer for pre-printed media.

**KWS Setting** – (*Keep Wet Spitting*) Keeps the Printhead hydrated while running a job.

**Select from 3 settings:** None, Light (*default*), Heavy, to

determine how much ink will “spit” from the Printhead Nozzles. Set in conjunction with “**Mid-Job Servicing**” which determines frequency of the Printer stopping for self-servicing during a job.

**Cutsheet Feeding Mode** – Change how the Printer feeds media depending on type of job being run:

**Safe Feed** – Leaves a larger gap between pieces to reduce overprinting onto next piece. This setting is useful for more intricate printing jobs or jobs requiring the best print quality.

**Max\_Throughput** – Allows fastest printing speed. Printer works like a stream feeder. This setting is useful for simple printing jobs. **NOTE:** A few extra blank pieces may run through at end of job.

**NOTE:** These two settings can be changed without stopping job. **Example:** While running a job in “**Max-Throughput**” you find that media is jamming excessively due to speed. Open **Toolbox**, check “**Safe Feed**” and click “**Submit**”. Printer automatically adjusts without having to pause or stop job.

**Mid-Job Servicing** – Sets frequency of automatic maintenance cycles run during a job after a set amount of media is run. Settings are: **50 Pages\*** (Default), **100 Pages**, **250 Pages**, **500 Pages**, **1000 Pages** and **2500 Pages**. **NOTE:** Changing setting from “**Default**” may cause print quality issues and reduce Printhead life.

\*Use 50 Pages (Default) setting only with media at least letter-sized or A4 length or longer.

**Purge Bar Position (BoF)** – In operation, Printhead spits a small amount of ink in gap between pieces to keep nozzles refreshed. For irregular-shaped pieces (*like an envelope flap*), the Sensor may “read” lower end as the edge and spray on the tip of flap instead of actual gap between pieces. This feature allows you to manually set gap (*1 micron increments*) to account for extra length needed to reach actual gap.

**Ignore Exit Sensor** – Checking this box turns Exit Sensor OFF. Sensor may not detect trailing edge of a piece of pre-printed media if back of that media is dark or black. (**Example:** adding addresses to a pre-printed postcard.) This may cause Sensor to react as if a jam has occurred. Turning Sensor OFF prevents these “false jams” from stopping job.

**Overlap Detection** – Detects differences in media thickness and stops the Printer if two or more single sheets pass through the sensor stacked on top of each other. Default is not activated (*box not checked*). If running envelopes or media with varying thickness (*such as folded*), turn this feature OFF (*uncheck box*). **NOTE:** Remember to turn feature back ON if running single sheets again.

Click “**Submit**” to apply settings.

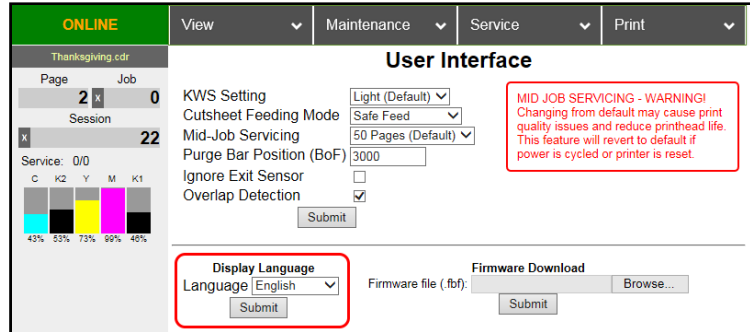
The screenshot shows the printer's control panel interface. At the top, there are tabs for 'View', 'Maintenance', 'Service', and 'Print'. The main area is titled 'User Interface'. On the left, there's a status bar showing 'ONLINE', 'Thanksgiving.cdr', 'Page 2 of 0', 'Job 0', 'Session 22', and 'Service: 0/0'. Below that are ink level indicators for C, K2, Y, M, and K1. The main settings area includes:
 

- KWS Setting:** Light (Default) [v]
- Cutsheet Feeding Mode:** Safe Feed [v]
- Mid-Job Servicing:** 50 Pages (Default) [v]
- Purge Bar Position (BoF):** 3000 [input]
- Ignore Exit Sensor:**
- Overlap Detection:**

 A red box highlights a warning message: 'MID JOB SERVICING - WARNING! Changing from default may cause print quality issues and reduce printhead life. This feature will revert to default if power is cycled or printer is reset.' Below the settings are 'Display Language' (English [v]) and 'Firmware Download' (Firmware file ( .fbf ): [input] [Browse...]).

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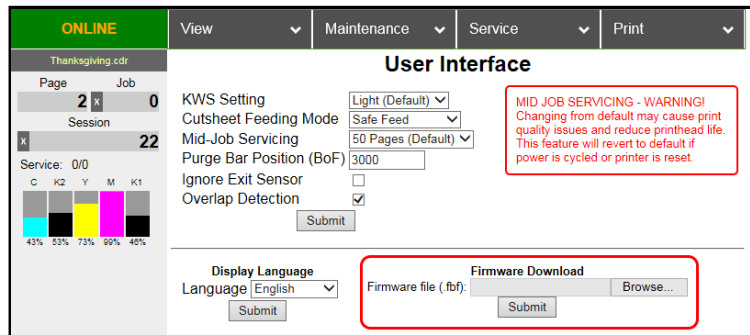
**DISPLAY LANGUAGE:** Selects language EWS (*Toolbox*) will display. Click “Submit” after selecting language.



**FIRMWARE DOWNLOAD:** Get the latest version of firmware for your Printer. **Two types of firmware files are normally provided:** “.bin” files and “.fbf” files. “.fbf” files are loaded using the **Printer Toolbox**.

**NOTE:** Using the “.fbf” file procedure is an alternative method for downloading firmware. See “Updating Firmware Using “.bin” File” for the recommended procedure using the “.bin” files.

**WARNING:** This procedure should only be performed by qualified service personnel. In some cases firmware must be loaded using “Firmware Migration Tool”. If this process is not performed properly, Printer is rendered inoperable.



## Ink Usage

Displays the amount of ink used and other information for each job sent to the Printer. Also tracks estimated **Page** and **Job Costs** if information is entered in **Job Cost Settings**.

**Upload Table** – Creates and opens a linkable tabular data file using programs such as Microsoft Excel (*default is Excel*).

**INK ESTIMATION MODE** – Lets you predetermine how much ink a given job may use prior to printing a job. This is useful for determining per piece costs. Job is sent to Printer and loads, but does not print. Once the job is loaded, click **“Refresh”** to show the amount of ink (*by color*) that the job will use.

### Mode selection:

**Off** – Feature is disabled.

**Continuous** – Ink Estimation Mode continues running (*Printer will not print*) until feature is turned **“OFF”**.

**Single Pass** – Ink Estimation Mode runs once, then turns off. Printer will then be ready to print.

Click **“Submit”** to activate **Mode** setting selected.

**NOTE: Estimating process takes as long as job would take to print (i.e., if job would take 1 hour to print, estimate will take 1 hour to display. Track progress on the Counter located in the System Status window.)**

**JOB COST SETTINGS** – Enter your ink cost and printhead cost and media size preference (*inches or mm*).

Set a minimum of at least 100 pcs. to ensure a large enough sample size. Click **“Submit”**. In **Ink Estimation Mode**, this feature estimates per page cost and job cost without printing job. With **Ink Estimation Mode** disabled, Printer still tracks estimated per page cost and estimated job cost as job is being printed. Once costs are entered, they will remain until changed again, even if Printer is turned OFF.

**NOTE: This is only an estimate and does not include other factors such as Printer maintenance routines, (printhead wiping and cleaning, power up/down, etc.) that may affect overall result.**

Printed Ink (µL)		Job	Pages Printed	Quality	Media Type	Media Size (mm)	Estimated Page Cost	Estimated Job Cost			
Cyan	Black 2	Yellow	Magenta	Black 1							
6	1	70	26	1	Thanksgiving cdr	2	Normal	Plain Paper	215 x 280	0.048	0.097
29	3	146	75	3	Thanksgiving cdr	20	Normal	Plain Paper	215 x 280	0.011	0.230

**Service Menus**

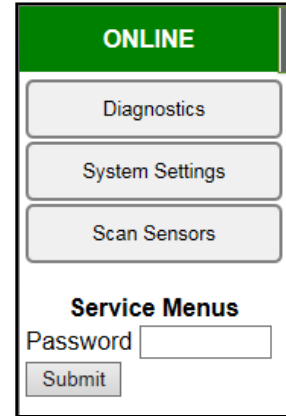
Selecting “View”, then “Service Menus” opens the **Service Menus** screen.

**Diagnostics** button. Click to check the status of the Printer.  
(See *Diagnostics* below.)

**System Settings** button. Click to view, enter or change settings to connect Printer to your network. Also set and configure Printer Date and Time.  
(See *System Settings*.)

**Scan Sensors** button. Provides status and a log on Sensors located throughout the Printer. (See *Scan Sensors*.)

**Service Menus, Password:** Entering the **Service Menu password** provides access to more advanced Printer control and maintenance menus. For authorized service personnel only. (See *Service Menus, Password*.)

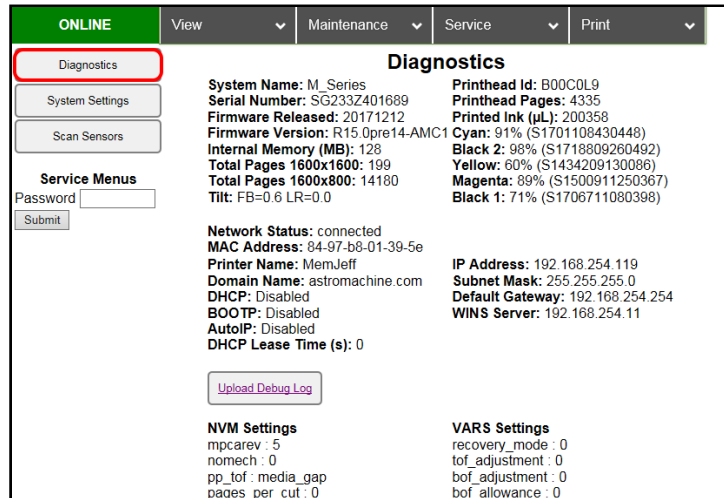


**Diagnostics**

From this screen you can see current status of the Printer. **You can also:**

**Upload Debug Log** – Download and save a log of the Printer status (for each Printer) to send to a technician to help diagnose a problem. Clicking this button creates a snapshot log showing everything going on with the Printer since powering up.  
(See *Sample Log* below.)

**NOTE:** If a problem arises, try to recreate the problem, then press **Upload Debug Log** without performing any other actions to make it easier for the technician to determine the problem. If this is not possible, include any actions you may have taken after the problem started.

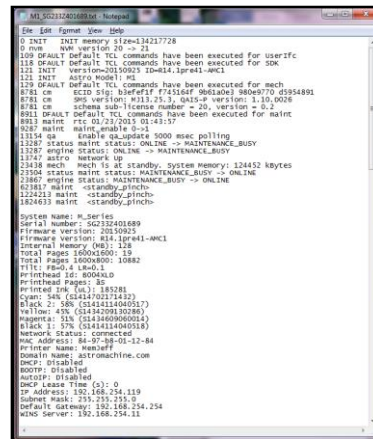


**Other information provided in the Diagnostics window:**

**Event Log** – Displays significant events occurring on the Printer (such as firmware updates, errors, power off, etc.) Useful for troubleshooting Printer problems.

**NVM Settings** – Displays Printer's current NVM (Non-Volatile Memory) settings. (Once settings are saved, they remain even when Printer is turned off, until they are manually changed.)

**VARS Settings** – Displays Printer's current VARS (Variable) settings. (Settings that are set for a particular job that automatically revert to the default settings when the Printer is turned off or rebooted.)



## System Settings

Set up a network connection for the Printer. Also set and configure Printer Date and Time.

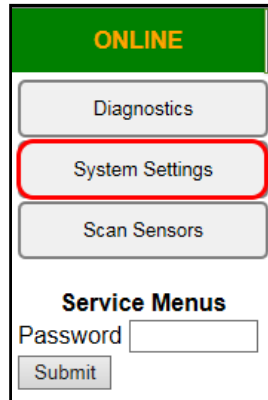
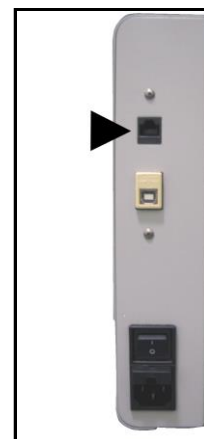
**Network Settings** – Permits you to view, enter or change settings to connect Printer to your network.

### Network Connection Set Up:

1. Printer is still connected to computer via USB cable. **To connect Printer to a network, open the Toolbox.** Select “View”, then select “Service Menus”. Click or tap “System Settings”.
2. “System Settings” screen opens. Use **Network Settings** to enter correct settings for your network.

**NOTE:** If manually changing the **ip\_address**, make sure the “**dhcp**” and “**autoip**” boxes are **unchecked**. (*Default is checked.*) Enter changes in the appropriate boxes.

3. Click “Submit”.
4. Connect Ethernet cable to Network Port on Rear Panel of Printer.

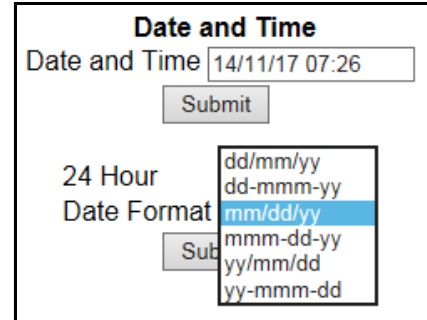
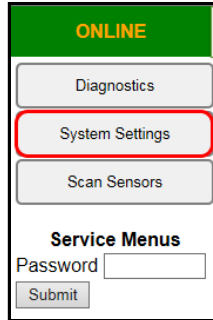
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**Date and Time** – Enter or change the way the date and time will appear in the Printer Status section of the **Toolbox** screens.

### Enter or change Date and Time:

1. Select “**View**”, then select “**Service Menus**”. Click or tap “**System Settings**”.
2. “**System Settings**” screen opens. Use **Date and Time options** to enter, edit and configure the Date and Time for the Printer.
3. Click “**Submit**”.





## Scan Sensors

Provides status and log on Sensors located throughout both Printers.

(See chart at right.)

Click “**Stop**” button to stop scanning or click out of “**Scan Sensors**”.

ONLINE									
View Maintenance Service Print									
Diagnostics Stop									
System Settings									
Scan Sensors									
Service Menus									
Password <input type="text"/>									
Submit									
#	1	2	3	4	5	6	7	8	9
Entry Sensor	255	255	255	255	255	255	255	255	255
Blackmark Sensor	215	221	215	217	215	216	216	216	216
Exit Sensor	0	0	0	0	0	0	0	0	0
Clamshell Switch	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
Printhead Latch	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
Lifter Arm	1	1	1	1	1	1	1	1	1
Sled Index	0	0	0	0	0	0	0	0	0
Sled Home	0	0	0	0	0	0	0	0	0
Valve Position	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed

SENSOR	DESCRIPTION
<b>Entry Sensor (Paper Path Entry)</b>	Interrupted ( <i>media present</i> ) = 0-60 Uninterrupted ( <i>no media</i> ) = 255
<b>Blackmark Sensor</b>	<b>NOTE: Not applicable for this model.</b> Blackmark Sensor's output is for printers designed to run a "continuous" web of media ( <i>i.e. labels</i> ).
<b>Exit Sensor (Paper Path Exit)</b>	Uninterrupted = 0 Interrupted ( <i>blocked</i> ) = 1 <b>Tip:</b> If media has dark colors on underside, you may experience "paper jam" conditions when there is no physical media in machine. If Exit Sensor appears to be operating normally, select " <b>Ignore Exit Sensor</b> " then click " <b>Submit</b> " in <b>User Interface</b> screen to bypass Exit Sensor.
<b>Clamshell Switch</b>	Clamshell Open = 1 Clamshell Closed = 0
<b>Printhead Latch</b>	Closed = 0 Open = 1
<b>Lifter Arm</b>	Up = 1 Down = 0
<b>Sled Index</b>	Cap Position = 0 Print/Wipe Positions = 1
<b>Sled Home</b>	False = 0 True = 1
<b>Valve Position</b>	<b>Displays operating positions of Dual Pinch Valve:</b> "OpenAir," "OpenInk," and "Closed". "Unknown" will display as Valve transitions between positions. <b>NOTE: If "Unknown" displays for more than a few seconds, it may indicate a problem.</b>

## Service Menus, Password

**For authorized service personnel only.** Provides password protected access to more advanced Printer control and maintenance menus.

**ONLINE**

Diagnostics

System Settings

Scan Sensors

**Service Menus**

Password

Submit

### Maintenance Drop-Down

Perform maintenance tasks.

**Circulate Ink** – Purges air from lines and primes system after replacing Ink Tanks or Printhead Cartridge.

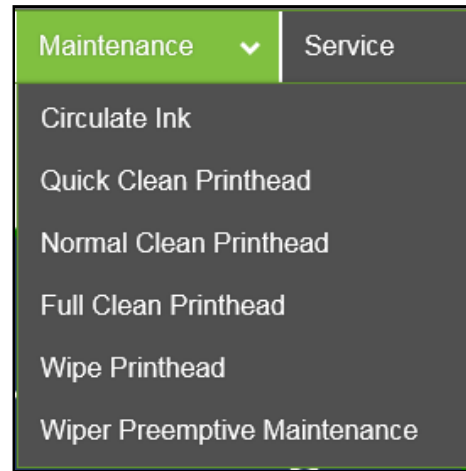
**Quick Clean Printhead** – Circulates ink; wipes and cleans Printhead Cartridge. *(Also available in the System Status window.)*

**Normal Clean Printhead** – Runs cleaning and wiping routine twice for better flushing and cleaning.

**Full Clean Printhead** – Runs cleaning routine multiple times for the most thorough flushing and cleaning.

**Wipe Printhead** – Activates Service Station to wipe Printhead.

**Wiper Preemptive Maintenance** – Resaturates Wiper with ink to remove dried residue if Printer is inactive for long periods of time.



### Service Drop-Down

Control functions that require the Printer to be out of service for extended periods of time while they are being performed.

**Replace Ink Tanks** – Disconnects Printer communication with Ink Tank Sensor. Allows safe removal of Ink Tanks.

**Refresh Ink Levels** – Updates or confirms ink levels *(shown at left of screen.)*

**Eject Service Station** – Releases Service Station for removal for cleaning, repair or replacement.

**Install Service Station** – Pulls Service Station back into place after cleaning, repair or replacement.

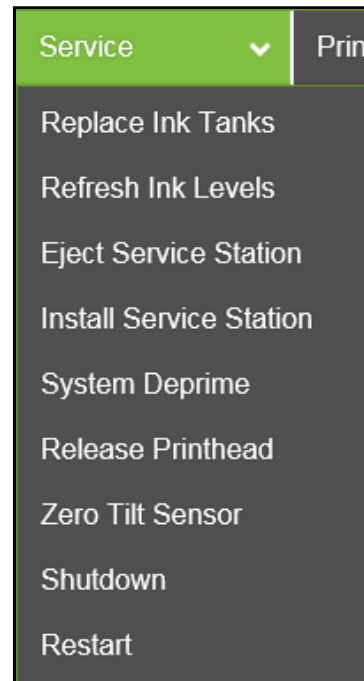
**System Deprieme** – Pumps ink back into Ink Tanks prior to replacing the Printhead Cartridge or transporting the Printer.

**Release Printhead** – Pumps ink back into Ink Tanks and opens Printhead Latch to remove or install Printhead Cartridge. **NOTE: Function can also be performed by pressing Printhead Release button on Print Engine.**

**Zero Tilt Sensor** – Allows you to reset the Tilt Sensor if the Printer is level within tolerances *(Tilt Level is 1.99 or less.)*

**Shutdown** – Turns specified Printer OFF. For best system performance, it is recommended to keep Print Engine powered-up *(ON/OFF light illuminated)* at all times. If turning Printer off, first power-down Print Engine using “**Shutdown**” button in **Toolbox** or ON/OFF button on Control Panel. Wait until all Control Panel buttons go out before turning off Main Power Switch.

**Restart** – Restarts the specified Printer without having to perform the startup routine *(purging ink tanks, priming, etc.)*



## Print Drop-Down

Print various reports and Printer tests.

**Each printout displays information about the Printer.**

**Print Setup** – Prints a printing pattern used for positioning image on the page.

**Print Configuration** – Prints current Printer configuration including Firmware Version, Network Connection, Printer Serial Number and more for the Printer.

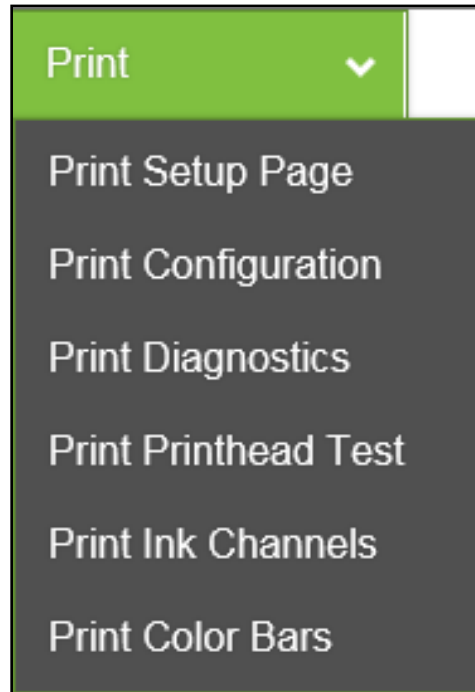
**Print Diagnostics** – Prints basic Printer information, memory, Network Settings, Event Log and RAM partitions.

**Print Printhead Test** – Prints color bands, text and patterns to check condition of Printhead's ink nozzles.

**NOTE: Uses less ink than Print Ink Channels or Print Color Bars.**

**Print Ink Channels** – Prints 5 bars per Printer (*1 bar from each ink tank*) to indicate how well Printhead Nozzles are working. **NOTE: Function can also be accessed by pressing “Print Ink Channels” button on right side of Print Engine.**

**Print Color Bars** – Prints a series of 7 color bars (*per Printhead*) to indicate how well Printheads are mixing colors and printing.



## Updating Firmware

Get latest version of firmware for your Printer.

**NOTE: Use this procedure to update firmware AFTER you have updated Printer Driver.**

**Printer Driver update procedure is included with an “Update Package” which includes both updated Printer Drivers and firmware updates.**

### How to download new firmware:

1. When you are notified that new firmware is available for your Printer, download “\*.bin” file and save it to your desktop.
2. From **Start Menu**, open **All Programs**. Open “**Memjet**” folder, then “**M Series Driver**”. Click “**Update Firmware**”.
3. Click “**Browse**” button. Find and select file just saved to your desktop. Click “**Open**”.
4. When “**Update printer firmware**” window opens, select M-Series Printer you want to update. **NOTE: You can only update one Printer at a time.**
5. Click “**Update**”. **DO NOT touch Printer until firmware is loaded!** A message appears on screen warning you not to unplug or shut off Printer.
6. Once firmware finishes loading (*about 5-10 minutes*), Control Panel lights and Printer shuts OFF, then restarts automatically to complete installation.

