# Mercury Advanced User's Manual Volume 1





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# 1 Introduction

This manual provides press operators with information on using the more advanced features of Advanced Vision Technology's Mercury system for presses.

The manual is divided into two documents:

- Mercury Advanced User's Manual Volume 1
- Mercury Advanced User's Manual Volume 2

**Reference:** See the *Mercury Training & User's Guide* for detailed information on the basic features of the Mercury system.

#### **Typographical Conventions**

All Mercury system interactions are performed by touching either buttons or fields on the Mercury workstation monitor. You navigate between views to control all operations by touching buttons, fields, or touch-sensitive sections of views displayed on the monitor.

To make this manual easier to use, bold letters are used to show touch-control buttons or fields, such as **OK**, **Cancel**, **Run Inker**, or **Set Press**.

**Note:** Notes contain specific information. They may explain why a certain step should be performed. Sometimes they contain tips about a particular step in a process.

# WARNING: Warnings appear when you must follow specific instructions to avoid creating a problem.

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- Exit Mercury and Turn off Computer
- Service the Mercury System

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# 2 Starting, Stopping, & Servicing the Mercury System

This section describes how to power on the system components, exit Mercury and turn off the computer, and service the Mercury system.

# 2.1 Power On the Mercury System Components



# 2.2 Exit Mercury and Turn Off the Computer

- WARNING: Before turning off the Mercury system computer, you must close the Mercury application server and workstation applications.
- WARNING: Turning off the system computer while the applications are running may damage the system or form data.



**Closing the Mercury Workstation Application** 



#### **Exiting the Mercury Application Server**



#### Shutting Down the Mercury System Computer



# 2.3 Service the Mercury System



Customer Service can assist you if system components need to be replaced or exchanged for a loaner. Most AVT components contain no serviceable parts, as indicated by this label.

WARNING: Servo motors are permanently lubricated at the factory.

Do NOT oil servos, as this may cause the motors to stop working due to contamination. The servo will not run after this happens.

Do NOT clean servos with solvents. Solvents may contaminate the gear train resulting in permanently reduced torque. Servo communication errors also may occur until the servos and harness are dry.

Always replace servo covers as soon as possible. Otherwise, the servo warranty will be void.

**Reference:** See the *Mercury Service Manual* for more detailed information on servicing the Mercury system.

# 3 Configuring the System: Utilities

This section describes the Mercury system utilities.

- Delete Forms
- Convert Microcolor II form to Mercury form
- Change Current Color Order
- Change Standard Color Order
- Adjust Offset Calibration Values
- Configure CIP3 Paper Calibration Values
- Retract Servos
- Restore Servos
- Call TeamViewer
- Call ELO Setup
- Turn Bar Configuration
- Press Split Configuration
- Job Delete
- Configure Sweep and Water Ramps
- PLC Calibration
- SPU3 Ethernet Auto Configuration



You access the system utilities by touching the **System** button and then touching **System**.



The Configuration dialog displays with available utilities. You can touch any of the **Utilities** buttons to access the required utility.



The standard Mercury Configuration screen has ten utilities.



The following additional utilities are available if enabled on your system.



**Press Split Configuration** – Used in press configurations with multiple webs and tower mode.



**Turn Bar Configuration** – Used when running a unitized web with turn bar.



**Job Delete** – Used for press configurations when Job Management View is enabled.



**Sweep/Water Ramp Configuration** – Used when ink sweep and water ramping are enabled.



**PLC Calibration** – Used to troubleshoot and calibrate positioner feedback circuit of Sweep/Water controls.



**SPU3 Ethernet Auto Configuration** – Used to view and update device/application settings for SPU3 device.

### 3.1 Delete Forms



Touch the **Delete Form** button under Utilities and the **Select file from below location** screen displays.

KWT, Ren Dien	bde Some Bernaustin	Application Research U.S.
Form Storage radio buttons	t file from below location ander Forn Strage Network Forn Strage Removable Forn Strage	Next button
Form Storage radio buttons	Removable Form Storage	Next button

The steps for deleting a form depend on the storage option you used to store the form.

- For Standard Form Storage, continue with *Deleting Form from Standard Form Storage*.
- For Network Form Storage, continue with *Deleting Form from Network Form Storage*.
- For Removable Form Storage, continue with *Deleting Form from Removable Form Storage*.

**Reference:** See "Using Form View Screens" and "Searching for Folder & Form Names" in the *Mercury Training & User's Guide* for more information on deleting forms.

#### **Deleting Form from Standard Form Storage**





#### **Deleting Form from Network Form Storage**



#### Deleting Form from Removable Form Storage

# 3.2 Convert MC2 Job to MC3 Job



Touch the Convert MC2 job to MC3 job button under Utilities.

The Import From screen displays where you can search for a form on all available drives. Touch the **drive letter** you want to search from the **Import From** list. You can expand and collapse the folders as you would normally do in Windows.



The Import From screen displays the number of MC2 job files in a folder next to the folder name, between angle brackets. If a folder has more than 800 forms, use the following steps to filter and select the form to be imported.





Currently the import operation covers MC2 forms with file extensions of .J0L, .J0J, and .J0K. The numerical names of the MC2 forms are used to name the files of the imported forms.

To import all forms on a disk or folder at one time, click on the **Select All Forms** button. Using this button will highlight the entire contents of a single folder or drive.

#### Notes:

- The Select All Forms option will only work on <u>one folder</u> at a time and this folder should contain the older form files.
- To import MC2 job files from disk, you will need to use the USB floppy drive to copy MC2 job files from an MC2 data diskette to another USB drive on your laptop. Insert the USB drive into the Mercury system and click on the **Select All Forms** button to import the files on the USB drive to the folder you select.

Mercury supports conversion of most versions of MCII and MCI. You should convert forms from Microcolor II only if Mercury is replacing the Microcolor II.

# 3.3 Change the Current Color Order



Touch the **Current Color Order** button under Utilities and the Color Order View displays showing the Current Color Order of the currently selected form. (Depending on the press configuration, there may be more than one form that can be changed.)



In this figure, current color order is Black, Cyan, Magenta, Yellow, and Special 1.

The following steps describe how to change the current color order to Cyan, Black, Magenta, Yellow, and Special 1.





# 3.4 Change the Standard Color Order



Touch the **Standard Color Order** button under Utilities and the Color Order View displays showing the Standard Color Order.



Use the same basic steps, as those for changing the current color order, to change the standard color order.

Note: Standard Color Order is the default color order of any new from.

# 3.5 Adjust Offset Calibration Values

Offset calibration controls how tightly the servos close when the fountain has a minimum ink film. The offset is the <u>difference between the servo's zero position</u> <u>controlled from the console</u> (electronic or console zero) and <u>the tightest zero</u> <u>mechanically possible for the servo</u> (mechanical zero).

Offsets are important with metering rollers, which require a thicker ink film for transfer to the metering roller. The offsets are stored on the system disk and put into computer memory when the computer is turned on.

You can use offsets to calibrate the press fountains to achieve the following results:

- Ink coverage on fountains matches the Mercury console zone settings.
- An even zone setting gives nearly the same ink film thickness on all press fountains.
- The ink film can be set thin enough to run light coverage work.
- Offsets can compensate for minor blade wear.

Most systems include adjustable inserts or the keys can be adjusted without loosening the key tops. For these systems it is usually easier to reset the fountain without using offset calibration.



Touch the **Offset Calibration** button under Utilities and the Offset Calibration screen displays where you can zero offsets and set new offsets.



#### Zeroing the Offsets

To zero the offsets, touch the Zero Offsets radio button and then touch



#### **Calibrating Console Values**

Set all of the console values to **10** and then touch the **Run Inker** button.



#### **Mechanically Calibrating the Press**

1	When the ink film is even across the press, measure it with an ink film thickness gauge.
2	On the Offset Calibration screen, use the individual zone buttons to adjust the fountain so that the ink film thickness measures about 1/2 mil (0.0005") across the fountain.
3	Touch the <b>Run Inker</b> button to make all the adjustments.

#### **Setting New Offsets**



# 3.6 Configure CIP3 Paper Scan Calibration Values



Touch the CIP3 Paper Scan Calibration button under Utilities.

The CIP3 Paper Scan Calibration screen displays where you can create a new paper type, modify a paper type, or delete a paper type.

CIP3 Paper Scan Calibration	
Default paper type	
pe	New Paper Modify Paper Delete Paper Reset Paper
	Paper Type buttons
	CIP3 Paper Scan Calibration Default paper type pe

- To create a new paper type, continue with *Creating a Paper Type*.
- To modify an existing paper type, continue with *Modifying a Paper Type*.
- To delete an existing paper type, continue with *Deleting a Paper Type*.
- To reset an existing paper type, continue with *Resetting a Paper Type*.
- For an explanation of the default paper type data values, see *Explaining the Default Paper Type Data Values*.

#### **Creating a Paper Type**







#### Explaining the Default Paper Type Data Values

There are five CIP3 default paper type data values.

Gloss-Coated Wood Free - ISO Type1	(0,0,0,0,0,0,0,0,5,8,10,12,15,20,20,15,10)
Matte-Coated Wood Free - ISO Type2	(0,0,0,0,0,0,0,0,0,5,7,14,16,18,24,24,14,5)
Gloss-Coated - ISO Type3	(0,0,0,0,0,0,0,0,0,5,8,10,12,15,20,20,15,10)
Premium Groundwood - ISO Type4	(0,0,0,0,0,0,0,0,0,5,7,14,16,18,24,24,14,5)
Newsprint - ISO Type5	(0,0,0,0,0,0,0,0,0,8,10,15,17,20,25,25,15,5)

#### Modifying a Paper Type



**Reference:** See "Save Current Ink Profiles with Color OK" in the *Mercury Training* and User's Guide and "Using CIP3 Presets" in the *Mercury Advanced* User's Manual – Volume 2 document for more detailed information on using Color OK.

# Deleting a Paper Type

1	Touch the <b>Delete Paper</b> button on CIP3 Paper Scan Calibration screen.
	Paper Type
	Do you want to delete the paper type: Paper 1?
2	Touch we to confirm the paper type to be deleted.
	Note: You cannot delete the Default paper type.

# Resetting a Paper Type

1	Touch the <b>Reset Paper</b> button on the CIP3 Paper Scan Calibration screen.
	Raper Type
	Do you must to reast the paper type: Default paper type 7
2	Touch to confirm reset all of the data in the paper type back to default values for all of the fountains of the press.

### 3.7 Retract Servos



Touch the Retract Servos button under Utilities.



When the Retract Servos for Inkers confirmation dialog box displays, touch to retract the servos.

Note: The status of all servos that were retracted on a fountain display as (servo retracted icon) on the Status View.

# 3.8 Restore Servos



Touch the **Restore Servos** button under Utilities to return RETRACTED servos positions to original profiles.



When the Restore Servos for Inkers confirmation dialog box displays, touch **w** to restore the servos.
### 3.9 Use TeamViewer for Remote Control

TeamViewer is a simple and fast solution for remote control, desktop sharing, and file transfer that works behind any firewall and NAT proxy. This allows AVT to take remote control of any stand-alone Mercury system.



Touch the Call TeamViewer button under Utilities.



TeamViewer can be set up to always be running in the background, so AVT has access when needed.

Note: Click on Help from the TeamViewer window for more detailed information.

### 3.10 Set Up ELO



Touch the Call ELO Setup button under Utilities.

A succession of four screens will display for you to calibrate the ELO touch system for a specific monitor.

Touch the **target boxes** (<sup>111</sup>) to progress to the next screen.





On the calibration checking verification screen (screen #4), check that the cursor follows your finger when you touch and drag it on the screen.

Click where the the ELO touch system is calibrated correctly.

### 3.11 Activate Turn Bars

**Note:** This feature is only available if you are running a unitized web with turn bar.

![](_page_39_Picture_2.jpeg)

Touch the **Turn Bar Configuration** button under Utilities.

Touch one of the available **turn bars** to activate the turn bar and then touch **w** to save the turn bar selection.

![](_page_39_Picture_5.jpeg)

**Reference:** See *Using Single-Sided Web Press with Turn Bars* for a more detailed discussion of turn bars.

#### 3.12 **Delete Jobs**

Note: This utility is only available if the Job Management view is enabled.

![](_page_40_Picture_2.jpeg)

Note: Jobs are placed in the Delete Job(s) list when they are removed from the job queue on the Job Management View.

Reference: See "Using Job Management View" in the Advanced User's Manual -Volume 2 document for detailed information.

### 3.13 Activate Press Split

**Note:** This utility is only available if you are using a multiple web press.

![](_page_41_Picture_2.jpeg)

Touch an available press split air bar to activate the air bar and then touch to save the press split selection.

![](_page_42_Picture_0.jpeg)

**Reference:** See *Using Multiple Web Press* for more detailed information on multiple web presses.

### 3.14 Configure Sweep and Water Ramping

**Note:** This utility is only available if your system has been configured for sweep and water ramping.

![](_page_43_Picture_2.jpeg)

Touch the Sweep/Water Ramp Configuration button under Utilities.

The Ramps View screen displays with a ramp graph that depicts dampener output (%) based on speed (FPM, IPH, or MPM). You can make adjustments for each step point on the ramp graph. Changes to any given speed range will increase or decrease the percentage output from the console sweep or water settings on the main view.

![](_page_43_Figure_5.jpeg)

1	Touch (Sweep Ramps button) or (Water Ramps button) to indicate if you are configuring sweep or water ramps.
2	To adjust output on the curve for any of the step points, touch or <b>(step point adjust</b> buttons) under each step point you want to adjust.
3	Touch with the changes to the sweep or water ramps.

**Reference:** See "Using Ink Sweep and Water Ramping" in the *Mercury Advanced User's Manual – Volume 2* document for more detailed information on sweep and water ramping.

### 3.15 Calibrate Positioner Diagnostics for AVT PLC Sweep/Water Controls

**Note:** This feature is only available when AVT PLC is online and connected to the Mercury application server.

![](_page_44_Picture_2.jpeg)

Touch the **PLC Calibration** button under Utilities.

The AVT PLC Calibration Tool dialog displays for you to troubleshoot and calibrate the positioner feedback circuit of Sweep and Water controls.

![](_page_44_Figure_5.jpeg)

### 3.16 Configure Ethernet Based SPU3 Device

**Note:** This feature is only available when at least one SPU3 is configured in the system XML file. An SPU with a valid IP address is considered an SPU3 device, regardless of its communication type defined in the system XML file.

![](_page_45_Picture_2.jpeg)

Touch the SPU3 Ethernet Auto Configuration Tool button under Utilities.

The SPU3 Ethernet Auto Configuration Tool dialog displays for you to view and update device and application configuration settings for an SPU3 device.

The following example shows some of the user interface elements of the SPU3 Ethernet Auto Configuration Tool and illustrates the "No Devices Found" view when no SPU3 devices are found on the Network (LAN).

![](_page_45_Figure_6.jpeg)

![](_page_46_Figure_0.jpeg)

#### Update SPU3 Device and Application Configuration Settings

After loading the system XML file, selecting any IP address in the drop-down list will display a number of useful attributes of that SPU3 assigned to that address. This information appears in the window to right of the drop-down list. The SPU3 name and name of each inker attached to the port number of that SPU3 will be listed. This information will be helpful to identify the specific SPU3 which is being configured or is missing. Apply 3 Touch L (Apply button) after making any required changes to the device and application settings. \_\_ 🗆 📈 🕂 SPU3 Ethernet Auto Configuration Tool Please wait... Applying new settings to the SPU3 Device @ IP Address = 172.31.1.58 C Select a Mercury System XML File All Devices C:\GMI\MC3\SYSTEM\MC1234.xml 🖆 🕢 Load 172.31.1.57 [00-03-F4-05-6 172.31.1.51 [00-90-FB-01-0 172.31.1.56 [00-03-F4-08-4 (U) Reboot 4 Touch (Reboot button), to reboot an SPU3 device. - 0 🕂 SPU3 Ethernet Auto Configuration Tool Reboot device message sent to the SPU3 Device @ IP Address = 172.31.1.57 SPU3 Devices Mercury C Select a Mercury System XML File All Devices C:\GMI\MC3\SYSTEM\MC1234.xml 🖆 🕢 Load 172.31.1.57 [00-03-F4-05-6 172.31.1.58 [00-90-FB-01-0 172.31.1.56 [00-03-F4-08-4 5 Touch (Blink LEDs button), to start/stop the blinking of activity / overcurrent LEDs of an SPU3 device. SPU3 Ethernet Auto Configuration Tool Stop blinking LEDs message sent to the SPU3 Device @ IP Address = 172.31.1.57 SPUS Devices Mercury C Select a Mercury System XML File All Devices C:\GMI\MC3\SYSTEM\MC1234.xml 🖆 🕢 Load 172.31.1.57 [00-03-F4-05-6 172.31.1.58 [00-90-FB-01-0 172.31.1.56 [00-03-F4-08-4 The blinking LEDs will help indicate the physical location of the specific SPU3 assigned to the selected IP address.

### Generate Reports and Create History Files for all SPU3 Devices

Creating a history file in Mercury will help to keep track of previous changes and IP address assignments in the past. This tool will reference this history file and help the user to make proper decisions on IP address assignments.

	SPU3 Ethernet Auto Configuration	Teol					
	SPUS Devices 💌	Mercury					
	8	Select a Mercury Syst	en XML File				
Refresh	172.31.1.57 [00-03-F4-05-6 172.31.1.58 [00-90-FB-01-0	С-КМГИКЗКУЗТЕН	(WC1254.xmi			) ۲	ec.l
button	172.31.1.56 (00-03-F4-08-4	MAC Address	SPUS IP Ad	Subnet Mask	FW Version	COMM Type	Port Orient
		00-03-#+05-66-27 00-03-#+08-45-40 00-90-#8-01-02-4+	172.31.1.57 172.31.1.56 172.31.1.58	255.255.0.0 255.255.0.0 255.255.0.0	0.0 0.0 1.3	Serial Serial Ethernet	Left To Rig Left To Rig Left To Rig
		91	n	r		/	
		Select Report Folde	r Path	4411		1	
		C:UsersQA.0C05	freekipp freven	nd .			Report
							Hatory
		Log SPU3 Ethernet Auto C Version = 1.0 Build D Querying the Network History File does NOT	onfiguration To late = May 09, 2 k for SPUS Devic exists at C^Use	ooi Startup, Con 018, 09:18:47 04L., rrs/QA-DCOS\De	nmand line - esktop\Dev6u	lld SPU3Ethen	• netIPConfig. •
	<u>()</u>	H + + H Messag	pes/				_

2	Touch (Browse for Folder button), specify the location where you want to save the Report files, and click <b>OK</b> .
	Browse for Folder
	The report file path you specified displays under <b>Select Report Folder Path</b> .
3	Touch (Report button), to generate a Report file.
	A message box will display to notify you of the report file path and file name.
4	Touch (History button), to create a History file.
	Select Report Folder Path C:\Users\QA-DCOS\Desktop\DevBuild Report Report
	E History
	A message box will display to notify you of the history file path and file name.

# 4 Configuring the System: Diagnostics

This section describes the Mercury system diagnostics.

- Servo Test
- SPU Test
- Servo Test and Auto Test Results
- Auto Test
- Sweep Test
- SPU Configuration Display

![](_page_50_Picture_8.jpeg)

You access the system diagnostics by touching the **System** button and then touching **System**.

			System button		
Mercury Status View	Form: RS01120567107; 2010 11 12 - 00 46 28		App Cos	plication Server Status mocted OK.	8
	) 🖬 · B 3: X: 🛇 🔒 🏥 🛴	<b>b</b> ·)	6	111 Ja 2. 0	-
		System			
Upper 1 Back	Ирож 2 Сумп	About	Upser 4 Yellow	Upper Stancial 1	

The Configuration dialog displays with the available diagnostics.

![](_page_50_Figure_12.jpeg)

There are six diagnostics on the Mercury Configuration screen.

![](_page_51_Figure_1.jpeg)

Touch any of the **Diagnostics** buttons to access the diagnostic tools.

## 4.1 Perform a Servo Test (Test One / Test All / Auto Retry)

![](_page_51_Picture_4.jpeg)

Touch the Servo button under Diagnostics.

The Servo Test screen displays where you can either test one servo or test all the servos.

![](_page_51_Figure_7.jpeg)

Note: The #1 servo is always closest to the plug the servo wiring harness plugs into.

### **Testing One Servo**

Touch a servo and then touch the Test One Servo button.

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			(). Move is P	ndernak Site Si Po	nt De SPU	5401 1			)	э.		0											

In this example **servo 20** is selected and you can see the **zone status icon** displayed in green for the servo and on the **Test One Servo** button.

![](_page_52_Figure_4.jpeg)

When complete, the results of the test display on the screen.

### **Testing All Servos**

Touch the Test All Servos button.

![](_page_53_Figure_2.jpeg)

You will see the **zone status icon** displayed for all the servos and on the **Test All Servos** button.

![](_page_53_Figure_4.jpeg)

When complete, the results of the test display on the screen.

If the Servo test fails, error icons display on the screen. Click is to end the test.

![](_page_54_Figure_1.jpeg)

**Note:** Touch (Help button) to access the Mercury Service Manual and go directly to the section of the manual for the Servo test.

#### Auto Retrying Servo Test

If the servos do not pass the **Servo Test > Test All the Servos** for an inker and the individual servo(s) causing the problem cannot be identified, Mercury enters the Auto Retry mode to isolate the bad servo(s).

When Test All Servos cannot determine the status of each servo, Auto Retry can help you find the bad servo(s) on a servo rail for the following special cases:

- There is a short circuit in the servo or cable.
- The bad servo is interfering with servo communication.
- The first servo is disconnected.
- No rail is connected to an inker port.

![](_page_55_Figure_0.jpeg)

3	When status shows Inker <b>Status: Failed</b> , let Auto Retry continue running and disconnect the servos one by one. Start with the servo farthest away from the servo harness connector.
	Notes:
	<ul> <li>If connectors are removed from all but the first servo and it still does not run, replace it.</li> </ul>
	<ul> <li>If display indicates Inker Status: Passed, the first servo was the problem. If not, either cable going to SPU or the SPU itself is faulty.</li> </ul>
	<ul> <li>An inker failure will always occur if no servos are connected.</li> </ul>
	<ul> <li>When the connector of the problem servo is removed, the first servo on the fountain will start to run.</li> </ul>
	<ul> <li>Replace the bad servo and plug in all the connectors that had to be removed.</li> </ul>
4	To stop Auto Retry, press the <b>see</b> button.
	<b>NOTE:</b> The Auto Retry operation will continue to run forever until you stop it.
5	After stopping the Auto Retry operation, the <b>Test All Servos</b> button becomes
	enabled for you to test the inker(s) again.
	Touch the <b>Test All Servos</b> button to test the inker again.
	O. Move In Progress 🧹 Servo Ok 🛕 Error 🧃 Unknown Error 7 Servo Init Failed
	Information Information Provide Research Auto Resta County 18
	Inker Information.
	SDU SDU
	SPU SPU1 Port On SPU 3
	In the following example, the status after Test All Servos is done shows a servo at position #4 disconnected from a rail. The status for the first three servos is OK, but there is a COMM error starting from servo position #4.
	SPU       SPU1         Port On SPU       3         Image: Construction of the status after Test All Servos is done shows a servo at position #4 disconnected from a rail. The status for the first three servos is OK, but there is a COMM error starting from servo position #4.
	SPU       SPU1         Port On SPU       3         In the following example, the status after Test All Servos is done shows a servo at position #4 disconnected from a rail. The status for the first three servos is OK, but there is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a COMM error starting from servo position #4.         Image: Comparison of the first three is a Comparison of the first the three is a Comparison of the first the the the the the the the t

### 4.2 Perform an SPU Test

![](_page_57_Picture_1.jpeg)

Touch one or more of the **SPU status boxes** and then touch the **Test SPU(s)** button. When the test completes, the results display showing Run, Failed, and Pass.

![](_page_57_Picture_3.jpeg)

Note: Touch (Help button) to access the *Mercury Service Manual* and go directly to the section of the manual for the SPU test.

### 4.3 View Available Auto Test and Servo Test Results

![](_page_58_Picture_1.jpeg)

Touch the **History** button under Diagnostics.

The Servo Test Results Available screen displays with a list of available test results.

![](_page_58_Picture_4.jpeg)

**NOTE:** The displayed list will include both Servo and Auto test results.

![](_page_58_Figure_6.jpeg)

![](_page_59_Figure_0.jpeg)

![](_page_60_Figure_0.jpeg)

### 4.4 Perform an Auto Test

![](_page_60_Picture_2.jpeg)

Touch the **Auto** button under Diagnostics.

<b>∧</b> ∨7	Mercur Auto Te	y #	tom:									31	kation Server ected OK	status:	0
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		.11	9	_		1.0	_	. II	1			3	_		1
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. 11		0		_			-	-0		_	8		-		1
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		- C. More b	Progesta Informadara Informadara SIPU Port C	Sens OK	A Ene		3 may (	F heren bed	••		Auto Setti butt	Test ngs con			

![](_page_61_Figure_0.jpeg)

![](_page_62_Figure_0.jpeg)

**Note:** Touch [12] (**Help** button) to access the *Mercury Service Manual* and go directly to the section of the manual for the Auto test.

### Identifying Failed Inker(s) During Auto Test

If errors are detected with one or more inkers during Auto Test, the application server stops the test and displays an error dialog.

	Auto Test Errors
	Auto Test was stopped due to the error occurred on the following Inker(s):
Upper	1

This lets you know why the test stopped and identifies which inker(s) are having issues before finishing the full Auto Test.

### 4.5 Perform a Sweep Test

![](_page_63_Picture_1.jpeg)

Touch the **Sweep** button under Diagnostics.

![](_page_63_Figure_3.jpeg)

![](_page_63_Figure_4.jpeg)

![](_page_64_Figure_0.jpeg)

![](_page_65_Picture_0.jpeg)

**Note:** Touch (Help button) to access the Service Manual and go directly to the section of the manual for the Sweep test.

### 4.6 View SPU Configuration

![](_page_65_Picture_3.jpeg)

Touch the SPU Configuration Display button under Diagnostics.

For SPU2 devices, the display will show what serial communication port is attached to each SPU.

		ski	Caerfigue ature (	oniowy [-]				
SPU1 SPU2 COMIN COMIT	SPUB SPU	A SPUS	SPUC: comis	SPU7 COMIN	SPU8	SPUS COMIN	SPLI10	SPU11

For SPU3 devices, you can control the SPU display to access the HTML page of the SPU3 device. Clicking on the SPU3 controls will bring up the default HTML browser, where you can see the HTML pages of that SPU device.

Home   Servo Lest Home   Servo Lest Diamostic Data   Error J	() - C () + Leideant • ) - PCS S Termite Web () 90 #3 () 90 #3 1 Rail Test   Anti-Jam   Log   Config   UTTP:Request	P 4	. 1
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Home   Servo Test Home   Servo Test Diannostic Data   Error	r = C (C+ information   □ PCS ∰ formatic Web □ 9011 □ 9012   Rail Lest   Anti-Jam   Len   Config   HITP.Request	P 4	
Home   Servo Test Home   Servo Test Diagnostic Data   Error J	er 🗍 PCS 🖉 Fernete Web 🗍 90 01 🗍 90 02   Roil Lest   Anti-Jam   Leg   Config   HETP Request		
Home I Servo Test Diagnostic Data I Error I	Bail Lest   Anti-Jam   Log   Config   HTTP Request		
17	SPU3		
V / •	Web Page Controller		
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wer up: 12984	rl:12861 - unit 4 - Get Unit Status		
216 - 14 19 51 - Ver 0.99	- 11 12882 - unit 4 - Fast_Fill_Unit_All_Move		
103 14 05 66 212	tl 12886 - unit 4 - Get Unit Status tl 12888 - unit 4 - Get Servis Fire Status Unit		
ing Received: 314	11.12902 - unit 2 - Fast Fill Unit All_Move		
	II: 12916 - unit 2 - Get_Unit_Status II: 12917 - unit 2 - Get_Servo_Err_Status_Unit II: 12918 - unit 2 - Fast_Fill_Unit_All_Move		
	wer up: 12964 010 - 14 19 51 - Var 0.99 100 F4 05 66 212 131.57 Ing Received: 314	Non- transform         Control of the second state           Marco State         112233 - uset 4 - Oet, Serve, Err, States, Uset (112833 - uset 4 - Oet, Serve, Err, States, Uset (112833 - uset 4 - Oet, Serve, Err, States, Uset (112833 - uset 4 - Oet, Serve, Err, States, Uset (112833 - uset 4 - Oet, Serve, Err, States, Uset (11283 - uset 4 - Oet, Serve, Err, States, Uset (11283 - uset 4 - Oet, Serve, Err, States, Uset (11283 - uset 4 - Oet, Serve, Err, States, Uset (11283 - uset 4 - Oet, Serve, Err, States, Uset (11283 - uset 4 - Oet, Serve, Err, States, Uset (11283 - uset 4 - Oet, Serve, Err, States, Uset (11283 - uset 4 - Oet, Serve, Err, States, Uset (11284 - uset 4 - Oet, Serve, Err, States, Uset (11284 - uset 4 - Oet, Serve, Err, States, Uset (11284 - uset 4 - Oet, Uset 3 - Oet, Oet, 3 - Oet, Oet, 3 - Oet, S - Oet, S - Oet, S - Oet, S - Oet, 3 -	Norma         Image: Serve S

**Note:** To see the HTML page, the SPU3 selection must contain a valid IP address and Ethernet cable connecting SPU3 to the Mercury network

Click on the SPU Configuration Display screen to return to the Mercury Configuration screen.

# 5 Configuring the System: Settings

This section describes the Mercury system settings. There is one settings button on the Mercury Configuration screen.

**Note:** If you are running multiple Mercury workstation applications, you will need to change the runtime options for each workstation.

![](_page_67_Picture_3.jpeg)

You access the system settings by touching the **System** button and then touching **System.** 

![](_page_67_Figure_5.jpeg)

The Configuration dialog displays with the available diagnostics.

![](_page_67_Figure_7.jpeg)

![](_page_67_Picture_8.jpeg)

Touch the **Runtime Options** button under **Settings** and the Runtime Options dialog displays where you can specify display options, CIP3 presetting options, controls, and form options.

#### **Display Options**

The **Display** options are default options that display on the Runtime Options dialog.

![](_page_68_Picture_2.jpeg)

- 1. Touch the **Show Tap area** checkbox to enable the tap zone area on Status View thumbnails.
- 2. Touch **Show scroll buttons** checkbox to enable scroll zone buttons on the Status View.
- 3. Touch the **Tap to adjust zone console values** to enable the tap function.
- 4. Touch in **Number of display zones** field and enter number of ink zones you want to display on the Status View.
- 5. Touch **Language** drop-down button to select a language other than English from the list of available languages.
- 6. Touch to save the **Display** runtime options.

#### **CIP3 Presetting Options**

![](_page_69_Picture_1.jpeg)

- 1. Touch the **CIP3 Presetting** tab on the Runtime Options dialog.
- If the preset file contains one side, touch the appropriate radio button to indicate how you want presets assigned.

The default is **Automatically Apply Presets to Surface**.

 If the preset file contains two sides, touch the appropriate radio button to indicate how you want presets assigned.

The default is **Use Upper Presets.** 

4. Touch to save the CIP3 Presetting runtime options.

#### Controls

Runtime Options
Display CIP3 Presetting Controls Form Options
Enable Auto Zero
Blade Smoothing Tolerance
30% Continuous Blade
On Screen Keyboard:
Cramble "RUN" Euton Requirement

- 1. Touch the **Controls** tab on the Runtime Options dialog.
- 2. If installed, touch **Enable Auto Zero** checkbox to temporarily disable the auto zero feature.

When installed, Auto Zero will normally be enabled. If grayed out, Auto Zero is not available.

3. Click on the drop-down box under **Blade Smoothing Tolerance** to specify tolerance percentage you want to use for blade smoothing.

![](_page_70_Picture_6.jpeg)

Default is Continuous Blade.

- 4. Touch Use Virtual On Screen Keyboard checkbox under On Screen Keyboard, to specify that as on screen keyboard.
- 5. If installed, touch the **Disable** "RUN" Button Requirement checkbox, to disable Run button.
- 6. Touch to save the **Controls** runtime options.

#### Notes:

- Auto Zero This feature must be installed by AVT and the appropriate hardware must be attached to the press controls
- Blade Smoothing Tolerance It is recommended that this feature be disabled for CLC (Clarios) systems.
- Virtual On-Screen Keyboard This feature is to display keypads, which allow users to input text in native language characters. It requires the Unicode version of the Mercury software.

#### **Form Options**

![](_page_71_Picture_1.jpeg)

- 1. Touch the **Form Options** tab on the Runtime Options dialog.
- 2. Touch one or more Form Storage Options checkboxes to specify your storage options (Standard, Network, and Removable).
- 3. Touch the Enable Form Auto Naming checkbox under Form Auto Naming to enable automatic naming of forms.
- 4. Touch the **Recall CIP3 Form as** regular Form checkbox under **Recall CIP3 Form**, to recall a CIP3 form as a regular form.

**Note:** Only applies to CIP3 forms created from Job Management View.

 Touch the Keep Zone Locks checkbox under Zone Lock
 Options, to specify that you want to keep zone locks.

**Note:** This option applies to forms stored and then recalled.

6. Touch to save the Form **Options** runtime options.
# 6 Creating and Using Custom Colors for Forms

This section describes how to create and use custom colors for forms.

You create custom ink colors from the Ink View. You access the Ink View from the Color Order View, when creating or modifying an ink, for either the Current Color Order or the Standard Color Order.





## 6.1 Create a New Custom Color









7-	Custom Colors	
	Special 3	2
	Black	-
	Cyan	New Jok
	Magenta	
	Yellow	Months link
	Special 1	
	Special 2	
	Special 3	Driete Inis
	Special 4	
	Special 5	
	Special 6	
	Special 7	
	Special 8	
	<b>E</b>	

# 6.2 Modify an Existing Custom Color





## 6.3 Delete a Custom Color

On the Custom Color screen, touch a **custom ink color** in the list and then touch the **Delete Ink** button.

AV7	ay r Colers Forms	Application Status Connected IN
	Custom Colors	
	Special 3	
	Black	
	Cyan	New Ink
	Magenta	
	Yellow	
	Special 1	
	Special 2	
	Special 3	Delete Init
	Special 4	)
	Special 5	
	Special 6	
	Special 7	
	Special 8	
	🔤 🔤	

In this example, we are deleting the color named Special 3.

The Custom Colors screen redisplays with the color deleted from the list.

Custom Colors	
custom colors	
Special 3	
Black	1
Cyan	C How Ink
Magenta	
Yellow	
Special 1	South low
Special 2	
Special 4	🕞 Delete Ink
Special 5	
Special 6	
Special 7	
Special 8	
Special 9	

# 7 Using Summary View

The Summary View shows the ink key profile in a thumbnail summary, along with the current sweep value, water value, and error status (if needed) for the inker. Whenever there is a change in the inker profiles, the Summary View is updated so it always presents the most recent status of all inkers.

- Displays inkers in a row per form. Each inker displays the zone profiles similar to how they are shown in the thumbnail view.
- Each inker panel includes a column of icons to represent the state of the inker. Inker state includes current sweep value, water value, and inker error status.
- View is draggable in both directions (horizontal and vertical).
- A sidebar panel allows zoom in and zoom out (zoom range is 50-500%).

**Note:** If CLC is enabled, the Summary View supports "key positions" display mode and "target/scan density" mode.

#### 7.1 Invoke Summary View

On the Mercury Status View, touch 🚍 to open the Summary View.



The Summary View displays with the status of all the inkers.



**Note:** The Summary View () / Status View () buttons are toggle buttons. Touching it from the Status View takes you to the Summary View; touching it from the Summary View takes you back to the Status View.

### 7.2 Use Summary View Features

Scrolling View Horizontally and Vertically

Mercury Summary View	Application Server States
	○ 艸 値: と:10 🔒
- Upper Form	199
	<u>ද</u> ින දූන

Use the **scroll feature** to drag thumbnails horizontally and vertically.

#### **Viewing Error Status**

The (red triangle icon with exclamation point) indicates that an operating error occurred on an inker.

	Mercury Summary View	Application Server Status Connected OK.	8
	<u> D•2 E•5 R•</u> S•19•18•5 %	0 ## jj. 2.	
	- RS01120567107		
Error_ icon		31 0 upper Vieles	100%
	+ Lower Form		Θ
	New year' test west had		
	HERELESSENTIA TO THE AVERAGE AVERA		

This error icon displays on the Summary View when any of the following errors occur:

- configuration error
- communication error
- one or more stalled servos are present
- zero error (unable to perform calibrated zero operation)
- inker rail initialization failed

#### **Expanding and Collapsing Forms**

The Summary View can display multiple forms in a single view. Each form displays in a separate row and by default every form is in the expanded state.

When expanded, the individual inker panels for each fountain will be displayed.



#### Zooming In and Zooming Out

You can use the Zoom buttons located to the right of the inker panels to control the Summary View display.



**Note:** The zoom range is 50-500%.

Following are a few examples using **Zoom In** to **150%** and **200%**.







Following are a few examples using **Zoom Out** to **75%** and **50%**.

#### Viewing Sweep and Water On-Press Values

When Sweep and Water controls are enabled, you can view the sweep and water icons and current on-press values for each inker.



# 8 Using Zone Locks

This section describes how to use zone locks to lock ink zones.

After adjusting ink zone values, you can lock the values using the Zone Lock button. You can lock and unlock all ink zones and selected ink zones for an ink fountain. Pressing the Zone Lock button without zones selected will invert the zone lock status on each of the fountain zones.

Note: Locked zones will not change the zone values.

The **Zone Lock** button is on the main toolbar, to the right of the Color OK button. Lock icons will display in the **Ink Zone Data Display** area on the Status View.



### 8.1 Review Zone Lock Status

The **zone lock status icons** display next to the status icons for the zones.

- The Zone Lock button on the main toolbar is always enabled.
- When you click on the Zone Lock button from the toolbar, all zones from the selected inker will be locked. If the zones are already locked, they will be unlocked.
- If you select both locked zones and unlocked zones, and then click on the Zone Lock button, the selected zones lock status will be reversed.
- Zone lock status should be synchronized on all the clients. When a zone is locked or unlocked, the status is updated on all of the clients.
- When a new form is created, all the zones are unlocked. When a form is ended, zone lock status for all zones is set to unlocked.
- When you recall a form, the zone lock status of the zones will be as they were when you saved the form.

## 8.2 Lock and Unlock Ink Zones

#### **No Zones Selected**

The Status View below shows the **unlocked zones** with no zones selected.



(Unlocked zones)

Clicking the **Zone Lock** button with no zones selected reverses the zone lock status.



(Locked zones)

#### **Zones Selected**

The Status View below shows the unlocked zones for selected zones.



(Unlocked zones)

Clicking the **Zone Lock** button reverses the zone lock status for the selected zones.



(Locked zones)

# 8.3 Use Adjust Ink Console Buttons with Zone Locks

When all zones are locked, the **Adjust Zone Console** buttons for all the zones and **Adjust All Zone Console** buttons will be disabled.



If you select some zones and click on the Zone Lock button, the **Adjust Zone Console** buttons of the selected zones will be disabled.



Adjust Zone Console buttons

If at least one zone is unlocked, the **Adjust Zone Console** button for that zone and the **Adjust All Zone Console** buttons will be enabled. The Adjust Zone Console buttons for all other zones will be disabled.



Enabled Adjust All Zone Console & Adjust All Zone x5 Console buttons

Notes:

- ➢ In <u>Closed Loop Control (CLC)</u>, no changes are allowed on locked zones.
- If the <u>Blade Smoothing</u> feature is enabled, no smoothing is done to locked zones. Smoothing will stop across a fountain profile where there is a locked zone. Zones that would have changed by blade smoothing will not be changed, not even unlocked zones on the other side of the locked zones.

### 8.4 Make Ink Zone Adjustments with Zone Locks

% Inc / Dec	When a user increments values using % Inc/Dec, the changes only apply to the unlocked zones. Locked zones are not affected.
Copy / Paste	When a user changes the zone values using Copy/Paste, the changes only apply to the unlocked zones.
Swap	When two inkers are swapped, the values, ink types, and zone lock status are swapped between the two inkers.

# 9 Using Single-Sided Web Press with Turn Bars

This section describes the optional, single-side web press with turn bar feature in Mercury.

**Note:** This feature is only available if your system was configured for turn bars during system installation.

#### 9.1 Overview of Web Presses with Turn Bars

Some single-sided web presses will have a turn bar to rotate the web after printing on one side. This allows the ink fountains before the turn bar to print on the bottom side of the web and the ink fountains after the turn bar to print on the top side.

**Note:** Before the turn bar is the "bottom" surface and after the turn bar is the "top" surface".

These web presses will often have turn bars between several ink fountains, so operators can vary the number of ink fountains that print on the upper and lower surfaces on a form-by-form basis.

Note: Turn bar locations are set during installation of your system.

### 9.2 Activate the Turn Bars

You must end all running forms before activating a turn bar.





#### 9.3 Assign Forms to Ink Fountains Before / After Active Turn Bar

After activating the turn bar, you can assign forms to ink fountains before and after the active turn bar.



The following figure shows the active turn bar in the Press Graphical View.

**Note:** Ink fountains <u>before</u> the active turn bar (bottom surface) are assigned to one form and those <u>after</u> active turn bar (top surface) are assigned to second form.





## 9.4 Work with Multiple Turn Bars

If your system is set up with turn bars between several ink fountains, you can vary the number of ink fountains that print on the upper and lower web sides.



This figure shows the Status View with two turn bars, one between Upper 2 and Upper 3 and another between Upper 4 and Upper 5. This is a 5-color over a 1-color web.



## 9.4.1 Activating a Turn Bar When Using Multiple Turn Bars

# 9.4.2 Setting Up Form for Bottom Surface Ink Fountains



# 9.4.3 Setting Up Form for Top Surface Ink Fountains



## 9.5 Change Active Turn Bar for Multiple Turn Bars



#### 9.6 Copy Ink Zones – Web Press with Turn Bars

You can only copy and paste ink zones within the currently selected side of the active turn bar.

You cannot copy ink zone settings from one side of the active turn bar and paste them to the other side of the active turn bar.

See the *Mercury Training & User's Guide* for detailed instructions on copying ink zones.

#### 9.7 Swap Ink Zones – Web Press with Turn Bars

When swapping ink zone settings between two ink fountains:

- If the selected ink fountains are on the same side of the active turn bar, both the zone and color data will be swapped.
- If the selected ink fountains are on different sides of the active turn bar, only the zone data will be swapped.

See the *Mercury Training & User's Guide* for detailed instructions on swapping ink zones.

# 10 Using Two-Sided Press

This section describes the optional two-sided web press, which lets you simultaneously control two forms running on a single web press.

**Note:** This feature is only available if your system was configured for a two-sided web during system installation.

#### 10.1 Overview of Two-Sided Presses

For a two-sided web press, each ink fountain will have an upper and lower ink surface. You can create two forms, one for the upper surface and one for the lower surface.



The following figure shows a two-sided web press.

All of the ink fountains display the upper and lower surfaces in the Press Graphical View. However, the ink fountain thumbnails only display the ink fountains for the currently selected surface.

**Note:** The ink fountains for the <u>upper</u> surface must be assigned to one form and those for the <u>lower</u> surface to another form.

### 10.2 Assign Form to Upper Surface of Two-Sided Web

Touch one of the **ink fountains** for the upper surface and set up a new form, using the standard color order.



This figure shows the Status View after setting up a new form for the "upper surface" ink fountains.

See the *Mercury Training & User's Guide* for detailed instructions on setting up a new form.

## 10.3 Assign Form to Lower Surface of Two-Sided Web

Touch one of the ink fountains for the lower surface and set up a new form, using the standard color order.



This figure shows the Status View after setting up a new form for the "lower surface" ink fountains.

## **10.4** Change the Color Order for the Current Surface

You can only change the color order of the form for the currently selected surface.



Michigan

This figure shows the "upper surface" after changing the color order.

"upper" surface – color order changed

See Change the Current Color Order for more detailed information.

#### **10.5** Make Ink Fountain Adjustments – Two-Sided Web Press

You can only make ink zone adjustments for the currently selected surface.

See the *Mercury Training & User's Guide* for detailed instruction on making ink fountain adjustments.

### 10.6 Copy Ink Zones – Two-Sided Web Press

You can only copy and paste ink zones within the currently selected surface. You cannot copy ink zone settings from one surface and paste to another surface.

See the *Mercury Training & User's Guide* for detailed instructions on ink zone copy.

#### 10.7 Swap Ink Zones – Two-Sided Web Press

When swapping ink zone settings between two ink fountains:

- If the selected ink fountains are on the same surface, both the zone and color data will be swapped.
- If the selected ink fountains are from different surfaces, only the zone data will be swapped.

See the *Mercury Training & User's Guide* for detailed instructions on ink zone swap.

# 11 Using Multiple Web Press

A multiple web press is any commercial press with perfecting units (upper and lower) and configurable air bars, to allow two or more webs to be printed at the same time.

Normally only two webs are configured, but Mercury allows up to five webs to be printed at the same time. Most multiple web presses are configured horizontally or used in multi-tiered structures.

The following figure shows a multiple web press with one air bar.



multiple web press

Note: Multiple web presses can be configured independently to perform Auto Zero.

### **11.1** Activate Press Split Configuration for Multiple Web Press


# 1 Touch a surface on one of the webs of your multiple web press. surface selected 2 Click on CIP3 > New CIP3 Presets from the main toolbar. surface selected 42228-3 (DT) 821632-1\_\_sheet1\_W1 42228-3 (DT) 821632-1\_sheet1\_W1 31846 31847. 11865 31887. 11,888 31899 NCS Multi-Color Bonanza Vo Ink 3 Assign and apply the **presets** to the selected surface, following the steps given in "Assign and Apply CIP3 Presets" in the Mercury Advanced User's Manual - Volume 2. 4 Make sure to specify Upper Surface or Lower Surface, as required. On the final CIP3 Presetting screen, verify that the correct web and surface is 5 specified under Form Names. 6 Touch to create a form for the web surface. form with presets assigned to surface selected

# 11.2 Assign CIP3 Presets for Multiple Web Press

# **11.3 Use Job Management View for Multiple Web Press**

You can use the Job Management View to create a job and add forms for a multiple web press.



# 11.4 Use Summary View for Multiple Web Press

You can use the Summary View to display a thumbnail summary of inkers for all surfaces of a multiple web press.



In this example, Summary View shows the four surfaces for the multiple web press.

Reference: See Using Summary View for more detailed information.

## 11.5 Make Inker Adjustments on Status View for Multiple Web Press

#### Zeroing All Inkers, Sweeps, and Waters for Multiple Web Press

The zero operations are allowed on all inkers, sweeps, and waters for all surfaces on a selected web for a multiple web press.

- > Zero All Inkers zero all of the inkers for all surfaces on a web.
- > Zero All Sweeps zero all of the sweeps for all surfaces on a web.
- > Zero All Waters zero all waters for all surfaces on a web.

#### Performing Color OK for Multiple Web Press

The Color OK operation is allowed on a selected surface of a web.

#### Swapping Inkers for Multiple Web Press

The swap operation is allowed between any inkers on the same surface of a web.



In this example, it shows the Black and Yellow inkers on the Lower surface of Web 2 being swapped.

#### **Setting the Press for Multiple Web Press**

After swapping inkers use **Set Press** from the Status View to send moves to the inker. The Set Press operation executes all pending inker changes for all surfaces and webs for a multiple web press.

#### Performing Sweep All / Water All for Multiple Web Press

You can use **Sweep All / Water All** to adjust one or more sweeps or waters for a selected surface on a multiple web press.

The following example shows the Sweep All screen for the Upper surface of Web 1.



The following example shows the Water All screen for the Lower surface of Web 2.



# 12 Using a Tower Press

This section describes the Tower Press feature.

**Note:** Job Management View and Closed Loop Control are not available for a tower press.

# 12.1 Overview of Tower Press

A tower press is a group of vertically arranged printing units with one or more webs printing at the same time. Each vertical arrangement is called a tower.

The following figure shows a 4-high tower press, with each tower having 8 inkers.



When you click on a tower, the Select Inker screen displays where you can select a specific inker in a tower and access the Status View for that inker.



Mercury supports the following for a tower press:

- A tower can have one-to-four high printing units.
- Web routing could involve more than one tower for a single web, with up to 24 webs printed at the same time.
- Multiple towers can be configured into split press configurations, with up to 12 splits allowed at one time.
- CIP3 presetting can be augmented by imposition software (IMAPS) to allow easy color assignments and web routing of many webs.

# 12.2 Assign Splits for Tower Press from Split Selection View

# 12.2.1 Accessing Split Selection View (Tower Press)



Notes:

- The **All Inkers** button is a toggle control used to clear all inkers or assign to all inkers.
- The various **Tower** buttons are toggle controls used to assign to a current split or clear the split assignment.
- If the number of towers and folders in the press prevent them from all being displayed at one time, **horizontal scrolling** (draggable view) is enabled.

# **12.2.2 Assigning Multiple Splits on Split Selection View (Tower Press)**

In this example, we are assigning all inkers for towers to Split 1 and Split 2.





**Note:** In addition to assigning all inkers for a tower to a split, it is also possible to assign inkers within a tower to multiple splits. For example, for Towers A-H you could assign Split 1 to the upper inkers and Split 2 to the lower inkers.



# 12.3 Assign CIP3 IMAPs with CIP3 Presets for Tower Press







# 12.3.1 Reviewing CIP3 Presetting Press Schematic for Tower Press



When an imposition is loaded, the press schematic will display the colors and configured webs from that imposition.

- "Red" highlight indicates that inker is defined in imposition, but there is no CIP3 data to go with it.
- > If no colors exist in an inker, as defined in the imposition, inker will be blank.

## 12.3.2 Reviewing CIP3 Presetting CIP3 Data Window for Tower Press



The CIP3 Data window is scrollable and displays the available inker data in the CIP3 file. It will also show some of the imposition data when an imposition is selected.

- By default, checkboxes will be selected if CIP3 and imposition agree. When deselected, this data will not be sent to fountain profile.
- If "?" displays for Tower/Inker ID, data exists in CIP3 data but there is no inker defined in imposition.
- "Purple" background indicates data exists in CIP3 file, but does not exist in the imposition.

## 12.3.3 Reviewing CIP3 Presetting Imposition Window for Tower Press

The Imposition window is scrollable and displays the inkers that are defined in the imposition, but are not available in the CIP3 file.



# 12.4 Access Select Inker View & Zone Status View for Tower Press





#### Notes:

- You will see the **split number** included in the inker name that displays at the top of the zone controls.
- The currently selected split fountains are highlighted with blue borders; all other fountains will be highlighted with gray borders.

## 12.5 Make Inker Adjustments on Status View for Tower Press

From the Status View, you can make the following inker adjustments for fountains in the <u>current split</u> of a tower press.

- Adjust ink zone settings using % Inc/Dec
- Copy / Paste ink zones
- Swap ink zones
- Display sweeps and waters
- Set Press
- Zero inkers, sweeps, and waters

#### Adjusting Ink Zone Settings Using % Inc/Dec for a Tower Press

On the Enter Percentage Value pop-up (displayed when using % In/Dec), the **Current Form** selection will apply to all inkers in the current split.

	Enter I			
	Input Range -	100 to 2375		
% Value	5			
7		Арріу То	1	
	5 6	Current Inker		
1	2 3		$\vdash$	Apply to "Current Form"
0	Dot +/-	Current Form		
		X		

#### Copying & Pasting Ink Zones for a Tower Press

The Copy / Paste operations are allowed in any fountain in the current split. A copied inker profile can be pasted to any inker of the current split.

#### Swapping Ink Zones for a Tower Press

The Swap operation is allowed between any fountains of the current split. You will see all the fountains of the current split highlighted with blue borders.



You can select any inkers in the current split and multiple swaps are allowed at the same time.

#### **Displaying Sweeps and Waters for a Tower Press**

The Sweep All and Water All views display the inkers of the current split. If the current split has more than 16 inkers, click on the **Next** button to view the additional inkers.



#### Setting the Press for a Tower Press



The Set Press operation executes all pending inker changes in the current split.

#### Zeroing all Inkers, Sweeps, and Waters for a Tower Press

The Zero operations are allowed on all inkers, sweeps, and waters in the current split.

- > Zero All Inkers zero all inkers in current split.
- > Zero All Sweeps zero all sweeps in current split.
- > Zero All Waters zero all waters in current split.

# 13 Using a Newspaper Press

This section describes the newspaper press feature.

- **Note #1:** This feature is only available if your system was configured during system installation to run in newspaper mode.
- **Note #2:** Job Management View and Closed Loop Control are not available for a newspaper press.

### **13.1** Overview of Newspaper Press

A newspaper press is a special type of tower press that provides labor savings for large publications when printing on a newspaper style press. Newspaper press configurations are commonly found in semi-commercial or coldset presses, which are typically used for printing newspapers, advertising supplements, and insert sections for newspapers.

The following figure shows a 4-high newspaper press, with each of the towers having eight inkers.



#### **Newspaper Page Panel View**

When newspaper mode is enabled, Mercury will have a newspaper page panel view on the Status View. This view replaces the ink fountain thumbnails section on the Status View.

Pre-Press Job	0327611	Split # 1	Current C4	Mating:	1A1		<
Imposition #	611	Page Size: Panorama			MC	ку	

There are four sub-sections for the newspaper page panel view.

Pre-Press Job: 0327611 Imposition #: 611	<ul> <li>Displays the pre-press job name.</li> <li>Displays the imposition form number.</li> </ul>
Split #: 1 Page Size: Panorama	<ul> <li>Displays the split number of the current inker.</li> <li>Displays the page size of the imposition form.</li> </ul>
Current: C4 Mating:	<ul> <li>Displays the current page and mating page(s).</li> <li>Allows selecting between pages using Previous Page and Next Page buttons.</li> <li>Navigates to newpaper Page View using News button.</li> </ul>
Previous Inker Next Inker button button MCKY colors for current section/page	<ul> <li>Displays the current inker.</li> <li>Displays all colors that belong to current section / page selected.</li> <li>Allows selecting by fountain, sequentially going through press color by color, using Previous Inker and Next Inker buttons.</li> </ul>

#### **Newspaper Page View**

You can access the newspaper Page View from the Mercury Status View, by clicking the News button or touching anywhere in the tower press schematic at the bottom of the view.



You can select any inker from the tower press schematic to go to that inker.

## **13.2** Select Pages / Fountains from Newspaper Page View Section

From the newspaper page view section of the Status View, click on **Section** or **Section** (**Previous Page** or **Next Page** button) to navigate through pages for the current split of fountains. You will see the **Current** page number change as you click on the buttons.





From the newspaper page view section of the Status View, click on or (Previous Inker or Next Inker button) to go through the press color by color for a selected fountain. You will see the inkers in the fountain, the current inker, and the color change as you click on the buttons.

	м
Tower A	
Tower A	t C
Tower A	
Tower A	ţ
Tower A	ĸ

# 13.3 Assign CIP3 IMAPs with CIP3 Presets for Newspaper Press





# 13.4 Navigate to Newspaper Page View Dialog



From the Status View, touch the **News** button (

The Page View screen displays where you will see how many pages are being printed and the colors available for every section.



You can select a section, page number, and color and then click it to navigate to a specific page in the current split. In the example above, section **C**, page **4**, and the color **Magenta** have been selected.

# Appendix A: System Function Buttons on Status View

Button	Name	Description
JI mit	About	Access the About screen.
100		On System drop-down menu.
+	Add	Add available CIP3 presets file to added presets list.
		On CIP3 Presetting screen.
-	Assign Color	Assign preset color to inker.
		<ul> <li>Turns green when enabled.</li> <li>Green highlighted in grange when activated</li> </ul>
-		On CIP3 Presetting screen.
( <u>)</u>	CIP3	Preview CIP3 images.
GP3	Preview	On main toolbar under CIP3 drop-down.
	CLC	Closed Loop Control (CLC) mode enabled.
$\sim$	Mode	On Status View, top right.
	Color OK	Save current ink profiles for a form.
		On main toolbar.
1-2-0	Сору	Copy all fountain data or selected ink zones.
		On main toolbar.
X	End Current	End a form.
	Job or Form	On main toolbar.
	New Job or	Create a new job or form.
	New Form	On main toolbar / Form drop-down menu.
	Key	Mode to view ink zone settings.
	Positions	On the Status View, top right.

Button	Name	Description
	Lock Console	<ul> <li>Lock and unlock Mercury console.</li> <li>Turns gold when unlocked.</li> <li>Turns pink when locked.</li> <li>On the Status View, top right.</li> </ul>
	New CIP3 Presets	Set up a new CIP3 presets. On CIP3 drop-down menu.
	Paste	Paste all fountain data or selected ink zones to other ink zones / other ink fountain. On main toolbar.
%	% Inc/Dec	Increment or decrement ink zone settings by a percentage value. On main toolbar.
	Recall Job or Form	Recall a previously created job or form. On main toolbar.
	Run Inker	<ul> <li>Set ink zone adjustments for selected ink fountain.</li> <li>Turns gray when Off.</li> <li>Turns green when On.</li> <li>On the Status View, top right.</li> </ul>
	Save Job or Form	Save - Save a new form or new version of current form. Save As - Save current form with new name. On the Status View, main toolbar.
î.	Set Form and Set Press	Set Form - Set all ink fountains in current form. Set Press - Set all ink fountains on the press. On the Status View, top right.
-111)	Set Press	Set press with ink zone settings. On Set Form and Press drop-down menu.

Button	Name	Description
8	Swap	Swap two ink fountains. On main toolbar.
	Sweep All / Water All	View and modify any or all sweep or water controls. On main toolbar.
0	Sweep All	View and modify any/all sweep controls. On Sweep/Water All drop-down menu.
ĩ.	System	Access system utilities and diagnostics, and exit Mercury. On main toolbar.
Ó1Ĥ.	Target/Scan Densities	Mode to view console target densities and scan densities. On the Status View, top right.
0	Water All	View and modify any/all water controls. On Sweep/Water All drop-down menu.
0	Zero	Zero current ink fountain, all ink fountains, all sweeps, or all waters. On the Status View, top right.
000	Zero All Inkers	Zero all inkers. On Zero drop-down menu.
299	Zero All Sweep	Zero all sweeps. On Zero drop-down menu.
999	Zero All Water	Zero all waters. On Zero drop-down menu.
000	Zero Current Inker	Zero current ink fountain. On Zero drop-down menu.

# Appendix B: Navigation & Operation Buttons

Button	Name	Description
	Adjust All	Adjust all ink zones, sweeps, or waters at one time.
W	Adjust All Zone Console	On Status View, to right of individual adjust buttons and on Sweep All/Water All screens, bottom right.
	Adjust All Zone x5 Console	On Status View, to right of individual adjust buttons and Adjust All Zone Console buttons.
	Adjust	Adjust corresponding ink zone, sweep, or water.
	Up/Down	On Status View, under each ink zone and on Sweep All/Water All screens, under each sweep.
	Scroll Ink Zones	Scroll to view additional ink zones when more than 16 ink zones.
		On Status View, to right and left of ink zones.
×	Cancel or Exit	Cancel or exit an operation or action.
		On numerous views and screens.
	Clear	Un-select all selected ink zones for ink fountain.
	Selection	On Status View, above Adjust All Zone Console and Adjust All Zone x5 Console buttons.
0	Exit	Exit Mercury.
164	Mercury	On Mercury Configuration screen.
$\left \right\rangle$	Next	Go to next screen; continue to next step in process. On numerous views and screens.
	OK or Yes	Indicate agreement with operation or action. On numerous views and screens.
<	Previous	Go to previous screen. On numerous views and screens.
۲	Radio	Select option from list of options. On numerous views and screens.

# Appendix C: System Configuration Buttons

### **Utilities Buttons**

Button	Name	Description
	Call ELO Setup	Calibrate ELO touch system for a specific monitor.
$\bigcirc$	Call TeamViewer	Access TeamViewer which allows control of a remote computer.
<b>B</b>	CIP3 Paper Scan Calibration	Access CIP3 Scan Calibration screen to create/modify/delete paper scan calibration.
	Convert M2 Job to MC3 Job	Convert a MC2 job to a MC3 job.
	Current Color Order	Access Color Order View to change current color order.
	Delete Form(s)	Access list of forms and select one to delete.
JOB'n	Delete Job(s)	(Optional) Used for press configurations when Job Management View is enabled.
	Offset Calibration	Access Calibration screen to adjust offset calibration values.
	Press Split Configuration	(Optional) Used in press configurations with multiple webs and tower mode.
	Restore Servos	Restore servos for an inker.
	Retract Servos	Retract servos for an inker.

Button	Name	Description
	Standard Color Order	Access Color Order View to change standard color order.
$\overline{\mathbf{X}}$	Turn Bar Configuration	Access Turn Bar Configuration screen. (Only available when system is configured for turn bars.)

## **Diagnostics Buttons**

Button	Name	Description
AUTO	Auto Test	Access Auto Test screen to test current servos automatically.
History	History	View available auto test and servo test results.
Servo	Servo Test	Access Servo Test screen to test one or all servos.
SPU	SPU Test	Access SPU Test screen to test the SPUs.
SWEEP	Sweep Test	Access Sweep Test screen to test sweeps.
171	SPU Configuration Display	View what serial communication port is attached to each SPU.

# Settings Button

Button	Name	Description
e	Runtime Options	Specify options for display, CIP3 presetting, controls, and forms.

# Appendix D: Display & Touch-Sensitive Buttons & Fields

Button / Field	Description
Upper 2 C/An	<ul> <li>Ink Fountain Thumbnail field.</li> <li>In Ink Fountain Thumbnails:</li> <li>&gt; View ink zone settings for ink fountain in thumbnails.</li> </ul>
	<ul> <li>Touch to select and make ink zone adjustments to ink fountain.</li> </ul>
35       31       16         Here       Here       Here         Key Positions mode       Here       Here         1.08       1.04       0.92         Here       Here       Here         Target/Scan Densities mode       Here	<ul> <li>Ink Zone Data Display field.</li> <li>On Status View, under ink zones: <ul> <li>View ink zone data settings or console target density for selected ink zone.</li> </ul> </li> <li>Touch to select and make adjustments using console value slider and/or Adjust Up/Down buttons.</li> </ul>
single-sided web 2-sided web	<ul> <li>Ink Fountain Press Graphical View field.</li> <li>At bottom of Status View and all other views, in Press Graphical View: </li> <li>&gt; View ink zone settings for ink fountain.</li> <li>&gt; Touch to select and make ink zone adjustments to ink fountain.</li> </ul>
Console Value Line 57 69	<ul> <li>Ink Zone field with Console Value Line.</li> <li>On Status View, in the ink zones area:</li> <li>&gt; The console value line shows the ink zone settings or console target density/scan density values for selected ink fountain.</li> <li>&gt; The color of the line is different to allow the console value position to be seen against the ink color.</li> </ul>

Button / Field	Description		
	Ink Sweeps field and button, used to view and adjust sweep values.		
	On Status View, to the right of the ink zones. Also, on Sweep All screen.		
	<b>Water Control</b> field and button, used to view and adjust water values.		
	On Status View, to the right of the ink zones. Also, on Water All screen.		
	Ink Surge button, used to add to surge time.		
	On Status View, below Ink Sweeps button. Also on Sweep All screen.		
•1•	Flood button, used to add to flood time.		
<b>,</b>	On Status View, below Flood button. Also on Water All screen.		
3	<b>Cancel / Countdown Timer</b> button, used to cancel surge or flood, and also shows preset surge/flood time.		
	On Status View, below Ink Sweeps and Flood buttons. Also on Sweep All and Water All screens.		
	<b>Turn Bar</b> icon used to activate and view turn bars for systems running single-side web with turn bar.		
$\sim$	> View turn bars in Press Graphical View.		
	<ul> <li>Touch to select and make adjustments on Turn Bar Configuration screen.</li> </ul>		
	Information icon.		
	Displays on screens that present confirmation to a system action. On numerous screens.		
	Question icon.		
	Displays on screens where you must respond to a question. On numerous screens.		
	<b>Help</b> icon on Servo Test, SPU Test, Auto Test, and Sweep Test screens.		
	Used to access the <i>Mercury Service Manual</i> and go directly to the section of the manual for the test.		

# Appendix E: Zone Status Icons

Under the ink zones on the Status View, there is an ink zone data display area that provides feedback on each zone setting.



Following is a list of all the **zone status icons**.

lcon	Description			
	Indicates ink servo value equals console value.			
0	Indicates servo for OCU zone is currently running.			
U	Indicates a stalled servo.			
1	Indicates SPU failed to initialize.			
	Indicates a configuration error:			
鞣	<ul> <li>One of servos in that rail has gone bad.</li> <li>Harness has gone bad.</li> <li>Mismatch in configuration from MCxxxx.xml to actual servos on rail.</li> </ul>			
*	Indicates last move for OCU zone's servo returned a servo or SPU communication error.			
111 <mark>99</mark>	Indicates zones were retracted.			
0	Indicates SPU re-initialization is in progress.			
	Indicates zone is locked.			
$\bigcirc$	Indicates zone is in closed loop control.			

# **Revision History**

Version	1.7
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Revision Date	Revised By	Version	Section / Page Numbers	Revision Description
9/22/2020	MC / SW	1.7 A	All Section 3	<ul> <li>Initial release of V1.7.</li> <li>Updated screen shots, as needed.</li> <li>Added new buttons to Appendix.</li> <li>Moved Single-Sided, Two-Sided, Multiple, Newspaper, and Tower press sections from Vol 2 to Vol 1.</li> <li>Added new section 3.14 - Sweep &amp; Water Ramping, 3.15 - Calibrate Positioner Diagnostics for PLC Sweep / Water Controls, and 3.16 - Configure Ethernet Based SPU3 Device.</li> <li>Updated to sections 3.2 (updates to Import From screen) and 3.6 (added "Creating Default Paper Types".</li> <li>Updated Section 3.6 about explanation of default paper type data values.</li> </ul>

### Version 1.6

Revision Date	Revised By	Version / EO	Section / Page Numbers	Revision Description
11/28/2017	SW	1.6 A (17392)	All	<ul> <li>Initial release of V1.6.</li> <li>Updated screen shots, as needed.</li> <li>Incorporated V1.60 updates (sections on Servo test, Auto test, and History).</li> <li>Divided section on "Configuring the System" into 3 sections (Utilities, Diagnostics, and Settings).</li> </ul>

Version 1.5

Revision Date	Revised By	Version / EO	Section / Page Numbers	Revision Description
2/6/2017	SW	1.5 A (17147)	All	<ul> <li>Initial release of V1.5; renamed document to Advanced User's Manual - Core Functions.</li> <li>Moved all optional features to new document called Advanced User's Manual – Optional Features.</li> <li>Converted V1.2 from Frame to Word and updated all screen shots.</li> <li>Incorporated updates for V1.32, 1.40, and V1.50.</li> </ul>

## Versions 1.0 - 1.2

Revision Date	Revised By	Version / EO	Section / Page Numbers	Revision Description
1/19/2009	SW	1.0 A	All	Initial release of MC-NW.
1/5/2010	SW	1.1 A (15325)	All	Initial release for Mercury 1.1.
5/26/210	SW	1.2 A (15448)	All	<ul> <li>Initial release for Mercury 1.2:</li> <li>Numerous user interface updates.</li> <li>Deleted some sections, moving them to Mercury Training &amp; User Guide.</li> <li>Changed name to Advanced User</li> <li>Manual and reduced word count.</li> <li>Made updates for CIP3 special colors and image/data rotation settings.</li> </ul>
6/8/2010	SW	1.2 B (15600)	All Section 8	<ul> <li>Updated all screen shots with main toolbar, to include Color OK button.</li> <li>Added new sections 8.3.2 "Copying/Pasting Ink Zones during CLC" and 8.3.3 "Adjusting Ink Zones with % Inc/Dec during CLC".</li> </ul>
Revision Date	Revised By	Version / EO	Section / Page Numbers	Revision Description
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10/20/2010	SW	1.2 C (15724)	Section 3	Updated section 3.1.5 to add more details on offset calibration.
11/9/2010	SW	1.2 D (15714)	Section 5	Updated section 5.1.1 to add a subhead section "Setting New Form Color Order".