

DisplayMaker Gator

Release Notes

Embedded Printer Software

***for the DisplayMaker 72S/72SR/72SRU/98sx
through version 2.34***

***and the DisplayMaker 72SI/98SI
through version 3.13***

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Part Number 0706369 Revision B

YES WE CAN



Update Instructions

1. Take the printer offline.

On the printer control panel Ready screen, press the Online/Offline key to display the Front Page screen.

2. Load the update disk into the RIP or ColorSpan print server.

3. Copy the embedded software update to the RIP or print server.

- If you are using a third-party RIP, refer to the documentation for update instructions.
- If you are using a ColorSpan print server, from the System menu, select **Update**.

4. Place the printer online.

On the Front Page screen, press the Online/Offline key on the printer's control panel.

When the printer is online, the embedded software update is copied to the printer.

5. Remove the update disk from the RIP or print server.

6. Verify the software update.

From the Front Page screen, press the **Status** key to display the embedded software version.

7. From the Status screen, press the  (Proceed) key, then the Online/Offline key, to return the printer to its ready state.



Note If the printer control panel displays any error messages after this update, you may not have waited long enough for the parameters to update in step 2. To reset these errors, turn off then turn on the printer power.

Version 3.13 Release Notes

Versions 3.x run on the DisplayMaker 72SI/98SI printers.

- **NEW** Takeup Stall Assist — if the roll-fed takeup motor stalls early in a roll of media, enable this option. This will increase the motor's torque to help eliminate stalls, but due to the motor's reduced speed may result in an excess loop of media when printing in faster modes (such as 600x300 Billboard). (**Menu > Printer Settings > Takeup Stall Assist**)
- The ink pumps are now scheduled to run staggered, to avoid running two or more ink pumps simultaneously. This provides a more consistent vacuum level and prevents the ink from leaking ("drooling") from the printheads.
- The maximum head vacuum above which a warning message is displayed has been raised from 3.5 to 4.1 inches.

Version 3.13
Menu Tree

New Option = item added since version 3.12

~~Old Option~~ = item deleted since version 3.12

Italic - dynamically hidden, depending on mode

Calibrate Printer

- Media Feed
- Manual Calibrations
 - Manual Bidi Registration
 - Manual X Head Registration
 - Manual Jet Mapping
 - Jet Status Lines
 - Default Registration Data
- Auto Calibrations
 - Auto Bidi Calibration
 - Auto H2H Calibration
 - AutoJet Calibration
 - Full AutoSet
- AutoTune
- AutoRecover
- Calibration Summary
 - AutoSet Summary
 - Log Head Registration Data
 - Log Jet Data
- Configure for Profile Creation* (shown if cut sheet is loaded)

Printer Settings

- Takeup Tension
- Supply Out Detection
- Heater Temp Settings
- Platen Vacuum Control
- Drying Delay
- Dryer Fans* (shown if installed)
- Excess Ink Sensor
- Capping Station Sensor
- Media Out Sensor
- Gutter Settings
 - Top Gutters
 - Side Gutters
 - Left Platen Gutter
 - Platen Gutter Spits
- Margin Settings
 - Space Between Prints (roll-fed media)
 - Right and Left Margin
 - Leading Margin
 - Trailing Margin
- Measure Media Type
- Quality Check
- Print Position
- Stiff Roll-Fed Media Handling
- Standby Wait
- Expert/Novice Messages
- Audible Alarm
- Localization
 - Units of Measure
 - Time Format
 - Date Format
 - Vacuum Pressure Units
- Head Height
- Service Station

- Automatic Eject
- Idle Spits
- Takeup Stall Assist
- Low Ink Warning
- Printer Name
- Restore All Defaults

Maintenance

- Access Printheads
- Purge A Color
- Print Jet-Out Lines
- Print Media Skew Lines
- Fill Service Station
- Reset Reservoir Filters
- Respool Media
- Clean Grit Rollers
- Capping Purge
- Printheads Procedures
 - Cleaning Solvent Soak
 - Prep for Storage/Shipping
 - Load Ink In All Heads
 - Fill Heads with Solvent
 - Fill Heads with Ink
 - Empty Heads (Fill With Air)

Service Printer

User Diagnostics

- Printhead Jet Statistics
- VideoNet Status
- VideoNet Connection
- Carriage Motion
- Calibration
- Vacuum Pressure
- Warnings and Actions List
- Error History
- Log Error History

Warnings & Actions (Expert mode only)

- **NEW User-defined print positioning** — you can now position an image anywhere on the media by setting the right margin (horizontal or x distance from the right edge) and leading margin (vertical or y distance from the leading edge). Since the image appears upside down as it emerges from the printer, the upper left corner of the image will appear at this point.
- **NEW Measure Media Type > Maximal with Skew Reporting** — for greatest precision when loading rigid media, this option reports the amount of skew measured without taking margins into account.
- **NEW Selectable vacuum pressure units** — you can now set the vacuum pressure units (inches H₂O or mm Hg) separately from the Units of Measure. (**Printer Settings > Localization > Vacuum Pressure Units**)
- **NEW Print Jet-Out Lines for 600x300 mode** — you can now print the Jet-Out Lines at either 600x600 or 600x300 dpi, or both. (**Maintenance > Print Jet-Out Lines**)
- **Faster unidirectional throughput in Fine Text mode** — when printing in Fine Text mode unidirectionally, the carriage now returns to the other side at full speed rather than at the slower Fine Text mode speed.
- **Print Test reporting corrected** — the Print Test now displays the correct remaining amount of printable area during setup.
- Fine Text mode usage is now reported in the top gutter pattern.
- Margins and print position can now be changed via the Media Wizard button on the control panel Front Page.
- The ink pumps are now turned off when the printer is shut down.
- **Changes to “Printhead empty” Action** — if a “Printhead empty” Action message appears when the ink pumps are disabled, pressing reset will enable the pumps. Also, the ink pumps are enabled when the printer begins to receive a job, instead of waiting until printing starts. This gives the pumps time to fill the heads (if necessary) before printing begins.
- **Ink pumps disable timeout reduced** — the pumps disable timeout has been reduced from 10 minutes to 1 minute after a print job is completed, to help reduce overfills.
- **Media Wizard saves supply and takeup tension settings** — the Media Wizard now saves these settings as expected.

New Features

- **Fine Text Mode** — prints at half the normal head speed to improve the output quality of fine text and line art. Fine Text mode is available for jobs sent from the RIP, but not for printer calibration patterns. Fine Text mode is available in In Production or High Quality modes.
- **Heater Temps status** — you can now check the status of the heaters while they are warming up, by pressing a key on the control panel. This key appears when a print job is being received, while the printers are warming up.
- **Localization** — this new menu option allows you to select units of measure (metric or English), time format (12-hour or 24-hour), and date format (YYYY-MM-DD, MM-DD-YYYY, and DD-MM-YYYY). (**Printer Settings > Localization**)
- **Printer Name** — displays a keypad to change the printer name displayed on the control panel and RIP or ColorSpan Print Server. Alternatively, the printer name can be changed from the ColorSpan Print Server.

Improved Features

- **Sorting the Media Wizard list** — you can now sort the list of media names in the Media Wizard Alphabetically (by name), Most Used, Recently Used, Sheet-fed First, Roll-fed First, or None (preserves the current order).
- **Calibration report headings clarified** - the calibration report now says “All Jets Replaced in [Billboard/Production/High] Quality Mode” with Yes/No for each printhead, rather than “Head Useable in [Billboard/Production/High] Quality Mode.” Even if all jets have not been replaced, the head may still be useable, depending on the quality requirements of a particular print job.
- **Vacuum displayed on Ready screen** — the Ready screen now includes the amount of vacuum being generated by the of the vacuum/pressure assembly.
- **Media Feed Number (MFN) now saved correctly** — a problem that resulted in the Media Feed Number from a Media Feed calibration not being saved correctly has been fixed.
- **AutoSet now correctly reports an incomplete calibration** — if a printhead was not calibrated during an AutoSet calibration, the printed report says that the calibration was not completed
- **Media Skew measurement now more precise** — the printer now detects media skew under 0.1 inch. If skew is more than .05 inch, an error message is displayed. Skew under 0.05 inch is not reported.
- **Improved metric unit support** — metric units are now used where English units were incorrectly displayed (when metric units were selected).
- **Printer is now restored online after Reload and Print (Front Page menu)**
- **Reset to defaults no longer incorrectly deletes Media Wizard settings**
- **Drying delay for the media skew pattern now saved correctly** — previously the drying delay you set for the media skew pattern was not being saved.
- **The printer now measures the media after the vacuums fan are at speed**

Version 3.10 Release Notes

New Features

- The improvements incorporated into this release are not visible to the user and do not visibly affect the operation of the printer.

Version 3.09 Release Notes

New Features

- **Additional flexibility for entering Media Feed Numbers (MFNs)** — Media Feed Numbers may be entered for standard media types, in addition to user-defined media types. During the media load process, the control panel prompts the user to load the MFN currently stored in the Media Wizard, keep the current MFN, or perform a media feed calibration (which generates a new MFN).
- **Current resolution displayed during printing** — the resolution of the job being printed (600x600 or 600x300) is displayed on the Ready screen during printing.
- **Clean Grit Rollers** — turns the grit rollers continuously for cleaning. (**Menu > Maintenance > Clean Grit Rollers**)
- **Capping Purge** — enables or disables the “micropurge” of the printheads, which expels a minute amount of ink onto the printhead orifices for better capping. (**Menu > Maintenance > Capping Purge**)

Version 2.34 Release Notes

Versions 2.x run on the DisplayMaker 72S/72SR/98SX printers.

- The ink pumps are now scheduled to run staggered, to avoid running two or more ink pumps simultaneously. This provides a more consistent vacuum level and prevents the ink from leaking (“drooling”) from the printheads.
- The maximum head vacuum above which a warning message is displayed has been raised from 3.5 to 4.1 inches.

Version 2.34 Menu Tree Some options appear only on certain printer models, as indicated.

New Option = item added since version 2.33

~~Old Option~~ = item deleted since version 2.33

Italic - dynamically hidden, depending on mode

Calibrate Printer

- Auto Calibrations
 - Auto Bidi Calibration
 - Auto H2H Calibration
 - AutoJet Calibration
 - Full AutoSet
- Manual Calibrations
 - Media Feed
 - Manual Bidi Registration
 - Manual X Head Registration
 - Manual Jet Mapping
 - Jet Status Lines
 - Default Registration Data
- AutoTune
- AutoRecover
- Calibration Summary
 - AutoSet Summary
 - Log Head Registration Data
 - Log Jet Data
- Configure for Profile Creation* (shown if cut sheet is loaded) (72SR,72SRU,98SX)

Printer Settings

- Takeup Tension
- Supply Tension (72S,72SR)
- Supply Out Detection (72SRU,98SX)
- Heater Temp Settings
- Platen Vacuum Control
- Drying Delay
- Excess Ink Sensor
- Capping Station Sensor
- Media Out Sensor (72SR,72SRU,98SX)
- Gutter Settings
 - Top Gutters
 - Side Gutters
 - Left Platen Gutter
 - Platen Gutter Spits
- Margin Settings
 - Space Between Prints (roll-fed media)
 - Right and Left Margin
 - Leading Margin (72SR,72SRU,98SX)
 - Trailing Margin (72SR,72SRU,98SX)
- Measure Media Type
- Quality Check
- Print Position
- Stiff Roll-Fed Media Handling
- Standby Wait
- Expert/Novice Messages
- Audible Alarm
- Localization
 - Units of Measure
 - Time Format
 - Date Format
 - Vacuum Pressure Units
- Head Height
- Service Station
- Air Purge Type
- Automatic Eject (72SR,72SRU,98SX)
- Idle Spits
- Printer Name
- Restore All Defaults

Maintenance

- Access Printheads
- Purge A Color
- Print Jet-Out Lines
- Print Media Skew Lines
- Fill Service Station
- Reset Reservoir Filters
- Respool Media
- Clean Grit Rollers
- Capping Purge
- Printheads Procedures
 - Cleaning Solvent Soak
 - Prep for Storage/Shipping
 - Load Ink In All Heads
 - Fill Heads with Solvent
 - Fill Heads with Ink
 - Empty Heads (Fill With Air)
 - Cyan Heads Maintenance

Service Printer

User Diagnostics

- Printhead Jet Statistics
- VideoNet Status
- VideoNet Connection
- Carriage Motion
- Calibration
- Vacuum Pressure
- Warnings and Actions List
- Error History
- Log Error History

Warnings & Actions (Expert mode only)

Version 2.33 Release Notes

- **NEW User-defined print positioning** — you can now position an image anywhere on the media by setting the right margin (horizontal or x distance from the right edge) and leading margin (vertical or y distance from the leading edge). Since the image appears upside down as it emerges from the printer, the upper left corner of the image will appear at this point. Centering. Clipping.
- **NEW Measure Media Type > Maximal with Skew Reporting** — for greatest precision when loading rigid media, this option reports the amount of skew measured without taking margins into account.
- **NEW Selectable vacuum pressure units** — you can now set the vacuum pressure units (inches H₂O or mm Hg) separately from the Units of Measure. (**Printer Settings > Localization > Vacuum Pressure Units**)
- **Faster unidirectional throughput in Fine Text mode** — when printing in Fine Text mode unidirectionally, the carriage now returns to the other side at full speed rather than at the slower Fine Text mode speed.
- **Print Test reporting corrected** — the Print Test now displays the correct remaining amount of printable area during setup.
- Fine Text mode usage is now reported in the top gutter pattern.
- Margins and print position can now be changed via the Media Wizard button on the control panel Front Page.
- The ink pumps are now turned off when the printer is shut down.

Version 2.32 Release Notes

New Features

- **Fine Text Mode** — prints at half the normal head speed to improve the output quality of fine text and line art. Fine Text mode is available for jobs sent from the RIP, but not for printer calibration patterns. Fine Text mode is available in In Production or High Quality modes.
- **Heater Temps status** — you can now check the status of the heaters while they are warming up, by pressing a key on the control panel. This key appears when a print job is being received, while the printers are warming up.
- **Localization** — this new menu option allows you to select units of measure (metric or English), time format (12-hour or 24-hour), and date format (YYYY-MM-DD, MM-DD-YYYY, and DD-MM-YYYY). (**Printer Settings > Localization**)
- **Printer Name** — displays a keypad to change the printer name displayed on the control panel and RIP or ColorSpan Print Server. Alternatively, the printer name can be changed from the ColorSpan Print Server.

Improved Features

- **Sorting the Media Wizard list** — you can now sort the list of media names in the Media Wizard by Name, Most Used, Recently Used, Sheet-fed First, or Roll-fed First.
- **Row headings in calibration report clarified** — the rows of the calibration report that lists each head with a Yes or No are now labeled “All jets replaced in Billboard mode,” “All jets replaced in Production mode,” and “All jets replaced in High Quality mode.”

- **Vacuum displayed on Ready screen** — the Ready screen now includes the amount of vacuum being generated by the of the vacuum/pressure assembly.
- **Supply tension removed in upgrade process** — when upgrading the printer to a DisplayMaker 72SRU, the supply tension is set to idle.
- **Media Feed Number (MFN) now saved correctly** — a problem that resulted in the Media Feed Number from a Media Feed calibration not being saved correctly has been fixed.
- **AutoSet now correctly reports an incomplete calibration** — if a printhead was not calibrated during an AutoSet calibration, the printed report says that the calibration was not completed.
- **Improved metric unit support** — metric units are now used where English units were incorrectly displayed (when metric units were selected).
- **Printer is now restored online after Reload and Print (Front Page menu)**
- **Reset to defaults no longer incorrectly deletes Media Wizard settings**
- **Drying delay for the media skew pattern now saved correctly** — previously the drying delay you set for the media skew pattern was not being saved.
- **The printer now measures the media after the vacuums fan are at speed**

Version 2.31 Release Notes

New Features

- The improvements incorporated into this release are not visible to the user and do not visibly affect the operation of the printer.

Version 2.29 Release Notes

New Features

- **Support for the SR Upgrade (SRU)** — this software supports the new SRU upgrade package.
- **Additional flexibility for entering Media Feed Numbers (MFNs)** — Media Feed Numbers may be entered for standard media types, in addition to user-defined media types. During the media load process, the control panel prompts the user to load the MFN currently stored in the Media Wizard, keep the current MFN, or perform a media feed calibration (which generates a new MFN).
- **Current resolution displayed during printing** — for DisplayMaker 72SRU and 98SX, the resolution of the job being printed (600x600 or 600x300) is displayed on the Ready screen during printing.

New Features

- **Grit roller cleaning** — added a menu item to advance the grit roller continuously so they can be cleaned off (with no media loaded). (**Menu > Maintenance > Clean Grit Rollers**)
- **Left margin gutter spits can be disabled** — on the DisplayMaker 98SX, you can turn off the left platen gutter spits for media less than 97 inches wide.
- **Printer checks the amount of memory installed** — the printer displays an error code if the wrong amount of memory is installed. The correct amount of memory is 256-512 MB for the DisplayMaker 72s/SR, 384-512 MB for the DisplayMaker 98SX.
- **Purge added prior to capping** — the printer performs a purge prior to capping, to help the printheads from drying out during capping (Sleep Mode). This purge can be disabled via the menu (**Menu > Maintenance > Capping Purge**).

Printing

- **Carriage motion errors** — the distance used for printhead carriage acceleration and deceleration has been changed to reduce carriage motion errors.
- **Undefined media length (roll-fed)** — during the Load Media process, you can set the length of the roll fed media to “undefined” by pressing either the Esc or Enter key on the control panel.
- **Increased precision of media width measurements** — media width measurements are now rounded to the nearest 0.125 inches instead of to the nearest 0.25 inches, and are displayed to two decimal places instead of one. This can increase the accuracy of sizing print jobs for edge-to-edge printing.
- **Improved detection of failed Load Media process** — the printer now correctly detects a failed Load Media attempt.
- **Improved detection of printing cancels** — an additional check has been added for the detection of the Cancel keypress during printing.
- **Pinch roller setting message** — the printer now displays the message showing the recommended pinch roller slot setting for the rigid media being loaded. This message was being skipped when the printer did not detect the media with the media sensor.
- **Media Out when switching print modes** — the printer no longer incorrectly displays a Media Out message when the user switches from a print mode with takeup tension on to a print mode with an idle takeup tension (no tension).

Calibration

- **Color order of the print test** — the order that the colors (and heads) are printed in the print test have been reversed so they match the order of the heads and how we print the prime lines (KCMY instead of YMCK).
- **Print test pattern information** — extra information has been added to the print test pattern, including the date and heads used.
- **Media Feed Number (MFN) easier to enter** — you can now enter the media feed number with the numeric keypad, instead of scrolling to the number with the up/down keys.
- **Resetting the filter count by reservoir** — you can now select an individual reservoir’s filter to reset via **Menu > Maintenance > Reset Reservoir Filters**.

Version 2.20 Release Notes

- **Bidi and media feed checked in Quality Check Mode and startup** — in Quality Check Mode and on startup, the printer checks whether BiDi Calibration and Media Feed Calibration have been performed. If not, a Warning message is displayed.
- **Cyan Heads Maintenance** — perform this new function every time the printer is idle for 24 hours, to keep the cyan printheads working. (If the printer is printing daily, the Cyan Heads Maintenance is not necessary.) It performs two purges, then fills the heads with cleaning solvent four times, then empties the heads, and then fills them with ink again. (**Menu > Maintenance > Printheads Procedures > Cyan Heads Maintenance**) Follow up with the procedure “Checking Jet Health” in Chapter 3 of the *User Manual* to keep all jets are working.
- **More accurate whitepoint readings** — when creating color profiles using the printer’s onboard camera, several whitepoint readings are taken across the width of the media.
- **Measurement method tracked by Media Wizard** — the Media Wizard now tracks whether the media should be measured automatically by the printer or manually.
- **Ink filter counter** — Resetting the ink filter counter now resets all of the counts to zero, not just the one(s) that are over the maintenance limit. The ink volumes filtered by color are now shown on the printer Status pages (**Front Page > Status**).
- **Print mode changes** — when switching print modes, if a takeup/supply tension setting changes from idle to tensioned, the control panel prompts you to reload the takeup/supply, instead of displaying a Media Out message.

Version 2.15 Release Notes

Improved Features

- Added left-side gutter patterns to the manual Bidirectional and Head-to-Head calibrations.
- When using sheet-fed media, the printer now stays online to accept another row of prints when printing an N-UP job from the server.
- When a calibration pattern fails to print, the true reason rather than “cancelled by user” is displayed on the control panel (if it was not cancelled by the user).
- “Left Only” print modes now appear as “Unidirectional” print modes throughout the control panel interface.
- Roll-fed and cut-sheet media have different minimum right/left margins.

Version 2.10 Release Notes

New Features

- **Edge-to-edge printing on rigid media** — on rigid media, the printer can now print up to the leading, right, and left edges when you set the margins to 0.
 - Tape the platen under the left and right edges of the media to catch any over-sprayed ink. Use a colored tape to allow the printer to find the media edges. A piece of media printed with a solid color also works for this purpose.

- Use the head height gauge to set the printheads to the standard height over the media. This will minimize ink overspray.
- From **Menu > Printer Settings > Margin Settings > Right and Left Margin, Leading Margin**, set the margins to 0. Optionally, you can set an Overprint distance to print past the edge.
- If you set the Trailing Margin to 0 and want to print to the trailing edge, you must attach a trailer of the same media to the trailing edge so the pinch rollers can feed the media all the way past the print zone.
- From **Menu > Printer Settings > Print Position**, center the image on the media.
- Enlarge the image slightly from the application or RIP if necessary to avoid an unprinted border.
- **Media Measure Type** — for cut-sheet media, you can choose one of three levels of precision for finding the left, right, and front edges of the media.
 - Minimal — measures the width of the media once, and finds the front right edge
 - Standard — measures the width of the media once, and finds the right and left front edges to estimate skew
 - Maximal — measures the width of the media in two places, and finds the right and left front edges to estimate skew and detect non-rectangular sheets

Choose Minimal for fastest throughput with media in perfect condition, Maximal for greatest precision and skew detection when printing edge-to-edge. (**Menu > Printer Settings > Measure Media Type**)

- **Supply Out Detection** — for roll-fed media, the printer usually monitors the supply spool to detect when it runs out of media. You can use this menu option to disable media out detection when you keep the takeup spool pin release tool (part number 0504334, see Chapter 3 of the User Manual for instructions) installed for printing rather than to freely pull a small amount of media from the supply. (**Menu > Printer Settings > Supply Out Detection**)
- **Measure Media Width enabled** — you can now manually locate the right and left edges of the media manually if the camera cannot locate clear or dark colored media during a Load Media operation. Previously, this function was enabled only if the camera was inoperable. (**Menu > Service Printer > Measure Media Width**)
- Permanently mapped-out jets now print in the prime lines, even in Billboard mode, to make unaccounted jet-outs more obvious.
- Vacuum fans automatically switch off when pinch rollers are raised, for easier loading and positioning of media, and automatically switch on when the pinch rollers are lowered.

Improved Features

- Media load features
 - The roll-fed media loading screen now has a media advance button for advancing the media to the takeup.
 - The sheet-fed media loading screen now has a vacuum setting button for adjusting the vacuum fan setting.

- The media feed number (MFN) is displayed at the end of the load process, along with a button for calibrating the media feed.
- **Automatic wipe after printheads service** — the printer no longer prompts the user to perform a Purge-n-Wipe after servicing the printheads.
- The printer now has improved protection against data corruption during electric power outages.

Version 2.05 Release Notes

New Features

Printing

- Job pause — printing can be paused and resumed at the control panel, enabling you to purge the printheads to recover jets in the middle of a print job. During the pause, the carriage goes to the service station and idle spits.
- Media-out detection can be disabled — if the media supply is set to Idle, you have the option of enabling or disabling media-out detection. You may want to do this if the printer is erroneously reporting a media out condition, or to print on a short piece of media without loading it onto the supply spool. Media-out detection is enabled automatically if the supply tension is not Idle, or if the printer is powered off then powered on. See menu at **Printer Settings > Supply Tension**.



Tip

Use this setting with the takeup spool pin release tool (part number 0504334, supplied with the printer) to remove virtually all tension from the media supply. You may want to do this to alleviate media feed problems with heavier media.

- Gutter setting refinements — this version allows more control over how and whether side gutters (printed on the edge of the media) and platen gutters (maintenance spits into the platen spittoons) are used to keep the inkjets open:
 - Side Gutters — after you select the side gutter width, the printer now asks whether to print the gutter pattern on the left side only of the media (closest to the capping station), or both sides. Printing on the left side only reduces ink usage, while printing on both sides can keep the inkjets clearer. Using this feature decreases the width available for printing the job. See menu at **Printer Settings > Gutter Settings > Side Gutters**.
 - Left Platen Gutter — disabling the left-side maintenance spits increases throughput when printing on narrow media. Now you can disable it depending on media width: always on, off for media less than 40 inches wide, or off for media less than 71 inches wide. See menu at **Printer Settings > Gutter Settings > Left Platen Gutter**.
 - Platen Gutter Spits — you can now set the amount of ink used by the maintenance spits to high, medium, and low. To conserve ink, use the lowest setting that keeps the jets open. The default on new and updated printers is High, which spits the

same amount of ink as in the previous version of the printer embedded software. See menu at **Printer Settings > Gutter Settings > Platen Gutter Spits**.

Calibration

- Post-AutoSet purge — a purge is performed after AutoSet, generally before the summary is printed. If the summary is turned off, then the purge occurs before next print job. If the summary is turned off and you initiate a purge via the menu, the automatic purge is not performed.
- Improvements to AutoBidi and AutoH2H — printing of these patterns has been slowed to reduce overspray and improve the recognition of patterns by the imaging sensor. Color blocks have been added to sides of the patterns for improved jetting. (AutoBiDi is a component of the full AutoSet calibration.)
- Permanent jet mapping — Manual Jet Mapping now has a menu item for “hard” jetouts and “soft” jetouts. Hard jetouts are permanently mapped out, and will not be reset by AutoJet. Soft jetouts can be reset by AutoJet. See menu at **Calibrate Printer > Manual Calibrations > Manual Jet Mapping**. “Jets Permanently Mapped Out” are not reported on the AutoSet summary unless Details are turned on. See menu at **Calibrate Printer > Calibration Summary > AutoSet Summary**.
- AutoJet color blocks — the AutoJet color blocks have been shortened to reduce the amount of ink used.
- Media feed pattern on cut sheets — the media feed pattern on cut sheets is now located at the right side for easier viewing when input/output tables are installed.
- AutoRecover now defaults to Off on new printers, but the default setting on printers updated to this embedded software version is not changed automatically. For best performance, set AutoRecover to Off manually, and enable it only if needed. See menu at **Calibrate Printer > AutoRecover**.

Force a Reservoir Refill

The bulk ink system uses software, ink reservoir float sensors, and the ColorMark profilers together to track ink usage. This usage is reported to you via the control panel and the green LEDs to tell you when a reservoir is ready for a new bottle of ink.

If ink usage data gets out of synchronization, this menu function enables you to resynchronize the system to a “full” state with a new ColorSpan profiler from MacDermid ColorSpan Technical Support. To prevent an out-of-sync condition, refill the ink only as described in the *DisplayMaker 72s/72sR User Manual*.



Note Do not proceed with this menu function without first obtaining instructions and a new ColorSpan profiler from MacDermid ColorSpan Technical Support (see page 7). After starting this function, printing will not proceed until a new profiler has been installed.

Other

- Vacuum pressure user diagnostic — detects vacuum leaks. See menu at **User Diagnostics > Vacuum Pressure**.
- Support for the new style digital imaging sensor — this embedded software version or later is required for any digital imaging sensor replaced in the field.

- The minimum media width allowed for AutoSet is 18 inches (46 cm).

Bug Fixes

- Media Feed Number (MFN) calibration — changes to the media feed number entered by the user are now applied to the media feed calibration.
- Lost parameters at shutdown — certain parameters that were lost at shutdown are now saved correctly.
- 900 mm calibration — the media no longer backs up excessively after the 900 mm media feed calibration pattern is printed.

Version 2.01 Release Notes

New Features

- **Media-out detection can be disabled for roll-fed media** — this allows the media supply spool to be freewheeling (with the insertion of a spool pin release tool, part number 0504334, into the spool holder), or the media to be disconnected from the supply spool. You cannot disable media-out detection while any media is loaded. (See menu at **Printer Settings > Supply Media Out Detection**.)
- **Individual jets can be mapped out permanently** — you can now map out jets on any printhead temporarily, until the next AutoJet jet mapping reevaluates them (a “soft” jet-out), or permanently (a “hard” jet-out). (See menu at **Calibrate Printer > Manual Calibrations > Manual Jet Mapping**.)
- **Print jobs can be paused** — you can now pause and resume printing in progress. During a pause, the carriage moves to the service station and starts idle spitting to keep the printheads from clogging. You can also perform a manual purge during a pause.
- **New high/medium/low settings for idle spitting** — when the printer is idle, it automatically spits a small amount of ink into the service station to keep the inkjets open and working. To reduce the amount of ink consumed during idle spitting, you can set the operation to medium or low. To ensure that the printheads are always at maximum readiness, use the high setting. (See menu at **Printer Settings > Idle Spits**.)



Note If the printheads will be idle for more than a few hours, press the **Sleep** button on the Front Page of the control panel, and cap the printheads. See Chapter 3 of the *DisplayMaker 72S/72SR User Manual* (part number 0700022) for instructions.

- Media now can be loaded during the automatic purge at startup.

Other Notes

- The vacuum should be adjusted to 3.20.

New Features

- **DisplayMaker 72SR support** — supports the rigid cut-sheet media handling and printing features of the DisplayMaker 72SR printer.
 - Media Wizard — stores operational parameters (vacuum and pinch roller) for rigid cut-sheet handling under a new standard media called Cut Sheet, and optionally under user-defined media types.
 - Media Out Sensor — the media out sensor on the input table can be disabled in case of malfunction, and reenabled in case of replacement.



Caution Do not disable the Media Out Sensor unless it is malfunctioning, and exercise care when printing with the Media Out Sensor disabled. Printing on the platen and head strikes are possible without the media out sensor enabled.

- Leading Margin and Trailing Margin — defines the margins on the leading and trailing edge of cut-sheet media.
- Rigid Media Handling — this menu option enables authorized service technicians to upgrade a DisplayMaker 72s printer to a DisplayMaker 72SR printer (also requires a hardware upgrade package).
- Unidirectional print modes — Billboard and Production modes can be printed in “left only” direction when printing on cut-sheet media. This reduces the visible artifacts in bidirectional mode caused by rigid media that is not perfectly flat.
- Automatic Eject (cut sheet printing only) — when enabled, the sheet is automatically ejected at the end of the print job. When disabled, the next job(s) will print on the same sheet until there is no more room to print.
- Configure for Profile Creation (cut sheet printing only) — causes all calibration prints to print on the same cut sheet, rather than ejecting the sheet after each calibration print. Automatically disabled after all calibration prints are finished, when a print job is received from the RIP, or when roll-fed media is loaded. The user can specify a dry time delay, after which the calibration or linearization will begin.
- **Reload Media** — after media has run out, bypasses the Media Wizard and applies the settings from the previously loaded media to the next media loaded. (Front Page)
- **Left Platen Gutter** — determines when the jets will fire in the left spittoon to keep all jets firing correctly. Turning off this function may speed throughput with narrower media, since it allows the carriage to turn around before reaching the end of the platen, but it may also necessitate more frequent Purge-n-Wipe operations to clear clogged jets. (**Printer Settings > Gutter Settings > Left Platen Gutter**)
- **Stiff Roll-Fed Media Handling** — when enabled, detensions then retensions the takeup system before every print job, for more accurate feeding of adhesive-backed and other stiffer roll-fed media types. (**Printer Settings > Stiff Roll-Fed Media Handling**)
- **Media Feed Number (MFN)** — reported whenever performing a Media Feed Calibration. When a media feed calibration is found to produce good output, this number can be recorded by the user and re-entered to return to the same setting. You may want to

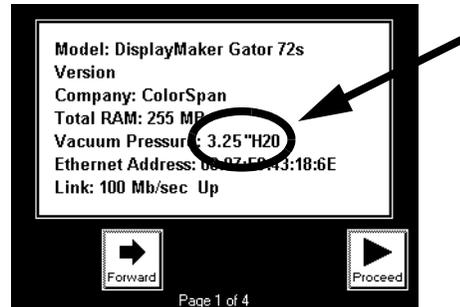
keep a log of MFNs for frequently-used media and for the beginning, middle, and end of the roll by media.

New Vacuum Setting

- **New nominal vacuum setting** — this version of the software includes a new nominal vacuum system setting of 3.25. After upgrading to this version, you should adjust the vacuum setting to between 3.20 and 3.30, or a warning message will appear until the setting is corrected. As with other warning messages, this message is advisory and will not halt printing, but performance may suffer until this setting is corrected as follows:

1. Display the current vacuum setting.

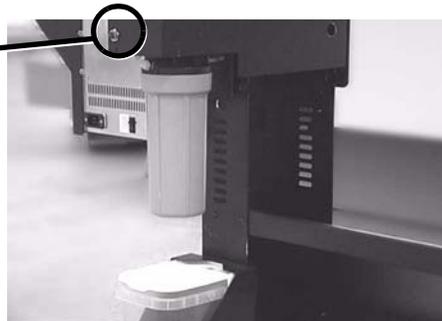
From the Front Page screen, press the Status button. The vacuum setting is displayed on the first page of the status screen.



2. Adjust the vacuum as necessary.

- If the vacuum setting is between 3.20 and 3.30, no further action is necessary.
- If the vacuum setting is greater than 3.30, turn the vacuum adjustment counter-clockwise 1/16 turn.
- If the vacuum setting is less than 3.20, turn the adjustment clockwise 1/16 turn.

Vacuum adjustment



3. Check the vacuum setting.

The vacuum setting is updated on this screen every few seconds.

4. Repeat steps 2 and 3 until the vacuum setting is between 3.20 and 3.30.
5. Press the ► (Proceed) key to display the Front Page screen.
6. Press the Online/Offline key to display the Ready screen.

Other Changes

- **Larger takeup roll diameter supported** — the takeup system now accepts media until it reaches 7.5 inches (19 cm) in diameter.
- **Vacuum fans may be turned off** — the vacuum fans can be turned off completely (see **Printer Settings > Platen Vacuum Control**). This allows printing on lightweight media such as paper or textiles. Use this feature with caution; media feed errors and head strikes could occur when the vacuum fans are turned off.
- **Performance purge** — you can now perform a 4-color purge and the AutoTune purge with all four colors at once (“Standard Purge”) or one color at a time (“Performance Purge”). The performance purge occurs at a higher pressure than the standard purge. (**Printer Settings > Air Purge Type**)
- **Left side gutter spits moved farther left** — this reduces the tendency for ink dust to be pulled over the media by the vacuum fans. Firing the ink jets into left gutter is necessary to keep them firing properly.



Note

Unless you are printing with media that is wider than 72 inches, you can further reduce this ink dust “overspray” by covering over the farthest column of vacuum holes with a piece of black tape. This effect is most noticeable when printing close to the edge of the media. Use black tape; white or light-colored tape could prevent the printer from detecting the edge of the media.

- **New Ready-for-Refill blinking pattern** — when you perform the first part of the refill process by refilling ink or replacing the profiler, the Ready-for-Refill LED blinks fast. When you perform the second part of the process by replacing the profiler or refilling the ink, the LED blinks slowly, then turns off after the ink counts have been updated.
- **AutoJet pattern improved** — this improves the detection of missing jets.
- **Prime Ink Pumps** — this option has been added to the **Service Printer > Ink System Tests** menu, for service providers to prime the ink pumps. For instructions, see part number 0706234 “Initial Priming Instructions.”

Version 1.20 Release Notes

Technical Support

For service and support, contact your local ColorSpan reseller, which can provide prompt and personalized support. For issues that cannot be resolved by your reseller, contact MacDermid ColorSpan Technical Services:

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