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• colorspan 72uvr manual.



Page 5 Regulatory Statements FCCA This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Page 6 Telecommunications Network Statement The ColorSpan VideoNet port on this device is not intended to be connected to a public telecommunications network. Page 7 About This Manual Read this manual to unpack, set up, and use the printer. Chapter 1 shows you how to unpack and assemble the printer, and introduces you to its main features. Chapter 2 shows you how to use the control panel. Chapter 3 shows you how to install ink and media. Chapter 4 shows you how to calibrate the printer. Chapter 5 shows you how to maintain the printer. Appendix A shows you how to troubleshoot common printing problems. Page 8 Conventions This manual uses the following informational conventions Note A special technique or information that may help you perform a task or understand a process. Hinweis Ein Hinweis beschreibt eine spezielle technik zur Losung einer Aufgabe oder enthallt Informationen, die Ihnen eine Prozedur naher erlautert. Caution Alerts you to something that has the potential to cause damage to hardware, software, or data. Page 9 TABLE OF CONTENTS Revision Log.Page 10 Printer Settings. 211 Printer Options. 214 Reset All Defaults. 215 Service Printer. 216 User Diagnostics. 216 Service Tests. Page 11 Drying Rate. 334 Fans and Heater. 334 Cutting and Unloading Media. 335 Table of Contents 4 Calibrating the Printer 5 Maintaining the Printer AutoSet. 42 Manual Calibrations. Page 12 A Technical Specifications B Troubleshooting Specifications.http://cnokorea.com/userfiles/esoteric-d03-manual.xml



A2 Supported Ink and Media. A4 Supplies and Accessories. A5 Troubleshooting Checklist. B2 Diagnostics. Page 13 CHAPTER 1 Getting Started This chapter shows you how to get started using your printer. Page 14 Operating Requirements Choose a location for the printer before you unpack it. Keep the following requirements in mind Electrical Environmental 12. See "Specifications" on page A2 for detailed power requirements. Use the supplied power cord. Plug it directly into a grounded electrical outlet. Do not lengthen the power cord with an extension cord; the resulting voltage drop could damage the printer. Page 15 DO NOT install the printer near humidifiers, refrigerators, fans, water faucets, heaters or similar equipment. DO NOT install the printer in areas where the temperature changes abruptly, such as near air conditioners or in the path of direct sunlight. DO NOT expose the printer to flames, dust or solvents. Refer to Appendix A for detailed specifications. Page 16 Safety Warnings WARNING WITH THE POWER SWITCH IN THE OFF POSITION, POWER MAY STILL BE SUPPLIED TO THE PRINTER COMPONENTS. To completely cut power from the printer, you must unplug the power cords from the power outlets.WARNING The printer is too heavy to be lifted safely by one person. Page 17 Unpacking and Assembly This procedure assumes that the printer is in its final location. See the Site Preparation Guide for moving and unpacking hints. WARNING The printer is too heavy to be lifted safely by one person. At least two persons are required to lift the printer. WARNUNG Der Drucker ist zu schwer fur eine Person. Mindestens 2 Personen sind erforderlich um den Drucker anzuheben. Note Unpacking If you will be installing a ColorSpan Print Server, set it up now and power it on. Page 18 8. Remove the ink tray boxes, stand legs, and accessory boxes, which are packed together at the bottom of the pallet. Do not remove the printer module from the pallet at this time.

The printer rests on two shipping supports. You will use these supports and two assembly supports to help assemble the printer. Note Replacement shipping packaging and instructions are available from MacDermid ColorSpan Technical Services phone 8009250563. 9. Page 19 Stand Assembly 1. Locate the stand legs. Start by positioning the two stand legs upright, at approximately the width of the crossbar. Align the holes on the crossbar with the holes in the stand legs, and secure them with the screws, but do not tighten them fully yet. Fig. 11. Stand assembly 3. Bias the stand legs outward at the top, then tighten the screws firmly. Page 20 Final Assembly 1. Remove the two redheaded bolts from the righthand shipping support. Fig. 12. Remove the redheaded bolts 2. Locate the assembly supports. The assembly supports are mirror images of each other; the foam pad should be positioned toward the ends of the printer. 3. Align the assembly supports. The pallet contains a threaded nut that will accept the bolt. Tighten the bolt handtight. 5. Attach the other assembly support to the pallet with the other redheaded bolt. WARNUNG Der Drucker ist zu schwer fur eine Person. Page 22 7. Remove the righthand shipping support from the printer, and bolt it to the pallet as shown, using the two redheaded bolts provided. Do not remove the bolts from the rear supports. Note that the "tower" of the support is now at the front of the pallet. Fig. 15. Shipping supports reversed and bolted 8. Lift the lefthand shipping support from the pallet, reverse it, and replace it into its guides on the pallet. The "tower" of the support is now at the front of the pallet. Page 23 9. Gently tip the assembled stand on its back, and set it down on top of the shipping supports as shown in Fig. 16. Fig. 16. Assemble the printer module and stand 10. Using the four silver Phillips head screws provided two per leg, attach the stand to printer module.



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The silver screws are required to establish an electrical ground connection between the printer and stand. 11. Press the caster locks down to prevent the printer from rolling. 12. Page 24 Caution Do not pinch the ribbon cable between the ink tray support and the printer frame. If the ribbon cable is damaged, it may need to be replaced. 16. Locate and connect the profiler docking station cable from the righthand ink tray to the port on the printer. 17. Using the screws installed in the back of the printer, attach the ink trays and . The right and left trays are mirror images of each other. Position the trays so that the inks load from the front. Page 25 20. Install the service station by inserting it into the rectangular cutout inside the right endcap behind the control panel. Position the service station so that the edge with the word "FRONT" is closest to the front of the printer. Slide the service station fully to the left end of the cutout. 21. Join the connector on the twisted wires from the takeup motor to the connector on the electronics assembly. Page 26 Connecting to the Print Server Connect the printer to the print server with the included VideoNet for ColorSpan print servers or Ethernet cable nonColorSpan RIPs. See Fig. 18. Note Do not connect the printer VideoNet cable to your local area network. The VideoNet protocol is not compatble with other network protocols. Refer to the print server RIP documentation for further instructions on connecting the printer to the print server. Fig. 18. Page 27 PowerUp Sequence Turn on the power switch to observe the typical powerup sequence 1. The control panel backlight illuminates. Move the contrast lever located to the right of the control panel screen up and down until the control panel graphics and messages are easily visible. 2. The printer runs a series of selftests, and reports any errors it finds. 3. The camera searches for the location of the installed media's home and far edges.

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Page 28 Workflow Overview When the printer is connected to a ColorMark Pro print server, here is how a typical print job progresses from the client workstation to the printer. If you are using a nonColorSpan RIP, refer to the documentation that accompanies it for details. 1. The operator sends a file to be printed from a client workstation. 2. The print job is received by the print server. Page 29 Parts Overview 456 7 8 9 10 11 16 16 1 1 12 2 13 14 15 17 3 3 18 21 19 20 Fig. 11. Page 30 Index Description 1 End cap two places — includes removable end covers for maintenance access. 2 Stand - supports the printer. 3 Casters four places - enables easy location of the printer, can be locked in place. 4 Encoder strip — allows precise positioning of the printhead carriage across the length of the platen. 5 Main carriage drive belt — moves the carriage across the length of the platen. Page 31 Index Description Parts Overview 15 Dryer — carries air blown from the dryer fans to the printed output. 16 Ink reservoir tray two places — holds ink reservoir boxes. 17 Takeup gearbox — powers the takeup spool to automatically take up printed output. 18 VideoNet port — connects printer to print server. 19 Standby power switch — places printer in standby mode to disconnect from power, disconnect power cord. 20 Power inlet — connects the printer to electrical power. Page 32 22 23 23 23 22 25 24 Fig. 12. Printhead carriage, printhead covers open 26 27 Fig. 13. Page 33 Special Features Performance Features EaseOfUse Features Special Features The printer has many advanced features to help you produce the best printed output with the least effort. AutoSet Calibration — uses a high resolution digital imaging sensor to align printheads automatically in the xy directions and bidirectionally for precise positioning of ink jet pixels, also compensates for lost or misfiring jets by using substitute jets without slowing printing speed.

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Page 34 122 Automatic head height setting — uses the onboard image sensor to set the print head height and level the print head carriage. Media width sensing — automatically detects the width and position of the media loaded, for precise image placement. Simplified control panel interface — Front Page screen presents frequently used functions, with recommended preset configurations. A menu provides access to lessfrequently used functions and troubleshooting help. Page 35 CHAPTER 2 Using the Control Panel This chapter describes the functions of the control panel. Page 36 Overview The touchscreen control panel shows you the printer's current status, and enables you to interact with the printer when changing media and ink, respond to an error condition, or configure options. There are three main control panel screens Ready Screen. Ready Status Screen. Page 37 User Assistance The control panel provides various forms of online user assistance The.The ATTN

Attention key blinks on the control panel when the printer detects an error condition, potential error condition, or when you make a change that suggests recalibration or other action to ensure best print quality. See the table beginning on page B5 for a list of errors and recovery procedures. Page 39 Front Page The Front Page provides access to the most frequentlyused printing and maintenance functions. For advanced configuration options, press the Menu key see "Menu" on page 210 for instructions. Fig. 22. Front Page Front Page. Press the p and C keys to highlight "Media" or one of the inks, then press B Proceed to display information about the selection. From this screen, you can press the m and q keys to scroll between screens. Press B Proceed to return to the list, then z Menu Out to display the Front Page screen. Fig. 23. Page 41 Status — displays the status of all userconfigurable options. To change an option, go to the Printer Configuration section of the menu.

Page 4 contains the current Media Wizard settings see "Media Wizard" on page 219. Fig. 24. Status page 1 Front Page. Advance Media — press the p key to advance the media forward. When you press and hold the p key, the media moves faster. Page 42 28 Prime Bars — fires all jets by drawing a set of lines called prime bars. This is a good way to inspect and prepare the jets for printing after they have been idle for more than a few hours. Choose Quick Prime Bars for most primes, or Detailed Prime Bars when you want to locate individual missing jets that AutoSet may have missed, so you can map them manually under Calibrate Printer Manual Calibrations Manual Jet Mapping see "Manual Jet Mapping" on page 413 for instructions. Page 43 Navigation Keys The following table shows you how to move through the menu system and perform printer control functions. Key Description v Display Menu — displays the printer menu.Page 44 Menu The menu has five main sections. Calibrate Printer see below. Configure Printer page 211. Service Printer page 216. Load Takeup page 218 This section explains each of the functions on the printer menu. See "Menu Tree" on page 220 for a listing of all menu options. Calibrate Printer 210 For details on these options, see Chapter 4, Calibrating the Printer. Page 45 Configure Printer Configure Printer enables you to set many options that control how the printer operates. Printer Settings Gutter Settings – determines the appearance of the top and side gutters. Top Gutters — allows you to turn On or Off the gutter pattern at the top edge of the print, which shows data about the print such as date and time printed and print mode, plus writein blanks for other data. Page 46 Margin Settings Space Between Prints sets the blank space between print jobs, between 0 and 10 inches 25 cm. Right and Left Margin sets the amount of blank space for the right and left margins, between 0 and 5 inches 13 cm.

http://sk-developers.com/wp-content/plugins/formcraft/file-upload/server/content/files/16280711fbe0 66---bsa-c11-service-manual.pdf

Leading Margin — when enabled and a media out condition has been detected, the printer measures the media width and finds the leading edge of the media before printing. This makes it easier to print on cut sheets. Page 47 Service Station Settings — sets parameters for the operation of the service station Service Station Algorithm — choose Optimized default, which wipes while moving the carriage; or Original. Service Station Interval — sets the printhead service station cycle every 30 seconds, 60 seconds, or 90 seconds. The service station cycle helps keep the ink jets open by expelling ink and wiping the jets. Page 48 Printer Options 214. Dryer — turns the dryer fans On or Off. Disable the dryer fan to avoid streaking output on poly media and films. Print White Space when Print White Space is selected, the printhead carriage always travels the width of the media, even when there is a white blank space in the image. When Do Not Print White Space is selected, the printhead remains in its home position and the media advances past white spaces in the image. Page 49 FineLine Mode — allows you to tune the printheads for improved fine line quality, and eliminate the "ghost" image on backlit media, caused by ink transfer during takeup. Select FineLine Mode Off the default setting for most printing with large areas of high ink coverage. Select FineLine Mode On to reduce the jagged appearance of fine lines and eliminate "ghosting." FineLine Mode is effective during the earlier portion of the printhead's service life. Page 50 Service Printer User

Diagnostics User Diagnostics presents an interactive troubleshooting program to diagnose problems before calling MacDermid ColorSpan Technical Services. It walks you through a series of tests and checks for certain printer functions. The printer asks you to make observations or run simple tests to help it diagnose problems and suggest corrective actions.

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Then the printer prints an enlargement of the image as the sensor captured it. Spit and Wipe Jets tests the functionality of the service station by firing ink spit and drawing the printheads over the service station wipers wipe. Page 52 Prime Pens Moves the carriage out of the service station home position so that it can be accessed behind the access door for manual priming for instructions, see "Manual Priming" on page 511. Prime Bars Prints a wideswath version of the prime bars. Disable Media Sensor If the media sensor is malfunctioning, disable it to continue printing. Note that with the media sensor disabled, the printer will not be able to detect when there is no media in the printer. Page 53 Media Wizard Menu This option provides access to the four settings that the printer saves and associates with a particular media Media Feed page 44, Head Height page 423, Platen Vacuum Control page 212, and 1Pass Coverage. Page 4 of the Status screen contains the current Media Wizard settings see page 27. The settings are saved automatically whenever they are changed, and can be recalled when the media is subsequently reloaded. Refer to the Release Notes for more recent versions. Page 56 222 Menu Tree Page 57 CHAPTER 3 Installing Ink and Media This chapter describes Installing Ink and Media. Variable Mode Printing page 32. Ink System Overview page 34. Selecting a Print Mode page 37. Installing Ink for the First Time in a New Printer page 314. Replacing Ink System Components page 319. Loading Media page 326. Cutting and Unloading Media page 335 31 Page 58 Variable Mode Printing The printer uses these techniques to vary the quality of a print and speed of printing. Color Set - ink sets may contain one each of a different color, two each of a different color, varying densities of certain colors, or combinations.

Using two sets of colors speeds printing, while using multidensity inks creates smoother transitions between light tones, and increases the perceived resolution of the print. Page 59 Print speed is increased by Variable Mode Printing. Reducing the number of passes see "Selecting a Print Mode" on page 37. Reducing the number of different colors or using smaller ink sets four or six colors instead of eight or more. Printing with two heads per color see "Selecting a Print Mode" on page 37. Printing in low relative humidity to avoid drying delays. Selecting "Do not print white space" under Configure Printer Printer Options Print White Space see "Printer Options Page 60 Ink System Overview The printer's ink system consists of three main components. Ink reservoir — a plastic box containing the ink supply and an electronic profiler, which specifies the ink type, color, and amount remaining. The profiler plugs into a connector on the ink tray, allowing it to communicate with the printer and print server. The reservoir is selfcontained and seals automatically for easy handing. Page 61 The ink system also includes a labeling system to help keep the components of each ink color together. Color Map Cards — lists all of the supported ink sets, fits in plastic sleeve inside the printer's top cover for easy reference during installation and printing. Fig. 32. Color Map card Tip If you cannot locate the color map card for a particular ink set, use the color map display on the control panel. Page 62 Spare Ink and Printheads For maximum productivity and minimum down time, ColorSpan recommends stocking extra ink reservoirs and printheads. When the ink supply runs low, or a printhead needs to be replaced, having spares will ensure that printing can resume as quickly as possible. Since ink and printhead usage will vary depending on the amount and types of printing you do, experience will help you determine how to stock an efficient spare inventory.

Page 63 Selecting a Print Mode Before installing ink, report to the printer how you will use the ink you will install the "print mode". This is necessary because although the printer can detect which inks are installed, a given ink set may be usable in several different modes. For example, consider an installation of two sixcolor C2M2YK sets of ink. Page 64 4. Press the C and p keys to select the ink

type, then press the D key. The control panel displays the Select Color Map screen. At the top of this screen are the color sets that are valid for the number of heads per color you selected. Page 66 registration "Auto Calibrations" on page 419 before printing. 10. Install the Color Map card that corresponds to the mode you selected into the plastic sleeve on the printer's top cover. Refer to the Color Map card to help you load inks into the correct locations. See the figure on page 35 for an illustration of a Color Map card. Page 67 Creating a Custom Color Map You can create a custom ink set that uses colors of your choosing, in the positions where you want to place them. 1. From the Front Page screen, press the Menu key to enter the menu system. 2. Press the pkey to highlight Configure Printer. 3. Press the E Menu In key to display the menu. 4. Press the p key repeatedly until Printer Options is highlighted. 5. Press the E Menu In key to display the menu. 6. Press the p key repeatedly until Create Custom Colormaps is highlighted. Page 68 Switching Between Ink Sets The inks are located in specific numbered locations on the printer for optimal print and color quality. The software ignores ink positions that are not needed for a print mode, so any ink or no ink can be present in these positions. This provides flexibility while minimizing the need to swap or reposition inks. Page 70 Installing Ink for the First Time in a New Printer When you receive a new printer, numbered empty ink tubes are preinstalled at the factory.

This prepares the printer to accept ink reservoirs and printheads with any ink type or color set. It also avoids introducing air into the ink, which would occur gradually if ink tubes filled with ink were installed and stored unpressurized without an ink reservoir connected. Page 71 reconnect any tubes that are removed and stored to the correct ink reservoir and printhead. 5. If not preassembled, insert the drain tube into the connection on top of the drain bottle. Fig. 37. Assembling the drain tube to the top of the drain bottle. 6. Place the drain bottle on the floor and tape the drain tube to the dryer tube, providing a descent from carriagelevel to the drain bottle. Fig. 38. Page 72 7. Referring to the Color Map card, place an ink reservoir into its numbered position 1 through 12 in the ink tray. Be sure to insert the profiler into its port in the ink tray. Work with the ink reservoir, tube, and printhead that correspond to one position at a time. This will help prevent crossconnecting components. 8. Referring to the Color Map card, affix the labels showing the ink color and ink type onto the connectors of the ink supply tube see Fig. 33 on page 35. 9. Page 73 The ink should flow for a few inches into the drain tube, then stop. If the ink continues to flow, this may indicate that the seal between the printhead and the supply tube is faulty. Replace the supply tube see "Replacing An Ink Tube" on page 322 for instructions. If ink leaks out of the seal between the supply tube and the printhead, replace the supply tube. If ink does not flow out of the ink module into the supply tube, the seal between the ink module and supply tube may be faulty. Page 74 15. Install the printhead into the carriage. Install the printhead into the correct position. You can use the builtin handle to help position the printhead. 16. Repeat steps 7 through 15 for each ink tube you want to fill. 17. Close and latch the carriage covers. 18. Close the printer's top cover.

On the control panel Front Page screen, press the B Proceed key to park the printhead carriage into the service station. See "Loading Media" on page 326 for media loading instructions. Page 75 Replacing Ink System Components Replacing an Ink Reservoir in an Idle Printer This section shows you how to replace the individual components in the ink system. Replacing an ink reservoir in an idle printer below. Replacing "hot swapping" an ink reservoir during printing page 320. Replacing a printhead page 321. Replacing an ink tube page 322 Replace an ink reservoir when there is insufficient ink to print, or when you want to use a different color or type of ink. Page 76 Replacing an Ink Reservoir During Printing "Hot Swapping" You can replace an ink reservoir during printing "hot swap" only with an ink reservoir of the same color and ink type. Caution When switching to a different ink color or ink type, wait for printing to finish, then replace the ink reservoir, printhead, and ink tube as a matched set. Failure to do so will contaminate the ink system and compromise performance or output quality. 1. Place the new ink reservoir near the reservoir to be replaced. 2. Page 77 Replacing a Printhead Replace a printhead when the printer. When the printer can no

longer compensate for missing or deflected jets by increasing the number of print passes, and you cannot recover these jets see "Cleaning Ink Jets" on page 53 for instructions. When the number of passes required increases print times to unacceptable levels. When switching ink color or type. To replace a printhead 1. Wait for the printer to stop printing. 2. Page 78 Replacing An Ink Tube To ink trays From printheads Fig. 311. Ink tube routing Replace an ink tube when switching ink colors or types, or if the ink tube leaks. The Front Page screen appears. 3. Press the Carriage button. The printhead carriage moves out of the service station. 4. Open the printer top cover. 5. Disconnect the ink tube from the ink reservoir.

The tube automatically seals when you disconnect it. This prevents ink from spilling out. 6. Depress the lock levers to unlock the penholder assembly, and swing the carriage up to expose the printheads. 7. Page 80 Ink tray Tube guides inside the tube chain shown empty with cable Tube guides along rear of printer Fig. 312. Page 81 12. Fill the empty ink tube by following steps 10 through 12 beginning on page 316. Caution Always fill an empty ink tube with ink before connecting it to a printhead. Attempting to print with an empty ink tube connected to a printhead will result in enough air to be introduced to cause the printhead to fail. This condition may be recoverable by purging the cartridge of air see "Purging the Printheads" on page 514 for instructions. 13. Page 82 Loading Media Wear cotton gloves during this procedure, or handle the media only by its very outside edges. This will prevent skin oils from being deposited on the media, which could render output guality unacceptable. Tip For best results, use genuine ColorSpan media. All ColorSpan media is provided on twoinch cores in lengths to ensure accurate media advance. Caution Do not store or rest a media roll on either end before loading it onto a spool. Page 83 4. From the rear of the printer, load the media and spool into the printer's supply spool holder. Press the home side of the supply spool into the home side holder on the left from the rear of the printer, then swing the far side of the supply spool into the far side holder on the right. 5. With your right hand, feed the leading edge of the media into the printer's pinch rollers and hold it in place until the following step. If loading 72 inch media, see "Loading 72Inch Media" on page 331. Page 84 8. On the Front Page screen of the control panel, press the Load Media key. The control panel prompts you to press the B key to load media, or n to cancel. 9. Press the B key to proceed. The control panel prompts you to advance the media. 10.

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