SubliJet IQ™

Getting Started Guide

For EPSON Stylus® Photo R1900

SubliJet IQ ™

Getting Started Guide for the EPSON Stylus® Photo 1900

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- Keep out of reach of children.

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Introduction

Congratulations on your purchase of the **SubliJet Ink System** with **SubliJet IQ**® digital transfer inks. This system for the **EPSON Stylus**® **Photo R1900** is the latest advancement from **Sawgrass Technologies, Inc.**, a leader in the development of digitally driven color transfer technologies and related products.

Your **SubliJet Ink System** includes: **SubliJet IQ**® inks and **PowerDriver R1900 XG**⁸® color matching software. This revolutionary, comprehensive system takes sublimation to the professional level, allowing users to create perfect transfers with minimal effort. With true six-color printing, the **SubliJet XG**⁸® **System** increases color gamut, creates noticeably smoother gradient transitions, captures finer detail and adds color depth. The **Red** and **Orange** ink colors create the ultimate photo advantage with more realistic flesh tones and improved image quality.

With this system, your printed images can be transferred onto any product designed to accept sublimation dyes including: ceramic, metal, tiles, mylar, polyester fabric, performance wear, **UniSub**®, and **Hanes Soft L'Ink**® **T-shirts**, resulting in an attractive, durable product. Your imagination is the limit for producing brilliant, near photo-quality images on caps, clipboards, clocks, mugs, mouse pads, plaques, puzzles, synthetic t-shirts, and more. **SubliJet IQ**® **Ink** is ideal for markets that personalize, customize or create short-run output.

This document contains information for using **SubliJet IQ**® inks and helpful tips are also provided for getting the best results from your transfers. The information provided pertains only to the use of **SubliJet IQ**® in your **EPSON Stylus**® **Photo R1900** printer. If you have questions about the operation of your **EPSON** printer, refer to the **EPSON Stylus**® **Photo R1900 Printer User's Guide**.

Technical support is available from your **Authorized SubliJet** reseller or directly from **Sawgrass Technologies, Inc.** See the section entitled **Technical Support** for additional information.

We at **Sawgrass** strive to provide you with the tools to make the sublimation process easy to learn and simple to master. We hope you will find that the tools we have developed will make your years in the sublimation business fun and profitable. Please feel free to contact us with your feedback about our products. For additional information on our other products, visit our web site at www.sawgrassink.com.

Thank you and enjoy your **SubliJet Ink System**.

About this Document

This document contains descriptions and procedures for using **SubliJet IQ**® inks, along with additional information for getting the best results from your transfers.

The documentation provided pertains only to the use of **SubliJet IQ**® inks in your **EPSON Stylus**® **Photo R1900** ink jet printer. To assist you in the overall setup process, references are made back to the **EPSON Stylus**® **Photo R1900 Printer Basics Guide** for instructions.

To help point out important information, specific instructions, and helpful tips look for the following symbols:

Indicates **Must-Do** items, including warnings and important guidelines. **These must be followed to prevent damage to your printer.**

Indicates suggestions for **Efficiency** or **Reliability** in printing and sublimation.

Indicates Tips for approaches to differing substraits, **Quality, Quantity,** or **Economy** in printing and sublimation.
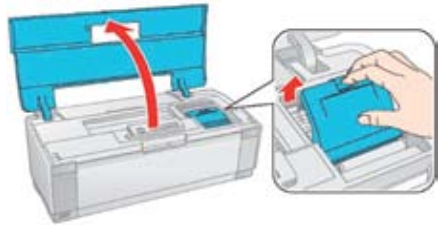
Ink Cartridge Setup for the R1900

1. Plug the **Power Cable** into the **Printer** and the appropriate power outlet. **Turn Printer On**, lift lid, and press **Cartridge Replacement Button.**
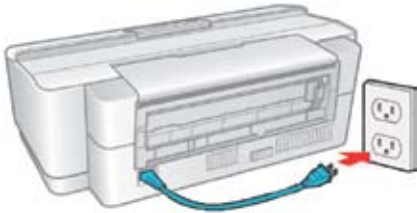
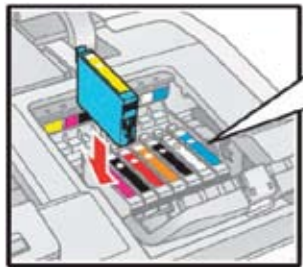**2.** The cartridge bay will shift into the **"Remove"** position. Lift the bay lid and remove any installed cartridges.
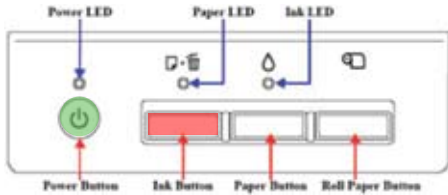
Control Panel Graphic

3. Insert the **SubliJet IQ**® cartridges in the indicated order.

CAUTION: Do not shake or agitate ink carts before or after installation.

Y M M R O P G C
      K   K O

INSTALLATION ORDER

4. Press each cartridge body until it engages securely. Once all cartridges are in place, close the cartridge bay lid and press to engage.

5. Press the **Ink Button**. (Please see **Control Panel Graphic** above.) This will move the **Print Head** into it's **"Parked"** position, completing the **Ink Cartridge Installation** for the **R1900 Printer**.
Next on the agenda is the loading of the software, **PowerDriverR1900XG8®**, for the **Epson Stylus® Photo R1900 Inkjet Printer**.

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QuickConnect® BULK INK SYSTEM Installation Guide

READ THIS!

Please read this document thoroughly before installing the system to prevent voiding your warranty. For more detailed instructions please refer to the Epson R1900 Getting Started Guide or the Video Installation Guide on the Software CD provided.

BULK INK SYSTEM QuickConnect® Installation: Preparation

### Check to ensure you have all components shown in both of the pictures.

1. (**1**) **Ink Box** with **Ink Multi-Cartridge & Tubes** attached.
2. (**1**) **Tube Support**.
3. (**1**) **Side Tube Support**
4. (**8**) **Individual Ink Bags**.

6. **Rubber Gloves.**
7. (**8**) **Syringes** for **Priming** (Not Shown).
8. **Power Driver CD** (Not Shown).

BULK INK SYSTEM QuickConnect® Installation: Setup

1. Clamp the feed tubes at the box end of each line to prevent ink from entering the line as you are clipping the ink bags onto the connectors in the box wall. Insert the ink bags into the reservoir box by lipping them into the connectors on the inside wall of the box. Each section inside of the reservoir is marked with the color ink that should be attached at each connector.
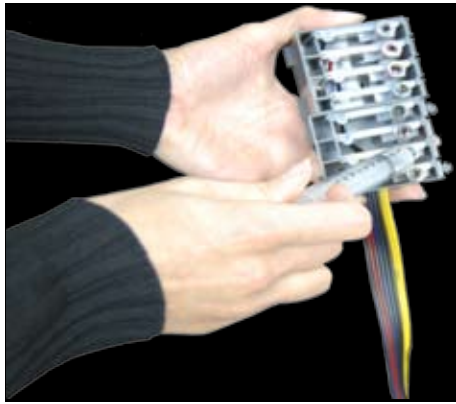
2. Use the priming syringe to prime each line. To do this, fill the syringe with the correct color ink. Squeeze all air from the syringe, then insert it into the bottom of the cartridge to begin the priming of the line and cartridge body. Do this for each color required. Pay careful attention to the order of the colors.

3. Turn the printer on and press the cartridge replacement button.

4. The cartridge bay will shift to the remove position. Remove any installed cartridges.

5. Remove the cartridge cover by using a screw driver to unclip one side.

6. Then twist, and push the other side to pull the cartridge cover completely out.

7. Press the **"Ink" Button** to release the **Cartridge Carriage Unit** from the **Docking Station**.

8. As the **Docking Station** releases the **Cartridge Carriage Unit**, push it manually toward the center of the printer.
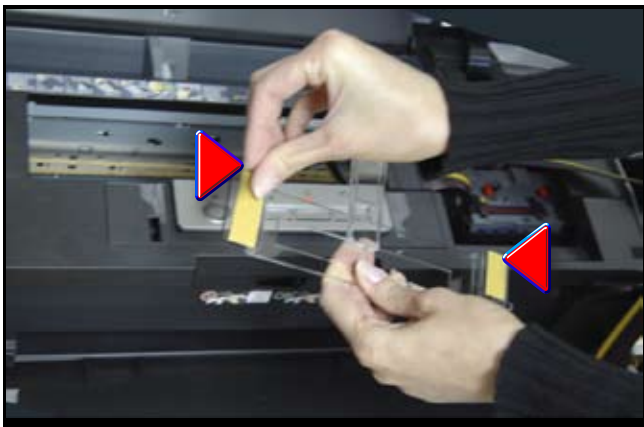

9. Insert the primed **Multi-Cartridge Unit** in place by tilting it down toward the front of the printer and sliding it into the **Cartridge Carriage Unit** at an angle as shown above.

10. Once the **Multi-Cartridges** are in place, push them on both sides until they **"click"** into place.

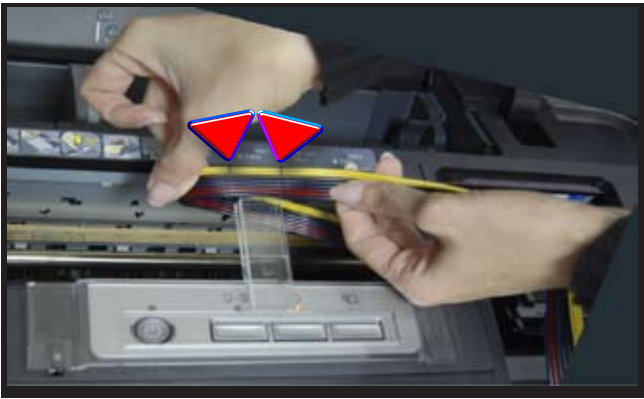**11.** Manually push the **Cartridge Carriage Unit** back into the **Docking Station**.

12. Remove the backing from the Plexiglas Tube Holder.

13. Connect the Tube Holder so that it "bridges" the Printer Control Panel as shown above.

14. Insert the **Tubing** into the **Tube Holder** with the black tube entering first & keeping the black lines on the tubing aligned with the edges of the **Tube Holder**.

15. Be sure to nestle the **Tubing Belt** as deeply as possible into the **Holder**. Maintain a relaxed elbow as the **Tubing Belt** bends around to attach to the **Cartridge Carriage**.

16. Attach the **Short Tube Holder** to the *Right Side* of the **Printer** where the **Tube Belt** hangs to enter the **Ink Box**.

17. Press the **"Ink Out" Button** again so that the printer recognizes the installed ink cartridges.

18. Congratulations! You have **successfully** installed the **R1900 QuickConnect®** **Bulk Ink System**.

BULK INK SYSTEM QuickConnect® Installation: Tips

- Make sure you install **PowerDriver** from the **CD** youreceived with your **QuickConnect® Bulk Ink System**.Refer to the **PowerDriver Documentation** and the **Video Tutorial** on how to use **PowerDriver.**

- Perform a **Nozzle Check** from **PowerDriver**. A few cleaning cycles may be necessary to get a good **Nozzle Check**.

- You may want to employ the clear plastic holders to reliably prop open the printer lid so that it remains open all of the time.

- There may be small pockets of air in the lines after setup. If so, these will clear after a few prints are run.

- If the **System** is to be dormant for several days, use the **Tube Clamps** to seal the lines at the **Reservoir Box**.

Selecting Paper

For information on selecting the appropriate paper to use with your SubliJet IQ™ inks, please check our website at http://www.sawgrassink.com or call your authorized SubliJet reseller. While the use of copy paper or other inkjet paper will not harm your printer, the transferred results may be light, splotchy, or uneven. Some papers may even stick to the surface or leave a visible residue.

Heat Transfer Instructions

Because you can print on a variety of surfaces, you need to take all variables of the surface into account when selecting time, temperature, and pressure. Some of the variables are:

- Thickness of surface.
- Heat absorption; how fast the surface absorbs heat.
- Coatings used on materials to create a receptive surface for sublimation inks. (Ceramics, Metals, Plastics, etc.)
- Accuracy of heat press unit. (Time, Temperature, and Pressure)

The information listed below are only guidelines. Due to the differences in heat presses and the various materials you will be printing on, it is not possible to give absolute figures. You should check with your supplier for specific heat transfer instructions or experiment to find your own preferred settings.

SURFACE	Transfer Time SubliJet	Transfer Time SubliJet IQ	TEMP	P. S. I. PRESSURE	REMARKS
CERAMIC	150-210 Seconds	150-210 seconds	350-400°F	40 psi	Time varies with press, use green tile mat for ceramic tile
FR PLASTIC	33 seconds	75-80 seconds	400°F	40 psi	Remove Plastic
METAL (Other) White, Silver, Gold	40 seconds	60 seconds	375°F - 400°F	40 psi	Time varies with metal manufacturer (Contact your reseller for correct time and temperature) Place absorbent sheet on bottom plate of heat press. Then place transfer paper face up on top of the absorbent. Next place the substrate face down on top of the transfer paper. Remove paper from substrate immediately after transferring for best results.
METAL (Universal Woods)	40 seconds	60 seconds	400°F	40 psi	Use absorbent, remove plastic
MOUSE PADS	25 seconds	45 seconds	400°F	40 psi	
POLYESTER FABRIC & PERFORMANCE APPAREL	25 seconds	45 seconds	400°F	40 psi	
SOFT L'INK™	25 seconds	35 seconds	400°F	40 psi	Press for 5 secs to eliminate moisture, use Teflon sheet between sides of shirt to prevent "blow through"
UNISUB™ PRODUCTS	75 seconds	75-85 seconds	400°F	40 psi	Remove Plastic

Notes:

POWER DRIVER®
R1900 XG⁸
VERSION 2.1.6

SUBLIJET XG8 COLOR MANAGEMENT DRIVER FOR THE EPSON R1900 - 8 COLOR

Getting Started Guide

For the
EPSON Stylus® Photo R1900 Inkjet Printer

For Distribution With
SubliJet IQ® Ink ONLY
NOT FOR RESALE

Revision 1.0

Introduction

Using **PowerDriver R1900 XG⁸®**

SubliJet digital printing systems are comprised of a few key tools to ensure high quality output each time you print with **SubliJet IQ Inks**. **PowerDriver R1900 XG⁸** color management software is one of those tools.

PowerDriver R1900 XG⁸ color management software is a professional grade color management program that provides **SubliJet** users with the necessary tools to ensure colors print right the first time. **PowerDriver R1900 XG⁸** software is available for all major **Windows** based operating systems. To be sure of system compatibility, please visit us at http://www.sawgrassink.com/v.php?pg=296.

PowerDriver R1900 XG⁸ software and profiles are intended to give you simple, easy to use color management tools to take the guesswork out of sublimation printing. With the click of your mouse you can automatically optimize colors for popular substrates like **Unisub™**, **Soft L'ink®**, ceramics, metal, and many others. This is a valuable tool that saves you time, money, and limits your need for costly sampling trying to get the job right.

PowerDriver R1900 XG⁸ also comes standard with the **ColorSure Palette** matching system. The **ColorSure Palette** is absolutely the best way to achieve spot color accuracy in sublimation transfers. The palette includes more than 170 colors that, when loaded into your graphic design software, allows you to fill solid portions of artwork with a color from the palette, thus knowing how it will look once transferred. With the help of the **ColorSure Palette**, you will successfully choose the correct colors, whether you are matching colors for a custom order or selecting colors for new artwork.

PowerDriver R1900 XG⁸ is the most advanced color management software available on the market for digital transfer systems. This software was developed specifically for desktop sublimation systems; you will discover enhanced functionality as well as a new level of color output when **PowerDriver R1900 XG⁸** is used. Used in conjunction with **SubliJet** digital transfer inks you and your customers will truly experience the next generation in digital color!

PowerDriver R1900 XG⁸® System Requirements

Minimum Hardware:

Pentium 4 – 2.0GHz or Athlon XP 2000+ Processor
512 MB System Memory

Recommended Hardware:

Pentium 4 – 3.0GHz or Athlon XP 2500+ Processor
1 GB System Memory

Required Operating System:

Microsoft Windows XP & Vista (32 Bit only)

# Setup Instructions

Product Overview

PowerDriver is color management software that has been written as a **Windows** printer driver. It is designed to work with **Epson ink-jet printers** and **Sawgrass sublimation ink**. The installation program will automatically install **Sawgrass** color management software, the **Sawgrass PowerDriver R1900 XG**[8®] printer driver software, and **ColorSure** tools and utilities. For instructions on installing **PowerDriver R1900 XG**[8®] see the **PowerDriver R1900 XG**[8®] **Step by Step Installation** documentation starting below.

## Quick Start Installation

1. Unpack and setup printer as described in the Epson manual.

2. Install the Epson printer driver and verify printer operation.

3. Insert the **PowerDriver CD** into the **CD ROM** drive on the computer and install the **PowerDriver R1900 XG**[8®]. Follow the on-screen instructions.
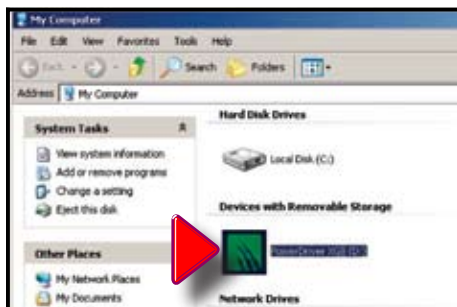
Locate the **CD-ROM** & double click on it.
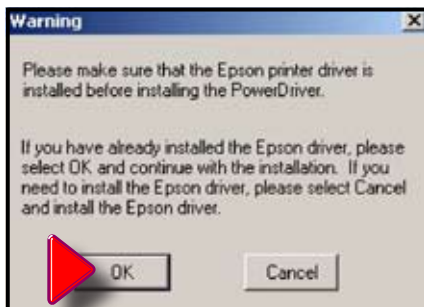
Confirm the installation of the **Epson Printer Driver** prior to installing the **Power Driver**.
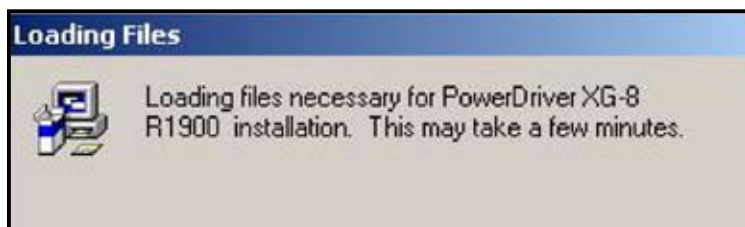
You will then be notified that the files for the **PowerDriver R1900 XG**[8®] may take some time to be downloaded & installed, depending on the efficiency of your unit.

PowerDriver R1900 XG8®

Step by Step Installation

To get started printing as soon as possible, these are the Sawgrass recommended steps to perform while setting up your sublimation printer driver software.

1. Setup the printer according to the Epson instructions.

2. Insert the **PowerDriver R1900 XG**8® **CD** into your **CD ROM** drive. The installation program should run automatically. (If the program does not automatically run, click **Start**, **Run**. Browse to your **CD-ROM** drive and click on **Setup**).

3. The **Welcome Screen** is displayed next. Click **Next** to proceed.

5. The **License Agreement** is displayed next. Select the appropriate choice for acceptance of the **Licensing Agreement** to continue.

6. If you have not previously registered the **PowerDriver R1900 XG[8]**, you will be prompted to do so. Registering is the only way to take full advantage of the advanced features in **PowerDriver R1900 XG[8]**. If you choose to register now, the registration screen will be displayed. To obtain your registration code you may do so in one of the following ways:
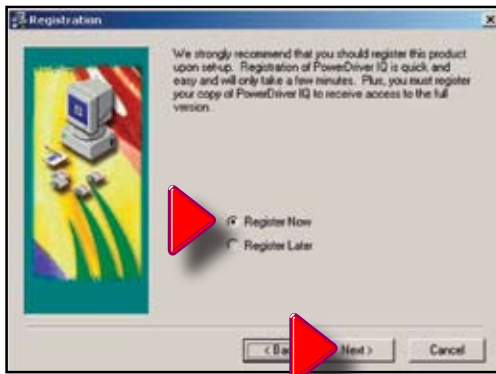

Figure 1

a) Register on-line and receive your registration code via e-mail.

b) Call **Sawgrass Technologies, Inc.** directly **(888) 253-1679** and obtain your code over the phone.

c) Send a fax and receive your registration code by fax.

If you choose to register later, select **Register Later** and click **Next** to proceed with the installation. You will have **five days** to use the program before registration will be required for continued usage of the software. After five days, if you attempt to print using the **PowerDriver R1900 XG8** software, you will be prompted to register.

7. To register, fill in the **radio button**, (as shown in **Figure 1** below), and click **Next.**
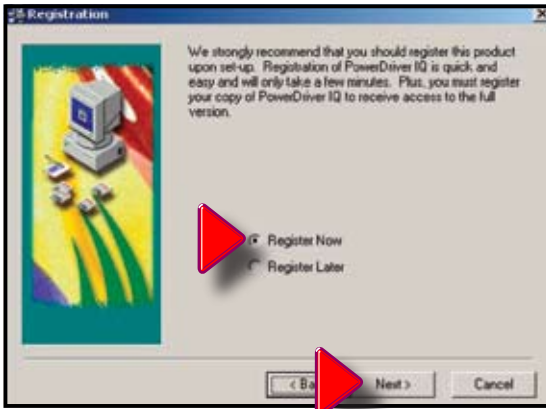

Figure 1

8. In the **Power Driver XG8 R1900 Registration Screen,** (**Figure 2**), you will use your **Product ID** (displayed at the bottom of **Figure 2**), to obtain a **Registration Code**. You will need a separate **Registration Code** for every machine on which **PowerDriverR1900XG8** is installed. In **Figure 2**, click on the button labeled "**Click Here to Obtain Registration Code**".
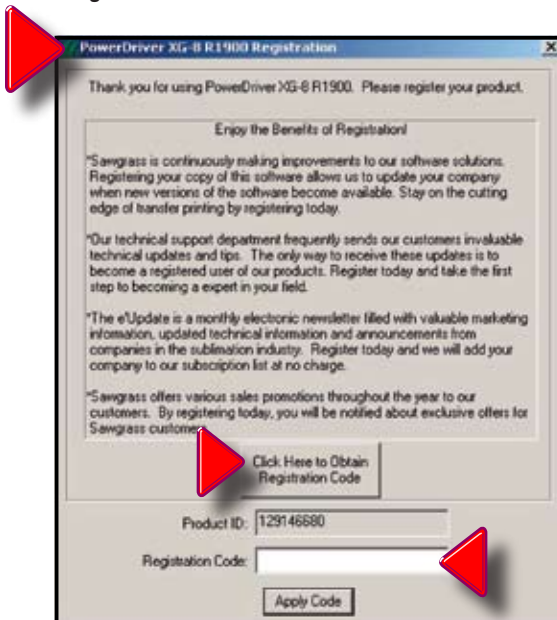

Figure 2

9. The **Product Registration Web Page** now opens. Complete the requested information on the web page and click **Continue**.
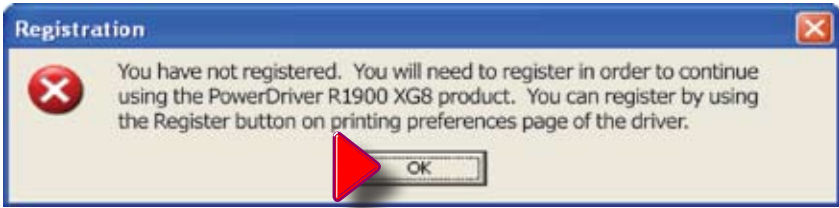

10. Once the website registration information has been completed, a **"Thank You"** message will appear. An e-mail will be sent to the address you specified. Retrieve the registration e-mail from your in-box and make note of the **Registration Code** given. Toggle back to the **PowerDriver R1900 XG⁸ Registration Screen** and enter this number in the **"Registration Code" Box** at the bottom of the "**Power Driver XG⁸R1900 Registration**" screen shot shown on page 12. Click **"Apply Code"**. Screen will appear indicating that you have successfully registered your driver software. Click **"OK"** to continue the installation process.
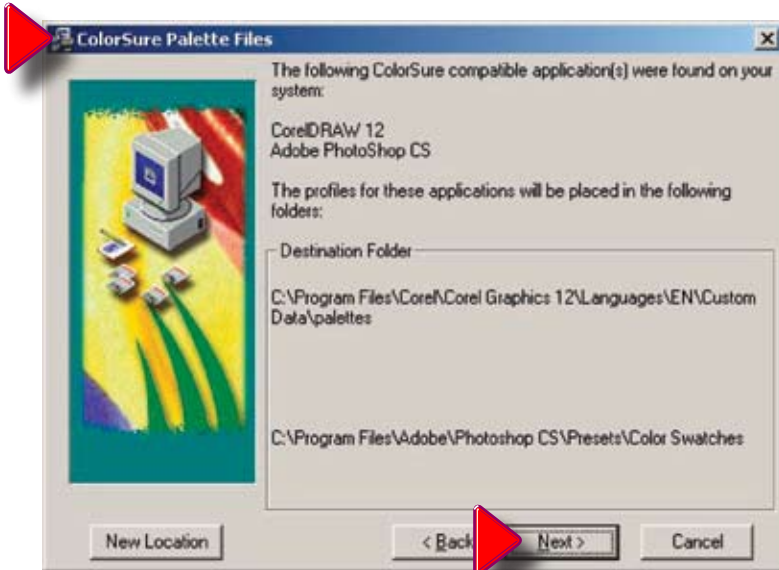
If you decide to register later, and continue using the driver during the initial **five day pre-registration grace period**, your system will generate the following **Pop-Up Screen**. Go to the printing preferences page of the **PowerDriverR1900XG[8]** driver and click on **"Register."**

Registration   ✕

You have not registered. You will need to register in order to continue using the PowerDriver R1900 XG8 product. You can register by using the Register button on printing preferences page of the driver.

OK

11. **Sawgrass Technologies, Inc.** provides **ColorSure Color Palettes** for use with **Corel®,** (See page 20) and **Adobe®,**(See pages 21-24). (Check the **ColorSure** section of the manual for information on how to use **ColorSure** to get perfect spot colors). If Setup detects either of these applications on your system, the **Palette Files** will be placed in the appropriate folder indicated in the **Destination Folder Box.** Click **Next** to proceed with the installation.


ColorSure Palette Files   ✕

The following ColorSure compatible application(s) were found on your system:

CorelDRAW 12
Adobe PhotoShop CS

The profiles for these applications will be placed in the following folders:

Destination Folder

C:\Program Files\Corel\Corel Graphics 12\Languages\EN\Custom Data\palettes

C:\Program Files\Adobe\Photoshop CS\Presets\Color Swatches

New Location   < Back   Next >   Cancel

Note: In order to use **PowerDriver** as your **Color Management Software**, the color management features in either **Corel®** or **Adobe® Programs** must be **disabled**. Please see the instructions in **Appendix A**, (page 20), or click on the **"Show Me How" Button** on the **"Color Management Check" Screen** shown in **Item 10** below.

12. The **Color Management Check** screen will appear. Click the **"Continue"** button on the left side of the screen after you have disabled the **Color Management** feature of the **Corel** or **Adobe** Graphic software. Click **"Show Me How"** if you need instructions on how to accomplish this.


13. The **PowerDriver R1900 XG⁸** installation program will attempt to use **Plug-N-Play** to determine the port that the printer is connected to. Click **Next** to continue.
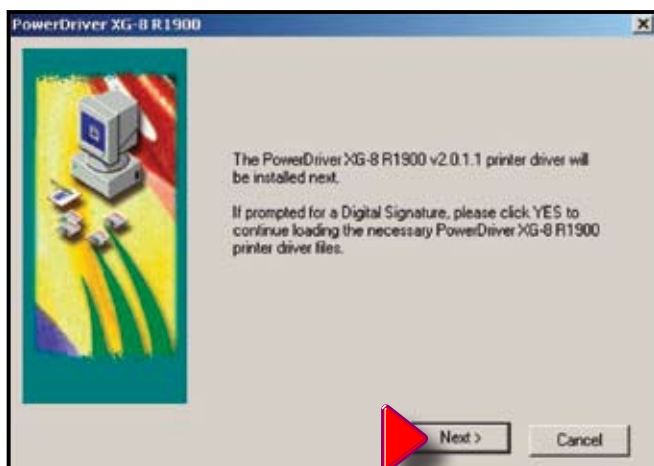

Note: Cancel any **'Found New Hardware'** wizards that may start during this process, do **NOT** cancel any file copy process however.

14. If you see the **"Hardware Installation" Screen** below, click **"Continue Anyway"** to proceed with the Installation.
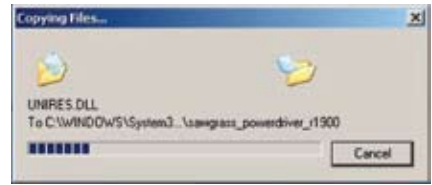
15. If the installation program cannot locate the printer port, you will be given the opportunity to choose the port for the product you are installing.
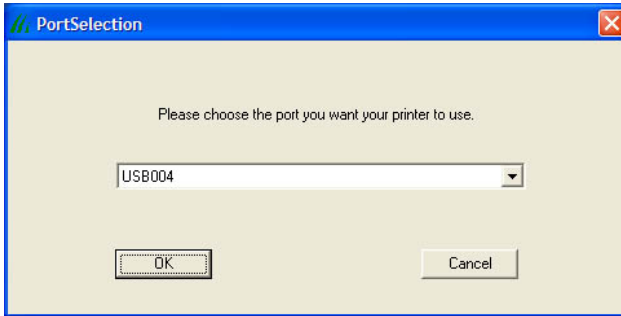
16. Once the installation has completed, the **"Installation Complete" Screen** will display. Click **"OK"** to end the installation.

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Using PowerDriver R1900 XG^8 in Windows 2000 / XP

PowerDriver R1900 XG^8 is simple to use. Whenever you have **SubliJet IQ** inks in your printer, you should print using **PowerDriver R1900 XG^8**. Do not print to your **Epson Printer** with the **Epson Printer Driver** since printing with the **Epson Driver** will not give you the benefit of color management.

Quick Start Example (CorelDRAW)

1. Open/Create an image in **CorelDRAW**. Select **Print** from the **File Menu**.
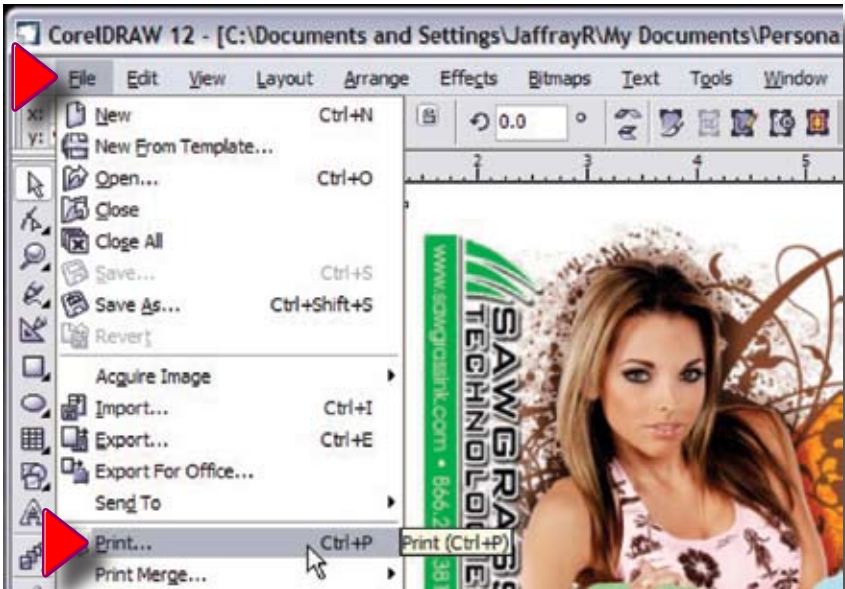
Note: Please see **"Group 2 - Color Options"** on page **18** for more in-depth information on color options available within the **PowerDriver XG-8 Software**.

2. Select the **PowerDriver R1900 XG8 Printer**. Use the **Properties Button** (Figure 1) to access the **"PowerDriver XG-8 R1900 Document Properties" Screen** so that you can set the **Size, Substrate, Color, and Resolution** that your image requires. (Figure 2) Click **"OK".**
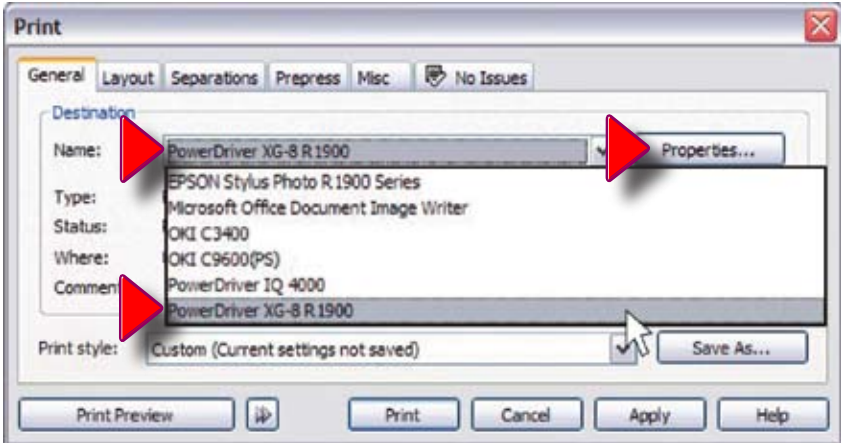

Figure 1

3. After setting the **Size, Substrate, Color, and Resolution** that your image requires, Click **"Ok"**, which returns you to the **CorelDRAW "Print" Screen**.
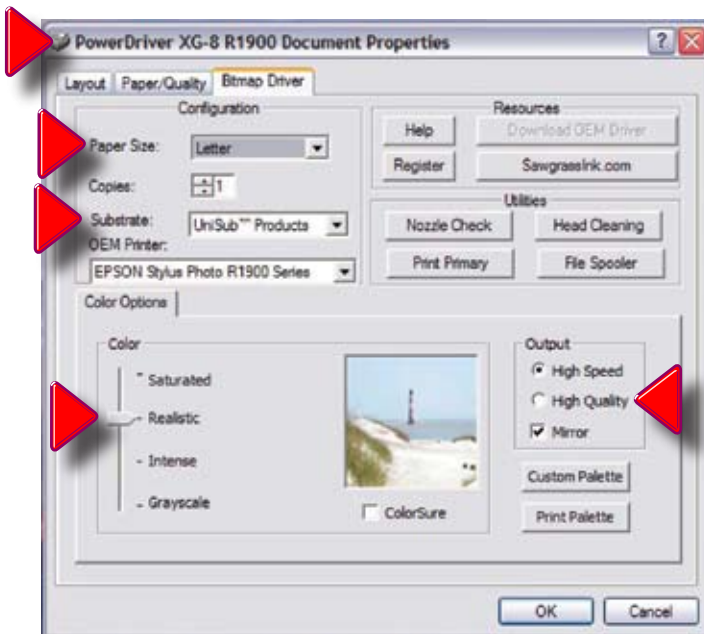

Figure 2

# Setting PowerDriver R1900 XG8 Document Properties

To configure **PowerDriver R1900 XG8** for the correct substrate, you must display it's **Document Properties**. There are two ways to display the **Document Properties:**

From the Windows Desktop:

1. Click on **Start> Printers and Faxes**.

2. Right-click on your **PowerDriver Printer** (**Pointer #1**) and select **Properties** (**Pointer #2**) from the **Pop-Up Menu**. This takes you to the **"PowerDriver XG-8 R1900 Properties" Screen** shown in **Figure 1** below. Click on the **"Printing Preferences" Button**, bringing you to the **"PowerDriver XG-8 R1900 Printing Preferences" Screen (Figure 2)**. After setting the **Size, Substrate, Color, and Resolution** that your image requires, Click **"Apply"**, then **"Ok"**, to return to the **"Properties" Screen**. Click **"Ok"** to return to the "Printers" List.
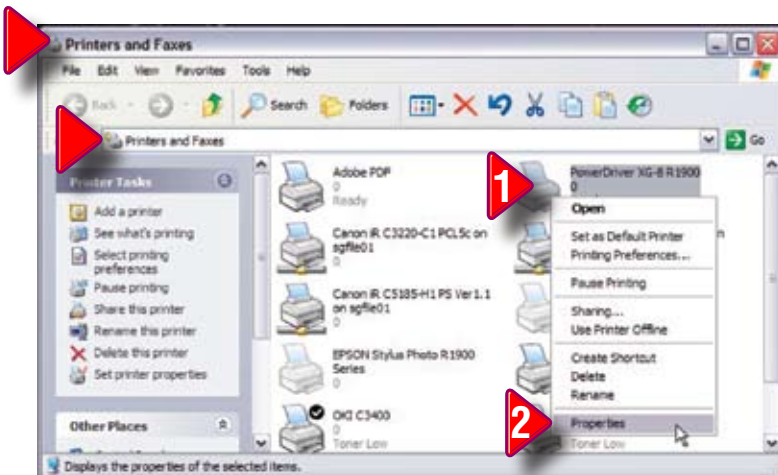
From an Application:

1. Select **File**, **> Print Setup**.
2. From the **"Print Setup" Screen**, choose the **PowerDriver R1900 XG[8]** from the scroll-down list. Click the **Properties Button**. (Please see **Figure 3**, Page. **20**)
3. Now you've accessed the **"PowerDriver XG-8 R1900 Document Properties" Screen.** (Please see **Item 5**, and **Figure 2,** on page **15**. When you are done here, clicking **"Ok"** will return you to the "**Print Setup" Screen.**)

Figure 1
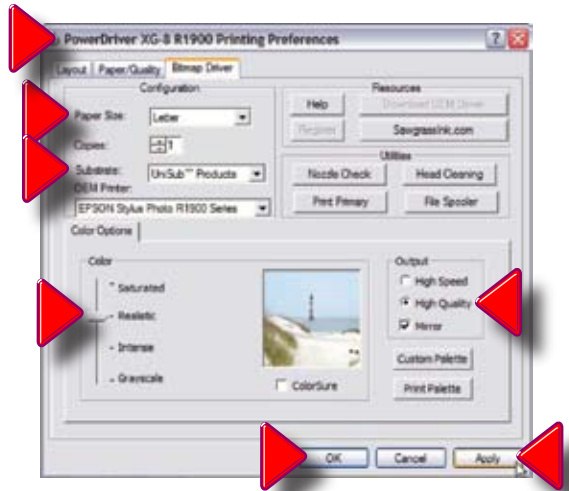
Figure 2
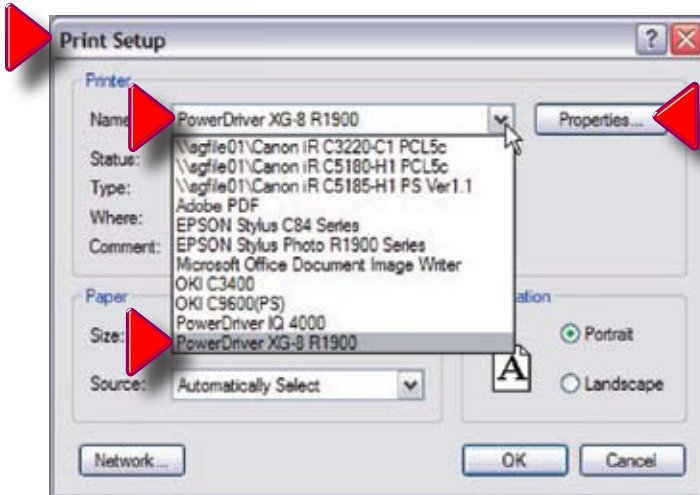
Figure 3

PowerDriver R1900 XG8 Printing Preferences Overview

The following figure shows the printer properties for a registered version of **PowerDriver R1900 XG-8 Printer Properties.**

There are three main property groups;

1. Configuration – Set Paper, Transfer Substrate, Copy Count and OEM Printer.

2. Color Options – Color Management Control Options & Print Resolution.

3. Resources – Utilities, (for printer maintenance), online Help, & Product Registration.
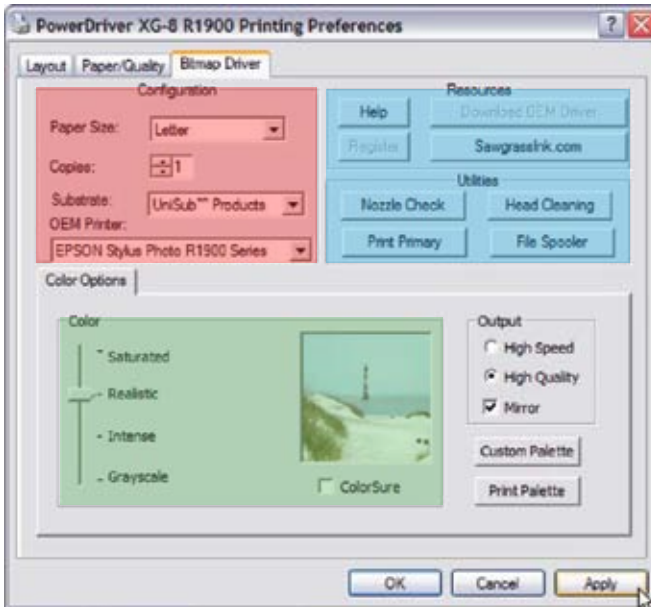
Group 1 – Configuration

Paper Size – From the drop down list, select the paper size you wish to use. To add custom paper sizes click the + button to the right of the paper size drop down list. Note: After adding a custom paper size, the printing preferences dialog must be closed and re-opened before the new paper size will show in the paper size drop down list.

Substrate – From the drop down list, select the type of material to which you will be transferring your printed image. It is important to choose the correct substrate. PowerDriver's color management is optimized for each different substrate.

Copies – Sets the copy count for the number of prints to be made.

OEM – Sets the OEM Printer Configuration for the printer used.

Group 2 - Color Options
Overview

This tab gives you access to all of the color management controls available in **PowerDriver R1900 XG⁸**. Utilizing the power of the **Epson R1900 Driver** technology, the **PowerDriver R1900 XG⁸** interprets bitmap and vector elements in a similar manner.

Vector and Bitmap Explanation

Bitmaps are a grid of pixels. Bitmaps come from digital cameras, scanners, and photo CDs. Bitmaps can also be created in applications like **Corel PhotoPaint** or **Adobe PhotoShop**. Bitmaps have file extensions like GIF, JPG, BMP, and TIF. Vector components consist of shapes, curves, lines, and text. They are created in programs such as **CorelDraw** and **Adobe Illustrator**. Higher end programs like **CorelDraw** can combine Vector and Bitmaps into a single image. The **PowerDriver R1900 XG⁸** will color correct all bitmaps files and vector components as bitmap images.

Bitmap Options

• **No Color Management** – To unleash the power of the **PowerDriver R1900 XG⁸ Software**, the color management will need to be turned **off** (**over-ridden**) in the **Graphic Software**. (Instructions on how to do this are provided in **Appendix A,** pages **20** thru **24**, covering **Corel** & **Adobe** Applications.) This facilitates optimum color management of SubliJet inks. If you select the **"No Color Management"** option, all color management will have to be accomplished using the Graphic Design Software, i. e. the Corel &/or the Adobe Applications.

• **Saturated -** Intended for use with clip art, text and other vector based graphics or images that contain saturated colors.

• **Realistic** - Intended for use with photographs or images that contain prominent skin tones or highlights.

- **Intense -** Select this setting to get the most intense color output possible.

- **Grayscale** - This setting is intended for use with grayscale images.

- **ColorSure Checkbox** - ColorSure is used to replace specific colors in your image with a spot color chosen from the ColorSure palette. This resulting spot color enhancement is not affected by color setting. A ColorSure spot color will **ALWAYS** print the same. (Please see **Appendix B**, page **25** for an overview of **ColorSure**.)

ColorSure Options

- **Print Palette Button** – Prints the ColorSure palette for the selected substrate. ColorSure is a tool for reproducing exact spot colors. The two main components are: **1)** The Transferred Palette, and **2),** The CorelDraw, Corel PhotoPaint, and Adobe swatches. For a complete description on how to use ColorSure to get perfect spot colors, see **Appendix B**.

- **Custom Palette Button** – This button launches the Custom Palette utility, which enables you to add, edit, import, and export custom colors to the ColorSure palette. If you need to precisely match a specific color, the Color Finder tool makes this a breeze. For a complete description on how to use the **Custom Palette**, see **Appendix B**.

Output Options

- **Mirror** – When you transfer an image, the result will be **"flipped"** when compared to the printed image. In order for your transfers to come out correctly, you must flip, or **"mirror"** the image before transferring.

- **High Speed** – If the printer supports multiple resolutions, choose the most appropriate setting. For soft substrates, the **High Speed** option works well.

- **High Quality** – If the printer supports multiple resolutions, choose the most appropriate setting. For hard substrates, choose the **High Quality** option.

Group 3 – Resources

- **Print Nozzle Check Utility** – Click this button to print a nozzle check pattern. If any of the nozzle check patterns are incomplete, then perform a print head cleaning cycle.

- **Perform Head Cleaning** - Performs a printer head cleaning, after which a **Print Nozzle Check** should be performed to verify that the heads are completely cleaned. **Repeat** the **Head Cleaning** until a complete nozzle check pattern is produced.

- **Help** – This will display a help dialog box for an easy overview of the **PowerDriver R1900 XG[8]** driver functions and settings. Also contains a link to the **Sawgrass Technologies** website.

- **Register** – If the **PowerDriver R1900 XG[8]** product has not been registered, click this button for instructions on how to register the product and unlock all the features.

- **Sawgrassink.com** – Links directly to the Sawgrass Technologies website for additional resources.

Appendices
Appendix A: Over-riding Graphic Software Color Management

PowerDriver provides a complete color management solution for your **SubliJet** printing. *It is extremely important that you turn off any color matching features associated with your design software.* An explanation of how to disable print-time color management in several popular design packages follows:

CorelDraw™ versions 10, 11, 12, X-3, and X-4.

• Create a new graphic.

• From the main menu choose **Tools**, **Color Management**. In the Color Management window (see figure below), set the Style option to Color Management Off.
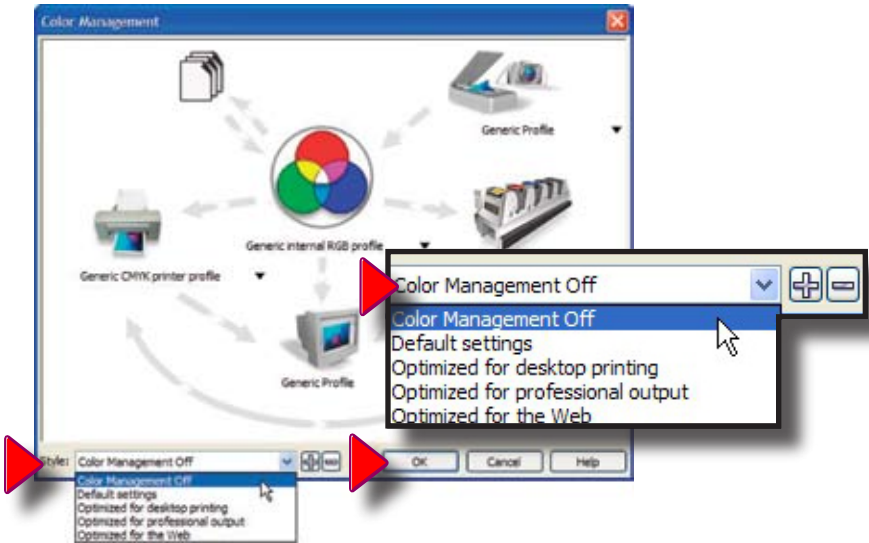
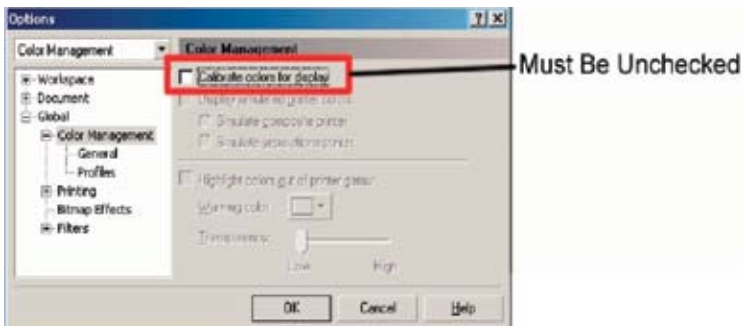### CorelDraw™ version 9

• Create a new graphic.

• From the main menu choose Tools, Color Management. The Color Management dialog box is displayed.

• In the Color Management window (see figure below), UNCHECK the Calibrate colors for display box.

Adobe Photoshop CS3, CS2, CS, Photoshop 7, and Photoshop 6:

Color Setup

From the **Main Menu**, choose **Edit**, **> Color Settings**. In the **Color Settings Dialog Box**, turn all **Color Management Policies** to **"Off"**. (See below.) Mark the box **"Ask When Opening"** next to "**Profile Mismatches**.

Please Note:

Screen shown is from **CS3**. Other screens will appear with **slight** differences, however the settings remain the same throughout.
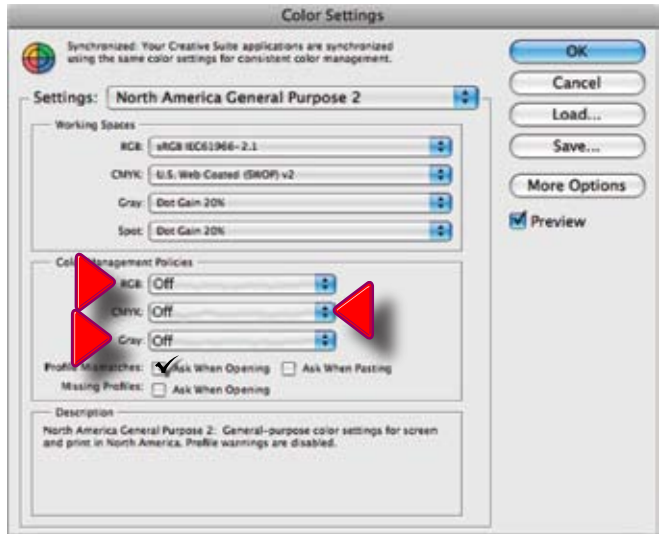
To Print; Adobe CS3:

Select **File, > Print**. On the print dialog page, set the options as follows:
- Upper Right Hand **Menu** to **"Color Management"**
- Choose **"Document"** by clicking the radio button.
- Under **"Color Handling"**, choose **"No Color Management"**
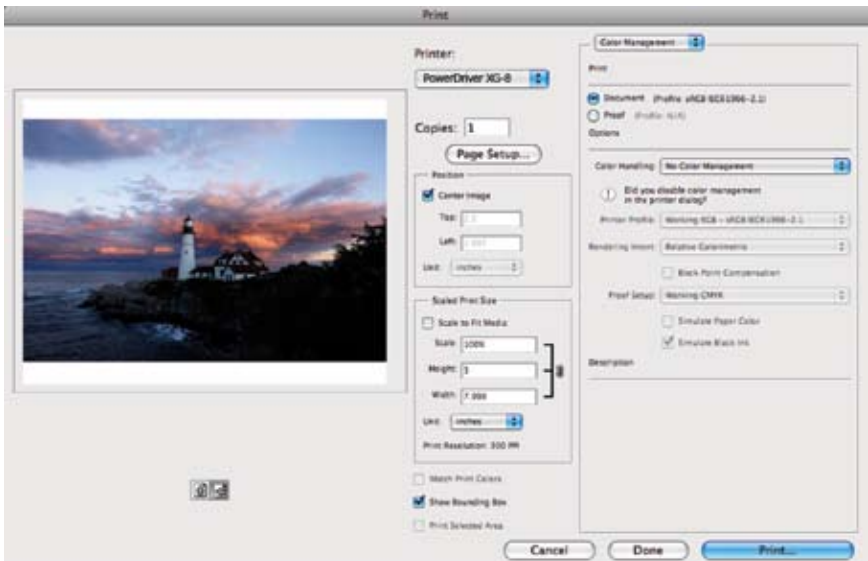
To Print; Adobe CS2,

Always select **File, > Print with Preview**. On the print dialog page, set the options as described in the following a thru d:

a. Click on **"More Options".**

b.   Choose **Color Management** in the drop-down menu.
c.   Choose **"Document"** by clicking the radio button.
d.   Under **"Options > Color Handling"** choose **"No Color Management".**

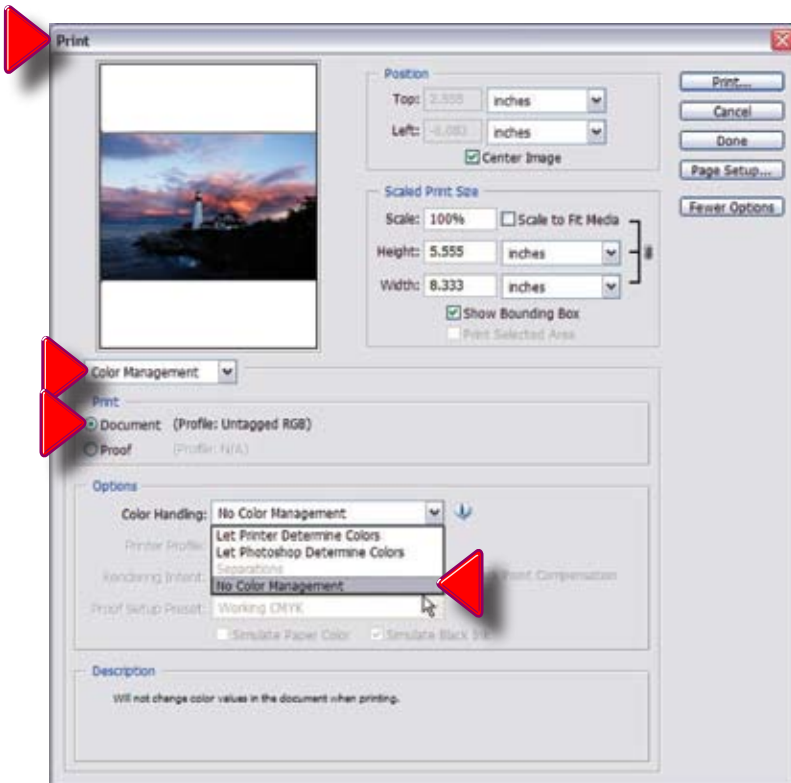## To Print; CS and Photoshop 7:

Always select **File, > Print with Preview**. On the print dialog page, set the options as described in the following **a** thru **d**:

- **a.** Click on **"More Options".**
- **b.** Choose **Color Management** in the drop-down menu.
- **c.** Choose **"Document"** by clicking the radio button.
- **d.** Choose **Same as Source** for **Print Space.**

From the **Color Management** drop option list, make sure that **Source** is set to **"Document"** and **Print Space** is set to **"Same As Source"**.
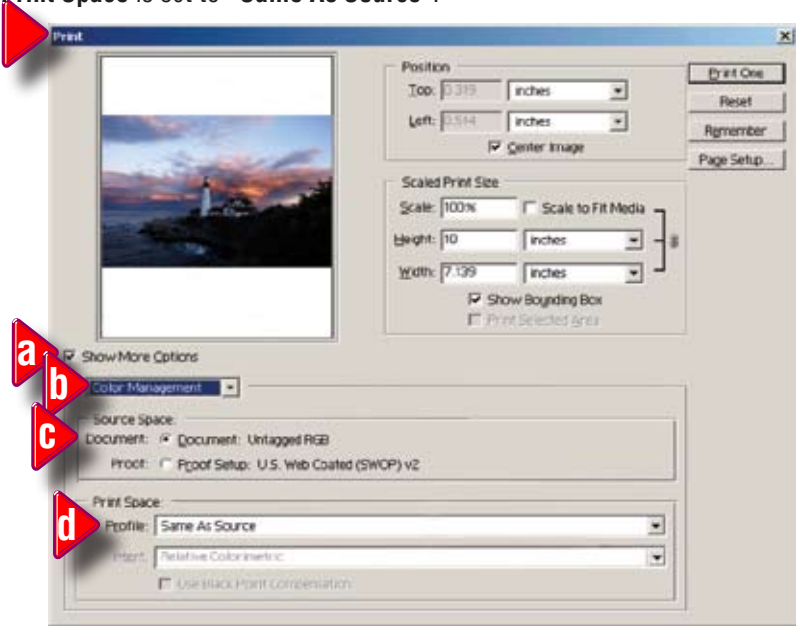
Adobe Photoshop Elements 5.0/4.0/3.0:

Select **Edit** and then **Color Settings** from the top drop down **Menu Bar**. Select **No Color Management**. Click **Ok**.
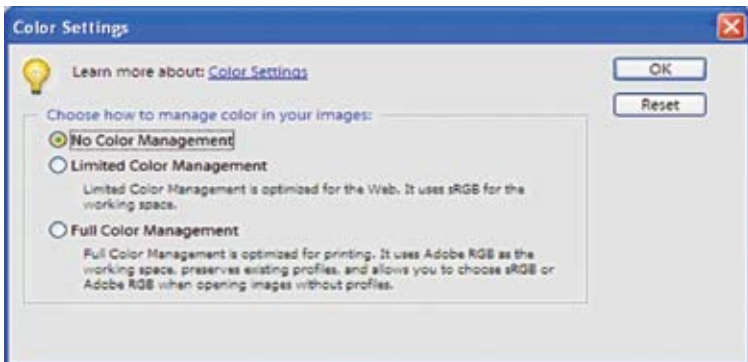
To Print RGB Graphics

Click **File**, **> Print**, then set the **Range, Print Quality, & Copies**.

Fill in radio button "**Document: Intagged RGB".**

In "**Print Space", "Profile"** should read: "**Same As Source".**

Press "**OK".**

To Print CMYK Graphics

Click **File**, **> Print**, then set the **Range, Print Quality, & Copies**.

Fill in radio button "**Document: Intagged CMYK".**

In "**Print Space", "Profile"** should read: "**Printer Color Management".**

Press "**OK".**

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Appendix B: Using ColorSure™ and Custom Palette in PowerDriver R1900 XG⁸®

I.   Introduction
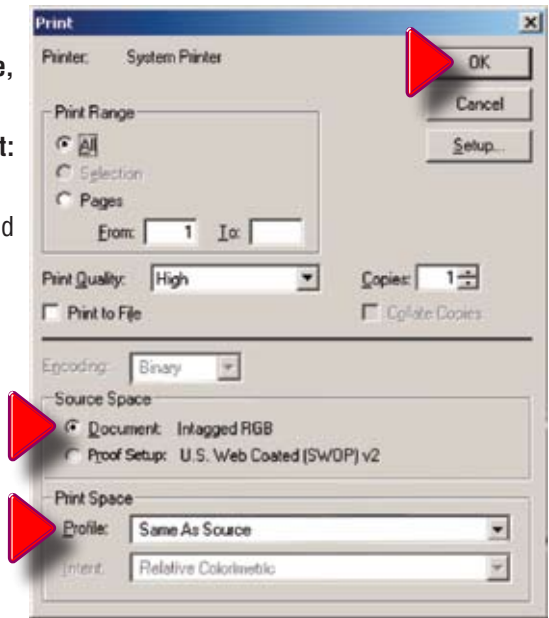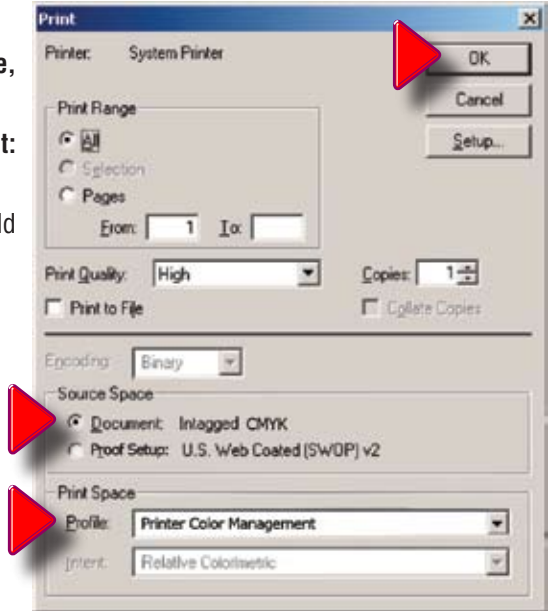
ColorSure is a method for reproducing exact spot colors. There are four main components of the **ColorSure System**: **1.)** The transferred palette; **2.) Color Finder**; **3.) Custom Palette**; and **4.**) The **CorelDRAW** and **Adobe** application palettes / swatches.

1. **ColorSure Palette:** This is your main color palette that includes 190 commonly used colors.

2. **Color Finder:** If a color you need is not on the **ColorSure Palette**, the **Color Finder** tool allows you to locate the exact custom color you are looking for.

3. **Custom Palette:** With the **Custom Palette** feature, you can add new custom colors to the existing **ColorSure Palette** mentioned in step **1**.

4. **Application Palettes:** You can add your **Color Finder** colors to an existing application palette, or you can add multiple custom colors to new, custom palette files (*.cpl, *.acl, etc.).

II.   Printing the ColorSure Palette

The first step you will want to take is to print and transfer your **ColorSure Palette** to the various substrates you will be using. Most likely you will have customers who desire precise colors. Having your **ColorSure Palette** available allows the customer choose the color from the palette that is the closest match to what they want, and this gives you a starting point for finding the exact custom color that will match your customer's needs.

To print the ColorSure palette, follow the steps below:

• Click '**Start**' and navigate to the '**Printers and Faxes**' folder. Right-click on your **PowerDriver** icon and select '**Printing Preferences**' from the menu. You may also open **PowerDriver** from within an **Adobe** or **Corel** program by going to **File**, **Print**, and choosing the **PowerDriver** Printer from the pull-down menu. Click **Properties** to open **PowerDriver**.

• Choose the paper size you will be printing the palette to (**Letter**, **Legal**, **etc.**)

• Choose the substrate that you will be transferring the palette to.

• Select the speed / resolution of the palette – **High Speed** or **High Quality**.

• Be sure to check the box to mirror your print, click '**Print Palette,**' and then transfer the palette to the previously selected substrate.

• You now have a visual representation of how the **ColorSure Palette** colors will appear on that particular substrate.

III. Designing Your Artwork

By picking colors from the **ColorSure Palette**, you will be able to consistently reproduce colors in a reliable manner. To assist you in designing your artwork, **PowerDriver** installs three palettes: two for **Adobe** products and one for **Corel** products. These colors match the palette that is printed from within **PowerDriver**.

- To open the **ColorSure Palette** in **Corel 9,10, 11, 12, X3, or X4** choose: **Window| Color Palette| Open Palette**. Select the file **"ColorSure Palette Corel."**
- To open the **ColorSure Palette** in **Illustrator**, choose **Window | Swatch Libraries | Other Library**. Navigate to where it was installed when you installed **PowerDriver**: **C:\Program Files\Sawgrass\PowerDriver\Adobe Illustrator** and hit **Open**. *For easier access to the **Palette**, **File-Copy** it from this [above] path to **Illustrator10\Presets\Swatches** and it will show up in your pull-down list directly under the **Swatch Libraries Menu**. Other versions of **Illustrator** will have similar steps.*
- To open the **ColorSure Palette** in **Adobe PhotoShop**, choose the **Swatches Palette**, click the option arrow on the palette, choose **Replace Swatches** and pick the "ColorSure PDIQXGv1.aco" file.

HINT
After you have the **ColorSure Palette** loaded into **CorelDraw**, move the cursor over each color. As the cursor hovers over each different color,

IV. Using Color Finder

After printing and transferring the **ColorSure Palette**, you see that you have an array of colors to work with. There will be times, however, when the color you need is not included in the **ColorSure Palette**. This is where the **Color Finder Tool** comes in handy.

The **Color Finder Tool** allows you to start with a specific color (e.g. navy blue) and find similar colors in the same family by adding and subtracting up to three colors **(RGB)** called **'Step Colors.'** For example, starting with navy blue with an **RGB** value of **6,6,85** and choosing two step colors (e.g. blue and red) would expand the original navy blue in four directions (more blue, less blue, more red, and less red). This expanded color chart – specific to a particular substrate and printing speed – prints directly to your printer.

How to use Color Finder:

- Open the **PowerDriver** window as instructed in **"Printing the ColorSure Palette"** outlined in **Section II**.
- At the bottom of the window, click the **Custom Palette Button**; this will open the **Custom Palette Utility** window. (**Figure 1**)
- First, make sure you select **PowerDriver XG-8**, then your desired **Substrate** & **Output. (High Speed or High Quality)** This activates the **"PowerDriver Custom Palette Utility" Screen**. (**Figure 2**)
- In the **"Color Finder" Section**, at the right, click on the **"Start Color Chooser"** button and select your desired starting color from the matrix. If you do not wish to use **Color Chooser**, you may opt to manually enter the **Start Color** values in the **RGB** boxes. (**Figure 3, page 32**.)
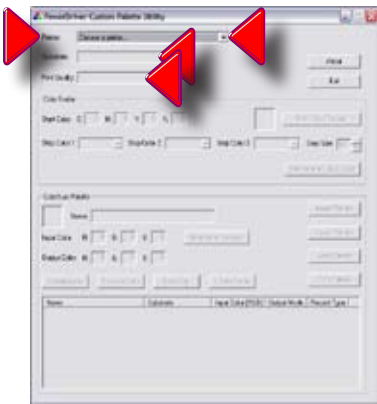
Figure 1
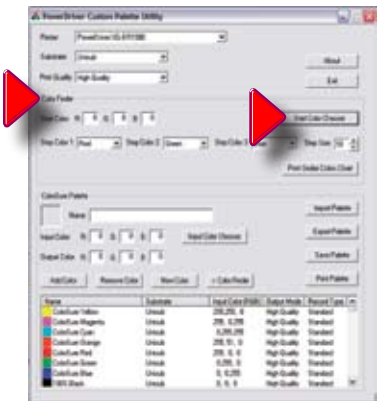
- To use **Color Chooser**, simply click on the **'Start Color Chooser'** button in the **"Color Finder" Section**, at the top right of the **"PowerDriver Custom Palette Utility" Window**. You can then choose a color from the basic color selection, or you can click on the **Color** button at the right of the window. This will display a color matrix. To define a custom color, click anywhere in the matrix. Use the slider at the right of the matrix to adjust luminosity. Clicking **'OK'** will automatically fill the **RGB** boxes with the corresponding values. (**Figure 3)**

- For advanced users, **RGB** values can be determined by printing out a **Custom Palette**, which is outlined in the next section.

Color Chooser Dialog Window

Figure 2

Slider Bar
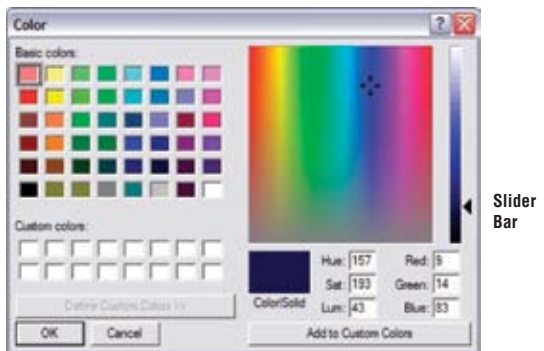
Figure 3

Color Chooser Dialog Window

You may alter the chosen color's **RGB** value by selecting two or three Step Colors. Using multiple step colors will present you with a greater range and variety of colors to choose from.

- For instance, if you choose to modify your Start Color with two steps, then Step Color 1 will change its values on the X (horizontal) axis and Step Color 2 will change its values on the Y (vertical) axis.
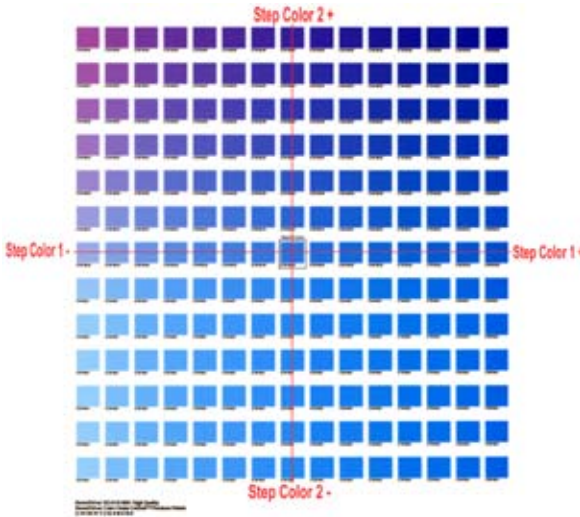
- If you modify your Start Color with three steps, Step Color 1 will remain the same. However Step Color 2 and Step Color 3 will form an imaginary 'X' and their values will change on opposing diagonal Y axes.
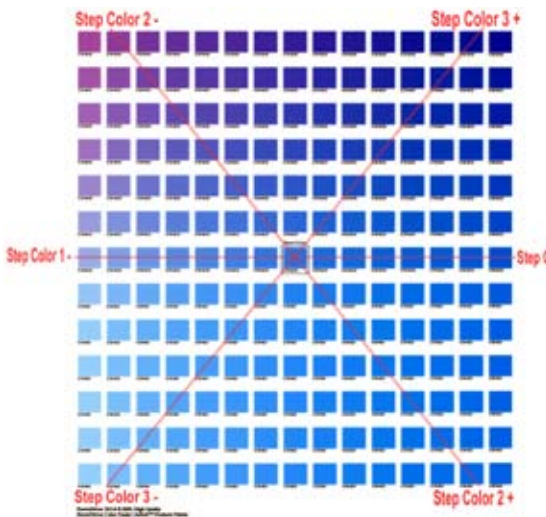
- Next, determine what Step Size you want to apply to the Color Finder palette. This is simply a question of how much you want your Start Color to fluctuate. If your Start Color is close to the color you are looking for, use a low **Step Size**. (i.e. 5-10) However, if your **Start Color** is not close to what you are looking for, use a higher Step Size. You can enter any Step Size value between 1 and 40.

- As an example, let's say your **Start Color** is **R:20, G:80, B:70** and you select **Blue** and **Red** to be your **Step Colors**. You also enter a **Step Size** of **10**. When the **'Print Colors'** button is clicked, your **Start Color** will be in the middle of the Color Finder palette and from there each color will vary the **Blue** and **Red** values by **10**.

- When you are finished selecting the **Start Color**, **Step Colors**, and the **Step Size**, click on the **Print Colors** button. This will print your **Custom Color Finder** palette directly to your printer.

- After printing the **Color Finder** palette, transfer it to your selected substrate and then try to match your desired color to one that is on the palette. If you find a suitable match, you are finished using the **Color Finder** tool. Move on to **Section V, The Custom Palette**.

- If you couldn't find an accurate match on the first printed **Color Finder Palette**, don't worry.

Follow the easy steps below, and you can find a more suitable custom color.

1. First, try to locate a new **Start Color** from the palette that is closer than the original color.

2. Next, after finding a more suitable **Start Color**, write down that color's **RGB** value. Here is how to obtain this value. There are numbers under each color that are dependant upon which **Step Colors** you chose. For example, it might say **R:32 G:80**. Take note of these values. Then, at the bottom left of the **Color Finder** palette you will see a full set of **RGB** values. The new **Start Color's RGB** value would be **R:32 G:80** and whatever the **RGB** values are from the full set.

3. Lastly, plug the **RGB** values for the new **Start Color** into the boxes in **Color Finder**, choose your **Step Size**, and click on **Print Colors** once again. Continue with steps **1-3** until you find your desired color.

V. The Custom Palette

Let us assume that you have found the exact color you need using the **Color Finder** tool. What you will want to do next is apply these custom color values to either an existing palette, or to create a new custom palette altogether. This allows you access to this color again should the same job arise.

How to use Custom Palette:

- First, you need to assign the **RGB** values of the matched color from the **Color Finder** palette to the **Output Color RGB** fields in the **Custom Palette** section.

- Give your new custom color a descriptive Name in its designated field (**e.g. IBM Blue**).

- Next, assign an **RGB Input Color Value**. There are two methods to establish this value.
  1. If you have the original file, sample the color that was matched in your graphic design application with the eye dropper tool. This will give you the **RGB** value of that color. Input this value into the **RGB Input Color** fields of the **Custom Palette** section.
  2. If you do not have the original file or the artwork has not yet been designed, simply click on the **'Input Color Chooser'** button, and then click on **"Define Custom Colors"**. From the color matrix, find a color that closely resembles the color that you are adding to the custom palette. At the bottom-right of the color matrix window are the **RGB** values. Simply click 'OK' and the **RGB** Input Color values will be automatically entered. Please take note of these **RGB** values for later use in your design applications.

- Click the Add Color button. A window will pop up asking you whether you want to add the color to the palette for all substrates or just the current substrate. Click **'YES'** here unless you have the same custom color saved on palettes for other substrates. Another window will then ask you if you want to save the custom color for all resolutions or just the current one. Click **'YES'** here unless you have the same custom color saved on palettes for other resolutions.

- Lastly, click the **Save Palette** button. When finished, simply **Exit** out of the window.

* *The **'Import Palette'** and **'Export Palette'** buttons are convenient to have in the event you need to transfer palettes to and from different computers.*

VI. Adding Swatches to your Application Palette:

It is possible to add your custom color(s) swatch to an application palette as well. You will need to take note of the **Input Color RGB** value that you assigned in the previous step in order to create the new swatch. Refer to your specific design application software's manual for instructions on this.

Tips for Successful Sublimation

POLYESTER FABRIC

Maintain appropriate heat press times.

- Shortened pressing times will result in good surface color but the sublimation dyes will not completely penetrate the polyester fibers. This leaves the dyes more susceptible to wash out.
- Longer pressing times will cause the dye molecules to penetrate deeper into the fiber, creating a washed out look. For guidelines on transfer times, see the **Section** entitled **Heat Transfer Instructions, page 5**.

Maintain appropriate heat press temperatures & pressure

- The correct temperature setting is vital for achieving desired results. Higher temperatures can damage the polyester fibers to the point that they cannot properly **"hold"** the dyes. For guidelines on transfer temperatures, see the **Section** entitled **Heat Transfer Instructions, page 5**..
- Too much pressure on the heat press may cause the dyes to penetrate too deeply into the fabric causing a washed out look. For guidelines on transfer pressure see the **Section** entitled **Heat Transfer Instructions, page 5**.

METAL

To obtain the best results when printing onto metal, place the transfer between the metal and an absorbent cloth or fresh, non-textured paper towel. This will absorb any dyes that pass back through the paper and any moisture released during the transfer process. If you have problems with inconsistently filled areas, this may alleviate the problem.

CERAMIC TILES & MUGS

When transferring onto ceramic tiles and mugs, immediately peel the paper off of the ceramic after removing it from the heat press. Once the paper has been removed, cool the ceramic by submerging it in cool water, or run water over it from a faucet. If paper residue remains on the surface of the ceramic, clean with citrus cleaner. If you experience a significant paper-sticking problem, call your SubliJet reseller for assistance.

Hanes Soft L'Ink® Shirts

- The presence of moisture in your fabric can lead to bleeding of the image. Remove moisture by pre-pressing your shirt for **10** seconds. Use **Teflon**® sheets between the front and back of the shirt to prevent the inks from penetrating to the other side of the shirt. If dye residue from your heat press is being deposited on your shirts at any time, heat press a paper towel or similar absorbent material to remove it.
- Using a lint brush before pressing can greatly reduce lint or debris on the shirt.

MOISTURE & HUMIDITY PROBLEMS

The addition of moisture to the sublimation process can cause unwanted results. Under normal circumstances, the small amount of moisture that can accumulate in your paper is absorbed directly into the transfer substrate; however hard substrates like metal and ceramic are unable to absorb excess moisture. Some of problems that are attributed to moisture include: color shifting (colors lose accuracy), bleeding of the image, and uneven transfer of solid filled areas.

To avoid these problems

- Keep your paper in a dry place.
- If you suspect moisture, set the paper on your press for a few seconds. Do not press it. Just expose it to the warmth. The heat radiating from the press should help evaporate most of the moisture.
- To eliminate moisture in fabric, press the fabric for 10 seconds before doing the heat transfer.
- Use an absorbent cloth or fresh, non-textured paper towel behind the transfer sheet to absorb the moisture.

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Supplies & Equipment

Contact your reseller to purchase sublimation supplies and equipment.

Operating Conditions

Certain environmental conditions should be taken into account for the operation of **SubliJet IQ™** inks, including temperature and relative humidity.

- Supported Operating Conditions are 65° – 80° F with 40 – 60% relative humidity
- Optimum Operating Conditions are 68° – 75° F with 40 – 60% relative humidity

Storage

- Care should be taken to prevent storing SubliJet below freezing temperatures (32°F, 0°C). Do not expose SubliJet to extreme heat (temperatures in excess of 104°F, 40°C). If SubliJet has been in storage, you should allow it to reach room temperature before using it.
- Do not expose SubliJet cartridges directly to light, especially sunlight, for extended periods.
- For best results, install your SubliJet cartridges by the date on the cartridge. Please refer to the individual ink bag/cartridge for the specific ink expiration date.

Troubleshooting

The troubleshooting tips found in this section relate mainly to problems that can be seen in transferred **SubliJet** images. If you are having problems related to the performance of your printer, please refer to the **Problem Solving** section found in the **EPSON Stylus®️ Photo R1900 Printer Basics Guide**.

The colors in my transferred image are incorrect

- The image may need color adjustment. Use **PowerDriver** color matching software. For more information on how to use this software, please see the section entitled **PowerDriver R1900 XG⁸ User's Guide**.
- Ensure you used the right printer driver and driver settings. Please see the section entitled **PowerDriver R1900 XG⁸ User's Guide**.
- Ensure you pressed the item with the proper time, temperature, and pressure. For guidelines see the section entitled **Heat Transfer Instructions, page 5**.
- Verify all colors print correctly. Run the **Nozzle Check** utility and clean the print heads as required.

My printout is really light on paper

- **SubliJet IQ** ink naturally looks muted before the heat transferring of the image. After transferring is complete, **SubliJet's** unique inks will produce a brilliant and durable final product.

My printout gets cut off on the bottom or side

- Verify the printer driver is setup for the correct paper size. Your printer driver setting needs to match the paper size that is loaded in your printer.
- Ensure the right paper guide is in the proper position. When setting up the printer, slide the right paper guide to the left until it clicks into position.

My image looks good but it washes out

- Ensure you pressed the garment with the proper time, temperature, and pressure. If so, try pressing longer to ensure that the dyes are penetrating the fibers sufficiently. For guidelines, see the section entitled **Heat Transfer Instructions, page 5**.
- Ensure you used a recommended paper. See the section entitled **Selecting Paper**.
- Ensure your substrate is designed to accept sublimation transfers. Garments made from natural fibers, such as cotton, are not compatible with the sublimation process.

Colors are light and splotchy

- Ensure you printed on the correct side of the paper. The print side is the bright white side of the paper.
- Ensure you used a recommended paper. For more information, see the section entitled Selecting Paper.
- Ensure you pressed the item with the proper time, temperature, and pressure. For guidelines, see the section entitled **Heat Transfer Instructions, page 5**.

Colors are light and splotchy, (Cont.)

- Verify your printer driver settings are correct. Please see the section entitled **PowerDriver R1900 XG⁸® User's Guide** for additional information.
- Ensure you do not have a moisture problem. For more information, see the **Section** entitled **Moisture and Humidity** on the **Tips for Successful Sublimation** page.
- Ensure your substrate is designed to accept a sublimation transfer. Garments made from natural fibers such as **Cotton** are not compatible with the sublimation process.

My Image Looks Blurred.

- Ensure you pressed the item with the proper time, temperature, and pressure. For guidelines, see the **Section** entitled **Heat Transfer Instructions, page 5**.
- Ensure you used a recommended paper. For more information, see the section entitled **Selecting Paper, page 5**.
- Ensure you printed on the correct side of the paper. The print side is the bright white side of the paper.
- Ensure you do not have a moisture problem. Try drying the paper on the press or putting a paper towel behind the transfer when you heat press it. Read the **Section** entitled **Moisture and Humidity** on the **Tips for Successful Sublimation, page 33-34**.
- Verify that the printer's print heads are properly aligned. For further instructions, see the **EPSON Stylus® Photo R1900 Printer User's Guide, page 35**.

My Image Has Gaps or Bands Present.

- Ensure that all of the printer's nozzles are firing properly. Perform a **Nozzle Check** from the **Utility tab** of your printer driver. For further instructions, see the **EPSON Stylus® Photo R1900 Printer User's Guide, page 34.**
- If one or more of the nozzles fail to print, perform a **Print Head Cleaning**. For further instructions, see the **EPSON Stylus® Photo R1900 Printer User's Guide, page 34**.

Technical Support

If you are having difficulties achieving good results from your **SubliJet IQ™** inks, you have several support options:

1. **Telephone:** .. You may contact your authorized **SubliJet** reseller during their normal hours of operation for assistance. A full listing of authorized **SubliJet Resellers** is available on our **Website** at **www.sawgrassink.com**. In addition, you may also contact **Sawgrass Technical Support** at **(888) 253-1679** during hours **8:30 AM** until **5:30 PM Eastern Standard Time**.

2. **Internet:** ...... Visit the **Technical Support Area** of the **Sawgrass Technologies, Inc. Website** at **www.sawgrassink.com**. The troubleshooting utility found here will provide you with solutions to some of the most common problems. You may submit a detailed description of your problem if you need further assistance.

3. **E-mail:** .... You may **e-mail Sawgrass Technical Support** with a detailed description of your problem at **support@sawgrassink.com**.

4. **Fax:** .... You may fax a detailed description of your problem to **Sawgrass Technical Support at (843) 849-3847**.

Notes: