User Guide

English

Trendsetter ContinuousLoad Spectrum II

TSM version

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www.creo.com

Trendsetter ContinuousLoad Spectrum II

TSM Version

Operator Guide

creo™

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RE37,376	5,325,217	5,532,728	5,742,743	5,996,499	6,158,345	6,353,216
4,558,302	5,339,176	5,561,691	5,764,374	5,998,067	6,159,659	6,366,339
4,743,091	5,343,059	5,568,595	5,764,381	6,003,442	6,164,637	6,371,026
4,992,864	5,355,446	5,576,754	5,771,794	6,014,471	6,180,325	6,377,739
5,049,901	5,359,451	5,579,115	5,785,309	6,016,752	6,181,362	6,387,597
5,079,721	5,359,458	5,592,309	5,813,346	6,031,932	6,181,439	6,396,422
5,103,407	5,367,360	5,594,556	5,818,498	6,043,865	6,186,068	6,396,618
5,111,308	5,384,648	5,600,448	5,854,883	6,060,208	6,189,452	6,407,849
5,113,249	5,384,899	5,608,822	5,861,904	6,063,528	6,191,882	6,414,755
5,122,871	5,412,491	5,615,282	5,861,992	6,063,546	6,204,874	6,422,801
5,124,547	5,412,737	5,625,766	5,875,288	6,072,518	6,208,369	6,435,091
5,132,723	5,420,702	5,636,330	5,894,342	6,090,529	6,214,276	6,441,914
5,150,225	5,420,722	5,649,220	5,900,981	6,096,461	6,217,965	6,450,092
5,153,769	5,459,505	5,650,076	5,934,196	6,098,544	6,260,482	6,456,396
5,155,782	5,473,733	5,652,804	5,942,137	6,107,011	6,266,080	6,476,931
5,157,516	5,481,379	5,680,129	5,946,426	6,112,663	6,266,134	6,477,955
5,208,818	5,488,906	5,691,823	5,947,028	6,115,056	6,267,054	6,509,903
5,208,888	5,497,252	5,691,828	5,958,647	6,121,996	6,268,948	6,541,181
5,247,174	5,508,828	5,696,393	5,966,504	6,130,702	6,283,589	6,545,772
5,249,067	5,509,561	5,699,174	5,969,872	6,134,393	6,295,076	6,564,018
5,283,140	5,517,359	5,699,740	5,973,801	6,136,509	6,299,572	
5,291,273	5,519,852	5,708,736	5,986,819	6,137,580	6,318,266	
5,323,248	5,526,143	5,713,287	5,995,475	6,147,789	6,352,816	

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Who Should Use This Guide

This guide is intended for anyone who is involved in operating or maintaining a Trendsetter® ContinuousLoad Spectrum II output device.

To use this guide, you should:

- Have a working knowledge of prepress operations
- Be familiar with the Windows® operating system

This guide assumes that:

- All the hardware, software, and network components of your Creo system are installed, configured, and operating correctly.
- Files submitted to the Creo system are free of common errors usually resolved during preflight, such as missing fonts and PostScript® errors.

Dangers, Warnings, and Cautions

All dangers, warnings, and cautions are meant to provide you with safety information. Disregarding dangers, warnings, and cautions can result in personal injury to you or in damage to your equipment.



DANGER: This symbol indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury. This does not alert you to a property damage accident unless personal injury risks are associated with the accident.



WARNING: This symbol indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury. This does not alert you to a property damage accident unless personal injury risks are associated with the accident.



CAUTION: This symbol indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. This may also alert you to unsafe practices or potential property-damage-only accidents.

Important Notes on Safe Operation



WARNING: Before using the Trendsetter ContinuousLoad Spectrum II , you MUST read this guide and understand it.

When using the Trendsetter ContinuousLoad Spectrum II , you MUST follow ALL of the safety precautions and recommended procedures. This guide must be accessible to anyone who operates the Trendsetter ContinuousLoad Spectrum II .

Your failure to read, understand, and follow the information in this guide could result in death or serious injury and/or mechanical damage to the Trendsetter ContinuousLoad.

Safety Information

Instructions and warnings relating to the safe operation of the Trendsetter ContinuousLoad Spectrum II are provided throughout this guide. Strict adherence to the following instructions is critical to the safe operation of the machine.

1. Do not tamper with the access panel interlock system (see *Interlock System* on page 5). Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.
2. Use only qualified media (see *Supported Media* on page 21). Using unqualified media may expose you to noxious emissions.
3. Keep the operator door closed during operation.
4. Keep hands and fingers away from moving parts while the output device is in operation (see *Interlock System* on page 5). There are mechanical hazards associated with the output device which can result in serious injury or damage to your equipment.
5. Remove stuck media from the output device only when it is shut down.
6. Load plates only when prompted to do so.
7. Perform maintenance only when the output device is shut down (see *Maintenance Schedule* on page 62).

8. Open access panels only when necessary (see *Interlock System* on page 5 and *Accessing the Interior of the Output Device* on page 67). Failure to follow the safety recommendations and procedures in this guide regarding opening, removal, and replacement of output device access panels can result in serious injury to you or in damage to your equipment. Opening access panels is unavoidable, but should be kept to a minimum to reduce the accumulation of dust in and around sensitive components.
9. Shut off the air supply when working on the air supply filters (see *Compressed Air Supply Filters* on page 85). Failure to shut off the compressed air system before replacing a compressed air filter can result in serious injury or damage to the output device.
10. Align the clamp tabs properly (see *Repositioning the Trailing-Edge Clamps* on page 127). When placing or sliding a trailing edge clamp on the drum, always ensure that the steel tabs on the clamps are centered on the steel straps on the drum. The clamp tabs can damage the drum surface if the tabs are not aligned properly. Avoid pinching your fingers between the trailing edge clamps and the drum.
11. Do not perform unauthorized repairs or make modifications (see *Maintenance* on page 5). Unauthorized panel removal, repairs, or changes made to the output device can expose you to serious danger from high-powered laser radiation, moving mechanical parts, and/or electrical shock, which will result in death or serious injury.
12. Wear protective gloves when handling media and the magnetic clamps (see *Loading Media Automatically* on page 48). Plate edges can be sharp. Failure to wear protective gloves can result in injury.
13. Do not let water or other liquids run freely into the output device (see *Cleaning Exterior Surfaces* on page 65). This can result in serious injury or electrical shock as well as damage to the equipment.
14. Avoid the regular use of cleaners (see *Removing Stains* on page 66). Chemical solvents or aggressive cleaning solutions may cause cracking or crazing on plastic parts such as the compressed air filters.
15. Be careful handling the magnetic clamps if you have a pacemaker (see *Removing a Stuck Media From the Output Device* on page 125). Operators with implanted cardiac pacemakers should ensure that magnetic clamps are kept more than 7 cm (2.75") away from their pacemaker. If you have additional concerns, consult your physician and/or the manufacturer of your implant.

16. Remove all slipsheets and packaging material from both the back and front of plates before imaging them in the output device. Otherwise, the thermal laser could ignite the paper, causing a fire in the output device.

In Case of Fire

If there is a fire in the output device, turn the power switch on the outside of the device to the **Off** position. See Figure 9 on page 27.

Installation

Installation of the output device and the initial startup must be performed by an authorized service representative. Please ensure operating environment and connection requirements are observed when your output device is installed and when it is turned on.

Maintenance

You should perform only the maintenance procedures that are described in *Chapter 4, Maintenance.* Other maintenance and all service work should be performed only by an authorized service representative



DANGER: Unauthorized panel removal, repairs, or changes made to the output device can expose you to visible and invisible high-powered laser radiation, moving mechanical parts, and/or electrical shock, which will result in death or serious injury.

Safety Features

Interlock System

The output device is equipped with an interlock system. It protects you against injury from:

- Visible and invisible high-powered laser radiation
- Moving mechanical parts

Laser emissions from an exposure head are invisible to the naked eye and are very dangerous if they contact skin or eyes. If you open or remove an access panel while the output device is operating, the interlock system will:

- Halt all mechanical activity
- Remove power from the laser

If mechanical movements do not stop when you open or remove an access panel, do the following:

1. Turn the power switch to the **Off** position. See Figure 9 on page 27.
2. Close or replace the access panel. See page 68.
3. Contact your authorized service representative as soon as possible.

Do *not* touch or attempt to stop moving internal parts of the output device.



CAUTION: Pay special attention to the safety recommendations and procedures in this guide regarding opening, removal, and replacement of output device access panels. Failure to do so can result in injury to you or in damage to your equipment.



DANGER: Never attempt to operate the output device with any of the access panels open, and never attempt to open or remove access panels while the output device is imaging media. Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.

Stop Switches

There are two types of switches for stopping the device. The Emergency Stop switch stops laser operation and mechanical movement, but the power remains connected and you can still access information about the status of the device. The Power switch disconnects power to the device.

Emergency Stop Switch

The Emergency Stop switch is a safety device that suspends all machine operation when it is pressed. It is located inside the output device under the front panel.

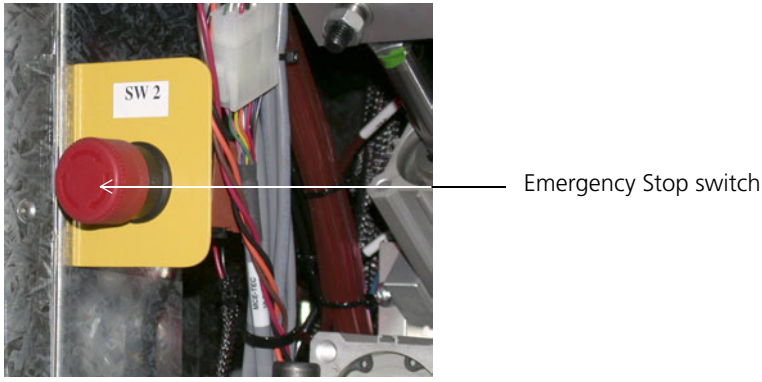


Figure 1: Emergency Stop switch

The Emergency Stop switch is intended for use only by authorized service representatives. If you press this switch, you must reset it before the output device can return to normal operations. To reset the Emergency Stop switch, see *Resetting the Emergency Stop Switch* on page 124.

If you have questions about using the Emergency Stop switch, write down the serial number of your output device, and contact your authorized service representative. You can find the serial number on the Identification label (this label is located on the lower-right back panel beside the air supply filters). For an example of this label, see Figure 53 on page 140.

Power Switch

The power switch is located on the outside of the device. When you are instructed to shut down the output device for a maintenance procedure, use this switch to turn off power to the device. See page 27.

2

System Overview

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Trendsetter ContinuousLoad Spectrum II System

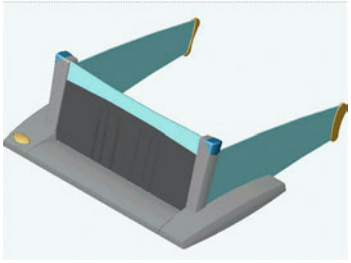
Trendsetter Spectrum II output devices are an integral part of a computer-to-plate system. The Trendsetter Spectrum II produces digital color halftone proofs as well as imaging plates and film (optional). Media for up to three proofs can be loaded into a lightweight cassette that is inserted into the front of the output device. The media is then automatically loaded onto the drum inside the output device and imaged.

The Trendsetter ContinuousLoad Spectrum II device is an option that provides a higher level of automation for Trendsetter Spectrum II systems, adding the following functionality:

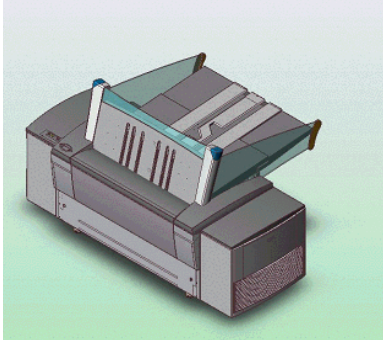
- Continuous plate loading—after loading the first plate, operators can pre-position a second plate, which the Trendsetter ContinuousLoad Spectrum II device will automatically load after it unloads the first plate
- Automatic plate unloading to an inline processor or plate stacker

  For smaller media, operators can take advantage of the automatic plate loading functionality and then manually unload using the manual bypass feature.
- 90 degree plate rotation, to present the shortest edge to the processor

  This feature is standard on Trendsetter ContinuousLoad 800 systems and optional on Trendsetter ContinuousLoad 400 systems.
- Status lights that provide feedback to the operator, such as whether the device is waiting for them to perform a specific task



ContinuousLoad device



Trendsetter with ContinuousLoad option

Figure 2: ContinuousLoad option

System Components

The Trendsetter ContinuousLoad Spectrum II system consists of the output device, workstation, and workstation software.

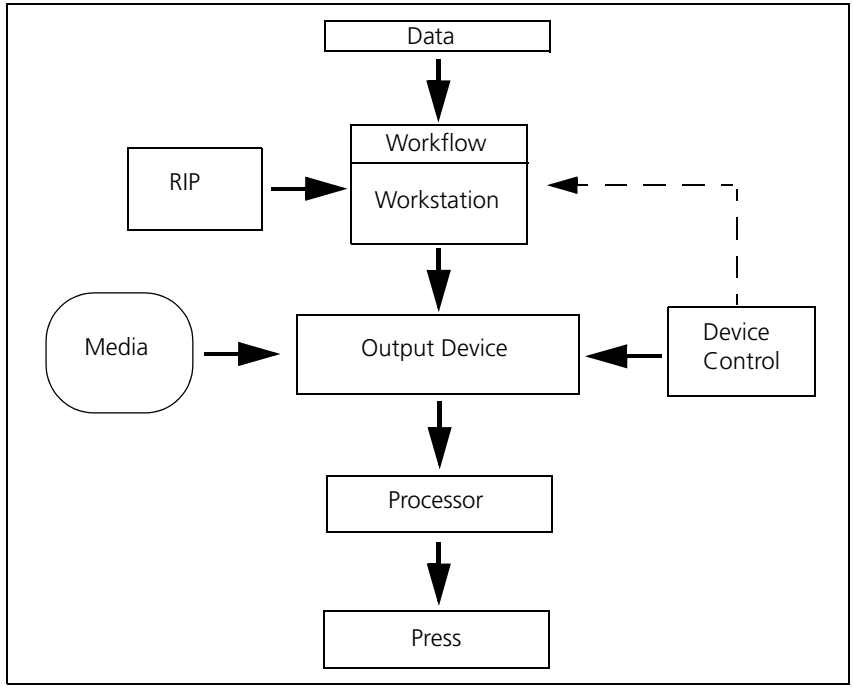


Figure 3: Trendsetter ContinuousLoad Spectrum II components

This guide contains information about the output device only. For software documentation, see your *Print Console Quick Start Guide* and the Print Console online help.

Output Device

This guide describes the output device as if you are facing the front of it. Figure 4 illustrates the output device's main components.



Figure 4: Output device components

Using the Trendsetter ContinuousLoad Spectrum II Safely



WARNING: The Trendsetter ContinuousLoad Spectrum II output device contains static-sensitive subassemblies. Do not touch any of the electronics, the exposure head, or any wiring or cables when accessing the inside of the output device.



WARNING: Instructional and cautionary labels are located throughout the device. Disregarding these labels can result in serious injury or damage to the machine.

For your safety, the unload table is equipped with safety panels and an audible warning device. When the unload table is about to lower to a horizontal position or raise to an upright position, you will hear an audible beep (see Figure 6 on page 18).



CAUTION: Keep your hands and fingers away from the unload table when you hear the beeping sound.

As an additional protective measure, safety panels are located on the left and right sides of the unload table. These polycarbonate panels help protect against injury when the unload table is lowering or raising, and from moving parts inside the unload table.



CAUTION: Do not reach into the area protected by the safety panels as there are mechanical hazards associated with the unload table. Failure to heed this caution can result in personal injury or damage to your equipment.

Trendsetter ContinuousLoad Spectrum II Components

The Trendsetter ContinuousLoad Spectrum II output device includes the following components. See Figure 4 on page 12 for the location of these components.

Load Ramp

The load ramp is the entry point for media imaged in the output device. A single media is manually placed on the prestage area. A sensor detects its presence and automatically loads it into the output device, where it is imaged and then unloaded to the unload table at the rear of the device.

Immediately after the first plate is loaded on the device, the operator can place a second media on the prestage area. This second media will also be automatically detected, loaded, imaged, and unloaded after the first media has been imaged and unloaded.

The carrier is also loaded onto the internal drum via the load ramp.

The load ramp has replaceable suction cups.

Cassette Tray

The multi-proof cassette (containing proofing media) is loaded into the cassette tray, an access door on the front of the output device.

Cassette (Multi-proof)

Up to three complete sets of proofing media can be loaded into the multi-proof cassette. When loaded, the cassette is inserted into the cassette tray.

There are two cassette sizes: 4-up and 8-up.

Cassette (Manual Proofing)

See *Manual Proofing Cassette* on page 56.

Carrier

The carrier, loaded onto the internal drum before any proofing media is loaded for imaging, is a backing surface for the proofing media. The carrier is loaded onto the internal drum via the load ramp. The carrier is not loaded when a plate or film is being imaged.

Manual Bypass

Smaller media that need to be unloaded manually can be unloaded back to the prestage area at the front of the device rather than unloaded to the unload table at the back.

You must also use manual bypass to image film on a Trendsetter ContinuousLoad Spectrum II output device.

When you perform a manual bypass, the prestage area must be empty (a second media cannot be prestaged).

Operator Interface

When operators are standing at the output device, they can use the operator interface lights to see the status of the output device. When a light on the operator interface flashes, the output device is performing a task or is ready to perform a task. When a light glows a solid color, the interface conveys only the status of the output device.

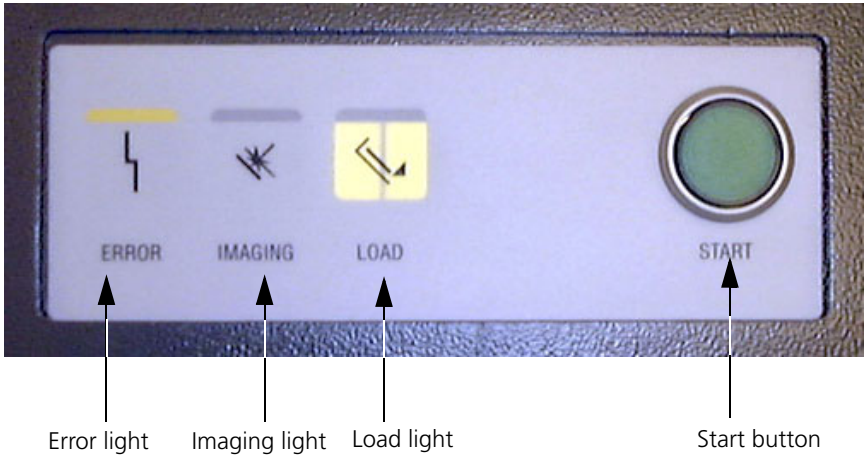


Figure 5: Error, Imaging, and Load lights

Start button

Use this button only during manual operation. After you have manually loaded the media (set the media on the registration pins and aligned the plate with the media labels), press the **Start** button to begin the imaging process. This button does not glow or flash to indicate a state.

Status Lights

When operators are not standing close to the Trendsetter ContinuousLoad Spectrum II device, they can use the status lights at the top of the load ramp to check on the current status of the device.

The color of the status lights indicates whether an operator action is required. Glowing and flashing lights indicate which tasks are being done or which operator action is required.

Table 1: Status lights

Color of light	State	What it means	Operator action required
Blue	Solid blue	An operator action is required.	Place a plate on the prestage area.
	Flashing blue		Remove a plate from the manual bypass door or the unload table
Green	Solid green	No operator action is required.	None. The device is loading or imaging the media.
	Flashing green		None. The device is unloading the media.
Yellow	Flashing yellow	Warning that job has been suspended	Investigate the cause of the problem. When the error is resolved, the yellow status light turns off.
No light	Off	The device is idling.	None.

Safety Panels

The safety panels are located on either side of the unload table. These polycarbonate panels help protect against injury when the unload table is lowering to a horizontal position or raising to an upright position. See Figure 6 on page 18.

CAUTION: Do not reach into the area protected by the safety panels as there are mechanical hazards associated with the load table. Failure to heed this caution can result in personal injury or damage to your equipment.

Unload Table

The unload table is an exit point for media. Imaged plates are ejected onto the unload table. Once a media is fully ejected, the unload table lowers to a horizontal position.

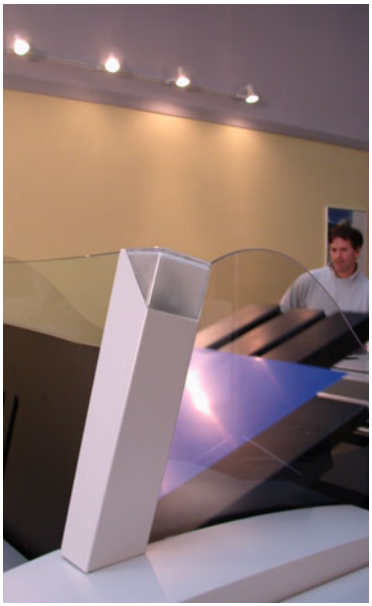
A warning beep sounds before the unload table moves up or down.

CAUTION: Be careful to keep your hands and fingers away from the unload table when it is lowering to a horizontal position or raising to an upright position. There are mechanical hazards associated with the unload table which could result in personal injury or damage to your equipment.

Unload table in raised position



Unload table lowering



Unload table in horizontal position

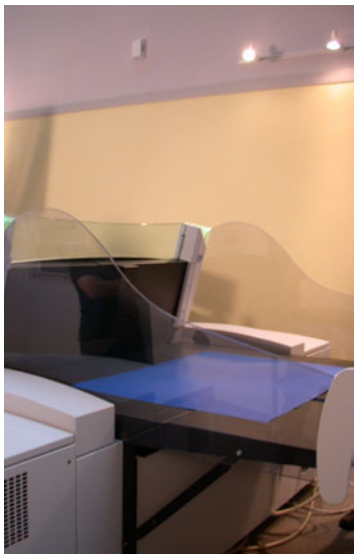


Figure 6: Unload table

Environment Specifications

The Trendsetter ContinuousLoad Spectrum II should be installed in a clean prepress area (in accordance with the *Trendsetter/Proofsetter Site Preparations and Requirements* document, Creo document number 73-3631).

Ensure that the operating environment and connection requirements are observed when your output device is installed and in use. The operating environment requirements for the Trendsetter ContinuousLoad Spectrum II are:

- Temperature: 17°C–30°C (63°F–86°F)
- Relative humidity: 20%–70% RH, non-condensing



Note: Some proofing media may restrict the operating range of the system. Consult the proofing media manufacturer for their recommended temperature and humidity ranges for proofing and media storage.

For information on noise emissions in an office environment, see *Noise Emissions* on page 155.

Required Operating Conditions

Because the output device uses a thermal exposure head and images thermal plates, it does not require darkroom conditions.

Maintenance Supplies

Use only Creo-authorized filters. Your output device may not operate properly if you try to use a substitute or unauthorized filter.

Materials required for use with the Trendsetter ContinuousLoad Spectrum II are:

Table 2: Materials

Item	Description
Carrier	Order replacements from Creo. See *Appendix A, Part Numbers*.
Filters	A number of filters are used in the output device to maintain the air quality. See *Replacing Air Supply Filters* on page 84 for more information. Order replacement filters from Creo. See *Appendix A, Part Numbers*.
Debris Filters	All Trendsetters are equipped with Debris Removal Systems. See *Replacing the Universal Debris Removal Cabinet Filter* on page 95 for more information. Order replacement filters from Creo. See *Appendix A, Part Numbers*.
Lamination stock	Order from media vendors.
Media (plates or film)	Order from media vendors. See page 21 for a list of supported media.
Processor consumables	See the manufacturer's documentation for information pertaining to processor consumables.
Proofing C, M, Y, K and spot color donors	Order from media vendors.
Receivers/receptors	Order from media vendors.
Separators	Order replacements from Creo. See *Appendix A, Part Numbers*.

Supported Media

On installation, the output device is configured with the media sizes you will use. You can then modify the media sizes in Print Console. For more information, see the Print Console online help. For a listing of the media sizes supported by the Trendsetter ContinuousLoad Spectrum II , see *Media Sizes Supported* on page 21.

For the most current information on supported media, contact your authorized service representative.

Media Sizes Supported

Spectrum Proofing Media

Table 3: Media sizes supported

8-up	4-up	Mini 4-up
762 mm x 1016 mm 30" x 40"	559 mm x 660 mm 22" x 30"	559 mm x 660 mm 22" x 26"

ContinuousLoad

Table 4: Media sizes supported

Maximum size	Minimum size	Thickness
838 mm x 1118 mm 33" x 44" (800 model) 32" x 30" (400 model)	419 mm x 521 mm 15" x 20"	0.15 mm to 0.3 mm 0.006" to 0.012"

Manual Bypass

Table 5: Media sizes supported

Maximum size	Minimum size	Thickness
838 mm x 1118 mm 33" x 44" (800 model) 32" x 30" (400 model)	330 mm x 229 mm 12" x 9"	0.15 mm to 0.3 mm 0.006" to 0.012"

Media Orientation

The following information identifies the appropriate orientation for each media size supported by the output device.

Table 6: Media orientation supported

Media	Size (nominal size)	Orientation
Proofing Media	30" x 40" (762 mm x 1016 mm)*; 8-up 22" x 26" (559 mm x 660 mm)*; mini 4-up 22" x 30" (559 mm x 762 mm)*; 4-up	Landscape Portrait Portrait
Plate or Film	32" x 44" (813 mm x 1118 mm)* 15.5" x 13" (394 mm x 330 mm)*	Landscape Portrait
* Actual imageable area will be marginally smaller		

Details on Portrait Orientation

Using portrait orientation can decrease imaging time. However, consider the following before using portrait orientation:

- Because the output device cannot image underneath the clamps, it is not possible to image to the edge of the media.
- Since the output device registers along the short side of the media, you must punch on the long side. (To punch on the short side, the plate must be cut perfectly square.)

Media Dimensions

The following media dimensions apply to the Trendsetter ContinuousLoad Spectrum II . They may not apply to media dimensions you define in other pressroom operations, for example, putting a media on a press.

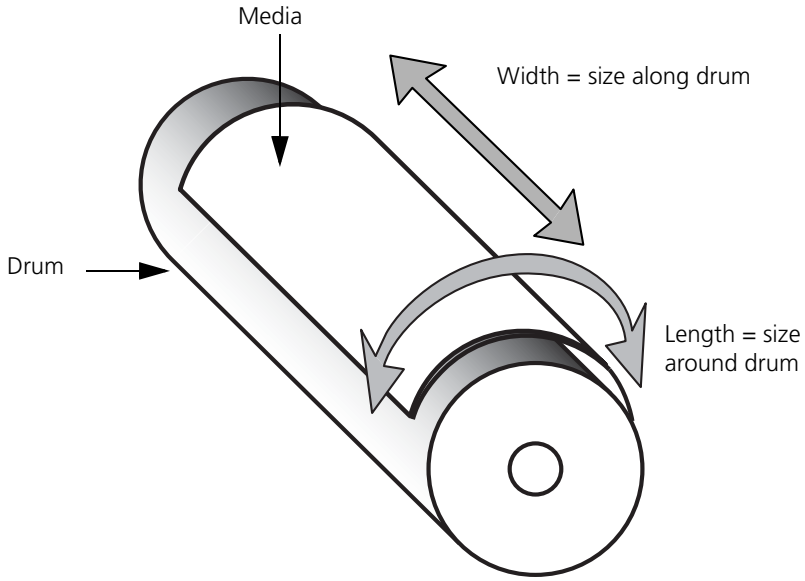


Figure 7: Media dimensions—landscape orientation

Important: The output device does not measure the size of media along the drum. If the length of the media (around the drum) is correct, but the width (along the drum) does not correspond with the media size selected in Print Console, the output device will go ahead and image the media, or an edge detect error will occur. This does not damage the output device in any way. However, the output device does not notify you that media of an incorrect size has been imaged.

Media Processing

Some of the media supported by the Trendsetter ContinuousLoad Spectrum II need to be processed after they are imaged. For information on processing your media, see the media manufacturer's documentation.

3

Operation

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Starting the Trendsetter ContinuousLoad Spectrum II

Warmup Time

The Trendsetter ContinuousLoad Spectrum II output device can take up to two minutes to warm up after it is turned on. You cannot image media while the output device is warming up. Files submitted to be imaged wait on the workstation until the output device is ready.

To start the output device:

1. Turn on the output device.

   The power switch is located at the top of the power box panel. Turn the power switch clockwise.

   If the output device does not start, the circuit breaker may be tripped. To reset the circuit breaker, see *Tripped Circuit Breaker* on page 130.



Figure 8: Turn the power switch to the On position

2. Turn on the workstation.

   For information on turning on the workstation, see the documentation you received with your workstation.

3. Start Print Console.

   For details on starting Print Console, see the *Print Console Quick Start Guide*.

   When the output device is ready, the status lights glow a solid blue.

Shutting Down the Trendsetter ContinuousLoad Spectrum II

You normally leave the workstation running at all times.

For information about quitting Print Console, see the Print Console online help.

Note: Ensure the media has been removed from the output device before you shut it down.

To shut down the output device:

➢ Turn the output device off using the power switch.

The power switch is located at the top of the power box panel. Turn the power switch counter-clockwise.



Figure 9: Turn the power switch to the Off position

Opening and Closing the Proofing Access Panel

The proofing access panel, opened to accept the media cassette, should be closed when not in use. This will minimize the amount of dust contamination.

To open the proofing access panel:

1. Lift the two paddle latches in the recesses at the top of the front panel.

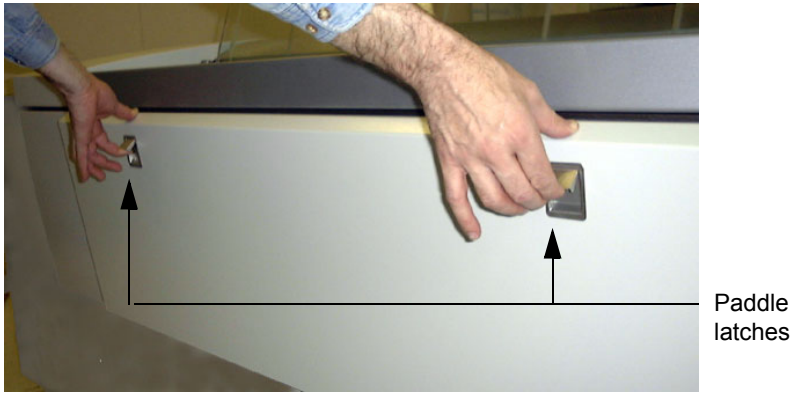


Figure 10: Paddle latches on proofing access panel

2. Hold onto the panel as it releases—it may fall quickly.
3. When the panel is fully open, push on the side stays to ensure they are locked.

To close the proofing access panel:

1. Lift the catch release bracket on the side stay to release the lock.

   Lift the panel slightly before releasing the catch release bracket.
2. Ensure the paddle latches lock the panel in place.

Imaging a Proof

The following general steps are involved in creating a proof. Instructions on completing individual steps are described in more detail in the rest of this chapter.



Note: For instructions specific to imaging a proof on a device equipped with the Spectrum Manual Proofing Option, see *Chapter 4, Manual Proofing Option*.

1. Configure workstation software to create a proof.

   For instructions, see the workstation software documentation.

2. Load the carrier onto the load ramp.

   See *Loading the Carrier* on page 30.

3. Load a multi-proof cassette with donors and receivers for up to three different jobs.

   See *Loading the Multi-proof Cassette With Media* on page 33.

4. Insert the cassette into the output device.

   See *Inserting the Cassette* on page 39.

   The first receiver (the media receiving the pigment) is loaded onto the carrier, which is wrapped around the drum inside the output device. Colors are written to the receiver one at a time (from each color donor), and then the donors are ejected onto the top of the cassette. The output device ejects the imaged receiver onto the top of the cassette. If media for more than one job has been loaded into the cassette, the second job begins automatically.

5. Laminate each receiver to a base.

   See *Laminating Proofs* on page 41.

6. Remove the cassette from the output device.

   See *Removing the Cassette* on page 41.

7. Remove and dispose of the donors.

   For instructions, see *Removing and Disposing of Donors* on page 46.



Note: The carrier will not be ejected until you select a platemaking/proofmaking page setup or different size proof in the workstation software. See the workstation software documentation for more information.

Loading the Carrier

The carrier is a plastic sheet loaded onto the drum to hold proofing media in place during imaging. The carrier is not used when imaging plates or film.

You must load the carrier if you want to produce proofs and if the workstation software is in plate/film mode. This means that you imaged plates or film the last time you used the output device. In this mode, you must load the carrier onto the load ramp before you can image a proof.

If you imaged a proof the last time you used the output device, the workstation software will be in proof mode. In this mode, the carrier remains wrapped around the drum inside the output device, waiting for the next proof to be imaged. You do not need to load another carrier in order to make a proof, unless you are switching from 4-up proofs to 8-up proofs.

For information about proof and plate/film modes in the workstation software, see the workstation software documentation.

To ensure proper function, unload the carrier at the end of each day and reload it every morning. For easier carrier loading, remove the cassette before attempting to load the carrier.

To load the carrier:

1. Remove the carrier from its drawer in the media cabinet.
2. Clean the carrier.

   See *Cleaning the Carrier* on page 96.
3. Hold the carrier at its sides with the tab on the bottom right and the tape borders facing you.



Caution: Always handle the carrier carefully to avoid scratches or other damage. Kinks or scratches on the carrier can cause defects in a proof.

4. Position the carrier on the load ramp as shown in Figure 11 and slide it down [1] until it comes to a level rest. Then slide it to the right [2] until the tab stops against the alignment block on the drum.



Figure 11: Loading the carrier

5. Let go of the carrier.

   When correctly positioned against the alignment block, the carrier completely hides the 1 mm-wide gray strip on the alignment label (see Figure 12).

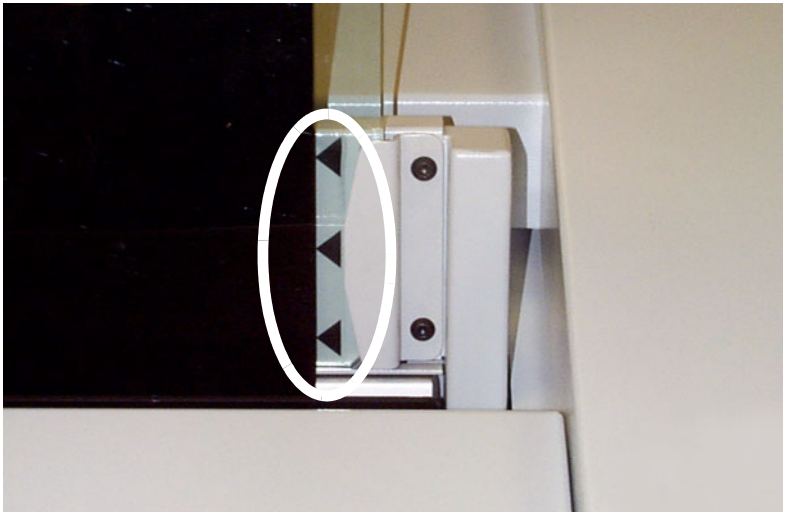


Figure 12: Correctly loaded carrier

Note: If the carrier is placed so that its right edge is to the left of the gray strip, the red area of the label will show (Figure 13) and the load will likely fail.

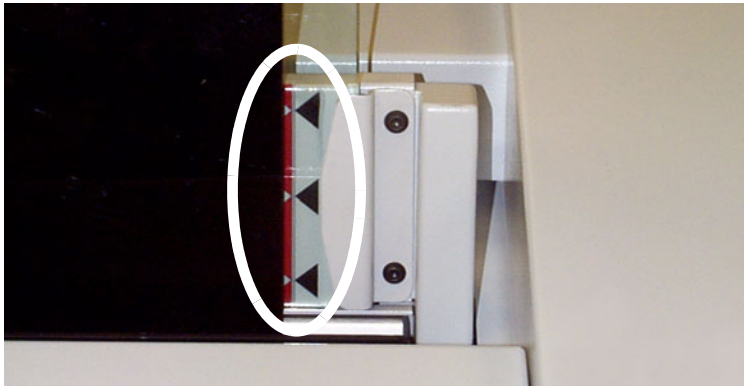


Figure 13: Incorrectly loaded carrier

Important: You should not be touching the carrier when you press the Start button.

6. When the carrier is correctly aligned on the load ramp, press the Start button on the operator interface.

   The output device loads the carrier onto the drum.

Unloading the Carrier

Unload the carrier at the end of each day. For details on manually ejecting the carrier, see the workstation software user guide.

To unload the carrier from the output device:

1. Wait for the carrier to be unloaded onto the load ramp.
2. Hold the edges of the carrier and lift it upward, removing the carrier from the load ramp.

   Keep the carrier flat at all times to avoid kinking.
3. Store the carrier in the media cabinet to avoid damage when not in use.

Loading the Multi-proof Cassette With Media



Note: For instructions on loading the cassette on a device equipped with the Spectrum Manual Proofing Option, see *Chapter 4, Manual Proofing Option*.

The multi-proof cassette is used to feed media into the output device for proofing. It contains white separator sheets and a white top cover sheet that are anchored at the handle end of the cassette. There is a color-coded separator for each of the four donors (CMYK), a blank separator for the spot-color donor, and a holder for the receiver for each complete set of media.

Four process-color donors (CMYK), a spot-color donor, and a receiver form one set of proofing media by default. The multi-proof cassette can hold a maximum of three, five-color jobs (18 sheets of media). For example, to make six-color jobs, load the cassette with no more than two sets of six-color media.



Important: If you are advised by your media vendor to load the donors in a different order, change the order of the color-coded separators in the cassette. See *Changing the Media Load Order* on page 42 for instructions. You must also change the color separation order for the proof when creating the page setup. Refer to the workstation software documentation for more information.

Table 7: Default media order (for one proof) in the cassette

TOP OF CASSETTE
Cover sheet
Separator
Receiver
Receiver holder
Cyan donor
Cyan separator
Magenta donor
Magenta separator
Yellow donor
Yellow separator
Black donor
Black separator
Spot color donor
Spot color separator
BOTTOM OF CASSETTE

Load the media into the cassette in the order shown in Table 7 above. Load media for a second and/or third proof if required.

To load the cassette with proofing media:

1. Load the donors, emulsion side down.
2. Load the receiver, emulsion side up.

   The media are notched and there are labels on the separators to ensure media are loaded in the cassette correctly.

Once media are inserted correctly, a cover sheet holds them in place during transport to the output device.

CAUTION: Always handle media by its edges. Avoid contact with the imaging area. There is a 0.5" (12.7 mm) margin on the receiver and a 1" (25.4 mm) margin on donors that is not exposed during imaging. Dragging media across any surface can cause static buildup and should be avoided.

To ease cassette loading, store media in the storage cabinet in the same order you intend to load them in the cassette.

CAUTION: Media must be loaded correctly in the cassette to prevent damage to the output device.

Media must be aligned with the notch labels and indicators, and there must be only one sheet of media between separators. Always ensure that media are loaded correctly before inserting the cassette.

Loading the Donors

Before you begin, check the following:

- the donors and receivers in the media cabinet drawers are loaded in the correct order
- a flat surface is available for loading the cassette
- you have sufficient room to remove a donor from a drawer and load it into the cassette in one motion (that is, without having to put the media down or handle it excessively)

CAUTION: The donors must be loaded correctly in the cassette to prevent damage to the output device. If donors are loaded upside down, the coating emits vapors and can damage the output device. The donors must touch the end of the cassette under the metal tabs (see Figure 15 on page 38), and be aligned with the notch labels and indicators. There must be only one donor between separators.

To load the CMYK donors in the default order:

1. Place the cassette on a flat surface near the media storage cabinet.
2. Fold back the cassette cover and all separators except for the black donor separator.

   The donor separator with the Creo logo should be visible inside the cassette.

3. Carefully remove one black donor from its drawer in the media cabinet.



CAUTION: Handle the donor by the edges only.

4. Place the black donor on the matching color separator with the notched corner positioned as indicated by the label on the separator.
5. Ensure that the notched corner of the donor is aligned with the media label indicator in the corner of the cassette.
6. Tuck the edge of the donor under the metal tabs at the opposite end of the cassette from the end with the handle. Ensure the donor touches the end of the cassette under the tabs.
7. Cover the donor with the next separator.
8. Repeat steps 3 through 7 for the yellow, magenta, and cyan donors in that order.

Once you have loaded all four donors, you can load the receiver.

Loading the Receiver



CAUTION: The receiver must be loaded correctly in the cassette to ensure proper imaging. If the receiver is loaded upside down, a quality image is not generated and cannot be laminated. The receiver must touch the end of the cassette under the metal tabs (see Figure 15 on page 38), and be aligned with the notch labels and indicators. There must be only one receiver between the separator and receiver holder.

To load the receiver:

1. Be sure that only one cyan, yellow, magenta, and black donor sheet have been loaded between the correct separators.
2. Ensure that all donors are positioned correctly with notched corners aligned with the media label indicators in the corner of the cassette.
3. Make sure that the receiver holder is face up in the cassette.

   The receiver holder has gray tape that outlines the correct receiver position and a label indicating where the notched corner should be.



Note: The notched corner of the receiver does not go in the same location as the notched corner of the donors. The receiver notch goes in the opposite corner to the donors' notch. Both notches are at the end of the cassette that does not have a handle.



Figure 14: Loading the receiver

4. Carefully remove one receiver from its drawer in the media cabinet, holding the receiver by the edges only.
5. Position the receiver on the receiver holder with the notched corner positioned as indicated by the notch label on the holder.
6. Tuck the edge of the receiver under the metal tabs at the end of the cassette opposite the end with the handle. Ensure the receiver touches the end of the cassette under the tabs.
7. Cover the receiver with the next (top) separator.
8. Place the cassette cover over the top separator.

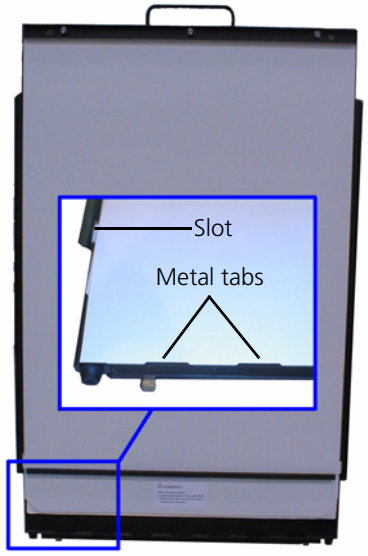


Figure 15: Cassette cover

9. Carefully tuck the two tabs of the cover on either side of the cassette into the slots provided.

CAUTION: Handle the cover carefully. Excessive or rough handling can cause cracks or other damage to the cover.

The cassette is loaded and ready to insert into the output device.

Inserting the Cassette

Once you have checked to ensure that the media is loaded properly in the cassette, you can insert the cassette into the proof loader on the output device.

CAUTION: Before moving or carrying the cassette by its handle, be sure that the cover sheet is tucked into the slots and all media is tucked under the tabs and touching the end of the cassette. Never hold the cassette so that the end with metal tabs is higher than the end with the handle. See Figure 16. This can cause the media to slide back into the cassette and out of the tabs.



Incorrect Correct

Figure 16: Handling the cassette

To insert the cassette into the proof loader:

1. Ensure that the media is lying flat at the metal tab end of the cassette.

   Media that is not lying flat will make it difficult to insert the cassette into the loader.

2. Grasp the cassette on both sides with the handle end away from the output device.

3. Holding the cassette horizontally over the proofing access panel, lower it close to the output device until it slides into the appropriate guides in the panel.

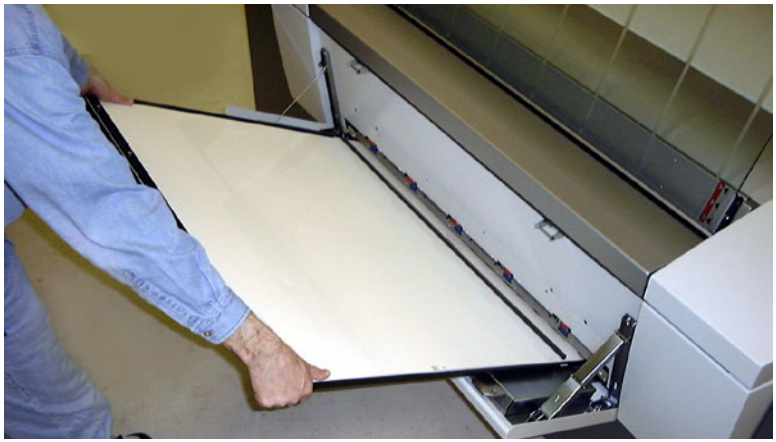


Figure 17: Lowering cassette into proof loader

4. Gently lower the cassette so that it slides fully into the slots.

Note: You may need to flatten the media at the metal tab end just before the cover sheet slides under the unload ramp.

WARNING: Do not insert your fingers into the cassette slot in the loader.

5. Once the cassette is fully in the grooves, push the cassette firmly into the output device until you hear a click on both sides.

   An error message will appear on the workstation if the cassette is not fully inserted when the receiver/donor load begins.

Note: Use the cassette handle for carrying the cassette but grasp the sides of the cassette for more control when inserting and removing the cassette from the output device.

Laminating Proofs

Once the receiver is ejected onto the cassette, you should laminate it as quickly as possible. The laminator should be located so that the imaged receiver can easily be transferred from the top of the cassette to the correct position on the laminator.



CAUTION: Do not put the exposed receiver down or handle it excessively. This will prevent dust and dirt pickup that could affect proof quality.

See your laminator operator guide for detailed instructions on its use and maintenance.

Removing the Cassette

To remove the cassette from the proof loader:

1. Grasp the cassette by its sides.
2. Pull it straight back until both round feet of the cassette are clear of the load ramp.
3. Lift the cassette upwards out of the tracks.



Note: Use the cassette handle for carrying the cassette but grasp the sides of the cassette for more control when inserting and removing the cassette from the output device.



CAUTION: Remove the cassette properly to ensure the cassette feet are not damaged. Bent feet on the cassette can cause cassette loading problems.

Changing the Media Load Order



Note: This section applies only to the Spectrum multi-proof cassette. For information on the single-sheet Spectrum Manual Proofing Option, see *Chapter 4, Manual Proofing Option*.

Your Trendsetter Proofsetter Spectrum output device and workstation software is preconfigured to image proofs with the color donors loaded in the order shown in Table 7 on page 34. If you need to change the order in which the color donors are loaded, you must:

- change the order of the color separators in the cassette
- change the color separation order when you create the page setup for the proof—see the workstation software documentation for instructions
- load the donors and receivers in your media cabinet in the correct order

Installing Separators

Note: This section applies only to the Spectrum multi-proof cassette. For information on the single-sheet Spectrum Manual Proofing Option, see *Chapter 4, Manual Proofing Option*.

Separators come installed as part of the cassette unit. They are anchored in the cassette by a retaining bar and three screws that fit through holes in the separators at the handle end of the cassette.

If a separator is damaged, install a new one (see *Appendix A, Part Numbers*). Separators should be replaced when they are cracked or the edges are curled.

To install a new separator:

1. Loosen the three captive screws at the handle end of the cassette, then remove the retaining bar.

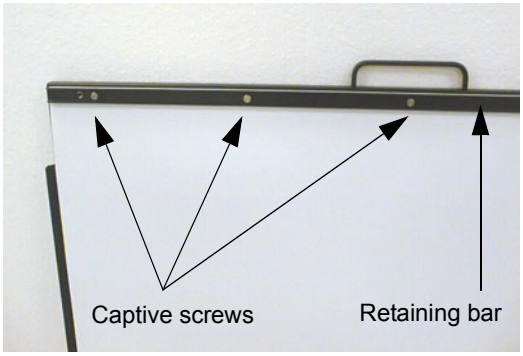


Figure 18: Captive screws and retainer bar

2. Remove the damaged separator you want to replace.
3. Place the new separator in the cassette, over the tabs at the handle end of the cassette, with the color strip and labels facing up.
4. Make sure that the separator is parallel to the sides of the cassette.
5. Make sure the separators are in the correct order from top to bottom (see Table 7 on page 34).
6. Replace the retaining bar, then hand-tighten the three screws at the handle end of the cassette.

Note: Use the same procedure to replace the cover sheet or receiver holder.

Changing the Order of the Donor Separators



Note: This section applies only to the Spectrum multi-proof cassette. For information on the single-sheet Spectrum Manual Proofing Option, see *Chapter 4, Manual Proofing Option*.

Donor separators come installed as part of the multi-proof media cassette unit. They are color-coded to help you load the donors in the correct order, and are arranged in the order KYMC (starting from the bottom of the cassette). This default order results in the proof being imaged with cyan first, followed by magenta, yellow, and black.

If you want the proof to be imaged in a different order, you should change the order of the color-coded donor separators to reflect the change. For example, to image a proof in the order KCMY, the cassette should be loaded in the order shown in Table 8.

Table 8: Non-standard media order in the cassette

TOP OF CASSETTE
Cover sheet
Separator
Receiver
Receiver holder
Black donor
Black separator
Cyan donor
Cyan separator
Magenta donor
Magenta separator
Yellow donor
Yellow separator
BOTTOM OF CASSETTE



CAUTION: Do not change the order of the cover sheet, top separator, receiver, receiver holder, or receiver separator.

To rearrange the color separators:

1. Loosen the captive screws at the handle end of the cassette, then remove the retaining bar.

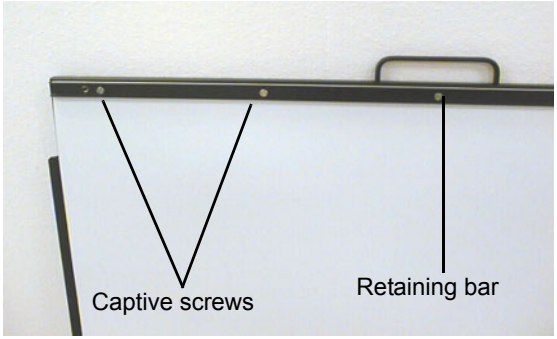


Figure 19: Retaining bar and captive screws

2. Arrange the color separators in the desired order.
3. Place the separators over the tabs at the handle end of the cassette, with the color strip and labels facing up.
4. Make sure the separators are parallel to the sides of the cassette and are in the correct order from top to bottom (see the example in Table 8 on page 45).
5. Replace the retaining bar, then hand-tighten the screws at the handle end of the cassette.

Removing and Disposing of Donors

You must remove the used donors from the top of the cassette after you laminate a proof. Used media does not require special disposal but should be recycled where programs are available.



Important: Reusing the unimaged part of previously used donors is possible (for example, using a partially imaged 8-up donor for a 4-up proof), but it is not supported. When donors are ejected from the output device, the emulsion surface may be scratched, lowering the quality of the next proof.

Storing Media

Store media flat in separate drawers in a media cabinet that is in close proximity to the output device. Drawers in the cabinet should be labelled and media stored in the same order as media will be loaded in cassettes (see Figure 7 on page 34).

Place media within drawers to minimize handling and dust collection. You should be able to use one motion to easily remove media from the drawer and place it in the correct orientation in the cassette.

To put media into media cabinet drawers:

1. Feel for the notched corner of the media to ensure that you place the bag in the drawer in a correct position for cassette loading.
2. Open the bag once it is in the correct position in the drawer.
3. Leave the media in their bags with the opening at the front of drawer.



Note: Do not use the first and last sheet in a new media package (as they may be damaged and may affect your output). You should remove the white protector sheet at the top of the bag after you open the bag.

Storing Cassettes

Store cassettes flat or with the handle end up if stored vertically. You should ensure that the cassettes are stored in a dust-free environment when they are not in use.

Storing Carriers

Carriers should be stored flat in a separate drawer in the media cabinet.



CAUTION: Handle carriers carefully. Replace a carrier with any dents, scratches, or kinks as they can cause image defects.

Never roll carriers; always store them flat. A rolled carrier will not load properly.

Loading Media Automatically

Media (such as plates or film) are loaded onto the load ramp. After loading the first plate, operators can pre-position a second plate. After imaging, the plate is unloaded to an inline processor or plate stacker. To image film, operators must select the manual bypass mode (see *Manual Operation* on page 53). They cannot pre-position a second film while performing manual bypass. After imaging, the film is unloaded back to the load ramp.

The procedures for loading plates or film are almost identical. A note appears where there is a slight difference.



CAUTION: Plate edges can be sharp. Failure to wear protective gloves can result in personal injury.

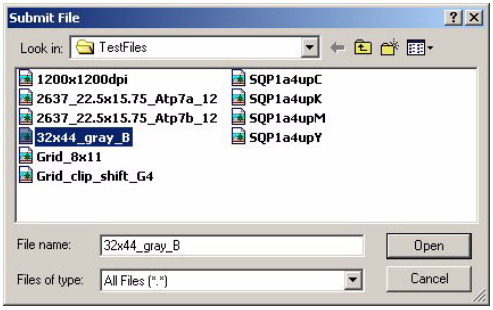


Important: To image film, you may want the Film Guide for the output device. This is an optional piece of equipment that can be ordered free of charge. For more information, contact your authorized service representative.

Before you use thermal film, you must configure Print Console for film. Handle thermal film very carefully, especially when using film with cut edges. Once the front layer is peeled off the film, it is no longer laminated and cannot be imaged. For information, see the Print Console online help or contact an authorized service representative for assistance.

To load a media:

1. In Print Console, submit the file that you want to image.



For the procedure, see the Print Console online help.

2. Ensure that the output device is ready to accept media for imaging.

   This means:

   - Print Console displays a dialog box telling you the size and type of media to load.
   - The status light on the operator interface glows solid blue.
   - The sealed media entry door at the base of the load ramp is open.

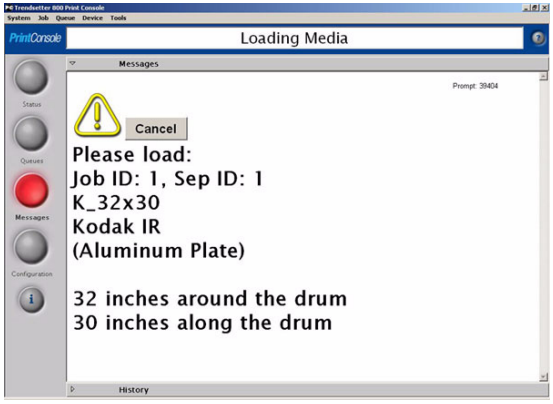


Figure 20: The Loading Media dialog box

3. Determine the size and type of media to load.

4. Wearing gloves, remove the media from the packaging. Discard any packaging material that may be attached to the media.



Note: Remove all slip sheets either before or after you put the media on the load ramp.



CAUTION: You MUST ensure that all slip sheets and packaging material have been removed from both the back and front of the plate before you image them in the output device. Otherwise, the thermal laser could ignite the paper, causing a fire in the output device.

5. Position the media on the load ramp.



Figure 21: Media on load ramp

Do not lean on the output device when you load media. Doing so can result in media misregistration.

Note: Ensure that the side of the media to be imaged (the emulsion side) is facing you. With media, the emulsion side is usually the duller-looking surface.

Note: With thermal film, the side to be imaged is shinier than the back side of the film.

6. Lower the media gently into the output device until it touches the registration pins at the base of the load ramp.

7. Align the media on the load ramp with the appropriate media alignment label.

   Make sure the vertical edges of the media are parallel to the vertical lines etched in the load ramp:

   - Media above 559 mm (22") should be centered on the load ramp (there is no need to shift the media as it is sitting properly on the registration pins).
   - Media above 324 mm (12.75"), up to and including 559 mm (22"), should shifted from center to the right approximately 102 mm (4"). This ensures that the media is sitting properly on the registration pins.
   - Media from 324 mm (12.75") and less, should be shifted from center to the right approximately 165 mm (6.5"). This ensures that the media is sitting properly on the registration pins.



Note: If there are no media alignment labels on the load ramp, contact your authorized service representative.

8. Release the media.
9. Press the **Start** button.



Important: You should not be touching the media when you press the **Start** button.

   The Trendsetter ContinuousLoad Spectrum II output device loads the media (status light flashes green) and then images the media (status light glows solid green).

   The imaged media is ejected onto the unload table (status light flashes blue) and is fed to your plate processor or stacker.

10. If additional jobs are queued for imaging, position another plate on the prestage table.

    While the first plate is being fed to a processor or stacker, the next plate on the load table is loaded.

    The output device will continue to load and image plates until the load table is empty or an error occurs in imaging or plate handling.

Manual Operation

For film and for situations in which automatic plate loading isn't necessary or practical, the output device supports manual media loading. Use the load ramp to position and align a single, manually-loaded media.



Note: The Trendsetter ContinuousLoad Spectrum II system must be configured for manual media-loading before you can use the manual load feature.



CAUTION: Plate edges can be sharp. Failure to wear protective gloves can result in personal injury.

To manually load a media for imaging:

1. In Print Console, do the following:
   - Click the **Configuration** button, and then click **Print Setups**.
   - Select the media size that you will use for the manual load and click **Make Default**.
   - Select the **Manual Bypass** check box and click **Apply.**
2. Follow steps 1 through 9 under *Loading Media Automatically* on page 48.

   The Trendsetter ContinuousLoad Spectrum II loads and then images the media.

   The media unloads back to its original position on the load ramp and the status light flashes blue.
3. Wearing gloves, grasp the edges of the media. Lift the media upwards and carefully remove the media from the load ramp.
4. To return to automatic operation, do the following in Print Console:
   - Click the **Configuration** button, and then click **Print Setups**.
   - Select the media size that you will use for automatic operation, and click **Make Default**.
   - Clear the **Manual Bypass** check box, and click **Apply.**

   The output device is now ready for automatic operation.

Media Registration

Media alignment labels should be affixed to the load ramp of your output device during installation. If they were not, you can affix the labels to the load ramp yourself. These labels act as guidelines to help you align the media during loading. The output device's laser does the more precise registration. The laser beam corrects the registration to within 15 microns if you:

- Load the media to within ±3 mm (0.125") of the correct position on the load ramp. If affixed, the media alignment labels can help you quickly identify the correct position.
- Ensure that the media is resting on the registration pins at the base of the load ramp. These pins ensure that the media registers properly on the drum.

Performing these steps can result in faster overall imaging time, as detection of the media edge occurs more quickly.

Plate Bending and Punching

Ensure that your existing plate bending and punching equipment is configured to match registration points on your output device. See the *Trendsetter 400/800 Quantum Site Preparations and Requirements* document (Creo document number 73-3145).

For additional information, contact your authorized service representative.

4 Manual Proofing Option

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Overview

This chapter describes how to image proofs and handle media with the Manual Proofing option for the Trendsetter 800 Spectrum output device. See *Chapter 3, Operation* for information on other common operations, such as:

- *Starting the Trendsetter ContinuousLoad Spectrum II* on page 26
- *Shutting Down the Trendsetter ContinuousLoad Spectrum II* on page 27
- *Opening and Closing the Proofing Access Panel* on page 27
- *Removing and Disposing of Donors* on page 46
- *Storing Media* on page 47
- *Storing Cassettes* on page 48
- *Storing Carriers* on page 48
- *Media Registration* on page 54

Manual Proofing Cassette

The Spectrum manual proof cassette is designed to load one sheet of proofing media at a time into the Spectrum output device. The cassette has a top cover sheet and a media-loading sheet underneath it. You insert the proofing medium between these two sheets prior to loading.

The top cover sheet, when closed, performs the following functions:

- Protects media from dust and prevents the top of a medium from being scratched as it is loaded into the Spectrum device.
- Prevents the medium from sliding back down into the cassette when it is unloaded.

The media-loading sheet is marked with border tape to indicate the proper placement of the proofing medium. A pair of labels indicates the correct orientation of the media notches in the cassette.

Media Handling and Placement of Media Cabinets

It is strongly recommended that you place the media cabinets close to the device. Alternatively, you can place the cabinets on tables with casters so that they can be wheeled close to the device. Either method allows you to pull a medium out of the cabinet and place it into the cassette in one smooth motion, handling it by its edges to avoid scratches or smudges. This reduces the risk of the media being exposed to dust and damaged from excessive handling.

Another advantage of having the media cabinets close to the device is that this allows you to leave the Spectrum cassette inserted into the cassette tray during the entire media loading process. After each sheet of media is loaded, you just pull the next one from the media cabinet and insert it into the cassette.

Loading the Cassette

To load the receiver:

1. Insert the cassette into the device's cassette tray.
2. Open the top cover sheet.
3. Place the receiver onto the media-loading sheet with the notched corner positioned as indicated by the label on the separator.

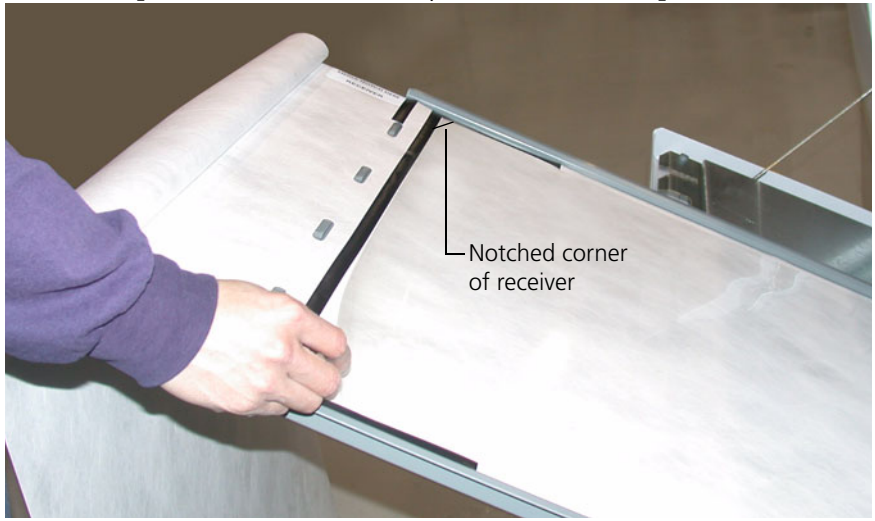


Figure 22: Placing the receiver onto the media loading sheet

4. If the receiver is curled upwards, remove the cassette from the device, tuck the leading edge of the receiver under the metal tabs, and then reinsert the cassette.
5. Close the cover sheet to protect the medium from dust and scratches.

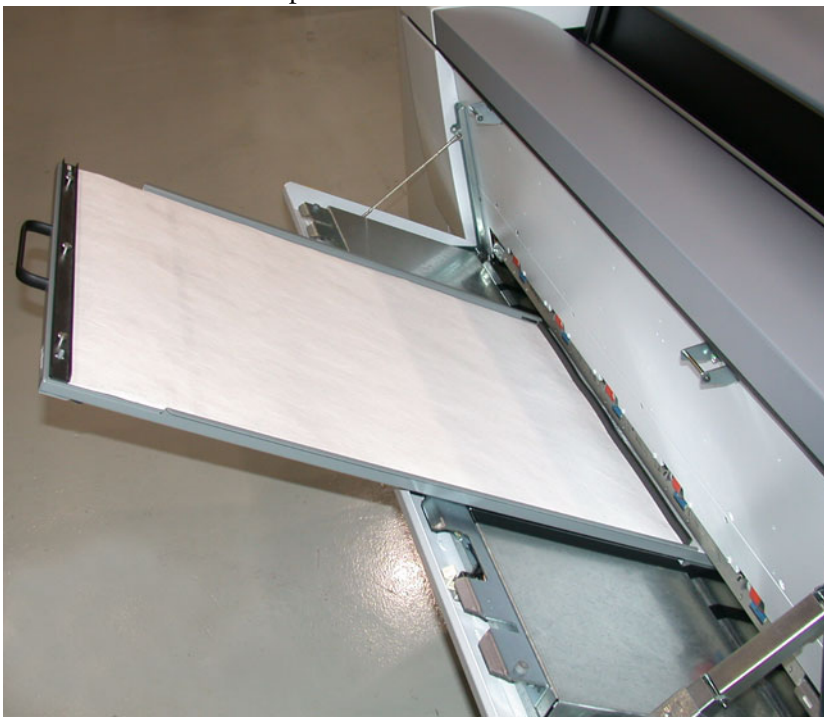


Figure 23: Loaded cassette with top cover sheet closed

6. After a job has been submitted, the workstation software will prompt you to load the medium. Push the green Start button on the device to load the receiver.

To load a donor:

1. Open the top cover sheet.
2. Place the donor onto the loading sheet with the notched corner positioned as indicated by the label.

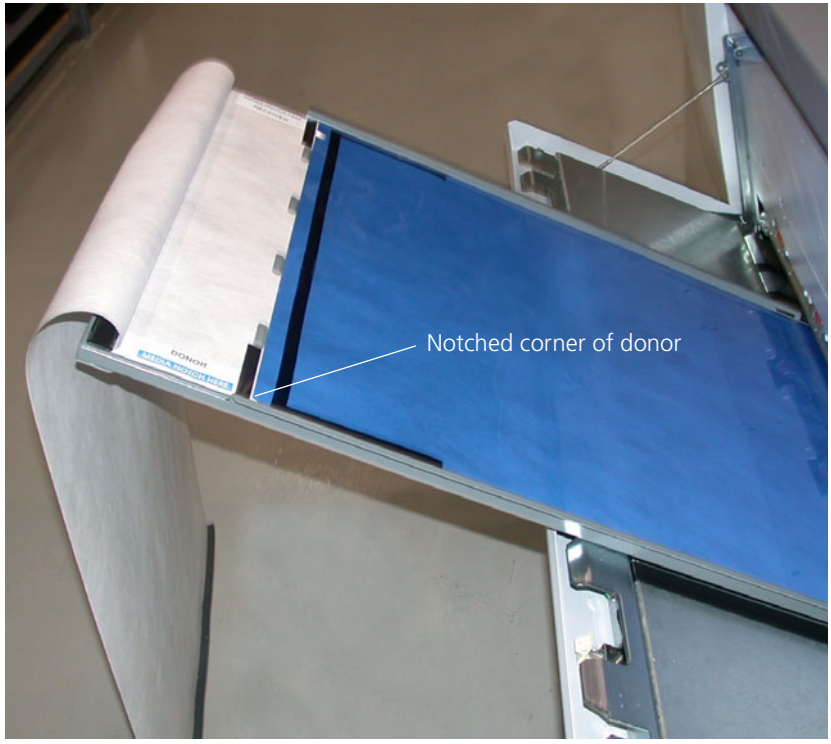


Figure 24: Placing a donor onto the media loading sheet

3. Ensure that the correct color is placed into the cassette.
4. Close the cover sheet to protect the media from dust and scratches.
5. Push the green Start button to load the donor sheet into the Spectrum device.
6. Repeat steps 1 to 4 to prepare the next donor sheet for loading into the Spectrum device.
7. After the donor sheet that you loaded in step 5 has been imaged, push the green Start button to unload it.



Note: Ensure that the top cover sheet is closed prior to unloading the imaged donor.

8. Push the green Start button to load the next donor.
9. Repeat steps 1 to 8 until all the separations have been imaged.

Unloading the Imaged Receiver

After all the donors have been imaged, you can unload the thermal halftone proof imaged onto the receiver.

To unload the imaged receiver:

1. Ensure that the top cover sheet of the cassette is closed.
2. Push the green Start button to unload the receiver.

Replacing the Media-Loading Sheet

To replace an old media-loading sheet with a new one:

1. Loosen the screws attaching the retaining bar to the handle end of the cassette, and then remove the retaining bar.
2. Remove the damaged media-loading sheet that you want to replace.
3. Place the new media-loading sheet in the cassette, over the tabs at the handle end of the cassette, with the labels facing up.
4. Ensure that the separator is parallel to the sides of the cassette.
5. Remove the backing from the adhesive strip along the bottom edge of the media-loading sheet.
6. Taking care to ensure that the media-loading sheet is smooth and straight, press the bottom edge to adhere it to the cassette.

5

Maintenance

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Maintenance Schedule

Table 9 on page 63 outlines the maintenance required to achieve optimum performance and quality from your output device.

Failure to perform this maintenance can result in poorer performance and can cause serious damage to your output device. Although it requires several hours of scheduled downtime, regular maintenance ensures that your output device is properly maintained and minimizes unscheduled break-downs.

Keep records of when you perform maintenance on the output device.

If you have a Creo service contract, you should schedule regular six-month service visits by an authorized service representative. However, if your operating conditions require maintenance more frequently, we strongly recommend that you perform these maintenance procedures prior to a service visit.



WARNING: Before performing any maintenance procedure, ensure that the output device is not imaging media. The output device should then be shut down.



DANGER: Never attempt to operate the output device with any of the access panels open, and never attempt to open or remove access panels while the output device is imaging media. Tampering with the interlock system can result in serious personal injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.

Table 9: Schedule of recommended maintenance procedures

Description	Location	Maintenance Procedure	Clean	Replace Every
Exterior surfaces	Output device exterior	See page 65.	Weekly	N/A
Glass ramp	Load ramp	See page 66.	Weekly	N/A
Suction cups	Load ramp	See page 97.	Monthly	Inspect and replace (if worn) every 6 months
Clean interior surfaces	Output device interior	See page 73.	Monthly	N/A
Drum (devices running chemistry-free plates)	Drum	See page 74.	Weekly	N/A
Plate guide (devices that are V-speed and/or running chemistry-free plates)	On clamp that secures leading edge of plate or carrier to drum	See page 75.	Weekly	N/A
Edge detection strip	On drum	See page 77.	Every 3 months	N/A
Plate roller	Roller that holds media to the drum during media loading	See page 78.	Monthly	N/A
Contact cleaning roller (blue)	Proof loader	See page 79.	Weekly	N/A
Tape roller	Proof loader	See page 81.	Renew weekly	As needed
Vacuum roller	Proof loader	See page 83.	Weekly	N/A
Check filter bowls for accumulation of water or oil	Filters inside the front end access panel	See page 86.	Weekly	3 months

Description	Location	Maintenance Procedure	Clean	Replace Every
5 micron filter	Lower-right back panel	See page 87.	Weekly	3 months
0.01 micron filter	Lower-right back panel	See page 90.	Weekly	3 months
85% filter (24" x 12" x 2")	Inside the fan box	See page 94.	N/A	6 months
30% intake pre- filter (24" x 12" x 1")	Inside the fan box	See page 94.	N/A	2 months
Ablative media filter	Debris removal cabinet	See *Universal Debris Removal Cabinet Operator Guide*.	N/A	When error message appears on workstation
Debris removal cabinet	Vacuum interior of debris removal cabinet	See *Universal Debris Removal Cabinet Operator Guide*.	Monthly	N/A
Carrier	N/A	See page 96.	Daily/every load	As needed

For part replacement information, see *Appendix A, Part Numbers*.

For Your Safety

Output device access panels are fitted with an interlock system that protects against injury from laser radiation and moving mechanical parts. If a panel is opened or removed while the output device is operating, all mechanical moving parts will stop activity. If mechanical movements do not stop, do the following:

1. Shut down the output device.
2. Close or replace the access panel.
3. Contact your authorized service representative

Do NOT touch or attempt to stop moving internal parts of the output device.



DANGER: Never attempt to operate the output device with any of the access panels open, and never attempt to open or remove access panels while the output device is imaging media. Tampering with the interlock system can result in serious personal injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.

Cleaning Exterior Surfaces

Clean the exterior of the Trendsetter ContinuousLoad Spectrum II weekly.

Cleaning the exterior surfaces of the output device preserves the appearance and finish, and ensures that visual indicators and markings are clearly visible. More importantly, regular cleaning reduces the amount of dust that can fall into the device when access panels are removed or opened.

The most sensitive areas for dust accumulation are the fan box panel, power box panel, front and top panels, and the area where media enter and exit the output device.

Clean the debris removal cabinet exterior weekly. See the *Universal Debris Removal Cabinet Operator Guide*.

Reliable and high-quality output depends on keeping the exterior of the output device clean.

Cleaning Recommendations

Before cleaning exterior surfaces of the output device, vacuum all access panel seams to remove any accumulated dust. It may be sufficient to simply wipe the surfaces clean with dry cloths, if it is done frequently and if the environment is relatively dry and free of vapors. For a more thorough cleaning, use cloths dampened with water and a mild detergent. Thoroughly wipe off all detergent residue with a clean, damp cloth.



WARNING: Do not allow water or other liquids to get inside the output device. This can result in serious injury or death from electrical shock as well as damage to the equipment.

Removing Stains

To remove stains (such as ink) from exterior surfaces of the output device, immediately wipe the stain with a cloth dampened with water and a mild detergent. Thoroughly wipe off all detergent residue with a clean, damp cloth. If the stains do not come off with mild detergent and water, use a small amount of isopropyl alcohol to remove the stain.

Cleaning the Load Ramp

Clean the glass load ramp weekly with a clean cloth and glass cleaner.



CAUTION: Do not spray chemical glass cleaner directly on the load ramp, as it could run into the interior of the output device and cause damage. Dampen a cloth with cleaner first, and then wipe the load ramp clean.

To clean the glass load ramp:

1. Dampen a clean cloth with glass cleaner.
2. Gently wipe the load ramp clean, leaving it dry.

Accessing the Interior of the Output Device

Regular maintenance and troubleshooting require access to some internal areas of the output device. The following sections describe how to access these areas.

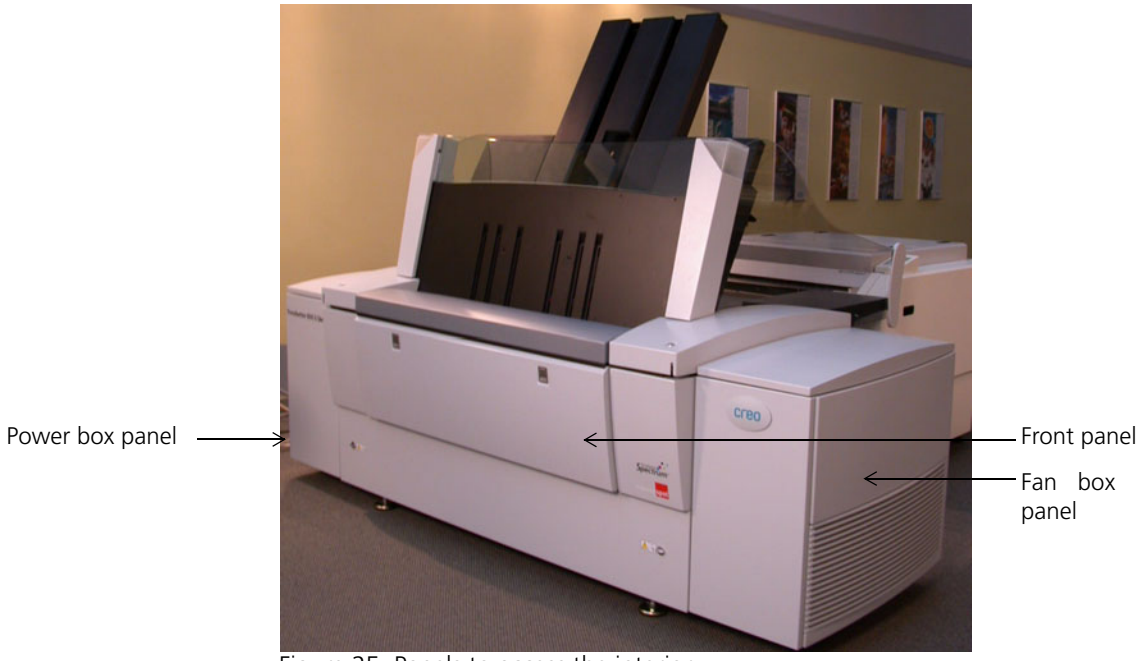


Figure 25: Panels to access the interior

The back-hinged top panel, top-hinged front panel, power box panel, and fan box panel provide operator access to the interior of the output device. The power box and fan box panels must be lifted off the output device and put back on afterward. The rear access panel should only be removed by a service representative.

Note: Opening or removing panels will turn off power to the laser. It takes up to two minutes for the laser to warm up again after the panels are closed or replaced. You cannot image media while the laser is warming up.

CAUTION: Opening access panels is unavoidable, but should be kept to a minimum to reduce the accumulation of dust in and around sensitive components.

Opening and Closing the Front/Top Access Panels

The front and top access panels are coupled; opening the front panel automatically opens the top access panel. You must open these panels to:

- Remove a stuck plate from the drum—see *Removing a Stuck Media From the Output Device* on page 125
- Clean the plate roller—see *Cleaning the Plate Roller* on page 78
- Clean the tape roller—see *Replacing the Tape Roller* on page 82
- Clean the vacuum roller—see *Cleaning the Vacuum Roller* on page 83
- Contact cleaning roller—see *Cleaning the Contact Cleaning Roller* on page 79
- Clean the edge detection strip—see *Cleaning the Edge Detection Strip* on page 77
- Inspect and replace compressed air filters—see *Compressed Air Supply Filters* on page 85
- Check for debris near the exposure head



CAUTION: Most of the time, the front panel will be locked. You must follow these instructions to open the front panel. Use of excessive physical force will damage the panel.

To open the front/top access panels:

1. In Print Console, from the **Device** menu, select **Unlock panel doors**.

   The front panel unlocks.

2. Rotate the two latches on the front panel 90º counterclockwise (to the vertical position).



Figure 26: Latches on the front panel

3. Lift the front panel upward.

   The front panel is controlled by gas struts and automatically lifts open.

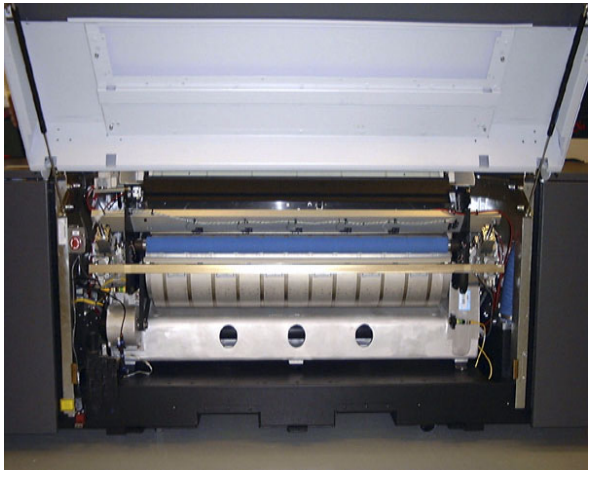


Figure 27: Raised front panel

CAUTION: Do not bump your head on the raised panel.

To close the front/top access panels:

1. Grasp the open front panel, and pull downward until it closes.
2. Rotate both latches 90º clockwise (to the horizontal position) to secure the front panel.
3. Pull the open top panel down and push down on the two corners so that the panel engages the latches.

Accessing and Closing the Proof Loader

The proof loader is equipped with a release and handle to provide access to the rollers (see Figure 28 below). You must access the proof loader to:

- Clean the vacuum roller—see *Cleaning the Vacuum Roller* on page 83
- Clean the contact cleaning roller—see *Cleaning the Contact Cleaning Roller* on page 79
- Renew or replace the tape roller—see *Renewing the Tape Roller* on page 81

To access the proof loader:

1. Open the front/top access panel.

   See *For Your Safety* on page 64.

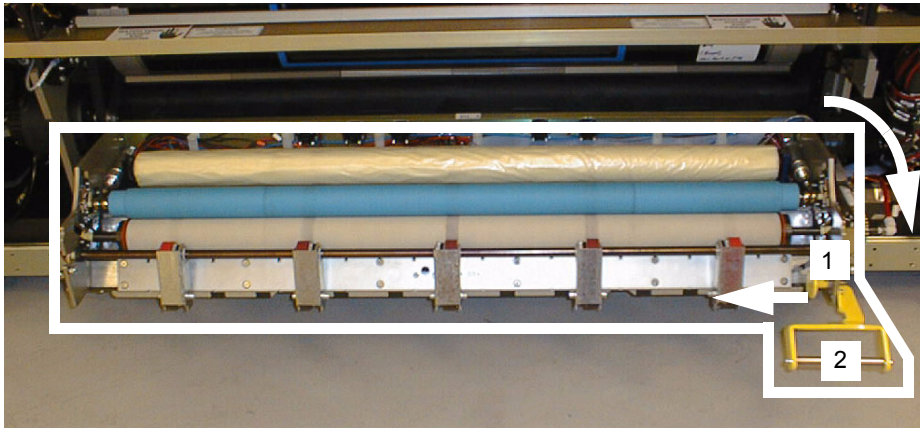


Figure 28: Proof loader

2. Pull the yellow knob (1) on the right side of the loader sideways.

3. While holding the yellow knob, grasp the large yellow handle (2) and pull it towards you.

   The proof loader will pivot outward 90° and stay there. The tape roller, contact cleaning roller, and vacuum roller are accessible.

To close the proof loader:

- Lift the yellow handle on the right side of the proof loader.

  Once you have moved the handle halfway up, the loader will close by itself.

Removing and Replacing the Fan Box Panel

You must remove the fan box panel to replace the intake air filter.



Important: Before performing any maintenance procedure, ensure that the output device is not imaging media. The output device should then be shut down.

To remove the fan box panel:

1. With the palms of your hands, push the upper corners of the fan box panel until you hear both latches click.

   The panel pops open.



Figure 29: Remove the fan box panel

2. Lift the panel up and away from the output device.

   Put the panel in an out-of-the-way area.

To replace the fan box panel:

1. Lift the fan box panel and align the locating holes on the panel with the locating pins on the output device. Lower the bottom of the panel onto the pins.

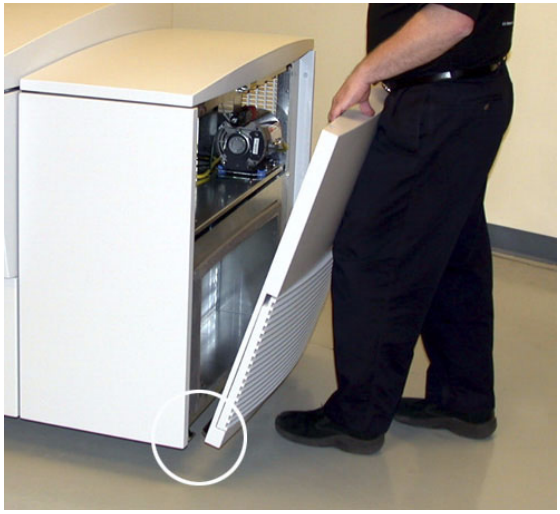


Figure 30: Replace the fan box panel

2. Put the panel against the device, and then push the upper panel corners in until you hear both latches click.

   Ensure that both fan box panel latches are locked.

Removing and Replacing the Power Box Panel

You must remove the power box panel to reset the circuit breaker when it is tripped, or to replace the pump fuse.



Important: Before performing any maintenance procedure, ensure that the output device is not imaging media. The output device should then be shut down.

To remove the power box panel:

1. Shut down the output device.
2. Push on the upper corners of the panel with the palms of your hands, until you hear a click (see Figure 29 on page 71 as an example of how to do this).

   The panel pops open.
3. Lift the panel up and away from the output device.

   Place the panel in a safe place.

To replace the power box panel:

1. Lift the panel and line up the locating holes with the locating pins. Place the bottom of the panel onto the pins (see Figure 30 on page 72 as an example of how to do this).
2. Press the panel against the device frame and then push the upper panel edges in until you hear a click.

   The touch latches are locked.
3. Turn the power for the output device on.

Cleaning the Interior of the Output Device

You should perform routine maintenance on interior areas of the output device regularly as outlined in Table 9 on page 63.



WARNING: Do not allow water or other liquids to get inside the output device. This can result in personal injury or electric shock as well as damage to the equipment.

Cleaning the Drum (devices with chemistry-free plating option only)

Clean the drum (particularly the end closest to the power box panel) once a week to prevent accumulated debris from contaminating your proofs.

1. Ensure the output device is not currently imaging a medium.
2. Shut down the output device.

   See *Shutting Down the Trendsetter ContinuousLoad Spectrum II* on page 27.
3. Open the front panel.

   See *Opening and Closing the Front/Top Access Panels* on page 68 for more information.
4. Soak a Texwipe TX1009 Alphawipe in a mixture of 90% isopropanol and 10% distilled water.

   WARNING: Read and follow all precautions provided by the manufacturer of the isopropanol. Failure to do so can result in personal injury or damage to the output device.
5. Rotate the drum by hand and use the Texwipe TX1009 Alphawipe to remove any debris buildup from the drum.

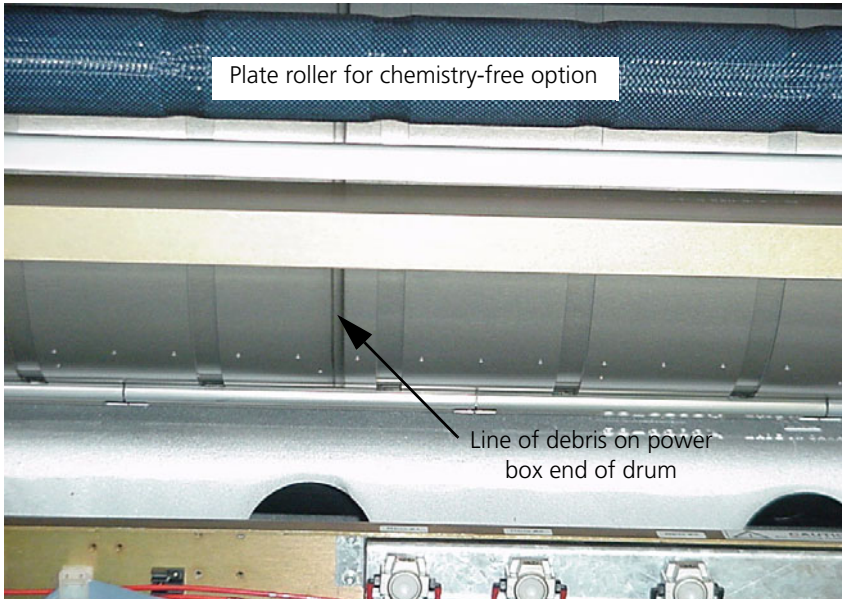


Figure 31: Debris on drum from chemistry-free plating option

6. Close the front panel.

Cleaning the Plate Guide (V-Speed & chemistry-free plating devices only)

Before switching to imaging proofs from imaging plates, you must clean the plate guide (see Figure 32) to prevent any debris from contaminating your proofs.

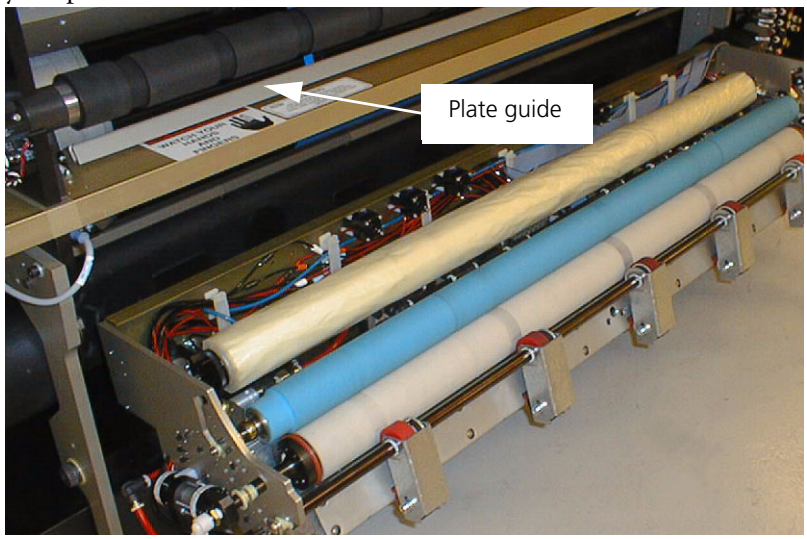


Figure 32: Plate guide

1. Load a carrier (see *Loading the Carrier* on page 30).
2. Open the front panel (see *Opening and Closing the Front/Top Access Panels* on page 68) and lower the proof loader (see *Accessing and Closing the Proof Loader* on page 70).
3. Soak a Texwipe TX1009 Alphawipe in a mixture of 90% isopropanol and 10% distilled water.

WARNING: Read and follow all precautions provided by the manufacturer of the isopropanol. Failure to do so can result in personal injury or damage to the output device.

4. Clean the rear of the plate guide along its entire length, as shown in Figure 33 below.

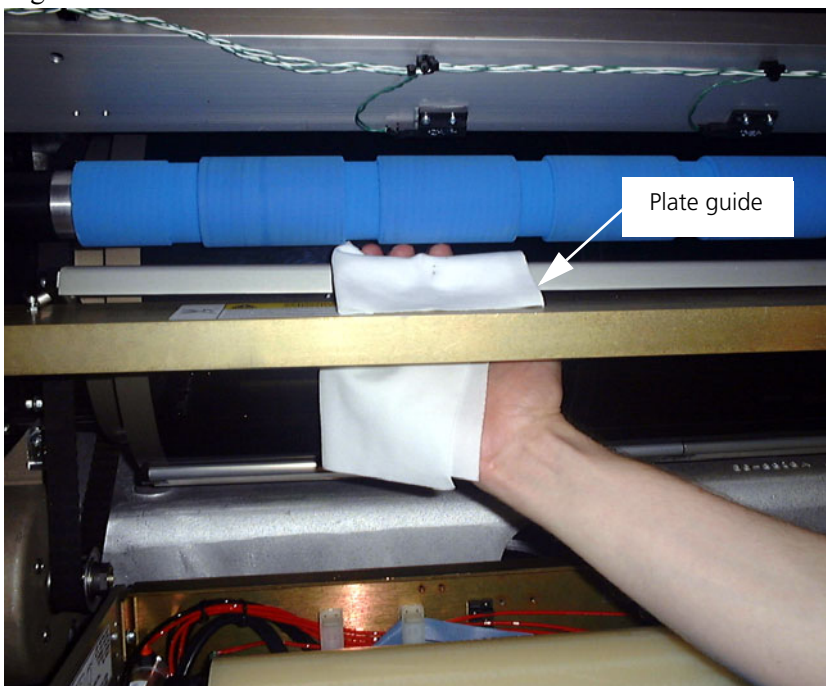


Figure 33: Cleaning the plate guide

5. Close the front panel.

Cleaning the Edge Detection Strip

To register an image to the edge of a media, the output device uses an edge-detection algorithm. This algorithm relies on a 741 mm (29.2") strip set into the surface of the drum inside the output device, beside the leading-edge clamps. This strip is black and non-reflective.

You must clean the edge detection strip every three months or when it is dirty to avoid false edge detections.

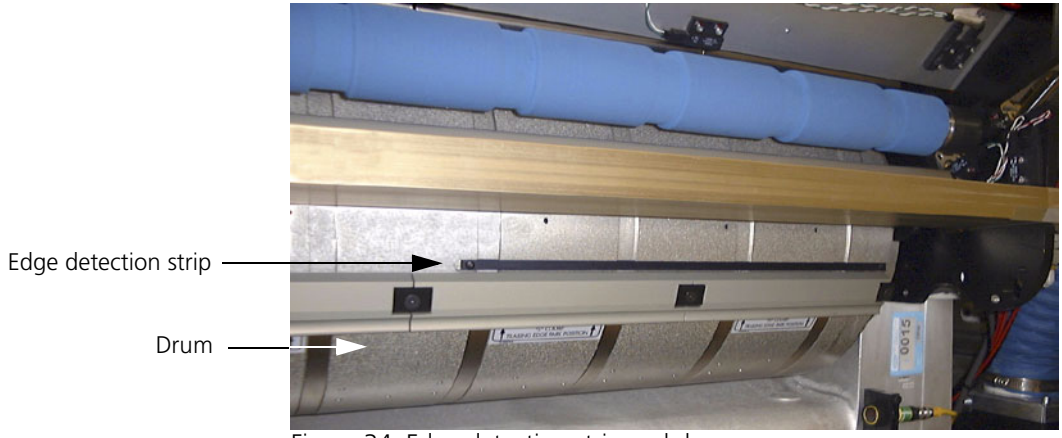


Figure 34: Edge detection strip and drum

To clean the edge detection strip:

1. Ensure that the output device is not currently imaging media.
2. Shut down the output device.

   See *Shutting Down the Trendsetter ContinuousLoad Spectrum II* on page 27.
3. Open the front panel.

   See *Opening and Closing the Front/Top Access Panels* on page 68.
4. Rotate the drum by hand until the edge detection strip is visible.

   Figure 34 on page 77 shows the location of the drum and the edge detection strip.

5. Dampen a lint-free cloth (for delicate tasks) with a mixture of isopropanol and distilled water (minimum 90% isopropanol), and swipe along the strip once, in one direction only.

   Be careful not to leave any fingerprints or smudges on the strip.

Note: Kimwipes® EX-L (Wipers) from Kimberly Clark are recommended for cleaning the edge detection strip.

CAUTION: Read and follow all precautions provided by the manufacturer of the isopropanol. Failure to do so can result in personal injury or damage to the output device.

6. Close the front panel.

   See *Opening and Closing the Front/Top Access Panels* on page 68.

Cleaning the Plate Roller

Clean the plate roller monthly.

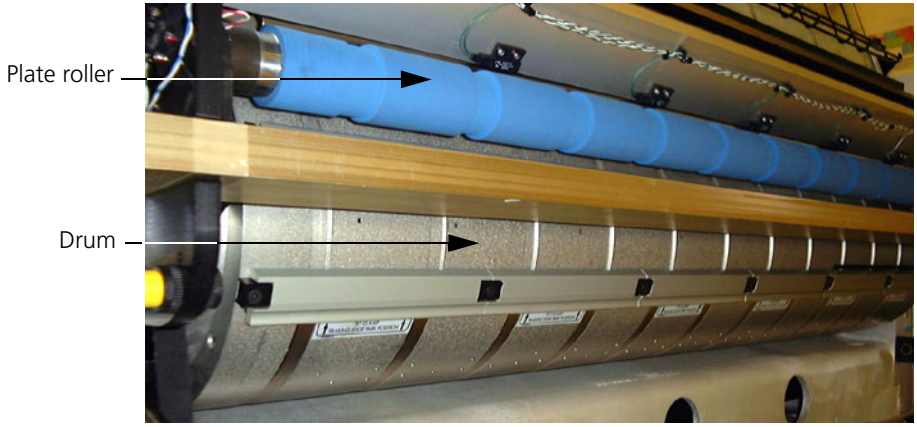


Figure 35: Plate roller and drum

CAUTION: Do not damage or bend the plate roller, and never put any pressure on it.

To clean the plate roller:

1. Ensure that the output device is not currently imaging media.
2. Shut down the output device.

   See *Shutting Down the Trendsetter ContinuousLoad Spectrum II* on page 27.
3. Open the front panel.

   See *Opening and Closing the Front/Top Access Panels* on page 68.
4. Wipe the plate roller (bright blue) gently with a damp lint-free cloth (for delicate tasks).
5. Close the front panel.

   See *Opening and Closing the Front/Top Access Panels* on page 68.

Cleaning the Contact Cleaning Roller

You should clean the contact cleaning roller once a week to prevent proof artifacts caused by debris. The contact cleaning roller is the blue roller between the tape roller and vacuum roller in the proof loader. See *Tape, vacuum, and contact cleaning rollers* on page 81.



CAUTION: Avoid getting oil or grease on any rollers as it could affect proof quality and damage rollers.

To clean the contact cleaning roller:

1. Open the proof loader.

   See *Accessing and Closing the Proof Loader* on page 70 for more information.
2. Soak a Texwipe TX1009 Alphawipe in a mixture of 90% isopropanol and 10% distilled water.



Note: You must use Texwipe TX1009 Alphawipes for cleaning the contact cleaning roller. Use of other materials could leave residue on the roller and affect proof quality.



CAUTION: If the Alphawipe is not soaked, parts of it may tear off and stay on the roller. Once the wipe dries, discard it and use a new Alphawipe soaked in alcohol.



WARNING: DO NOT dip a dried or used wipe into the clean alcohol container again as it will contaminate the alcohol.

WARNING: Read and follow all precautions provided by the manufacturer of the isopropanol. Failure to do so can result in personal injury or damage to the output device.

3. Clean the contact cleaning roller with long broad strokes starting at one end of the roller and ending at the other.

   See *Tape, vacuum, and contact cleaning rollers* on page 81.

4. Rotate the roller by hand, turning the end of the roller and continue cleaning until you can no longer remove any dirt.

5. Use a new wipe soaked in the alcohol solution if the wipe dries out.



CAUTION: Do not get the alcohol solution on the tape roller as it will dissolve the adhesive.

6. Wait a minute or so until the roller is completely dry.

7. Close the proof loader.

   See *Accessing and Closing the Proof Loader* on page 70 for more information.

Renewing the Tape Roller

You should renew the tape roller once a week to prevent proof artifacts caused by debris. The tape roller is the sticky roller closest to the inside of the output device and next to the contact cleaning roller in the proof loader.

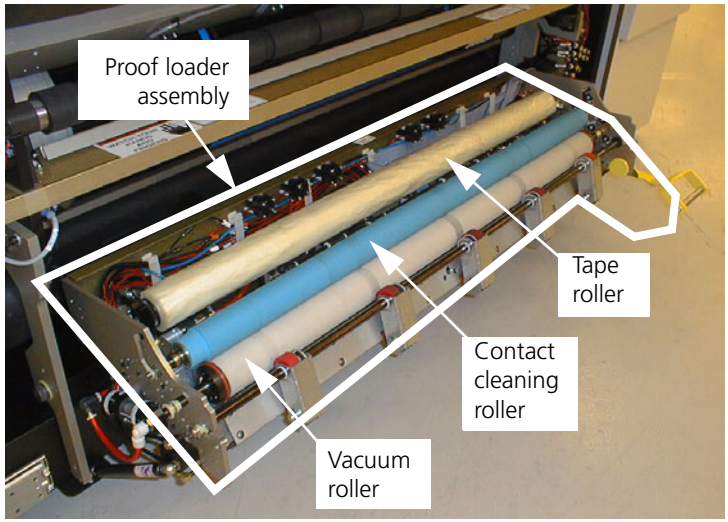


Figure 36: Tape, vacuum, and contact cleaning rollers

CAUTION: Avoid getting oil or grease on any rollers as it could affect proof quality and damage rollers.

To renew the tape roller

1. Open the proof loader.

   See *Accessing and Closing the Proof Loader* on page 70 for more information.

2. Find the start of the tape roller.
3. Peel the tape back until you expose the next row of perforations (about 9" or 228.6 mm).
4. Tear off the tape at the perforations and discard.
5. Ensure that the new edge is flat against the roll.
6. Close the proof loader.

   See *Accessing and Closing the Proof Loader* on page 70 for more information.

Replacing the Tape Roller

You should replace the tape roller when it is empty. The tape roller is the sticky roller closest to the inside of the output device and next to the contact cleaning roller in the proof loader. See Figure 36 on page 81.

To replace the tape roller:

1. Open the proof loader.

   See *Accessing and Closing the Proof Loader* on page 70 for more information.

2. Pull the release ring on one end of the tape roller and lift the roller up about 1" (25.4 mm).
3. Release the ring and rest the roller back down.
4. Pull the release ring on the opposite end of the roller and lift the roller out of the loader.
5. Hold the roller on end with the knurled knob at the top.
6. Hold the roller's shaft and unscrew the knurled knob on one end of the roller.
7. Remove the knob.
8. Remove the old tape roll tube from the shaft.
9. Place a new tape roll on the shaft.
10. Hand tighten the knurled knob.
11. Place the roller into the proof loader arms with the blue end of the roll against the blue arm.



CAUTION: If the tape roll is in backwards, the tape will wrap around the other rollers and media and/or cause stalled loading.

12. Pull the two release rings on the arms and the roller will fall into place.
13. Close the proof loader.

    See *Accessing and Closing the Proof Loader* on page 70 for more information.

Cleaning the Vacuum Roller

You should clean the vacuum roller once a week to prevent proof artifacts caused by debris. The vacuum roller is the roller closest to the outside of the open proof loader and next to the contact cleaning roller. See Figure 36 on page 81.

CAUTION: Avoid getting oil or grease on any rollers as it could affect proof quality and damage rollers.

To clean the vacuum roller:

1. Open the proof loader.

   See *Accessing and Closing the Proof Loader* on page 70 for more information.

2. Soak an Alphawipe in a mixture of 90% isopropanol and 10% distilled water.

   Note: You must use Texwipe TX1009 Alphawipes for cleaning the vacuum roller. Use of other materials could leave residue on the roller and affect proof quality.

   CAUTION: If the Alphawipe is not soaked, parts of it may tear off and stay on the roller. Once the wipe dries, discard it and use a new Alphawipe soaked in alcohol.

   WARNING: DO NOT dip a dried or used wipe into the clean alcohol container again as it will contaminate the alcohol.

   WARNING: Read and follow all precautions provided by the manufacturer of the isopropanol. Failure to do so can result in personal injury or damage to the output device.

3. Clean the vacuum roller with long broad strokes starting at one end of the roller and ending at the other.

   CAUTION: Be careful not to damage the vacuum cups during cleaning.

4. Rotate the roller by hand, turning the end of the roller.
5. Continue cleaning until you can no longer remove any dirt.
6. Use a new wipe soaked in the alcohol solution if the wipe dries out.

   CAUTION: Do not get the alcohol solution on the tape roller as it will dissolve the adhesive.

7. Make sure the cups are clean.

8. Inspect the cups for any damage.

   Report any damage to your service representative.

9. Wait a minute or so until the roller is completely dry.

10. Close the proof loader.

    See *Accessing and Closing the Proof Loader* on page 70 for more information.

Replacing Air Supply Filters

There are two air filtration systems in the output device:

- Compressed air supply filter system—two filters on the lower-right back panel
- Cooling-air filter system—access the intake air filter by removing the fan box panel

Inspect and replace these filters regularly.

Frequency of Filter Replacement

Do not use the appearance of filters to determine when the filters should be cleaned or replaced. They can seem dirty before they need to be replaced if there is coarse dust in the operating environment, and they can appear clean when they need to be replaced if there are smaller particulates in the air.

Air supply filters should be replaced every six months. For customers with service contracts, this will be done by an authorized service representative during the six month service visit. However, if your operating conditions require air supply filter replacement more often, we strongly recommend that you perform this maintenance procedure prior to a service visit.

Compressed Air Supply Filters

There are two compressed air supply filters:

- 5 micron

  This filter is white.

- 0.01 micron (micro-mist)

  This filter is black.

The filters are located on the lower-right back panel of the output device. These filters clean and dry the compressed air that is supplied to the output device pneumatics.

CAUTION: Turn off the compressed air before replacing the air supply filters.

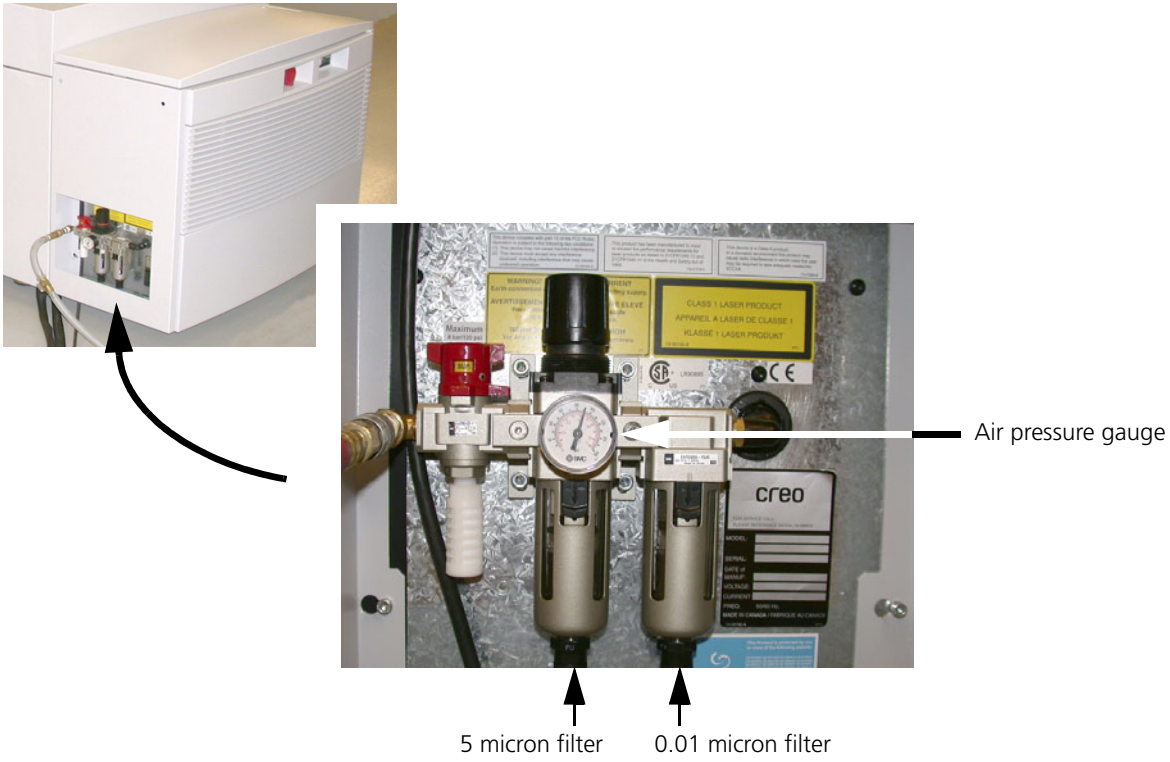


Figure 37: Compressed air supply filter system

The compressed air supply filters can become clogged if they are not replaced every six months. Clogged filters can cause air pressure problems in the output device. If a filter is allowed to fail, contaminants can damage the air system in the output device.

Both compressed air supply filters should be replaced at the same time. Do not replace one filter and not the other.

The compressed air must be turned off before you replace the compressed air supply filters. When you turn off the compressed air, the air bleeds completely out of the output device and the pressure gauge on the filtration device reads zero. When you turn the air pressure back on, normal air pressure on the filtration device should read 90 psi.

Replacement Parts

You can order replacement parts for the compressed air supply filter system from Creo Inc. See *Appendix A, Part Numbers*.

WARNING: Read and follow all precautions provided by the manufacturer of the filters used in the compressed air supply system. Failure to do so can result in personal injury or damage to the output device.

Inspecting the Compressed Air Supply Filters

Inspect the compressed air supply filters weekly.

When you inspect the filter bowls, check for water or oil. If there is any water or oil, notify the authorized service representative for your air compressor.

The water or oil comes from the external compressed air supply system. It is important to have the external air supply system inspected and repaired before the Trendsetter ContinuousLoad Spectrum II is permanently damaged.

WARNING: Failure to shut off the compressed air system before replacing a compressed air filter can result in serious injury or damage to the output device.

To inspect the filters:

1. Ensure that the output device is not imaging media.
2. Turn the orange air shutoff valve clockwise to the Off position to shut off the compressed air supply.

   See Figure 38 on page 88 or Figure 42 on page 91.

3. Shut down the output device.

   See *Shutting Down the Trendsetter ContinuousLoad Spectrum II* on page 27.

4. Check the filter bowls for any accumulation of water or oil, and for any cracks or crazing in the filter bowl.



CAUTION: Notify your authorized air compressor service representative immediately if you find water or oil in the filter bowls.

Compressed Air Specifications

The compressed air supply for the output device should conform to the specifications in ISO 8573:

- Maximum particle size—150 microns (0.006 in)
- Concentration of solid contaminants—8 mg/m³ (0.000216 ounce/yard³)
- Maximum pressure dew point—3°C (37.4°F)
- Maximum oil content—5 mg/m³ (0.000135 ounce/yard³)

The air temperature should not exceed normal room temperature, to prevent oil vapor transmission to the output device.

Replacing the 5 Micron Filter

Replace the 5 micron filter every six months.

To replace the 5 micron filter:

1. Ensure that the output device is not imaging media.
2. Shut down the output device.

   See *Shutting Down the Trendsetter ContinuousLoad Spectrum II* on page 27.

3. Rotate the orange air shutoff valve clockwise to the Off position to turn off the compressed air supply.

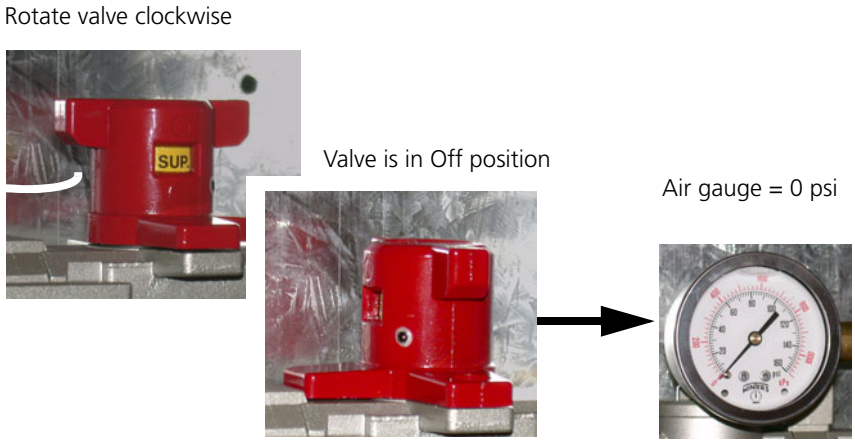


Figure 38: Shut off the compressed air supply

CAUTION: Failure to shut off the compressed air system before replacing a compressed air filter can result in personal injury or damage to the output device.

4. Pull down the black tab on the front of the filter bowl. This releases the lock on the filter bowl.

   At the same time, rotate the filter bowl a quarter turn (in either direction) and pull the filter bowl down to remove it.

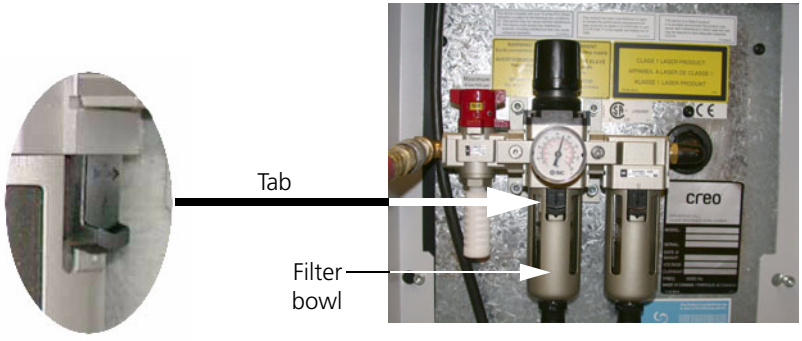


Figure 39: Pull down the black tab

5. Turn the black plastic disk clockwise to unscrew the filter assembly.

6. Remove the used 5 micron filter from the black spool and discard.



Figure 40: The 5 micron filter

7. Install a new 5 micron filter on the spool and screw the black plastic disk back into the filter assembly until you feel it click.
8. Pull the old rubber O-ring off the filter bowl and replace it with the new O-ring.
9. Check the filter bowl for any damage or deterioration such as crazing or cracking.

   Contact your authorized service representative if replacement is necessary.
10. Check for water or oil in the filter bowl.

    If there is water or oil in the filter bowl, contact your authorized service representative to have the air supply inspected.
11. Reinstall the filter bowl.

    If you have not replaced the 0.01 micron filter, skip step 12 and proceed to *Replacing the 0.01 Micron Filter* on page 90.

12. Rotate the orange air shutoff valve counter-clockwise to the On position to turn the compressed air supply back on.

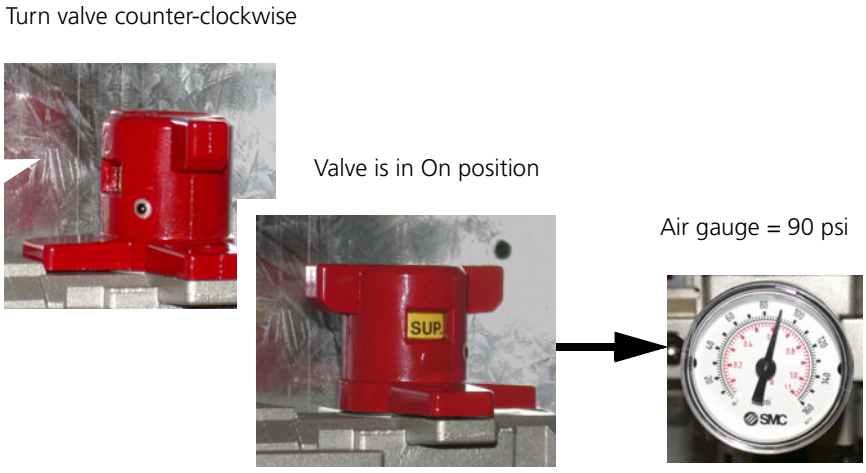


Figure 41: Turn on the compressed air supply

The air pressure gauge should read approximately 90 psi. If it does not, adjust the external air supply.

Replacing the 0.01 Micron Filter

Replace the 0.01 micron filter every six months.

To replace the 0.01 micron filter:

1. Ensure that the output device is not imaging media.
2. Shut down the output device.

   See *Shutting Down the Trendsetter ContinuousLoad Spectrum II* on page 27.

3. Rotate the orange air shutoff valve clockwise to the Off position to turn off the compressed air supply.

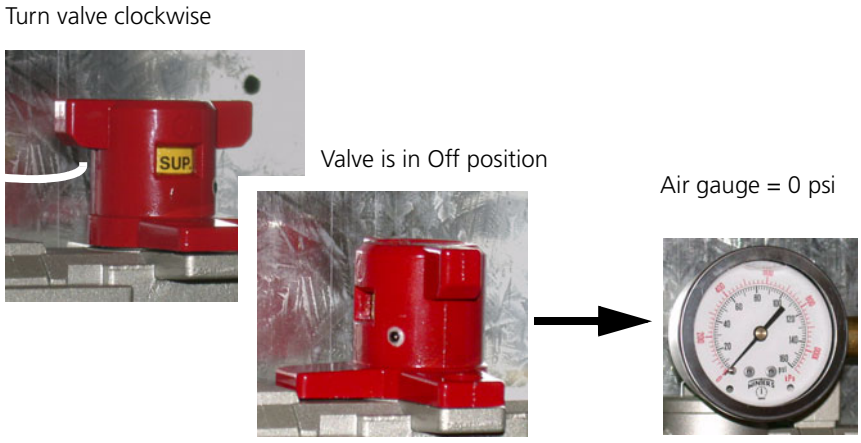


Figure 42: Shut off the compressed air supply

CAUTION: Failure to shut off the compressed air system before replacing a compressed air filter can result in personal injury or damage to the output device.

4. Pull down the black tab on the front of the filter bowl. This releases the lock on the filter bowl.

   At the same time, rotate the filter bowl a quarter turn (in either direction) and pull the filter bowl down to remove it.

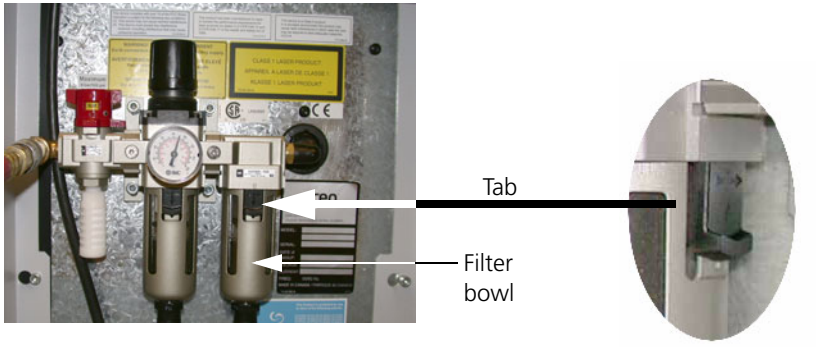


Figure 43: Pull down the black tab

5. Unscrew the used 0.01 micron filter and discard.



Figure 44: The 0.01 micron filter

6. Install a new 0.01 micron filter by screwing the filter in until it is hand-tight.
7. Pull the old rubber O-ring off the filter bowl and replace it with the new O-ring.
8. Check the filter bowl for any damage or deterioration such as crazing or cracking.

   Contact your authorized service representative if replacement is necessary.
9. Check for water or oil in the filter bowl.

   If there is water or oil in the filter bowl, contact your authorized service representative to have the air supply inspected.
10. Reinstall the filter bowl.

    If you have not replaced the 5 micron filter, skip step 11 and proceed to *Replacing the 5 Micron Filter* on page 87.

11. Rotate the orange air shutoff valve counter-clockwise to the On position to turn the compressed air supply back on.

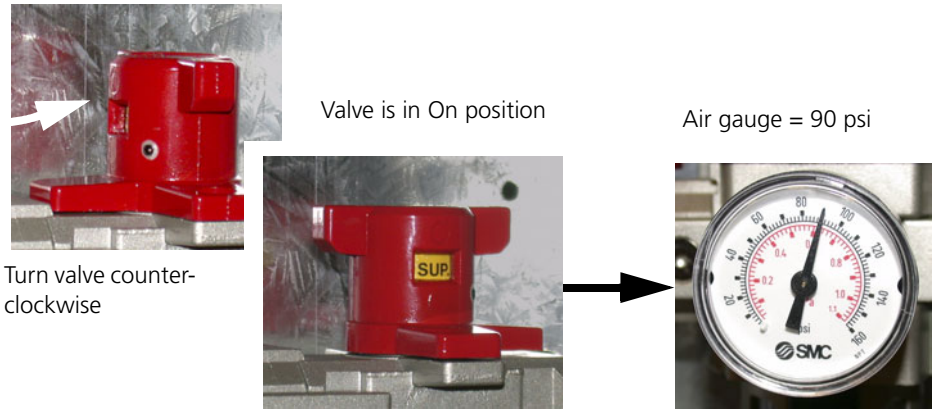


Figure 45: Turn on the air supply

The air pressure gauge should read approximately 90 psi. If it does not, adjust the external air supply.

Intake Air Filters

The output device contains two intake filters:

- 30% pre-filter (coarse)
- 85% filter (fine)

These filters are located inside the fan box. Replace them every two months, or more often in dirtier environments.



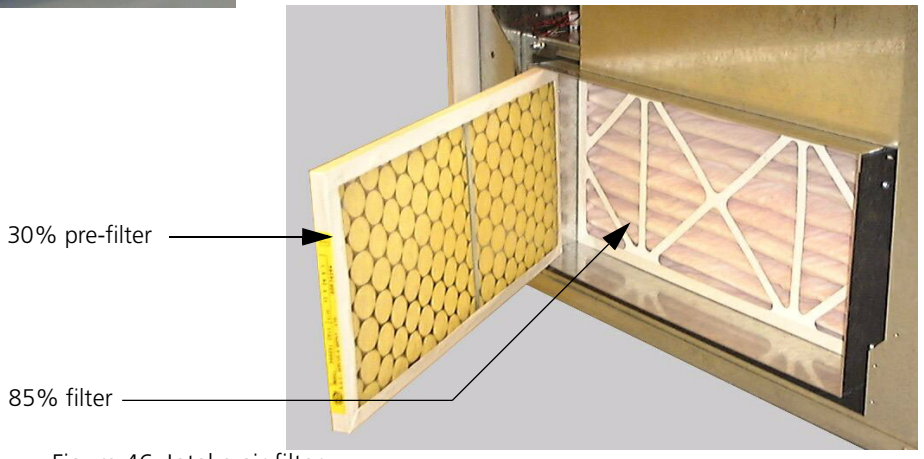


Figure 46: Intake air filter

Replacement Parts

The recommended replacement filters can be obtained from your service representative. See *Appendix A, Part Numbers*.

Replacing the Intake Pre-Filter and 85% Filter

The 30% intake pre-filter (coarse) is 1 inch (25 mm) thick. The 85% filter (fine) is 2 inches (51 mm) thick. Both filters are housed side-by-side in the same metal frame, with the pre-filter positioned on the outside.

Replace the intake pre-filter every two months and the 85% filter every six months. In dirtier environments, these filters should be replaced more often.

To replace the intake pre-filter and 85% filter:

1. Shut down the output device.

   See *Shutting Down the Trendsetter ContinuousLoad Spectrum II* on page 27.

2. Remove the fan box panel.

   See *Removing and Replacing the Fan Box Panel* on page 71 for more information.

3. Remove the old pre-filter and then the old 85% filter.

4. Clean the filter frame.



   Tip: You can vacuum the frame or dust it with a dry Kimwipe.

5. Install the new 85% filter, observing the airflow arrow on the label.

6. Install the new 30% pre-filter, observing the airflow arrow on the label.

7. Replace the right-end access panel.

   See *Removing and Replacing the Fan Box Panel* on page 71 for more information.

Replacing the Universal Debris Removal Cabinet Filter

When the output device is turned on, it automatically checks the debris removal system to determine the remaining life of the particulate filter. An error message appears in Print Console when the filter should be replaced. The frequency of filter replacement depends on media type, amount of media used, and frequency of imaging.

You can order the replacement filter from Creo Inc. See *Appendix A, Part Numbers*.

For more information on replacing the Universal Debris Removal Cabinet filter, see *Chapter 4: Maintenance* in the *Universal Debris Removal Cabinet Operator Guide*.

Cleaning the Carrier

Both sides of the carrier must be cleaned to remove dust that can affect image quality and to avoid static charge build-up that attracts dust to the carrier.

The carrier should be cleaned daily when the output device is doing continuous proofing or whenever a carrier is loaded.

To clean the carrier:

1. Clean the tabletop area with a soft lint-free wipe or cloth and RC2001. (If RC2001 is not available, you can substitute isopropanol.)



CAUTION: Ensure the tabletop area is large enough for the entire carrier plate. If the carrier plate sides hang over the edge of the table, rings may be produced during the cleaning process.



WARNING: Read and follow all precautions provided by the manufacturer of the isopropanol. Failure to do so can result in personal injury or damage to the output device.

2. Clean both sides of the carrier carefully to avoid scratches.
3. Ensure that the glass load ramp is also clean.

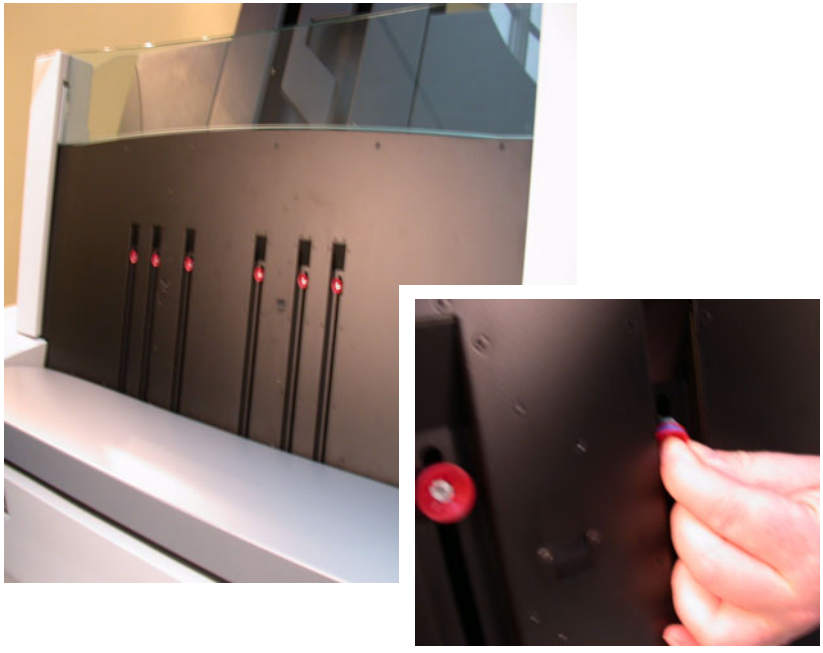
See *Cleaning the Load Ramp* on page 66.

Replacing the Suction Cups on the Load Ramp

Creo recommends that you inspect the suction cups on the load ramp every six months and replace them if they are worn.

To replace a worn suction cup on the load ramp:

1. Peel off the worn cup.
2. Insert a new cup on the cup mounting stem and rotate 360°.



6 Troubleshooting

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Operator Recoverable Errors

This chapter describes common errors and problems that can occur with the Trendsetter ContinuousLoad Spectrum II and explains how to resolve them. For a list of common error messages and recommended solutions, see *Error Messages and Recommended Solutions* on page 104.

When the output device detects a problem, it does one of the following:

- Continues operation (see *Warning Messages* on page 100)

  If the output device can continue processing without your intervention, the problem is reported in the Message Log on the workstation.

- Suspends operation (see *Error Messages* on page 101)

  The output device stops and the problem is reported in the Messages pane in Print Console. If the condition requires immediate intervention, the Error light and Status lights on the operator interface flash. See page 16 for more information on the lights.

  Errors that suspend operations require your intervention before the output device can recover and resume imaging.

Warning Messages

Warning messages alert you to conditions that could potentially cause problems, but do not stop the imaging process. For example, when the debris removal unit detects that a particulate filter is almost full, a warning message appears on Print Console telling you to have a replacement filter on hand.

Typically, warning messages do not display in Print Console. Instead, they go directly to the History pane as part of the historical record. However, some warning messages may display on the Messages pane for a short period of time before going to the History pane.

Error Messages

When a system operation error occurs, an error message displays in the Messages pane in Print Console and the system shuts down. If the output device has already started plotting when an error is discovered, the partially exposed media is ejected.

An example of an error message is:

```
MPC: Media not on registration pin
```

You must correct errors before the output device can resume imaging.

After the error message is corrected, it is copied to the History pane.

Suspend Conditions

A suspend condition prevents the output device from operating. A suspend condition occurs when there are errors or problems with the system, such as media that is misaligned or stuck on the drum.

Example of a Suspend Condition

Error message	Solution
`MDH: Media released, remove media and use RESUME to continue` `[Error #: 40229]`	The output device released the media after you clicked the **Release** button. **To correct the error:** 1. Remove the media from the output device. 2. Click the **Resume** button.

When a suspend condition occurs:

- The output device stops.
- The yellow Status light flashes.
- A Suspend prompt appears in Print Console.

Up to six options are available in Print Console when a suspend condition occurs. If a button is grayed out, it is not available.

Table 10: Suspend condition options

Option	Result
Resume	Click this button to try the operation again.
Release	Click this button to tell the output device to release the media so that it can be easily removed.
Eject	Click this button to cancel the job and unload the media.
Media Removed	Click this button after you remove the media to indicate that you have manually intervened to fix a problem. For example, you have manually removed a misaligned media. **IMPORTANT:** You must remove the media before you click the **Media Removed** button.
Cancel	Click this button to cancel the job. If the output device is loading a plate, the load completes and the media is left on the drum. This button is unavailable during unload and it will generally not force an unload.
Leave On	This option refers to plotting errors. Media is loaded on the drum and a plotting error occurs. Click this button to fix the error and continue. You will usually have to resubmit the job.

Recovering From a Suspend Condition

In most cases, the following procedure is recommended for recovering from a suspend condition:

1. If the **Resume** button in the Suspend prompt in Print Console is available, click it to retry the last step.

   If the output device does not return to normal operations, go to step 2.

2. If the **Leave On** button is available, click it to cancel the job, and leave the media on the drum.

   If the output device does not return to normal operations, go to step 3.

3. If the **Eject** button is available, click it to cancel the job, and unload the media from the drum.

   If the output device does not return to normal operations, go to step 4.

4. If the **Cancel** button is available, click it to cancel the job but leave the media on the drum.

   If the output device does not return to normal operations, go to step 5.

5. If the **Release** button is available:

   a. Click it to tell the output device to release the media.

   b. Manually remove the media from the output device.

   c. Click the **Resume** or **Media Removed** button to continue.

   If the output device does not return to normal operations, go to step 6.

6. If the **Media Removed** button is available:

   a. Manually remove the media from the output device.

   b. Click the **Resume** or **Media Removed** button to continue.

   If the output device does not return to normal operations, go to step 7.

7. Reset the output device in Print Console. For the procedure, see the Print Console online help.

   If the output device does not return to normal operations, go to step 8.

8. Quit Print Console.

9. Shut down the output device.

10. Start the output device.



Important: If the problem persists, contact the Creo Response Center.

Error Messages and Recommended Solutions

This section describes most of the error messages that appear in Print Console when errors or problems occur with the Trendsetter ContinuousLoad Spectrum II .



Important: If you cannot find a description and recommended solution for a specific error message, try the procedure for recovering from a suspend condition on page 102. If that does not work, contact your authorized service representative.

Even when you solve a problem yourself, you should report any recurring errors to your authorized service representative. If, as part of the recommended operator action you are to contact a service representative, report the error number (also called prompt number) to help the support person resolve the problem.



Important: Opening access panels is unavoidable, but should be kept to a minimum to reduce the accumulation of dust in and around sensitive components.



Note: The Trendsetter ContinuousLoad Spectrum II output device takes up to two minutes to warm up after it is restarted. You cannot image media while the output device is warming up. Files submitted to be imaged wait on the workstation until the output device is ready.

Classifying Errors

All error messages have a message number (also called the prompt number). They are listed numerically in ascending order.

Messages appear in Print Console with a prefix, for example, `MPC (Master Plot Control)`. This is to differentiate these messages from other messages that relay information about other parts of the output device. An example is:

```
MPC: No valid edge found, check edge detect strip
```

The prefix is used primarily as an internal tool to organize the many types of messages; knowing the various error categories is not necessary to solving the error.

If, as part of the recommended solution you are to contact an authorized service representative, report the error number to help the support person resolve the problem.

Table 11: Numerical listing of error messages

Numerical Listing	
Error Message	**Solution**
`PRD: Emergency Stop switch is on` `[Error #: 35724]`	The Emergency Stop switch on the output device was accidentally pushed. The output device cannot image media while the Emergency Stop switch is activated. **To correct the error:** ➢ Reset the Emergency Stop switch. See *Resetting the Emergency Stop Switch* on page 124.
`PRD: Front panel is open, check front panel` `[Error #: 35733]`	The front panel is open. The output device cannot image media while the front panel is open. **To correct the error:** 1. Close the front panel. 2. Click the **Resume** button. **Important:** If the error persists, contact your authorized service representative.
`PRD: Back panel not detected, check back panel` `[Error #: 35735]`	The back panel is removed on the output device. The output device cannot image media while the back panel is removed. **To correct the error:** 1. Verify that the back panel is in place. 2. Click the **Resume** button. **Important:** If the error persists, contact your authorized service representative.

Numerical Listing (Continued)	
PRD: System Pressure Out of Range: Reading=<Low range limit>, Low=<High range limit>, High=<Current value> [Error #: 35771]	Air supply pressure out of range or contaminant has damaged air pressure sensor. **To correct the error:** 1. Check the air supply system in the output device: • Ensure that the air hose connected to the output device has sufficient air pressure. • Check the system air pressure gauge on the output device. It should read between 90 and 100 psi. • Adjust the external air supply if necessary. 2. Contact your authorized service representative immediately to report the error.
PRD: Top panels not detected, check top panels [Error #: 35773]	The power box-end top panels or fan box-end top panel is open or removed on the output device. The output device cannot image media while the top panels are open or removed. **To correct the error:** 1. Verify that the top panel is in place. 2. Click the **Resume** button. **Important:** If the error persists, contact your authorized service representative.

Numerical Listing (Continued)	
PRD: Fanbox panel is not detected, check fanbox panel [Error #: 35775]	The fan box panel is removed on the output device. The output device cannot image media while the fan box panel is removed. **To correct the error:** 1. Replace the fan box panel. 2. Click the **Resume** button. **Important:** If the error persists, contact your authorized service representative.
PRD: Front panel is unlocked [Error #: 35786]	The front panel did not lock properly. The output device cannot image media while the front panel is unlocked. **To correct the error:** 1. In Print Console, from the **Device** menu, select **Unlock Front Panel**. 2. Open the front panel and then close it. 3. Click the **Resume** button. **Important:** If the error persists, contact your authorized service representative.
THERMAL: TH2 error 01307, Focus: Timeout waiting for focus OK Or THERMAL: TH2 error 03529, System: Failure of the focus learn [Error #: 37240]	The laser cannot focus properly on the plate because the plate may be dented or improperly loaded. **To correct the error:** 1. Click the **Eject** button to cancel the job and unload the plate. 2. Load a new plate, and resubmit the job. 3. If the error occurs again, shut down the system and restart it. 4. When the output device recovers from the error, contact your authorized service representative to report the error.

Numerical Listing (Continued)	
`THERMAL: Focus error detected at xx mm from HOME tab while imaging, check plate for artifacts` `[Error #: 37464]`	This error can be caused by: • Dents in a media • An improperly loaded media • An image running off the edge of the media (the image is wider than the media) **To correct the error:** 1. Inspect the media for image artifacts. 2. Load a new media of the correct size, and resubmit the job. **Important:** If the error persists, contact your authorized service representative.
`MPC: Could not find edge of media after xx attempts` `[Error #: 38108]`	**To correct the error:** 1. Ensure that the media is loaded with the side to be imaged (the emulsion side) facing up. 2. Ensure that the media is positioned properly, using the media alignment labels. 3. Ensure that the media loaded is the correct size. 4. If the media is the correct size, try loading it again. **Important:** If the error persists, contact your authorized service representative.

Numerical Listing (Continued)	
MPC: No valid edge found, check edge detect strip [Error #: 38116]	The output device cannot identify the edge of the media with a reasonable amount of certainty. This may be due to a dirty edge detect strip, or to the media type or size. **To correct the error:** 1. Click the **Eject** button to cancel the job and unload the media. 2. Check the media for any damage to its edges. 3. If damaged, load another media. If the error occurs again, do the following: 1. Open the back panel. 2. Clean the edge detect strip. See *Cleaning the Edge Detection Strip* on page 77. 3. Close the back panel. **Important:** If no valid edge is found after you clean the edge detect strip, contact your authorized service representative to report the error.
MPC: Media not on <home/away> registration pin [Error #: 38132]	The media is not sitting on the correct registration pins. 1. Click the **Eject** button to cancel the job and unload the media. 2. Ensure that the media is loaded in the correct position. 3. Ensure that the media loaded is the correct size. 4. If the media is the correct size, try loading it again. **Important:** If the error persists, contact your authorized service representative.

Numerical Listing (Continued)	
`MPC: Multiple plates detected on drum` `[Error #: 38134]`	The media thickness measured by the output device is thicker than specified in Print Console. The problem may be caused by two or more media being stuck together. **To correct the error:** 1. Click the **Eject** button to cancel the job and unload the media. 2. Separate the media and restack them on the load table. 3. Resubmit the job.
`MPC: Subscan output resolution of <Subscan output resolution> DPI must equal head resolution` `[Error #: 38136]`	You may have the output device configured to use resolutions that are not available. **To correct the error:** • Configure Print Console to use a valid resolution.
`MDH: No plates detected on plate buffer table` `[Error #: 40229]`	An attempt has been made to pick a plate from an empty plate buffer table. **To correct the error:** 1. Click the **Resume** button. 2. Place the specified plate on the buffer load table and press the **Start** button on the device.
`Error #: 40241` `MDH: Proof released, remove donor and receiver and use RESUME to continue`	The **Release** button was clicked in a previous suspend. The output device has now done what it can to make the media easy to remove. **To correct the error:** 1. Remove the media from the output device. 2. Click the **Resume** button to continue.

Numerical Listing (Continued)	
MDH: Picker up/down timeout: Failed to <Action> sensor. [<I/O name>] [Error #: 40303]	
MDH: Picker up/down timeout: Failed to <Action> sensor. [<I/O name>] [Error #: 40401]	A timeout error occurred. The output device cannot move the picker up or down. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
MDH: Picker vacuum timeout: Failed to achieve vacuum threshold (<Threshold>) within <Timeout> ms (only reached <Actual value>). [<I/O name>] [Error #: 40404]	A timeout error occurred. The output device is waiting for the picker vacuum to cross the threshold. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
MDH: Please remove plate detected on picker [Error #: 40407]	A media was on the picker during initialization. **To correct the error:** 1. Remove the media. 2. Click the **Media Removed** button.

Numerical Listing (Continued)	
`MDH: Loaddoor timeout: Failed to <Action> sensor. [<I/O name>]` `[Error #: 40428]`	A timeout error occurred. The output device cannot open or close the loaddoor. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
`MDH: Picker cups in/out timeout: Failed to <Action> sensor. [<I/O name>]` `[Error #: 40429]`	A timeout error occurred. The output device cannot move the picker cups in or out. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.

Numerical Listing (Continued)	
MDH: Can't open loaddoor because an unpicked plate is detected. Please remove all plates from the plate buffer load table. [Error #: 40430]	This error is reported when the device is attempting to open the loaddoor but the firmware detects that an unpicked plate is sitting on the buffer load table. If the device is trying to manually unload or release a loaded plate, remove the unpicked plate from the buffer load table and click the **Resume** button on the workstation dialog box to continue. If an unpicked plate is on the buffer load table and the device is *not* trying to unload a loaded plate, then there may be a problem with the picker vacuum pressure sensor or the plate stack sensor(s). **To correct the error:** 1. Remove the media from the buffer load table. 2. Click the **Resume** button. See *Resetting the Output Device* on page 124.
MDH: Roller timeout: Failed to <action> sensor. [<I/O name>] [Error #: 40616]	A timeout error occurred. The output device cannot move one of the components for the roller. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.

Numerical Listing (Continued)	
`MDH: Media being loaded has been measured to have an unexpected main scan length` `[Error #: 40624]`	During loading, the output device could not recognize the media size. **To correct the error:** 1. Make sure the media was loaded in the correct position on the load table. 2. Check the media type information to ensure the media size listed matches the media size loaded. 3. If the media sizes match: In the Suspend dialog box, click the **Resume** button to resume imaging. Or: If the media sizes don't match: Click the **Cancel** button and modify the media size as needed. Or: Load a different-size media into the output device. Or: Reload the media.

Numerical Listing (Continued)	
`MDH: Media being loaded has an invalid main scan length` `[Error #: 40625]`	The output device attempted to load a plate that was the wrong size. When the output device determined that the plate was the wrong size, it ejected it. **To correct the error:** 1. Remove the plate(s) in question from the output device. 2. Click the **Media Removed** or **Release** button. 3. Load a plate of the correct size onto the load table. 4. Be sure the dimensions of the plates being loaded match the dimensions selected on the workstation. 5. Resubmit the desired file from the workstation.
`MDH: Media being loaded has an invalid sub scan length` `[Error #: 40626]`	The output device attempted to load a plate that was the wrong size. When the output device determined that the plate was the wrong size, it ejected it. **To correct the error:** 1. Remove the plate(s) in question from the output device. 2. Click the **Media Removed** or **Release** button. 3. Load a plate of the correct size onto the load table. 4. Be sure the dimensions of the plates being loaded match the dimensions selected on the workstation. 5. Resubmit the desired file from the workstation.

Numerical Listing (Continued)	
`MDH: Media being loaded has an invalid thickness` `[Error #: 40627]`	The thickness of the media is much thicker than that specified in the workstation software. Sometimes two or more media get stuck together. **To correct the error:** 1. Click the **Media Removed** or **Release** button. The media automatically unloads. 2. Resubmit your job.
`MDH: Media partially loaded on drum, use RELEASE then remove the media` `[Error #: 40629]`	Media is only partially loaded onto the drum. It must be removed before operations can continue. **To correct the error:** 1. Click the **Media Removed** or **Release** button. 2. Remove media from the drum. See *Removing a Stuck Media From the Output Device* on page 125. 3. Click the **Resume** button.
`MDH: Media flyoff detected, please open panel and remove media` `[Error #: 40631]`	**To correct the error:** 1. Follow procedure in *Removing a Stuck Media From the Output Device* on page 125. 2. Ensure that the media size selected in Print Console matches the media size you're loading. 3. Resubmit the job.

Numerical Listing (Continued)	
Error #: 40632 MDH: Media flyoff detected, please open panel and remove media	**To correct the error:** 1. Open the front panel. 2. Remove the media from the drum. 3. Close the front panel. 4. Click the **Resume** button. 5. Check the workstation to confirm the media size selected matches the actual dimensions of the media you're loading. 6. Resubmit job and try again.
MDH: Media has invalid main scan length, it is smaller than expected [Error #: 40658]	The output device attempted to load media that is the wrong size and then ejected the media. **To correct the error:** 1. Remove the ejected media from the output device. 2. Click the **Media Removed** button. Click the **Release** button if the media has not been ejected. 3. Stack the media of the correct size on the load table. 4. Ensure that the media size selected in Print Console matches the media size you're loading. 5. Resubmit the job.

Numerical Listing (Continued)	
`MDH: Media has invalid main scan length, it is larger than expected` `[Error #: 40659]`	The output device attempted to load media that is the wrong size and then ejected the media. **To correct the error:** 1. Remove the ejected media from the output device. 2. Click the **Media Removed** button. Click the **Release** button if the media has not been ejected. 3. Stack the media of the correct size on the load table. 4. Ensure that the media size selected in Print Console matches the media size you're loading. 5. Resubmit the job.
`MDH: Leading edge clamp timeout: Failed to <Action> sensor. [<I/O name>]` `[Error #: 40663]`	A timeout error occurred. The output device cannot move one of the components of the leading edge clamp. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.

Numerical Listing (Continued)	
`MDH: Trailing edge backbone timeout: Failed to <Action> sensor. [I/O name>]` `[Error #: 40664]`	A timeout error occurred. The output device cannot move the trailing edge backbone up or down. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
`MDH: Trailing edge clamp lock/unlock timeout: Failed to <Action> sensor. [I/O name>]` `[Error #: 40665]`	A timeout error occurred. The output device cannot lock or unlock the trailing edge clamps. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
`MDH: Exit door timeout. Failed to <Action> sensor. [I/O name>]` `[Error #: 40666]`	A timeout occurred. The output device cannot open or close the exit door. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.

Numerical Listing (Continued)	
`MDH: Load ramp timeout: Failed to <Action> sensor. [<I/O name>]` `[Error #: 40667]`	A timeout error occurred. The output device cannot move the load ramp. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
`MDH: Please remove media detected on load ramp` `[Error #: 40668]`	Media is on the load ramp. **To correct the error:** 1. Remove the media. 2. Click the **Media Removed** button.
`MDH: Media not detected on load ramp` `[Error #: 40669]`	The output device did not detect media during loading. **To correct the error:** 1. Ensure that the media is loaded correctly. 2. Click the **Resume** button.
`MDH: Unload table up/down timeout: Failed to <Action> sensor. [<I/O name>]` `[Error #: 40801]`	A timeout error occurred. The output device cannot move the unload table up or down. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.

Numerical Listing (Continued)	
`MDH: Unload table cups up/down timeout: Failed to <Action> sensor. [<I/O name>]` `[Error #: 40802]`	A timeout error occurred. The output device cannot move the unload table cups up or down. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
`MDH: Unload table vacuum timeout: Failed to achieve vacuum threshold (<Threshold>) within <Timeout> ms (only reached <Actual value>). [<I/O name>]` `[Error #: 40803]`	A timeout error occurred. The output device is waiting for the unload table vacuum to reach the threshold. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
`MDH: Timeout waiting for plate to leave unload table` `[Error #: 40805]`	The output device is unable to move a plate from the unload table to the plate stacker or processor. **To correct the error:** 1. Ensure that your plate stacker or processor is turned on and working properly. 2. Ensure that the plate is not stuck between the unload table and the plate stacker or processor. 3. Remove any stuck plates and manually feed them into the plate stacker or processor. 4. Click the **Resume** button.

Numerical Listing (Continued)	
`MDH: Please remove plate detected on unload table` `[Error #: 40809]`	A plate was on the unload table during initialization. **To correct the error:** 1. Click the **Release** button. 2. Wait for the output device to lower the unload table. 3. Remove the plate. 4. Click the **Resume** button.
`MDH: Rotator timeout: Failed to <Action> sensor. [<I/O name>]` `[Error #: 40810]`	A timeout error occurred. The output device cannot move the rotator. **To correct the error:** • Click the **Resume** button. Or: • Reset the output device. See *Resetting the Output Device* on page 124.
`Error #: 40939` `MDH: Proofing media cassette not detected`	Either the cassette was not inserted into the Spectrum cassette tray, or the cassette sensor and latch failed. **To correct the error:** 1. Ensure that the proofing media cassette is properly inserted in the cassette tray. 2. In the Suspend dialog box on the workstation, click the **Resume** button. 3. If the output device does not return to normal operation, contact your service representative.

Numerical Listing (Continued)	
Error #: 40940 MDH: Wrong type of proofing media cassette detected.	The wrong size proofing media cassette was inserted into the cassette tray. **To correct the error:** 1. Remove the wrong proofing media cassette. 2. Insert the correct proofing media cassette properly into the cassette tray. 3. In the Suspend dialog box on the workstation, click the **Resume** button.
Error #: 40946 MDH: Proofing media flyoff detected, open panel and remove donor and receiver, use RESUME to continue	A flyoff was detected while proofing media (donor and/or receiver) was on the drum **To correct the error:** 1. Remove the donor and receiver manually. 2. Check underneath and behind the drum for fly-off media. 3. In the Suspend dialog box, click the **Media Removed** button to continue.
Error #: 40947 MDH: Mis-loaded carrier detected (dvac). Wait 1 minute before resume	A mis-loaded carrier was detected. **To correct the error:** 1. Wait one minute. 2. In the Suspend dialog box, click the **Resume** button to continue.

Resetting the Emergency Stop Switch

If you press the Emergency Stop switch (located inside the front panel), you must reset it before the output device can return to normal operations.

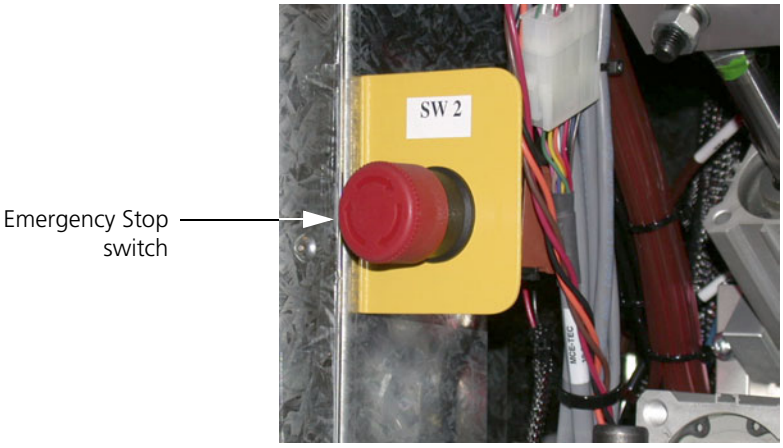


Figure 47: Emergency Stop switch

To reset the Emergency Stop switch:

➢ Rotate the Emergency Stop switch 90º clockwise.

The button will pop up, re-enabling the output device.

Resetting the Output Device

To reset the output device:

➢ In Print Console from the **Device** menu, select **Reset**.

The output device should reset itself. If it does not, shut down and restart the entire system.



Important: The output device takes up to two minutes to warm up after it has been restarted or reset.



Note: If the **Reset** command is unavailable in Print Console, turn off the output device for about five seconds and then turn it back on.

Removing a Stuck Media From the Output Device

Occasionally, a plate may get stuck on the drum as the result of an output device error. You must remove the stuck plate before the output device can return to normal operation.

If an error occurs while a media is being loaded onto or unloaded from the drum, the partially loaded media must be removed, and the trailing-edge clamps may have to be manually placed in their park position on the drum. See *Repositioning the Trailing-Edge Clamps* on page 127.



CAUTION: Avoid pinching your fingers between the trailing-edge clamps and the drum.

Observe the following precautions:

- Operators with implanted cardiac pacemakers should ensure that magnetic clamps are kept more than 7 cm (2.75") away from their pacemaker.

  If you have additional concerns, consult your physician and/or the manufacturer of your implant.
- When handling the magnetic clamps, do not bring opposite poles near each other. Keep hands and fingers from between opposite magnetic poles.
- Always wear protective gloves when handling magnetic clamps.



Important: Keep magnetic data—floppy disks, magnetic stripe cards, watches, and so forth—away from the powerful magnetic trailing-edge clamps.

To remove a media from the drum:

1. Open the top and front panels.

   See *Opening and Closing the Front/Top Access Panels* on page 68.



CAUTION: Most of the time, the front panel will be locked. You must follow the instructions in this guide for opening the front panel. Use of excessive physical force will damage the panel.

2. Put on protective gloves.

   Protective gloves should be clean and lint-free to keep the interior of the output device clean.



CAUTION: Plate edges are sharp. Failure to wear protective gloves can result in personal injury.

3. If the media is held by the trailing-edge clamps, slide the clamps off the media. Otherwise, skip this step.

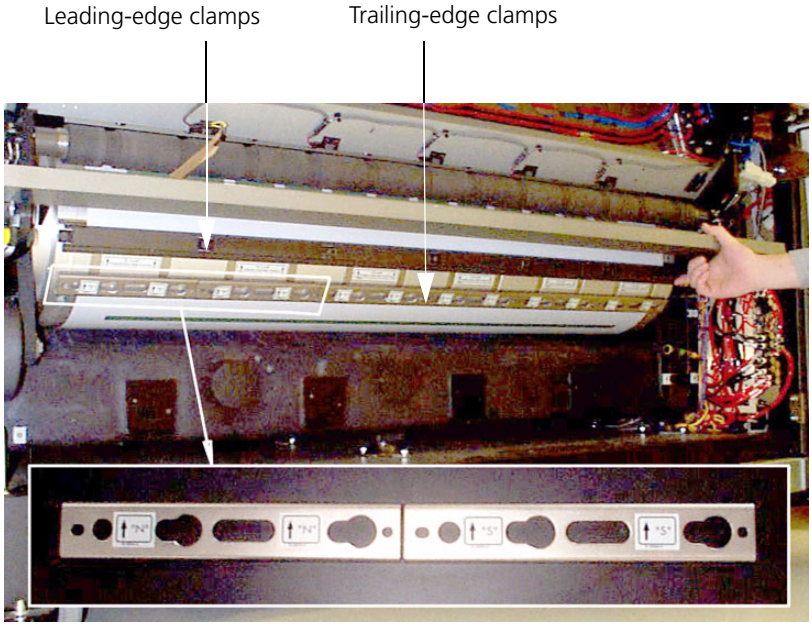


Figure 48: Trailing-edge and leading-edge clamps

4. Rotate the drum by hand, while guiding the trailing-edge of the media straight out the front of the output device, until you can reach the leading-edge clamps.
5. Fold over the corners of the free end of the media.

6. Grasp the corners of the media and firmly pull toward you, until the media comes free of the leading-edge clamps.



Figure 49: Fold the corners to grasp the media

7. To inspect for debris left behind, open the leading-edge clamps by pressing down on the edge of the clamps.
8. Reposition the trailing-edge clamps.

   See *Repositioning the Trailing-Edge Clamps* on page 127.
9. Close the front panels.

   See *Opening and Closing the Front/Top Access Panels* on page 68.
10. In Print Console, click the **Resume** button.

    Another message appears, indicating that you must put the trailing-edge clamps in the park position.

Repositioning the Trailing-Edge Clamps

You must reposition the trailing-edge clamps in the output device when:

- You moved the clamps in order to remove media from the drum.
- The clamps were dropped by the output device.
- The following error message appears in Print Console:

  ```
  move clamps to park position, then select RESUME
  ```

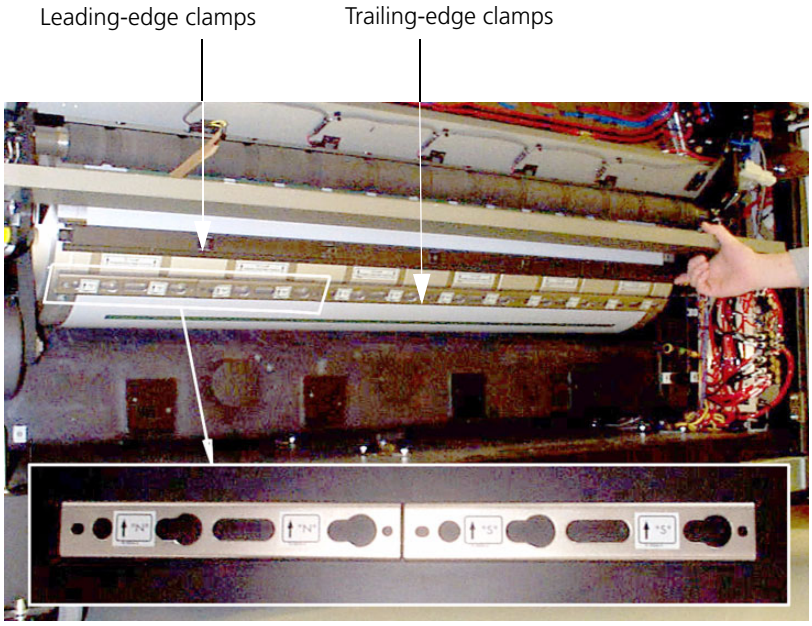


Figure 50: Trailing-edge and leading-edge clamps

CAUTION: Avoid pinching your fingers between the trailing-edge clamps and the drum.

To reposition the trailing-edge clamps:

1. Open the front access panel.

   See *Opening and Closing the Front/Top Access Panels* on page 68.

2. If there is a media on the drum, remove it.

   See *Removing a Stuck Media From the Output Device* on page 125.

3. Rotate the drum by hand until the trailing-edge clamps are visible at the front of the output device.

CAUTION: When placing or sliding a trailing-edge clamp on the drum, always ensure that the steel tabs on the clamps are centered on the steel straps on the drum. The clamp tabs can damage the drum surface if the tabs are not aligned properly.

4. Slide the trailing-edge clamps along the drum until they touch the leading-edge clamps.

   If the clamps have come off the drum, place them against the leading-edge clamps.

   a. Align the **S** or **N** (magnetic polarity) on each clamp with the **S** or **N** position labeled on the drum.

   b. Align the direction of the arrows on the clamps with the direction of the arrows labeled on the drum.

5. Verify that the trailing-edge clamps are evenly spaced.

   Align the gaps between the trailing-edge clamps with the gaps in the leading-edge clamps.

6. Verify that the trailing-edge clamps are installed in a straight line and are parallel to and touching the leading-edge clamps.

7. Verify that the trailing-edge clamp labels alternate between **S** and **N**.

8. Close the top and front panels.

   See *Opening and Closing the Front/Top Access Panels* on page 68.

9. In Print Console, click the **Resume** button.

10. If the output device suspends again with one of the following messages, check the clamp alignment and adjust as necessary:

    ```
    Timeout moving TE cylinder
    TE failed to lock
    TE clamps not on actuator/drum
    ```

Image Quality Problems

If you experience any image quality problems, contact your authorized service representative immediately.

Power Failures

If there is a power failure, the Trendsetter ContinuousLoad Spectrum II shuts down immediately.

The workstation is equipped with an Uninterruptible Power Supply (UPS). It gives the workstation time to shut itself down in an orderly fashion when the power fails.

However, the output device does not have such protection and shuts down immediately. It retains its last state and, if nothing changed while it was off, it attempts to recover when power is restored.

Sometimes automatic recovery is not possible. This occurs, for example, if the power fails when media is partially on the drum. In this case, a message appears in Print Console and you must remove the media. See *Removing a Stuck Media From the Output Device* on page 125.

When a power failure occurs, turn off the output device using the power switch shown in Figure 9 on page 27. Once power has been restored, you can turn on the output device again.

Tripped Circuit Breaker

After a power failure, if the power does not come back on, it's possible that the output device tripped the circuit breaker. You can reset the circuit breaker manually by pressing the circuit breaker switch.

The circuit breaker switch is located behind the power box panel. When you remove the panel, the circuit breaker is located above the power switch.

To reset a tripped circuit:

1. Shut down the output device.
2. Remove the power box panel.

   See *Removing and Replacing the Power Box Panel* on page 73.

3. Reset the circuit breaker switch.



Figure 51: Circuit breaker switch

4. Replace the power box panel.

   See *Removing and Replacing the Power Box Panel* on page 73.

5. Restart the output device.

   See *Starting the Trendsetter ContinuousLoad Spectrum II* on page 26. If the power does not start properly, contact your authorized service representative.

Loss of Air Pressure in the Output Device

Compressed air is supplied to the output device from an external air compressor. If a power failure also affected the air compressor, air pressure inside the output device will be slowly lost. If air pressure does not return to normal, contact your authorized service representative.

A

Part Numbers

Parts List 134

Parts List



Note: For the latest parts list and part numbers, consult the most recent version of the *Maintenance/Consumables Supplies Price List And Order Form*, available from Creo Order Management (orderdesk@Creo.com).

Description	Part Number
Carrier, 4-up: 22" x 30"	50-1444C
Carrier, 4-up: 22" x 26"	50-1668C
Carrier, 4-up — for Fuji FinalProof™ Thermal	50-2719B
Carrier, 8-up — for DuPont WaterProof™ Thermal	50-2368B
Carrier, 8-up — for Fuji FinalProof™ Thermal	50-2720B
Carrier, 8-up — for KPG Matchprint™ Digital Halftone Proof and Kodak Approval™ Digital Proofing Media, Type 2	50-1445C
Cassette, 4-up	50-1468B
Cassette, 8-up	50-1469B
0.01 micron filter element	55-0759
5 micron filter element	55-0760
Debris removal cabinet filter	55-0691
30% intake pre-filter, 24" x 12" x 1"	55-0914
85% intake filter, 24" x 12" x 2"	55-0918
Texwipe 1009 Alphawipes	N/A
Proof loader tape roller	59-3388A
Separator, blank set: 4-up	57-5157A
Separator, top & receiver: 4-up	57-5156B

Description	Part Number
Separator, CMYK set: 4-up	57-5158B
Separator, spot color: 4-up	57-6020B
Separator, receiver sheet: 4-up	57-6732B
Separator, top sheet: 8-up	57-5227B
Separator, blank set: 8-up	57-5228A
Separator, CMYK set: 8-up	57-5229B
Separator, spot color: 8-up	57-6021B
Separator, receiver sheet: 8-up	57-6733B

B

Labels

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Laser Safety Labels 143
General Safety Labels.....146

Overview

This appendix contains information about the labels that are located on the output device. These labels are intended to assist you in safely operating your output device. All the labels described in this appendix are operator accessible and most are located inside the output device access panels (within the overall interlocked protective housing).

For an illustration of	Go to
Identification label	page 140
Class 1 Laser Product label	page 140
CDRH Certification label	page 141
CE label	page 141
CSA label	page 141
FCC Certification label	page 142
C-Tick label	page 142
Exposure Head Aperture label	page 143
Moving Parts Caution/Laser Hazard Warning/ Radiation Output/Class 4 Laser Product label	page 144
Non-Interlocked Panel Danger label	page 144
Door Interlock Danger label	page 145
High Leakage Current label	page 146
Safety Interlock Override label	page 146
Hazardous Voltage label	page 147
Hot Surface Caution label	page 147
Beware of Moving Parts Label	page 148
Keep Hands Out Warning label	page 148
Beware of Moving Part When Interlock Defeated label	page 148
Solenoid Lock label	page 149
Fuse Replacement label	page 149

Identification and Certification Labels

These labels are located on the lower-right back panel, beside the air supply filters.

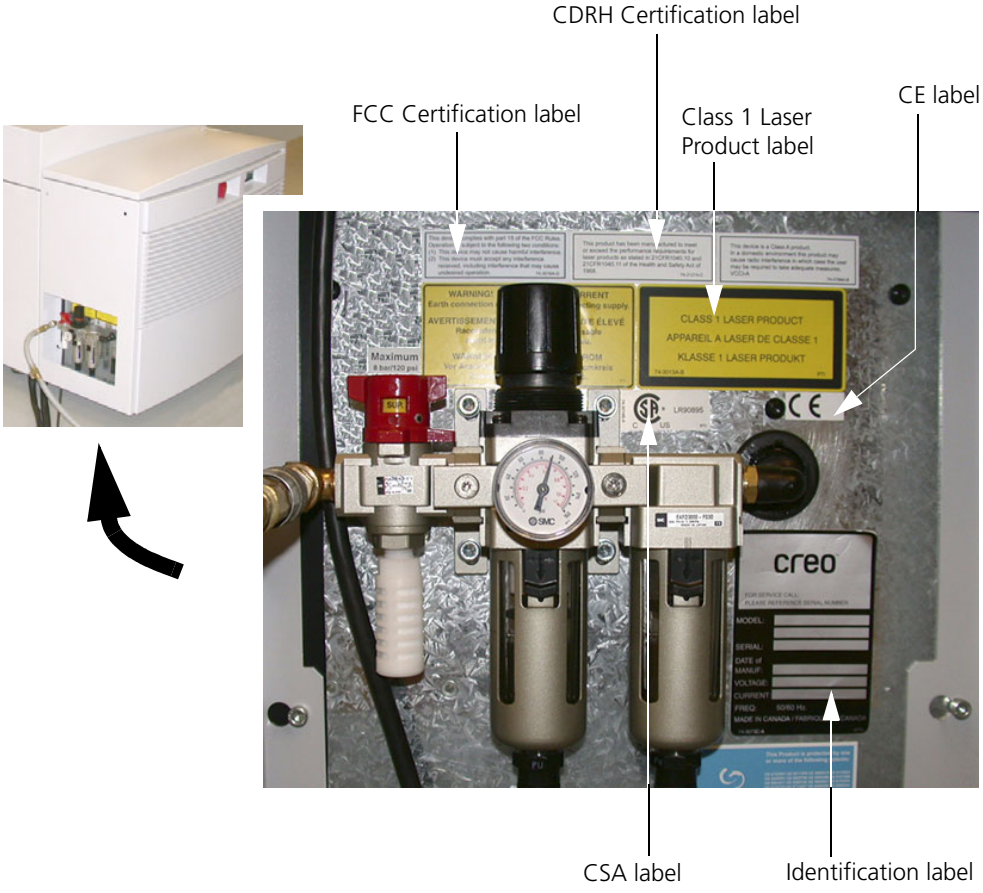


Figure 52: Identification and Certification labels

Identification Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 52 on page 139.



Figure 53: Identification label

Class 1 Laser Product Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 52 on page 139.



Figure 54: Class 1 Laser Product label

CDRH Certification Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 52 on page 139.

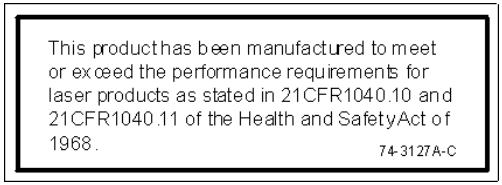


Figure 55: CDRH Certification label

CE Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 52 on page 139.



Figure 56: CE label

CSA Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 52 on page 139.



Figure 57: CSA label

FCC Certification Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 52 on page 139.

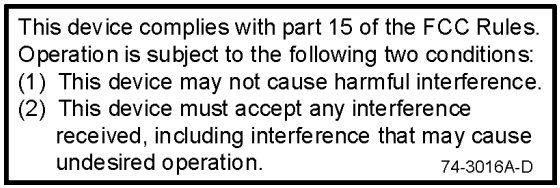


Figure 58: FCC Certification label

C-Tick Label

This label shows certification with the Australian Communications Authority (ACA). It is located on the lower-right back panel, beside the air supply filters (not shown Figure 52).



Figure 59: C-Tick label

Laser Safety Labels

Laser safety labels are located on the exposure head:

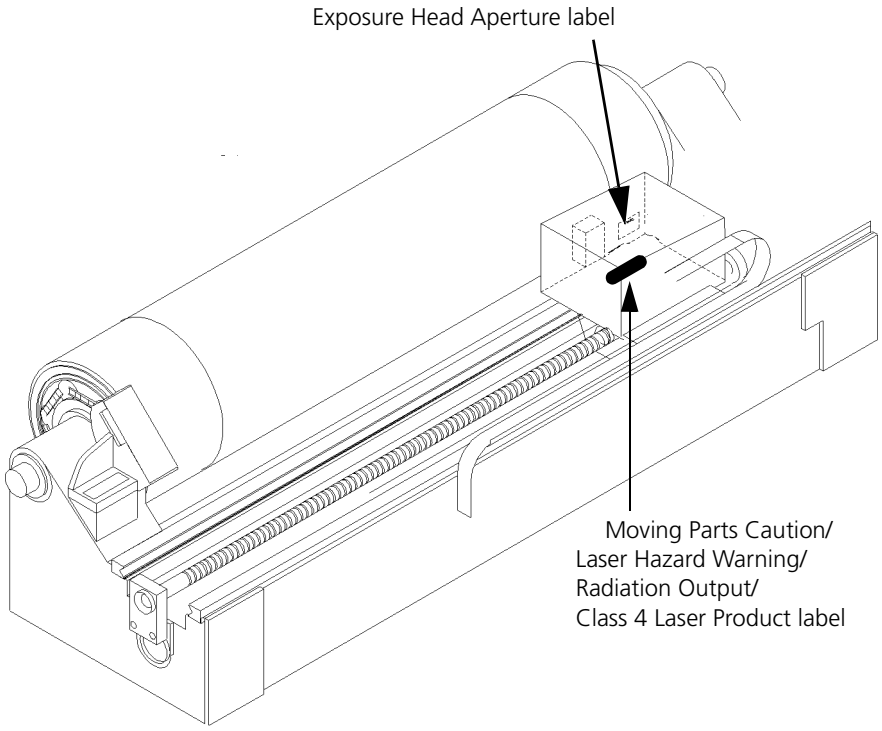


Figure 60: Exposure Head Laser Safety labels

Exposure Head Aperture Label

This label is located on the front of the exposure head protective housing, adjacent to the shutter and aperture. Figure 60 shows the location.



Figure 61: Exposure Head Aperture label

Moving Parts Caution/Laser Hazard Warning/Radiation Output/Class 4 Laser Product Label

The Moving Parts Caution/Laser Hazard Warning/Radiation Output/Class 4 Laser Product safety label is located on the back of the exposure head protective housing. See Figure 60 on page 143 for a diagram showing the location.

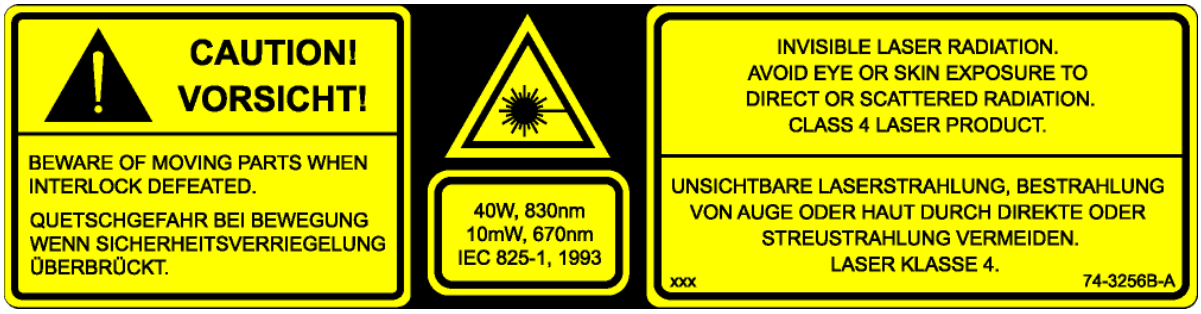


Figure 62: Moving Parts Caution/Laser Hazard Warning/Radiation Output/Class 4 Laser Product label

Non-Interlocked Panel Danger Label

This labels is located in four places:

- On each end of the upper service access panel, below the unload table.
- On each end of the lower service access panel, below the unload table.

DANGER: The service access panels can be removed only by an authorized service representative. Unauthorized panel removal can expose you to serious danger from high-powered laser radiation and/or moving mechanical parts, which could result in death or serious injury.

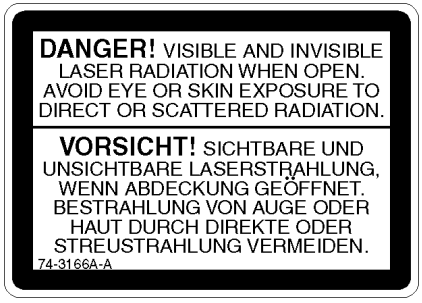


Figure 63: Non-Interlocked Panel Danger label

Door Interlock Danger Label

These labels are located beside the safety interlock switches inside the interlocked protective housing.



Figure 64: Door Interlock Danger label

DANGER: Never attempt to operate the output device with any of the access panels open, and never attempt to open or remove access panels while the output device is imaging media. Tampering with the interlock system can result in serious personal injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.

General Safety Labels

High Leakage Current Label

This label is located on the lower-right back panel, beside the air supply filters.



Figure 65: High Leakage Current label

Safety Interlock Override Label

This label is located beside the service key switch on the power box panel.

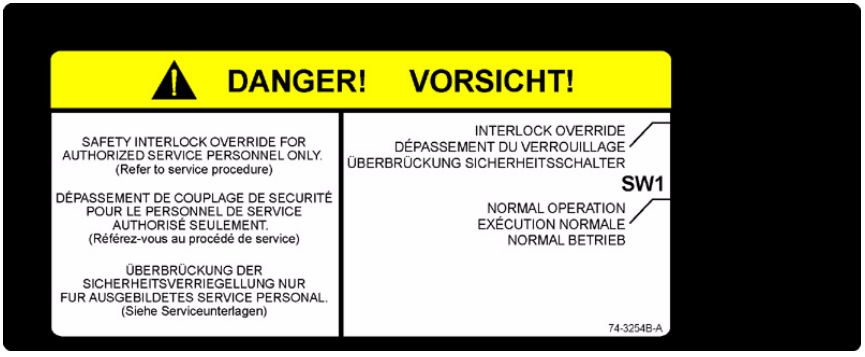


Figure 66: Safety Interlock Override label

DANGER: The service key switch is for use only by an authorized service representative. Unauthorized use can expose you to serious danger from moving mechanical parts, which can result in death or serious injury.

Hazardous Voltage Label

This label is located on the junction box service access cover in the fan box.



Figure 67: Hazardous Voltage label

DANGER: The junction box service access cover can be removed only by an authorized service representative. Do NOT remove covers bearing this label as these areas contain high-voltage components that can cause severe electrical shock, which could result in death.

Hot Surface Caution Label

This label is located on the heat exchanger circulating pump inside the fan box panel.



Figure 68: Hot Surface Caution label

Beware of Moving Parts Label

This label is located on both sides of the polycarbonate side barriers.



Figure 69: Beware of Moving Parts label

Keep Hands Out Warning Label

This label is located behind the front panel, in the middle of the leading-edge actuator.

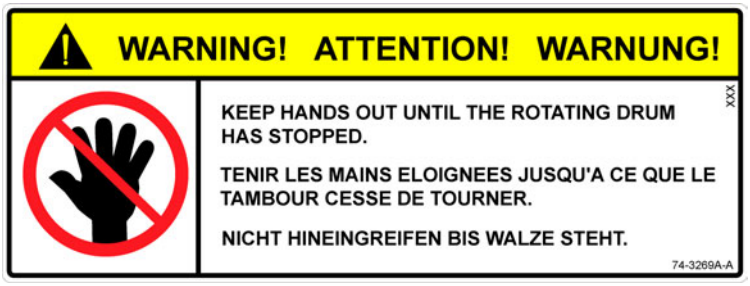


Figure 70: Keep Hands Out Warning label

Beware of Moving Parts When Interlock Defeated Label

This label is located behind the front panel on both ends of the leading-edge actuator.



Figure 71: Beware of Moving Part When Interlock Defeated label

Solenoid Lock Label

This label is located beside each latch on the front panel.

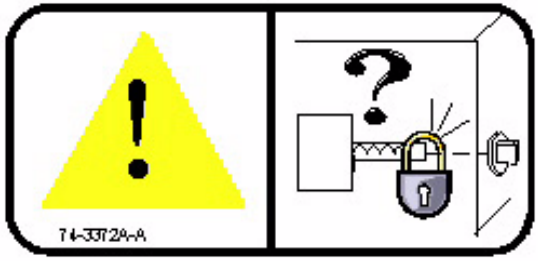


Figure 72: Solenoid Lock label

Fuse Replacement Label

This label is located behind the power box outer panel, at the lower-left side, below the service access panel.

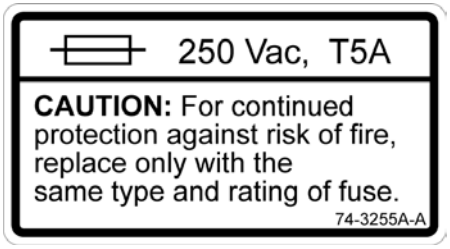


Figure 73: Fuse Replacement label

Circuit Breaker Label

This label is located beside the circuit breaker, under the power box panel beside the power switch.

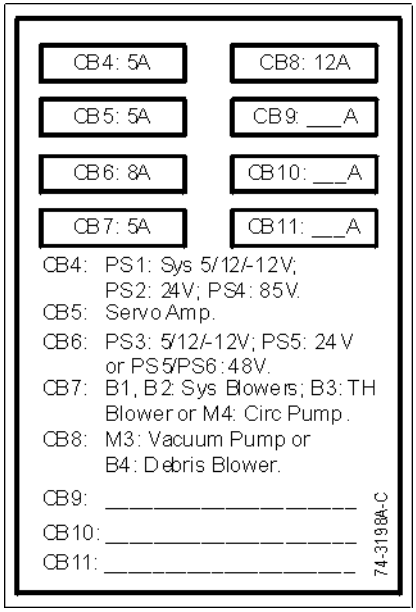


Figure 74: Circuit Breaker label

C

Regulatory Compliance

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Electrical and Mechanical Safety

The Trendsetter ContinuousLoad Spectrum II has been designed, tested, and evaluated for compliance with the electrical and mechanical safety standards:

- CSA 60950 *Safety of Information Technology Equipment*
- UL 60950 *Safety of Information Technology Equipment*
- EN 60950, *Safety of Information Technology Equipment*
- EN 60204-1, *Safety of Machinery*

The CSA label on the output device indicates compliance with the standards CSA 60950 and UL 60950. The CE label on the output device indicates compliance with the following directives:

- Low Voltage Directive 73/23/EEC
- Directive of Machinery 98/37/EC
- Directive of Electromagnetic Compatibility 89/366/EEC

See *Appendix B, Labels* for examples of these labels.

EC Declaration of Conformity

creo **Creo Inc.**
3700 GILMORE WAY, BURNABY, BC CANADA V5G 4M1
T. +1.604.451.2720
F. +1.604.451.2748

EC DECLARATION OF CONFORMITY (FOR CE MARK)

in accordance with the Directive of Machinery 98/37/EC
and the Low Voltage Directive 73/23/EEC
and the Directive of Electromagnetic Compatibility 89/366/EEC.

Applicant:	**Creo Inc.**, 3700 Gilmore Way, Burnaby, BC, Canada, V5G 4M1.
Signature / Date:	Sept 11/03
Name / Title:	Calvin Osborne, Engineering Manager.
Factory:	**Creo Inc.**, 1608 Cliveden Ave, Delta, BC, Canada, V3M 6P1.

declares, that the product:

Product:	Imaging Device.
Model:	TSM (includes the following options: TH1.7, TH2, Hydra, Proofing, Autoloader and ContinuousLoad).
Rating:	Input rated 200-240 Vac, 50/60 Hz, 15 A, cord connected, Class I (grounded).

conforms with the above mentioned Directives and the following Applicable Standards:

EN 292-2: 1991 + A1 + A2.
- Safety of Machinery.

EN 60204-1: 1997+ A1.
- Safety of Machinery, Electrical Equipment of Machines.

EN 60825-1: 1994 + A2, Class 1 Laser Product.
- Safety of Laser Products.

EN 60950: 2000.
- Safety of Information Technology Equipment.

EN 55022: 1998, Class A.
- EMC, Product Standard, Emission (CISPR 22)

EN 55024: 1998.
- EMC, Product Family Standard, ITE Immunity Characteristics - Limits & Methods of Measure.

EN 61000-3-3: 1995.
- EMC, Limitation of Voltage Fluctuations and Flicker In Low-Voltage Supply Systems For Equipment.

Supplementary Information: The product is high-power equipment (>1 kW) for professional use and is therefore exempt from the requirements of EN 61000-3-2. Creo Inc is registered to ISO 9001.

European Contact: Mr. Israel Sandler; Managing Director,
Creo Inc., European Headquarters, Waterloo Office Park,
Building E-F, Dreve Richelle 161, 1410 Waterloo, Belgium.
T. 32-2-3522511, **F.** 32-2-3510915.

Figure 75: EC Declaration of Conformity

Laser Safety

The Trendsetter ContinuousLoad Spectrum II has been designed, tested, and evaluated for compliance with the following laser safety standards:

- U.S. Federal Regulations 21 CFR 1040.10, in accordance with the regulations of the Center of Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration
- EN 60825-1, *Safety of Laser Products*

The Class 1 Laser Product label on the output device indicates compliance with these standards. See *Appendix B, Labels* for an illustration of this label.



WARNING: Use of controls or adjustments or performance of procedures other than those specified in this guide may result in hazardous radiation exposure.

EMI/EMC Compliance

The Trendsetter ContinuousLoad Spectrum II 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 output device 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 this guide, may cause harmful interference to radio communications. Operation of the output device in a residential area is likely to cause harmful interference. You must correct the interference at your own expense.

The FCC Certification label on the output device indicates compliance with these limits. See *Appendix B, Labels* for an example of this label.

The Trendsetter ContinuousLoad Spectrum II has been designed, tested, and evaluated for compliance with the Directive of Electromagnetic Compatibility 89/366/EEC. It complies with the following EMC standards:

- EN 55022, Class A
- EN 55024
- EN 61000-3-3

Noise Emissions

The Trendsetter ContinuousLoad Spectrum II has been designed, tested, and evaluated for compliance with the maximum noise emission limit permitted for an office environment, 70 dB(A). Noise emissions from the Trendsetter ContinuousLoad Spectrum II will not exceed 69 dB(A) at one meter in a free field.

Glossary

crazing	Stress lines that appear on plastic parts. They are usually caused by inappropriate cleaning.
drum	The device inside the output device onto which media is mounted for imaging by the laser.
error message	When a system operation error occurs, an error message appears in Print Console and the system shuts down. You have to resolve the problem before you can continue with regular operations.
exposure head	Using infrared thermal energy, the head "burns" or transfers images onto IR-sensitive media. Also called an *imaging head*.
file	An electronic text description of one or more images, using the PostScript language. At this time, Print Console does not support files containing multiple PostScript showpage operators.
film	A cellulose-type media upon which an image is exposed. The Trendsetter ContinuousLoad Spectrum II produces one exposed film per image. See also *media*.
GATF	Graphic Arts Technical Foundation.
image	An electronic bitmap that is plotted onto a printing media. The output device receives images from the workstation and produces exposed, undeveloped media.
imaging head	See *exposure head*.
load ramp	The angled sheet of glass on top of the output device. A single plate of film is manually fed into the output device via the load ramp.
media	The physical material—plates or film—onto which images are plotted.
media alignment label	Tape marking used for the correct positioning of media.
media type	Refers to a certain type of plate or film. Media types are typically configured during installation of the output device by a Creo service representative.

PDF	Portable Document Format. Adobe System's PDF is a reliable file format for storing line art, images, and text (including all required fonts) for pages.
plate	A metallic media upon which an image is exposed. The Trendsetter ContinuousLoad Spectrum II produces one exposed plate per image. See also *media*.
plate processor	Equipment that can be used with the Trendsetter ContinuousLoad Spectrum II to develop plates. Also called a developer.
output device	A platesetter, proofsetter, or filmsetter that is part of a Creo imaging system.
particulate filter	Contains a porous material that traps the particulate debris released during imaging.
Postscript	A page description language developed by Adobe Systems that is used to describe type and visual elements so that they can be output on devices with Postscript interpreters.
Postscript file	A file written in a page description language created from a native application file.
PPD	Postscript Printer Description file. A computer file containing information on the parameters and options associated with a specific Postscript output device.
Print Console	A device control software that delivers files to the output device for imaging. Print Console creates a rasterized image of a PostScript file—a PostScript Level 3 software RIP (raster image processor). The software RIPs PostScript files to create the images that are exposed onto media.
prompt number	The error number that identifies workstation messages, typically error messages.
raster	Digitized (bitmapped) images defined pixel by pixel in rows and columns. See also *RIP*.
registration	The alignment of different plates to produce one printed image.
RIP	Raster Image Processor. Creates bitmap images from Postscript files which are then sent to the output device for imaging.

SCSI	Small Computer System Interface. This type of connection is used to send image data from the workstation to the output device.
submitting	The process of putting a file in the queue for imaging.
suspend condition	A condition preventing the output device from continuing its current operation.
SWOP	Specifications for Web Offset Publications.
throughput	The efficiency with which images are interpreted and produced.
UDRC	See *Universal Debris Removal Cabinet*.
UGRA	Swiss Association for the Promotion of Research.
Universal Debris Removal Cabinet	The Universal Debris Removal Cabinet is the key component of the debris removal system. It consists of the filter compartment, plastic enclosure, filter(s), blower, and electrical controls.
UPS	Uninterruptible Power Supply. A device used to supply power temporarily to the workstation during a power failure.
workstation	A high-speed computer running the Windows NT® operating system and Print Console. It is connected to a local area network (LAN) over which it receives PostScript files.
workstation software	See *Print Console*.

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