Operator Guide

English

Trendsetter UHR

653-01094A-EN Rev A
Internal 731-00583A-EN Rev A

www.creo.com

Trendsetter UHR

Operator Guide

creo™

Copyright

Copyright © 2005 Creo Inc. All rights reserved.

No copying, distribution, publication, modification, or incorporation of this document, in whole or part, is permitted without the express written permission of Creo. In the event of any permitted copying, distribution, publication, modification, or incorporation of this document, no changes in or deletion of author attribution, trademark legend, or copyright notice shall be made.

No part of this document may be reproduced, stored in a retrieval system, published, used for commercial exploitation, or transmitted, in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the express written permission of Creo Inc.

This document is also distributed in Adobe Systems Incorporated's PDF (Portable Document Format). You may reproduce the document from the PDF file for internal use. Copies produced from the PDF file must be reproduced in whole.

Trademarks

The Creo wordmark, Creo logo, and the names of the Creo products and services referred to in this document are trademarks of Creo Inc.

Adobe, Acrobat, Adobe Illustrator, Distiller, Photoshop, PostScript, and PageMaker are trademarks of Adobe Systems Incorporated.

Microsoft, Microsoft Windows NT, Microsoft Windows 2000, Windows Server 2003, and Windows are trademarks or registered trademarks of Microsoft Corp.

Kimwipes is a registered trademark of Kimberly-Clark Corporation.

Other brand or product names are the trademarks or registered trademarks of their respective owners.

FCC Compliance

Any Creo equipment referred to in this document complies with the requirements in Part 15 of FCC Rules for a Class A computing device. Operation of the Creo equipment in a residential area may cause unacceptable interference to radio and TV reception, requiring the operator to take whatever steps are necessary to correct the interference.

Limitation of Liability

The product, software or services are being provided on an “as is” and “as available” basis. Except as may be stated specifically in your contract, Creo Inc. expressly disclaims all warranties of any kind, whether express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose and non-infringement.

You understand and agree that Creo Inc. shall not be liable for any direct, indirect, incidental, special, consequential or exemplary damages, including but not limited to, damages for loss of profits, goodwill, use, data or other intangible losses (even if Creo has been advised of the possibility of such damages), resulting from: (i) the use or the inability to use the product or software; (ii) the cost of procurement of substitute goods and services resulting from any products, goods, data, software, information or services purchased; (iii) unauthorized access to or alteration of your products, software or data; (iv) statements or conduct of any third party; (v) any other matter relating to the product, software, or services.

The text and drawings herein are for illustration and reference only. The specifications on which they are based are subject to change. Creo Inc. may, at any time and without notice, make changes to this document. Creo Inc., for itself and on behalf of its subsidiaries, assumes no liability for technical or editorial errors or omissions made herein, and shall not be liable for incidental, consequential, indirect, or special damages, including, without

limitation, loss of use, loss or alteration of data, delays, or lost profits or savings arising from the use of this document.

Patents

This product is covered by one or more of the following U.S. patents:

RE37,376	5,412,737	5,699,174	6,014,471	6,189,452	6,396,422	6,579,660
D478,608	5,420,702	5,699,740	6,016,752	6,191,882	6,407,849	6,587,211
4,558,302	5,420,722	5,708,736	6,043,865	6,204,874	6,409,331	6,589,710
4,743,091	5,459,505	5,713,287	6,060,208	6,205,364	6,414,755	6,590,635
4,992,864	5,473,733	5,742,743	6,063,528	6,208,369	6,422,801	6,593,064
5,049,901	5,481,379	5,764,374	6,063,546	6,214,276	6,425,565	6,601,888
5,113,249	5,488,906	5,771,794	6,072,518	6,217,965	6,430,136	6,605,407
5,132,723	5,508,828	5,785,309	6,090,529	6,252,241	6,435,091	6,609,459
5,155,782	5,509,561	5,802,034	6,093,447	6,252,522	6,441,914	6,611,363
5,157,516	5,517,359	5,813,346	6,096,461	6,255,033	6,443,571	6,618,187
5,177,724	5,519,852	5,818,498	6,098,544	6,260,482	6,450,092	6,628,435
5,208,818	5,576,754	5,854,883	6,107,011	6,266,080	6,456,396	6,632,584
5,208,888	5,579,115	5,861,904	6,112,663	6,266,134	6,471,335	6,637,329
5,247,174	5,583,551	5,861,992	6,115,056	6,267,054	6,476,342	6,637,860
5,249,067	5,592,309	5,875,288	6,116,160	6,268,948	6,476,931	6,640,713
5,283,140	5,594,556	5,894,342	6,121,996	6,270,204	6,477,955	6,641,772
5,291,273	5,600,448	5,900,981	6,130,702	6,283,589	6,493,064	6,641,978
5,305,091	5,608,822	5,934,196	6,134,393	6,295,076	6,494,965	6,646,669
5,323,248	5,615,282	5,946,426	6,136,509	6,299,572	6,503,691	6,648,468
5,325,217	5,625,397	5,947,028	6,137,580	6,318,266	6,509,903	6,652,088
5,339,176	5,625,766	5,958,647	6,147,789	6,328,408	6,511,163	6,654,147
5,343,059	5,636,330	5,966,504	6,158,345	6,336,708	6,520,084	6,660,997
5,355,446	5,649,220	5,969,872	6,159,659	6,340,817	6,530,317	6,661,561
5,359,451	5,650,076	5,973,801	6,164,637	6,352,816	6,541,181	6,665,048
5,359,458	5,652,804	5,986,819	6,165,658	6,353,216	6,544,336	6,665,121
5,367,360	5,680,129	5,995,475	6,180,325	6,366,339	6,545,772	6,670,986
5,384,648	5,691,823	5,996,499	6,181,362	6,371,026	6,550,388	6,684,783
5,384,899	5,691,828	5,998,067	6,181,439	6,377,739	6,564,018	6,704,123
5,412,491	5,696,393	6,003,442	6,186,068	6,387,597	6,567,713	

Creo Inc.
3700 Gilmore Way
Burnaby, B.C., Canada
V5G 4M1
Tel: +1.604.451.2700
Fax: +1.604.437.9891

http://www.creo.com
Internal 731-00583A-EN Rev A

Revised July 2005

Contents

1 Safety 1

Who Should Use This Guide ... 2
Dangers, Warnings, and Cautions ... 2
Important Notes on Safe Installation, Operation, and Maintenance ... 3
Installation ... 3
Operation ... 3
Maintenance ... 3
Safety Information ... 4
Safety Features ... 6
Interlock System ... 6
Power Switch ... 7
Emergency Stop Switch ... 7
For More Information ... 8

2 System Overview 9

Trendsetter UHR System ... 10
System Components ... 10
Trendsetter UHR Components ... 11
Components for Loading and Unloading Media ... 11
Components in the Operator Interface ... 12
Environment Specifications ... 13
Maintenance Supplies ... 14
Supported Media ... 14
Multiple Media Sizes ... 14
Media Dimensions ... 15
Media Sizes Supported ... 16
Media Orientation ... 16
Media Processing ... 16

3 Operation 17

Starting and Shutting Down the Trendsetter UHR ... 18
Loading Media ... 19
Removing Imaged Plates ... 22
Plate Registration ... 22
Plate Bending and Punching ... 23

4 Maintenance 25

Maintenance Schedule ... 26
For Your Safety ... 28

Cleaning Exterior Surfaces 28
Cleaning Recommendations 29
Removing Stains 29
Cleaning the Load Ramp 29
Accessing the Interior of the Output Device 30
Opening and Closing the Front and Top Panels 31
Removing and Replacing the Fan Box Panel 33
Removing and Replacing the Power Box Panel 34
Cleaning the Interior of the Output Device 35
Cleaning the Edge Detection Strip 35
Cleaning the Plate Roller 37
Replacing Air Supply Filters 38
Compressed Air Supply Filters 38
Intake Air Filter 45
Replacing the Universal Debris Removal Cabinet Filter 47

5 Troubleshooting 49

Operator Recoverable Errors 50
Warning Messages 50
Error Messages 51
Error Messages and Recommended Solutions 54
Resetting the Emergency Stop Switch 67
Resetting the Output Device 67
Removing a Stuck Media From the Output Device 68
Removing the Plate 69
Repositioning the Trailing-Edge Clamps 70
Image Quality Problems 73
Problems Caused by Power Failures 73
Tripped Circuit Breaker 73
Loss of Air Pressure in the Output Device 74

A Part Numbers 75

Parts List 76

B Labels 77

Overview 78
Identification and Certification Labels 79
Identification Label 80
Class 1 Laser Product Label 80
CDRH Certification Label 81
CE Label 81
CSA Label 81
FCC Certification Label 82
C-Tick Label 82

Laser Safety Labels 83
Exposure Head Aperture Label 84
Moving Parts Caution/Laser Hazard Warning/Radiation Output/Class 4 Laser Product Label 84
Non-Interlocked Panel Danger Label 85
Door Interlock Danger Label 85
General Safety Labels 86
High Leakage Current Label 86
Safety Interlock Override Label 87
Hazardous Voltage Label 87
Hot Surface Caution Label 88
Keep Hands Out Warning Label 88
Beware of Moving Parts When Interlock Defeated Label 89
Solenoid Lock Label 89
Fuse Replacement Label 90
Maximum PSI/BAR Label 90
Strong Magnetic Fields Label 91

C Regulatory Compliance 93

Regulatory Approval Model Designation 94
Electrical and Mechanical Safety 94
EC Declaration of Conformity 95
Laser Safety 95
EMI/EMC Compliance 96
Noise Emissions 96

Glossary 97

Index 101

1 Safety

Who Should Use This Guide 2
Dangers, Warnings, and Cautions 2
Important Notes on Safe Installation, Operation, and Maintenance 3
Safety Information 4
Safety Features 6
For More Information 8

Who Should Use This Guide

This guide is intended for anyone who operates or maintains a Trendsetter® UHR 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.

If you have questions about using the output device, write down the serial number for your output device, and contact your service representative. You can find the serial number on the Identification label, which is located at the rear of the output device. See *Identification Label* on page 80.

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 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 Installation, Operation, and Maintenance

Installation

A service representative must install the output device and perform the initial setup. Please ensure that operating environment and connection requirements are observed when your output device is installed and when it is turned on.

Operation



WARNING: Before using the Trendsetter UHR, you *must* read this guide and understand it.

When using the Trendsetter UHR, you *must* follow *all* of the safety precautions and recommended procedures. This guide must be accessible to anyone who operates the Trendsetter UHR.

Your failure to read, understand, and follow the information in this guide may result in the incorrect operation of this product and could create a dangerous situation. This could result in serious injury as well as damage to the output device.

Maintenance

You should perform only the maintenance procedures that are described in *Chapter 4, Maintenance.* Only a service representative should perform other maintenance and all service work.



DANGER: Do not perform unauthorized repairs or make modifications. 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 Information

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



DANGER: Do not tamper with the access panel interlock system. Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts. See *Interlock System* on page 6.



DANGER: Do not perform unauthorized repairs or make modifications. 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. See *Operation* on page 3.



WARNING: When opening access panels, keep hands away from moving parts until the rotating drum comes to a complete stop. Mechanical hazards associated with the output device can result in serious injury and/or damage to your output device. See *Interlock System* on page 6.



WARNING: Use only qualified media. Using unqualified media may expose you to noxious gaseous emissions in excess of applicable regulatory limits. This may result in discomfort, illness, injury, and/or disability. See *Supported Media* on page 14.



WARNING: Particulate emissions that are not properly filtered can endanger your health. For a list of airborne emissions that pertain to the media you are using, see the manufacturer's MSDS or contact the manufacturer or distributor directly.



WARNING: Do not let water or other liquids run freely into the output device. This can result in serious injury from electrical shock as well as damage to your output device. See *Cleaning Exterior Surfaces* on page 28.



WARNING: Do not use chemical solvents or aggressive cleaning solutions for cleaning the compressed air supply filter bowls. This can cause cracking or crazing on the plastic parts. When these plastic parts are exposed to high air pressure, parts may explode and cause serious injury and/or damage to the output device. See *Compressed Air Supply Filters* on page 38.



WARNING: Be careful handling the magnetic clamps if you have a pacemaker. Operators with implanted cardiac pacemakers should ensure that magnetic clamps are kept more than 7 cm (2.75 in.) away from their pacemaker. If you have additional concerns, consult your physician and/or the manufacturer of your implant. See *Removing a Stuck Media From the Output Device* on page 68.



WARNING: Turn off the air supply when working on the air supply filters. Failure to turn off the compressed air supply before inspecting or replacing a compressed air supply filter can result in serious injury and/or damage to your output device. See *Compressed Air Supply Filters* on page 38.



CAUTION: If the clamp tabs are not properly aligned, the drum surface can be damaged. See *Repositioning the Trailing-Edge Clamps* on page 70.



CAUTION: Wear protective gloves when handling plates and the magnetic clamps. Plate edges can be sharp. Failure to wear protective gloves can result in injury. See *Loading Media* on page 19.



CAUTION: Remove all slip sheets and packaging material from both the back and front of plates before you image 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, immediately disconnect the output device from the wall outlet.

Safety Features

The safety features on the Trendsetter UHR output device include an interlock system, a power switch, and an emergency switch.

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 a thermal imaging 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



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 plates. Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.



WARNING: When opening access panels, keep hands away from moving parts until the rotating drum comes to a complete stop. Mechanical hazards associated with the output device can result in serious injury and/or damage to your output device.

If mechanical movements do not stop after five seconds when you open or remove an access panel, the output device must be repaired. Take the following actions:

- Turn off the output device.
- Close or replace the access panel. To find out how to close the front and top panels, see page 32.
- Contact your service representative as soon as possible.

Power Switch

The power switch disconnects power to the output device.

Regular Operations

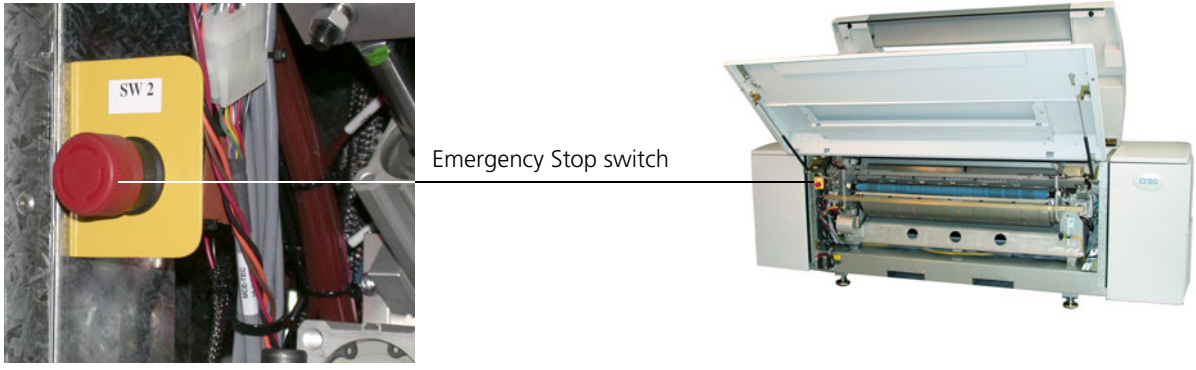
The power switch is located on the outside of the device. When you are instructed to turn off the output device for a maintenance procedure, use this switch to turn off the power. To find out how to shut down the output device, see page 18.

Emergency Shutdown

When the Emergency Stop switch is not accessible, turn the power switch to the **Off** position. The power switch disconnects power to the device.

Emergency Stop Switch

The Emergency Stop switch stops laser operation and mechanical movement, but the power remains connected. You can still access information about the status of the output device. Use this switch to stop laser operation and mechanical movement in an emergency situation. It is located inside the output device under the front panel.



If you press this switch, you must reset it before the output device can return to normal operations. See *Resetting the Emergency Stop Switch* on page 67.

For More Information

Visit Creo at http://www.creo.com/ for documentation, training courses, downloads, and service and support contacts.

2

System Overview

Trendsetter UHR System 10
System Components 10
Trendsetter UHR Components 11
Environment Specifications 13
Maintenance Supplies 14
Supported Media 14

Trendsetter UHR System

The Trendsetter UHR output device is an 8-page, semiautomatic platesetter that uses Creo thermal imaging technology to expose plates for security printing applications. It features semiautomatic media loading and unloading, high-speed throughput, PostScript compatibility, and automatic registration.

System Components

The Trendsetter UHR system consists of the output device, workstation, and Print Console software.

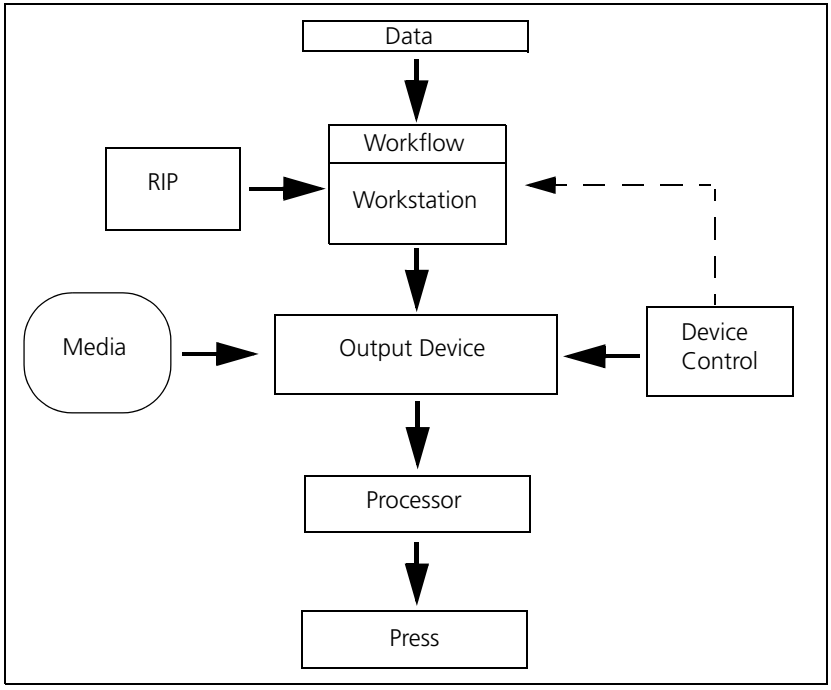


Figure 1: Trendsetter UHR system components

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.

Trendsetter UHR Components

This guide describes the output device as if you are facing the front of it. Figure 2 illustrates the location of the main components.

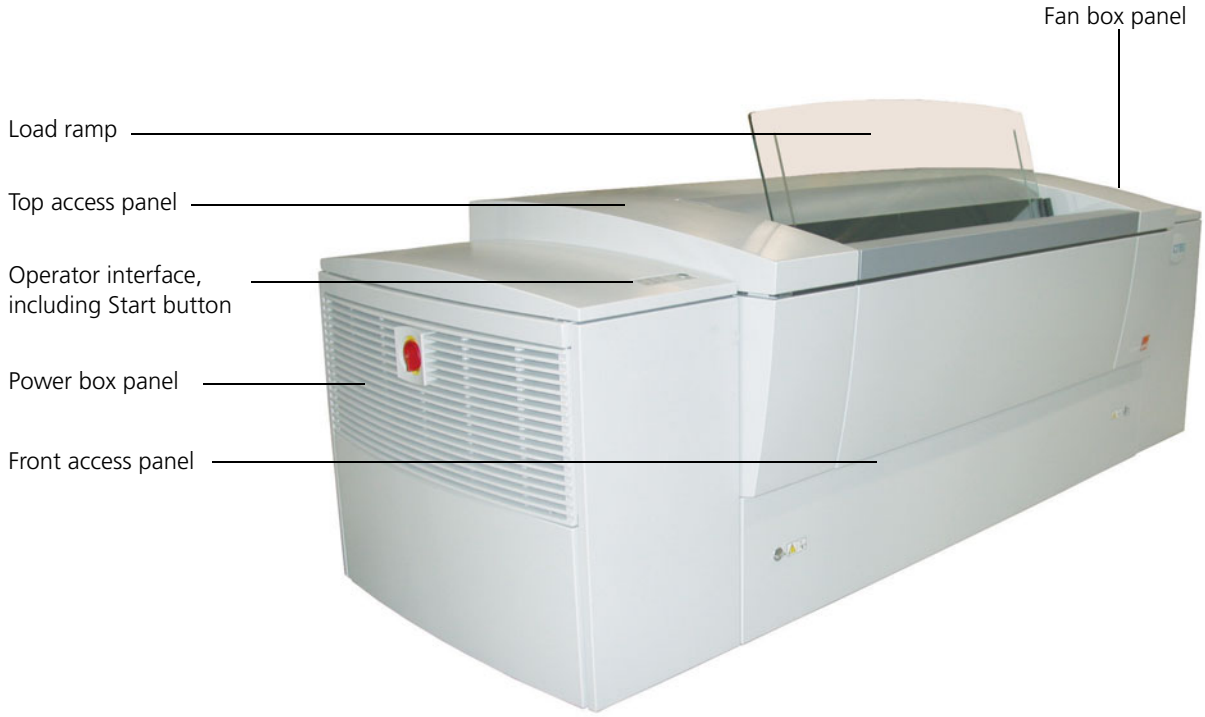


Figure 2: Output device components

Components for Loading and Unloading Media

Load Ramp

The glass load ramp is the entry and exit point for media that are imaged in the output device. Media are manually placed on the load ramp, imaged on the drum, and then returned to the load ramp.

Media Alignment Labels

Media alignment labels are affixed to the load ramp during installation. They are guidelines to help you align the media during loading.

Components in the Operator Interface

The operator interface includes the **Start** button and status lights.

Start Button

Pressing the **Start** button begins the imaging process. Press **Start** after you have loaded the plates.

Status Lights

Operators can receive information about the status of the output device from the status lights. The **Error**, **Imaging**, and **Load** lights in the operator interface on the top panel of the output device either glow a solid color or flash to indicate the various states described in Table 1 on page 13.

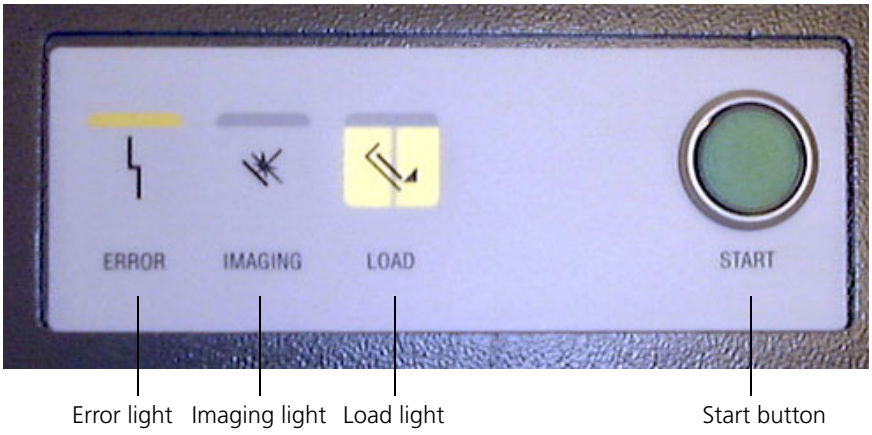


Figure 3: Operator interface

Table 1: Status lights

Error Light	Imaging Light	Load Light	Operator Action
Off	Off	Off	The device is idle. Submit a job through Print Console when ready.
		Solid green	The **Load** light remains on during the entire imaging process—from the time the job is approved, through loading, imaging, and unloading. It goes off when the plate is unloaded. During this time, there are two possible operator actions: • The output device is ready to accept plates for imaging—set a plate on the registration pins and align with the media labels. • The output device is waiting for an operator to unload a plate—unload plate from load ramp. If either action is required, you will receive a message from Print Console with specific instructions.
	Flashing green	Solid green	Wait. The device is imaging the plate.
Flashing yellow			An error has occurred and the job is suspended. Follow the instructions that appear in Print Console. When the error is resolved, the error light stops flashing. See *Operator Recoverable Errors* on page 50 for more information.

Environment Specifications

The Trendsetter UHR should be installed in a clean prepress area, in accordance with the site preparation document for your output device. Contact your Creo service representative for the most recent version of this document. 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 UHR are:

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

For information on noise emissions in an office environment, see *Noise Emissions* on page 96.

Required Operating Conditions

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

Maintenance Supplies

Item	Description
Filters	A number of filters are used in the output device to maintain the air quality. Use only Creo-authorized filters. Your output device may not operate properly if you use a substitute or unauthorized filter. See *Replacing Air Supply Filters* on page 38 for more information.
Debris Filters 	Trendsetter UHR machines are equipped with Debris Removal Systems. See *Replacing the Universal Debris Removal Cabinet Filter* on page 47 for more information. **WARNING:** Particulate emissions that are not properly filtered can endanger your health. For a list of airborne emissions that pertain to the plates you are using, see the manufacturer's MSDS or contact the manufacturer or distributor directly.
Media 	See *Supported Media* for more information. **WARNING:** Use only qualified media. Using unqualified media may expose you to noxious gaseous emissions in excess of applicable regulatory limits. This may result in discomfort, illness, injury, and/or disability.
Processor consumables	See the manufacturer's documentation for information pertaining to processor consumables.

Supported Media

Multiple Media Sizes

During installation, the output device is configured with the media sizes you will use. You can later change the media sizes in Print Console. For more information, see the Print Console online help.

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

Media Dimensions

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

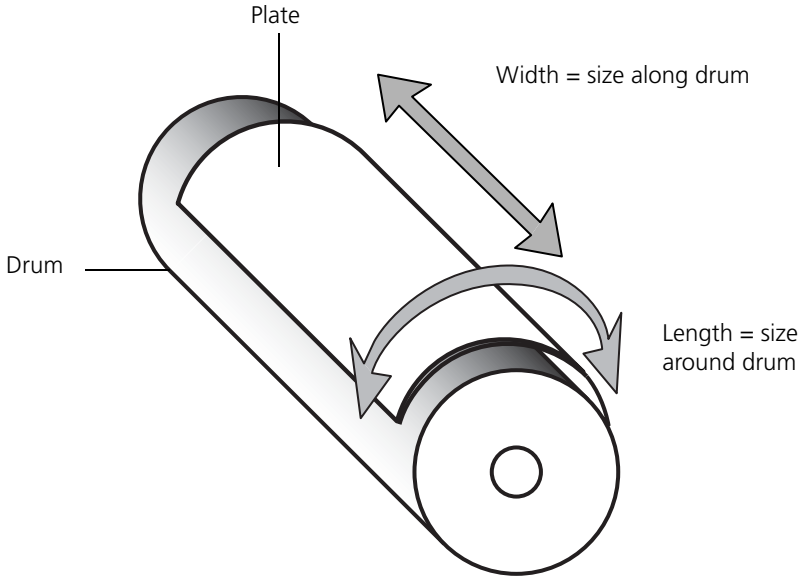


Figure 4: Media dimensions—landscape orientation

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 either image the media or report an edge detect error. This does not damage the output device in any way. However, the output device does not notify you that a media of an incorrect size has been imaged.

Media Sizes Supported

Plates	Size Around Drum		Size Along Drum		Thickness
	Maximum	Minimum	Maximum	Minimum	
Portrait or landscape	838 mm 33 in.	305 mm 12 in.	1143 mm 45 in.	229 mm 9 in.	0.15 mm to 0.4 mm 0.006 in. to 0.016 in.

Media Orientation

Advantages and Drawbacks of Portrait Orientation

You can decrease imaging time by using portrait orientation. Remember, however, that when you use portrait orientation:

- It is not possible to image to the edge of the media because the output device cannot image underneath the clamps.
- You must punch on the long side because the output device registers along the short side of the media. If you want to punch on the short side, the plate must be perfectly square.

Media Processing

Some of the media supported by the Trendsetter UHR require processing after they are imaged. For information on processing your media, see the media manufacturer's documentation.

3

Operation

Starting and Shutting Down the Trendsetter UHR 18
Loading Media 19
Removing Imaged Plates 22
Plate Registration 22

Starting and Shutting Down the Trendsetter UHR

Warmup Time

The Trendsetter UHR 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 for imaging wait on the workstation until the output device is ready.

To start the output device:

1. Turn the power switch at the top of the power box panel clockwise to the **On** position.

   If the output device does not start, the circuit breaker may be tripped. To reset the circuit breaker, see *Tripped Circuit Breaker* on page 73.



Figure 5: Turning the power switch to the On and Off positions

2. Turn on the workstation. See the documentation that you received with your workstation.
3. Start Print Console. See the *Print Console Quick Start Guide*.

To shut down the output device:

1. Remove all plates from the drum.
2. For information about quitting Print Console, see the Print Console online help.
3. You normally leave the workstation running at all times. If you decide to turn it off, see the documentation that you received with your workstation.
4. Turn the power switch counterclockwise to the **Off** position.

Loading Media

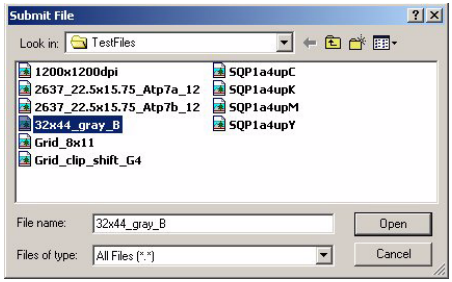
Media are manually loaded one at a time onto the load ramp. After imaging, the media is returned to the load ramp.



CAUTION: Wear protective gloves when handling plates. Plate edges can be sharp. Failure to wear protective gloves can result in injury.

To load media:

1. In Print Console, submit the file that you want to image. For the procedure, see the Print Console online help.

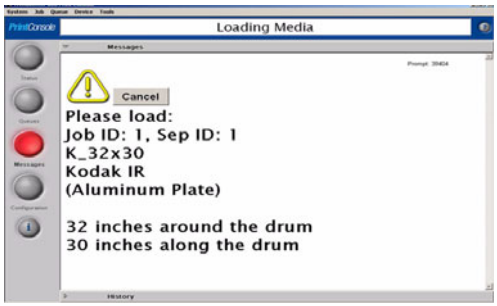


2. Ensure that the output device is ready to accept media for imaging.

   This means that:

   - Print Console displays the Loading Media dialog box. It tells you the size and type of plate to load.
   - The **Load** light on the operator interface flashes green. After a few seconds, you will hear a beep. This is your prompt to load media.
   - The sealed plate entry/exit door at the base of the load ramp is open.

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



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

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

CAUTION: Remove all slip sheets and packaging material from both the back and front of plates 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, ensuring that the side of the media to be imaged (the emulsion side) is facing you. The emulsion side is usually the duller-looking surface.

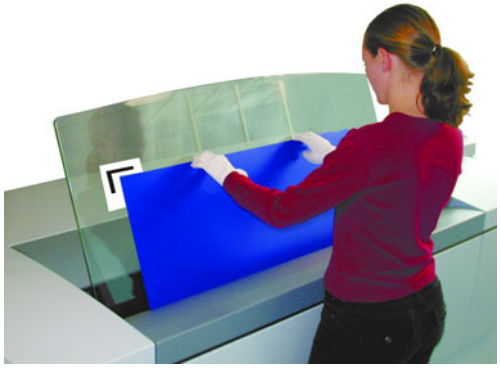


Do not lean on the output device when you load media. Doing so can result in misregistration.

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



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

- Media larger than 750 mm (29.5 in.) should be centered on the load ramp. (There is no need to shift the media because it is sitting properly on the registration pins.)
- Media larger than 450 mm (17.7 in.), up to and including 650 mm (24.8 in.), should be shifted from the center to the right by approximately 137 mm (5.4 in.). This ensures that the media is sitting properly on the registration pins.
- Plates 450 mm (17.7 in.) and smaller, should be shifted from the center to the right by approximately 221 mm (8.7 in.). This ensures that the media is sitting properly on the registration pins.

8. Release the media.

9. Press **Start** when the **Load** light is flashing green.



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

The Trendsetter UHR loads and then images the media. The imaged media returns to the load ramp, and the **Load** light flashes again.

Removing Imaged Plates

To remove imaged plates from the output device:

1. Ensure that the output device has finished imaging the plate.

   When imaging is complete, the **Load** light flashes and the imaged plate unloads to the load ramp.

2. Wearing gloves, grasp the edges of the plate. Lift the plate upwards and carefully remove it from the load ramp.



CAUTION: Wear protective gloves when handling plates. Plate edges can be sharp. Failure to wear protective gloves can result in injury.

Plate 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 (with the assistance of your service representative). These labels act as guidelines to help you align the media during loading. The laser in the output device does the more precise registration. The laser beam corrects the registration to within 15 mm (0.59 in.) if you:

- Load the media to within ±3 mm (0.125 in.) of the correct position on the load ramp. 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 register properly on the drum.

When the media is correctly positioned, the output device can detect the plate edge more quickly, resulting in faster overall imaging time.

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 site preparation document for your output device or contact your service representative for additional information.

4 Maintenance

Maintenance Schedule 26
For Your Safety 28
Cleaning Exterior Surfaces 28
Accessing the Interior of the Output Device 30
Cleaning the Interior of the Output Device 35
Cleaning the Edge Detection Strip 35
Cleaning the Plate Roller 37
Replacing Air Supply Filters 38
Replacing the Universal Debris Removal Cabinet Filter 47

Maintenance Schedule

Table 2 on page 27 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 breakdowns.

Keep a record 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 a service representative. However, if your operating conditions require maintenance more frequently, Creo strongly recommends that you perform these maintenance procedures prior to a service visit.



Important: Before performing any maintenance procedure, ensure that the output device is not imaging plates, and then turn the output device off. If you turn off the output device while it is imaging, the imaging process stops and the plot is lost.

Table 2: Schedule of recommended maintenance procedures

Description and Location	Maintenance Procedure	Clean	Replace
Exterior surfaces of the output device	See page 28.	Weekly	N/A
Load ramp	See page 29.	Weekly	N/A
Edge detection strip on the drum	See page 35.	Every three months	N/A
Bright blue rubber plate roller that holds media to the drum during loading	See page 37.	Every month	N/A
Compressed air supply filter system on lower-right back panel: • 5-µm filter • 0.01-µm filter Filter bowls	 See page 42. See page 45. Check for oil or water. See page 40.	 N/A N/A Weekly	 Every six months Every six months When cracked
Cooling air filter system inside the fan box panel	See page 45.	N/A	Every six months
Particulate filter in Universal Debris Removal Cabinet	See the *Universal Debris Removal Cabinet Operator Guide.*	N/A	When error message appears in Print Console
UDRC cabinet	See page 28.	Weekly	N/A

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. If mechanical movements do not stop, follow these steps:

1. Turn the power switch to the **Off** position. See Figure 5 on page 18.
2. Close or replace the access panel. See page 32.
3. Contact your service representative.

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



DANGER: Do not tamper with the access panel interlock system (see *Interlock System* on page 6). Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.

Cleaning Exterior Surfaces

Clean the exterior of the Trendsetter UHR 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 plates enter and exit the output device.

If you have a system with a Universal Debris Removal Cabinet, 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 vapor. 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 let water or other liquids run freely into the output device. This can result in serious injury from electrical shock as well as damage to your output device.

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.

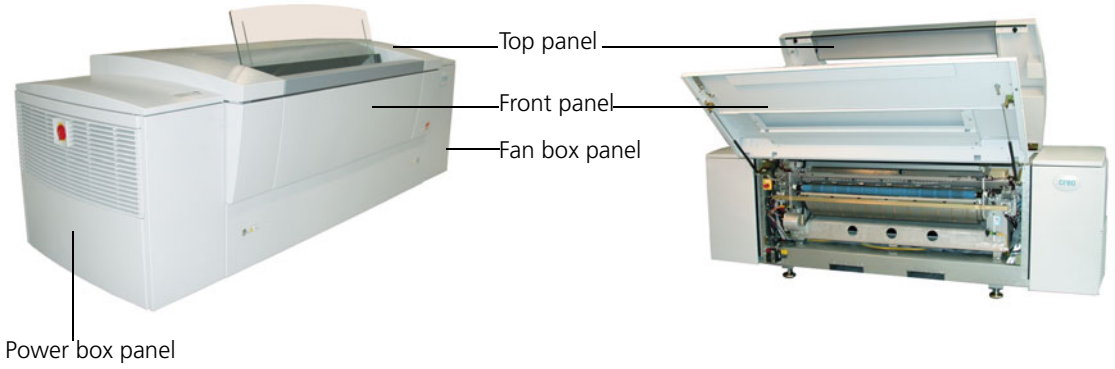


Figure 6: Panels to access the interior

The top panel, front panel, fan box panel, and power box panel provide limited operator access to the interior of the output device. The fan box panel lets you access the intake air filter. The power box panel lets you access the pump fuse and circuit breaker. When you remove the power box panel, you will see a service access panel that can be removed only by a service representative.

Only a service representative should remove the back panel of the output device or the top panels on the fan box and the power box.

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 plates while the laser is warming up.

Important: 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 and Top Panels

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

- Remove a stuck plate from the drum—see *Removing a Stuck Media From the Output Device* on page 68.
- Clean the plate roller—see *Cleaning the Plate Roller* on page 37.
- Clean the edge detection strip—see *Cleaning the Edge Detection Strip* on page 35.

To open the front and top panels:

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.

1. In Print Console, from the **Device** menu, select **Unlock panel(s)**.

   The front panel unlocks.

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

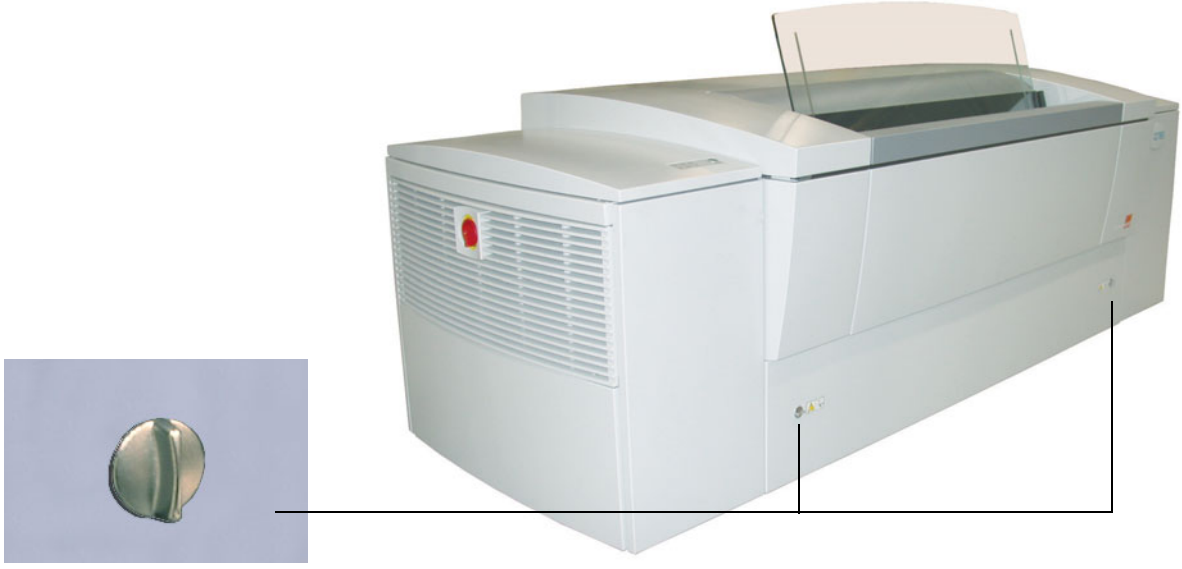


Figure 7: Latches on front panel

3. Lift the front panel upward.



The front and top panels are controlled by gas struts, which assist in opening the panels.

CAUTION: When the front panel is raised, it will intrude into the space around the output device where the operator normally works. Ensure that you and others working near you do not injure yourselves or damage the device by walking into or bumping against the raised panel.

To close the front and top panels:

1. Close the front panel.
2. Rotate both latches 90º clockwise (to the horizontal position) to secure the front panel.
3. Grasp the raised top panel and pull downward.



4. Push on the two corners to lock the internal latches.

   The top panel will not latch unless the front panel is fully closed and latched.

   The front panel lock reengages.

Removing and Replacing the Fan Box Panel

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

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 8: 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.

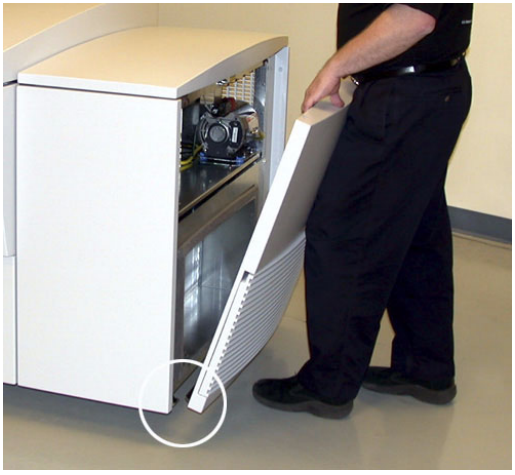


Figure 9: Replace the fan box panel

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 (see page 73) or to replace the pump fuse.

To remove the power box panel:

1. Shut down the output device.
2. Push the upper corners of the panel with the palms of your hands until you hear both latches click. (See Figure 8 on page 33 for 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 align the locating holes on the panel with the locating pins on the output device. Lower the bottom of the panel onto the pins. (See Figure 9 on page 34 for an example of how to do this.)
2. Press the panel against the device frame, and then push the upper panel corners in until you hear both latches click.

   Ensure that both power box panel latches are locked.
3. Turn the power for the output device on.

Cleaning the Interior of the Output Device

You should regularly perform routine maintenance on interior areas of the output device, as outlined in Table 2 on page 27.



WARNING: Do not let water or other liquids run freely into the output device. This can result in serious injury from electrical shock as well as damage to your output device.

Cleaning the Edge Detection Strip

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

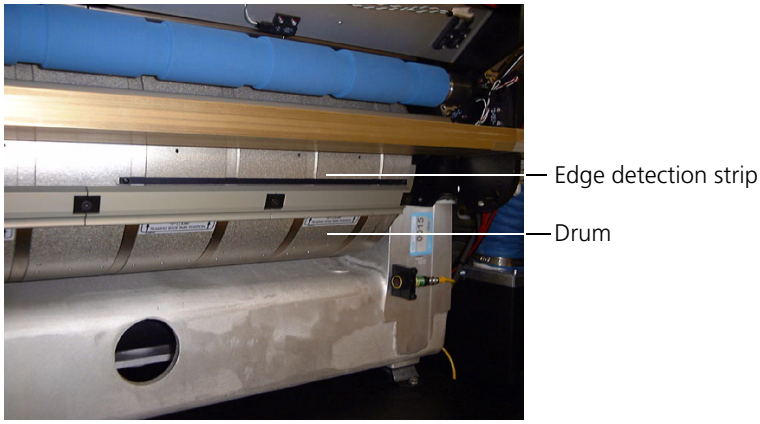
You must clean the edge detection strip every three months to avoid false edge detections.

To clean the edge detection strip:

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

   See *Starting and Shutting Down the Trendsetter UHR* on page 18.
3. Open the front panel.

   See *Opening and Closing the Front and Top Panels* on page 31.
4. Rotate the drum by hand until the edge detection strip is visible.



5. Dampen a lint-free cloth (suitable for delicate tasks) with a mixture of 90 percent isopropanol and 10 percent distilled water, and swipe along the strip once, in one direction only.



Figure 10: Cleaning the edge detection strip

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

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

6. Close the front panel.

See *Opening and Closing the Front and Top Panels* on page 31.

Cleaning the Plate Roller

Clean the plate roller monthly.



Figure 11: Plate roller and drum

CAUTION: Never put any pressure on or bend the plate rollers. Doing so may damage the plate rollers.

To clean the plate roller:

1. Ensure that the output device is not currently imaging plates.
2. Shut down the output device. See *Starting and Shutting Down the Trendsetter UHR* on page 18.
3. Open the front panel. See *Opening and Closing the Front and Top Panels* on page 31.
4. Wipe the plate roller (bright blue) gently with a lint-free damp cloth (suitable for delicate tasks).



5. Close the front panel. See *Opening and Closing the Front and Top Panels* on page 31.

Replacing Air Supply Filters

There are two air filtration systems in the output device:

- Compressed air supply filter system. This consists of two filters on the lower-right back panel.
- Cooling-air filter system. This system is behind the fan box panel.

Frequency of Filter Replacement

Inspect and replace these filters regularly:

- Inspect the compressed air supply system weekly for oil, water, and cracks or crazing in the filter bowls.
- Replace the compressed air supply filters every six months.
- Replace the intake air filter every six months.

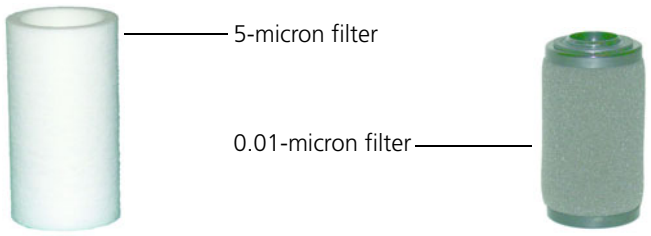
For customers with service contracts, service representatives will replace the filters during the six-month service visit. However, if your operating conditions require filter replacement more often (for example, with heavy usage or in a dusty operating environment), Creo strongly recommends that you perform this maintenance procedure between service visits.

A visual inspection of filters is one way to determine if they need replacement. If they appear very dirty, they should be replaced. They may, however, appear 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.

Compressed Air Supply Filters

There are two compressed air supply filters.

- 5 micron—This filter is white.
- 0.01 micron (micromist)—This filter is black.



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

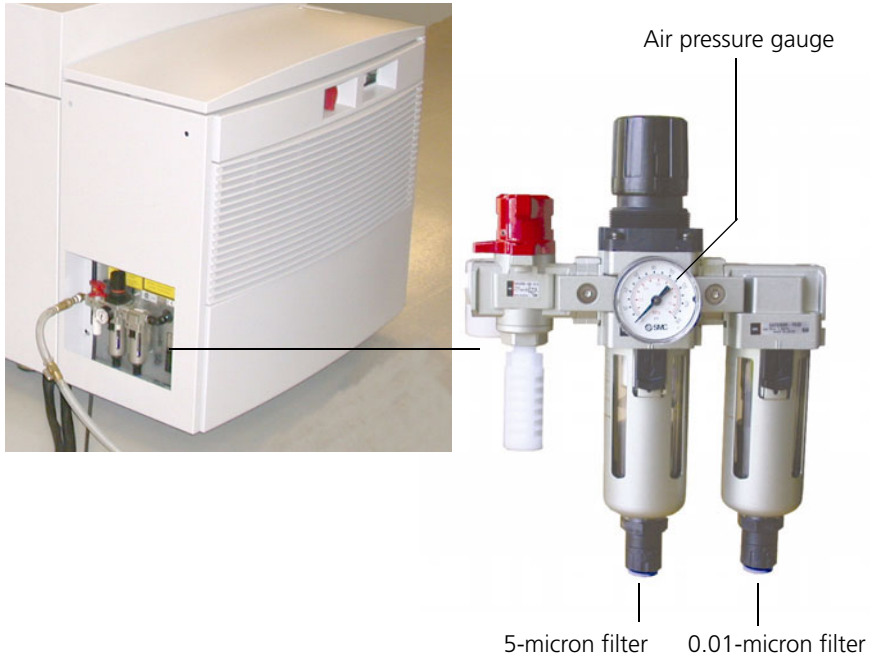


Figure 12: Compressed air supply filter system

Inspect the filters and bowls weekly and replace the filters every six months. If the filters become clogged, they can cause low air pressure problems in the output device. If a filter is allowed to fail, contaminants can damage the air system in the output device. All compressed air supply filters should be replaced at the same time. Do not replace one filter and not the other.

Replacement Parts

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



CAUTION: Read and follow all precautions provided by the manufacturer of the filters used in the compressed air supply system. 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.

Inspecting the Compressed Air Supply Filter System

Inspect the compressed air supply filter bowls weekly. Check for:

- Water

  If water is blown into the interior of the device or onto a plate, it could interfere with the quality of the image and/or create an environment in which rust can develop.

- Oil

  If oil is carried downstream or blown into the interior of the device, it could rinse away the permanent lubricant in the valves, causing them to wear out prematurely, and/or contaminate the operating environment.

- Cracks, crazing, or other signs of damage or deterioration in the bowl



WARNING: If plastic parts with cracks or crazing are exposed to high air pressure, parts may explode and cause serious injury and/or damage to the output device. See *Compressed Air Supply Filters* on page 38.

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 UHR is permanently damaged.

If you find any water, oil, or cracks or crazing in the filter bowl, notify your service representative.

To inspect the filters:

1. Ensure that the output device is not imaging plates.
2. Turn the red air shutoff valve clockwise to the **Off** position to shut off the compressed air supply. See step 3 on page 42.



WARNING: Failure to remove air pressure from the output device before inspecting an air filter will result in the following problems:
• High-pressure air to be present in the filter elements and bowl, making disassembly difficult and dangerous, resulting in possible serious injury from flying parts
• A very loud noise that could damage your hearing

3. Shut down the output device.

   See *Starting and Shutting Down the Trendsetter UHR* on page 18.

4. Pull down the black tab on the front of the filter bowl for one of the filters. This releases the lock on the filter bowl. See step 4 on page 42.

   At the same time, rotate the filter bowl a quarter turn left and pull the filter bowl down to remove it.

5. Check the filter bowl for any damage or deterioration (cracks or crazing).

   Contact your service representative if replacement is necessary.

6. Check for water or oil in the filter bowl.

   If there is water or oil in the filter bowl, wash the filter bowl with mild soap and warm (not hot) water and contact your service representative to have the air supply inspected.

7. Reinstall the filter bowl.
8. Repeat steps 4 through 7 for the other filter.
9. Turn the red air shutoff valve counterclockwise to the **On** position to turn the compressed air supply back on. See step16 on page 45.

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

Replacing the 5-Micron and the 0.01-Micron Filters

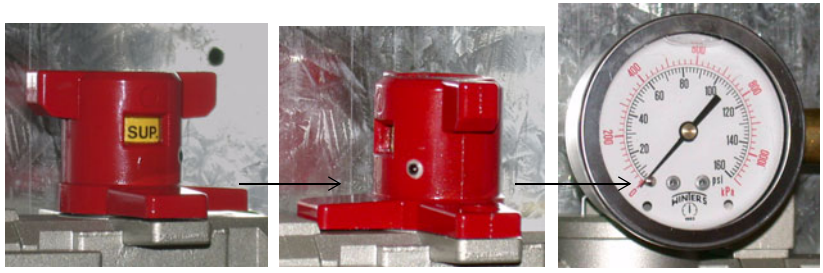
To replace the 5-micron and the 0.01-micron filters:

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

   See *Starting and Shutting Down the Trendsetter UHR* on page 18.
3. Turn the red air shutoff valve clockwise to the **Off** position to shut off the compressed air supply.

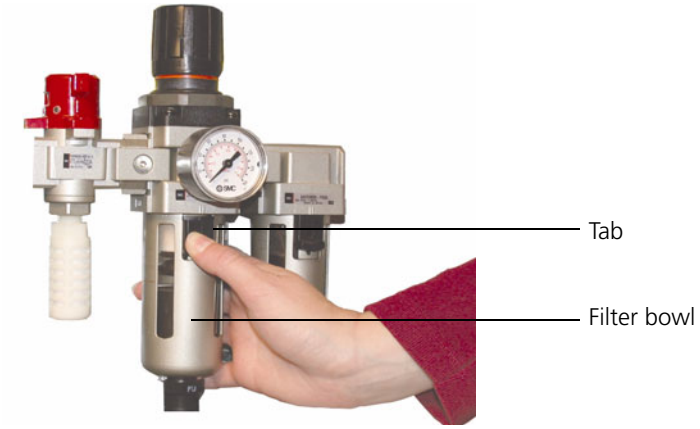
WARNING: Failure to remove air pressure from the output device before replacing an air filter will result in the following problems:
- High-pressure air to be present in the filter elements and bowl, making disassembly difficult and dangerous, resulting in possible serious injury from flying parts
- A very loud noise that could damage your hearing

Turn valve clockwise | Valve is in Off position | Air gauge = 0 psi

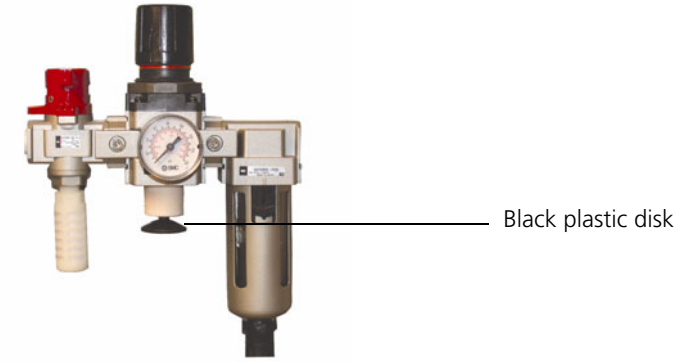


4. Pull down the black tab on the front of the filter bowl for the 5-micron filter. This releases the lock on the filter bowl.

   At the same time, rotate the filter bowl a quarter turn to the left and pull the filter bowl down to remove it.



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



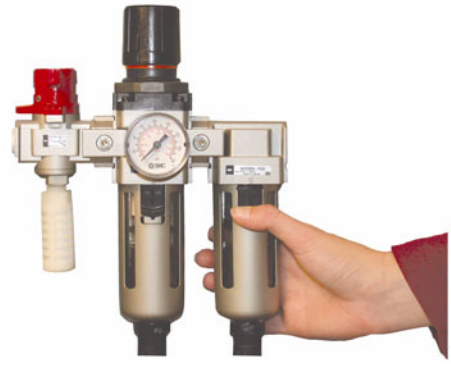
6. Remove the used 5-micron filter from the black spool and discard it.
7. Install a new 5-micron filter on the spool and screw the black plastic disk back into the filter assembly until you feel it click.
8. Replace the rubber O-ring at the top of the filter bowl.
9. Check the filter bowl for any damage or deterioration (cracks or crazing). Contact your 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, wash the filter bowl with mild soap and warm (not hot) water and contact your service representative to have the air supply inspected.
11. Reinstall the filter bowl.

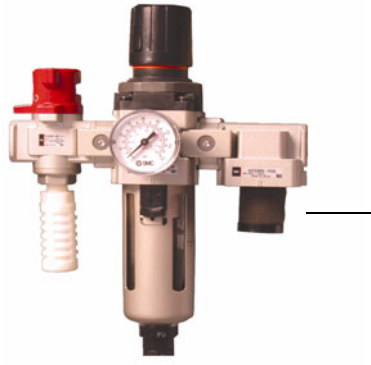


12. Pull down the black tab on the front of the 0.01-micron filter bowl. This releases the lock on the filter bowl.

    At the same time, rotate the filter bowl a quarter turn to the left and pull the filter bowl down to remove it.



13. Unscrew the used 0.01-micron filter and discard it.

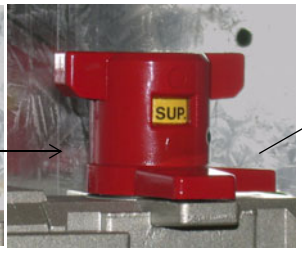


14. Install a new 0.01-micron filter by screwing the filter in until it is hand-tight.
15. Perform steps 8 through 11 for the 0.01 micron filter.
16. Turn the red air shutoff valve counterclockwise to the **On** position to turn the compressed air supply back on.

Turn valve counterclockwise



Valve is in On position



Air gauge = 90 psi



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

Intake Air Filter

The intake air filter system is located inside the fan box panel. Replace this filter every six months. In dirtier environments, replace it more often.

Replacement Parts

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

Replacing the Intake Air Filter

Intake air filters are white and 50.8 mm (2 in.) thick. When installing new filters, pay attention to the air-flow indication arrows on the edge of the filter.

To replace the intake air filter:

1. Shut down the output device. See *Starting and Shutting Down the Trendsetter UHR* on page 18.
2. Remove the fan box panel. See *Removing and Replacing the Fan Box Panel* on page 33.

3. Pull the old filter out of the frame.



4. Clean the filter frame. Vacuum the frame or wipe it with a dry cloth.



5. Insert the new intake air filter into the filter frame according to the air-flow indication arrows on the edge of the new filter.



6. Replace the fan box panel. See *Removing and Replacing the Fan Box Panel* on page 33.

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 plate type, number of plates used, and frequency of imaging.

For more information on ordering and replacing the Universal Debris Removal Cabinet filter, see the *Universal Debris Removal Cabinet Operator Guide*.

5

Troubleshooting

Operator Recoverable Errors....50
Error Messages and Recommended Solutions....54
Resetting the Emergency Stop Switch 67
Resetting the Output Device 67
Removing a Stuck Media From the Output Device....68
Image Quality Problems....73
Problems Caused by Power Failures....73

Operator Recoverable Errors

This chapter describes common errors and problems that can occur with the Trendsetter UHR and explains how to resolve them. For a list of common error messages and recommended solutions, see *Error Messages and Recommended Solutions* on page 54.

When the output device detects a problem, it:

- Continues operation (see *Warning Messages*)

  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*)

  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 on the operator interface flashes.

  If an error suspends operations, you must intervene 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 appear in Print Console. Instead, they go directly to the History pane as part of the historical record. However, some warning messages may appear 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 appears 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 plates are 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 is corrected, the error message 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 plates that are misaligned or stuck on the drum.

Example of a Suspend Condition

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

When a suspend condition occurs:

- The output device stops.
- The **Error** light on the operator interface flashes.
- A Suspend prompt appears in Print Console.

Up to six options are available in Print Console when a suspend condition occurs.

Table 3: 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 plates so that they can be easily removed.
Eject	Click this button to cancel the job and unload the plates.
Media Removed	Click this button after you remove the plates to indicate that you have manually intervened to fix a problem. For example, you have manually removed misaligned plates. **Important:** You must remove the plates before you click **Media Removed**.
Cancel	Click this button to cancel the job. If the output device is loading a plate, the load is completed and the plates are 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. Plates are 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 previous 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 plates 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 plates 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 plates 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 plates.

   b. Manually remove the plates from the output device.

   c. Click **Resume** or **Media Removed** 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 plates from the output device.

   b. Click **Resume** or **Media Removed** 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 a Creo service representative.

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 UHR.



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 52. If that does not work, contact your service representative.

Even when you solve a problem yourself, you should report any recurring errors to your service representative. If, as part of the recommended operator action, you contact a service representative, report the error number (also called prompt number) to help the service representative 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 UHR output device can take up to two minutes to warm up after it is restarted. You cannot image plates while the output device is warming up. Files submitted for imaging 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.You don't need to know the various error categories to solve the error.

Table 4: 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 plates while the Emergency Stop switch is activated. **To correct the error:** ➢ Reset the Emergency Stop switch. See *Resetting the Emergency Stop Switch* on page 67.
`PRD: Front panel is open, check front panel [Error #: 35733]`	The front panel is open. The output device cannot image plates while the front panel is open. **To correct the error:** 1. Close the front panel. 2. Click **Resume**. **Important:** If the error persists, contact your 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 plates while the back panel is removed. **To correct the error:** 1. Verify that the back panel is in place. 2. Click **Resume**. **Important:** If the error persists, contact your service representative.

Numerical Listing (Continued)	
PRD: System Pressure Out of Range: Reading=<Low range limit>, Low=<High range limit>, High=<Current value> [Error #: 35771]	Contaminants have damaged the air supply system in the output device or otherwise restricted the airflow. **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 80 psi and 90 psi. • Adjust the external air supply if necessary. 2. Contact your service representative immediately to report the error.
PRD: Top panels not detected, check top panels [Error #: 35773]	The top panel is open or removed on the output device. The output device cannot image plates while the top panel is open or removed. **To correct the error:** 1. Verify that the top panel is in place. 2. Click **Resume.** **Important:** If the error persists, contact your 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 plates while the fan box panel is removed. **To correct the error:** 1. Replace the fan box panel. 2. Click **Resume**. **Important:** If the error persists, contact your service representative.
PRD: Front panel is unlocked [Error #: 35786]	The front panel did not lock properly. The output device cannot image plates while the front panel is unlocked. **To correct the error:** 1. In Print Console, from the **Device** menu, select **Unlock Panel(s)**. 2. Open the front panel and then close it. 3. Click **Resume**. **Important:** If the error persists, contact your service representative.
Error #: 37240 Thermal: TH2 error 01307, Focus: Timeout waiting for focus OK Or Thermal: TH2 error 03529, System: Failure of the focus learn Or HEAD: Unable to learn focus [Error #: 17031]	The laser could not focus properly on the plate because the plate may be dented or improperly loaded. **To correct the error:** 1. Cancel the job and check the plate for damage. 2. Load a new plate and resubmit the job. 3. If the error occurs again, shut down the system and start it up again. Even if the output device recovers from the error, call your service representative to report it.

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 plate • An improperly loaded plate • An image running off the edge of the plate (the image is wider than the plate) **To correct the error:** 1. Inspect the plate for image artifacts. 2. Load a new plate of the correct size, and resubmit the job. **Important:** If the error persists, contact your service representative.
`MPC: Could not find edge of media after xx attempts` `[Error #: 38108]`	**To correct the error:** 1. Ensure that the plate is loaded with the side to be imaged (the emulsion side) facing up. 2. Ensure that the plate is positioned properly, using the media alignment labels. 3. Ensure that the plate loaded is the correct size. 4. If the plate is the correct size, try loading it again. **Important:** If the error persists, contact your 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 plate with a reasonable amount of certainty. This may be due to a dirty edge detect strip, or to the plate type or size. **To correct the error:** 1. Click **Eject** to cancel the job and unload the plate. 2. Check the plate for any damage to its edges. 3. If damaged, load another plate. 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 35. 3. Close the back panel. **Important:** If no valid edge is found after you clean the edge detect strip, contact your service representative to report the error.
MPC: Media not on <home/away> registration pin [Error #: 38132]	The plate is not sitting on the correct registration pin. **To correct the error:** 1. Click **Eject** to cancel the job and unload the plate. 2. Ensure that the plate is loaded in the correct position. 3. Ensure that the plate loaded is the correct size. 4. If the plate is the correct size, try loading it again. **Important:** If the error persists, contact your service representative.

Numerical Listing (Continued)	
MPC: Subscan output resolution of <Subscan output resolution> DPI must equal head resolution [Error #: 38136]	The resolution set up in the device is not supported in the thermal head. **To correct the error:** ➢ Contact a Creo service representative.
MDH: Media released, remove media and use RESUME to continue [Error #: 40229]	The output device released the plates after you clicked **Release**. **To correct the error:** 1. Remove the plates from the output device. 2. Click **Resume**.
MDH: Roller timeout: Failed to <action> sensor. [<I/O name>] [Error #: 40616]	A timeout error occurred. The output device cannot move one of the roller components. **To correct the error:** Take one of the following actions: • Click **Resume**. • Reset the output device. See *Resetting the Output Device* on page 67.

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 plates were 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 **Resume** to resume imaging. If the media sizes do not match, take one of the following actions: • Click **Cancel** and modify the media size as needed. • Load a different-size plate into the output device. • Reload the plate.

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 in question from the output device. 2. Click **Media Removed** or **Release**. 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 in question from the output device. 2. Click **Media Removed** or **Release**. 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 greater than that specified in the workstation software. The problem may be caused by two or more plates sticking together. **To correct the error:** 1. Click **Media Removed** or **Release**. The plates automatically unload. 2. Separate the plates that are stuck together. 3. Resubmit your job.
MDH: Media partially loaded on drum, use RELEASE then remove the media [Error #: 40629]	Plates are only partially loaded onto the drum. They must be removed before operations can continue. **To correct the error:** 1. Click **Media Removed** or **Release**. 2. Remove plates from the drum. See *Removing a Stuck Media From the Output Device* on page 68. 3. Click **Resume**.
MDH: Media flyoff detected, please open panel and remove media [Error #: 40631]	**To correct the error:** 1. Open the front panel. 2. Remove the plates from the drum. 3. Close the front panel. 4. Click **Resume**. 5. Ensure that the media size selected in Print Console matches the media size you are loading. 6. Resubmit the job.

Numerical Listing (Continued)	
`MDH: Media has invalid main scan length, it is smaller than expected` `[Error #: 40658]`	The output device attempted to load plates that are the wrong size and then ejected the plates. **To correct the error:** 1. Remove the ejected plates from the output device. Click **Release** if the plates have not been ejected. 2. Click **Resume** to retry. 3. Ensure that the media size selected in Print Console matches the media size you're loading. 4. Resubmit the job.
`MDH: Media has invalid main scan length, it is larger than expected` `[Error #: 40659]`	The output device attempted to load plates that are the wrong size and then ejected the plates. **To correct the error:** 1. Remove the ejected plates from the output device. Click **Release** if the plates have not been ejected. 2. Click **Resume** to retry. 3. Ensure that the media size selected in Print Console matches the media size you're loading. 4. 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:** Take one of the following actions: • Click **Resume**. • Reset the output device. See *Resetting the Output Device* on page 67.

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:** Take one of the following actions: • Click **Resume**. • Reset the output device. See *Resetting the Output Device* on page 67.
`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:** Take one of the following actions: • Click **Resume**. • Reset the output device. See *Resetting the Output Device* on page 67.
`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:** Take one of the following actions: • Click **Resume**. • Reset the output device. See *Resetting the Output Device* on page 67.

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:** Take one of the following actions: • Click **Resume**. • Reset the output device. See *Resetting the Output Device* on page 67.
`MDH: Please remove media detected on load ramp` `[Error #: 40668]`	Plates are on the load ramp. **To correct the error:** 1. Remove the plates. 2. Click **Media Removed**.
`MDH: Media not detected on load ramp` `[Error #: 40669]`	The output device did not detect plates during loading. **To correct the error:** 1. Ensure that the plates are loaded correctly. 2. Click **Resume**.

Resetting the Emergency Stop Switch

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

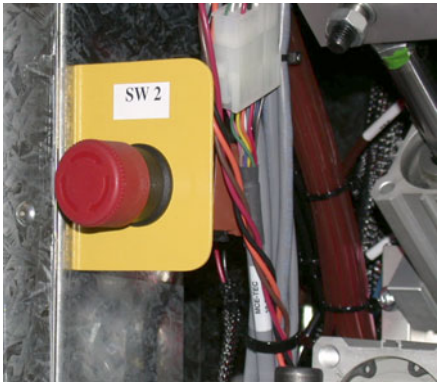


Figure 13: Emergency Stop switch

To reset the Emergency Stop switch:

➢ Rotate the Emergency Stop switch 90º clockwise.

Resetting the Output Device

To reset the output device to its idle or Ready state:

➢ 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 plate is being loaded onto or unloaded from the drum, the partially loaded plate 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 70.

CAUTION: Wear gloves to avoid pinching your fingers between the trailing-edge clamps and the drum.

CAUTION: Operators with implanted cardiac pacemakers should ensure that magnetic clamps are kept more than 7 cm (2.75 in.) away from their pacemaker. If you have additional concerns, consult your physician and/or the manufacturer of your pacemaker.

Observe the following:

- Keep magnetic data—floppy disks, magnetic stripe cards, watches, and so forth—away from the powerful magnetic trailing-edge clamps. The following label appears on the trailing-edge clamps as a reminder.

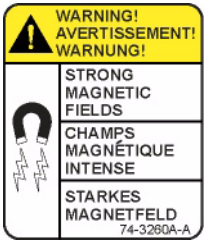


Figure 14: Strong Magnetic Fields label

- When handling the magnetic clamps, do not bring opposite poles near each other. Keep hands and fingers from between opposite magnetic poles.

Removing the Plate

To remove a plate from the drum:

1. Open the top and front panels.

   See *Opening and Closing the Front and Top Panels* on page 31.



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: Wear protective gloves when handling plates and the magnetic clamps. Plate edges can be sharp and it is possible to pinch your fingers between the trailing-edge clamps and the drum. Failure to wear protective gloves can result in injury.

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

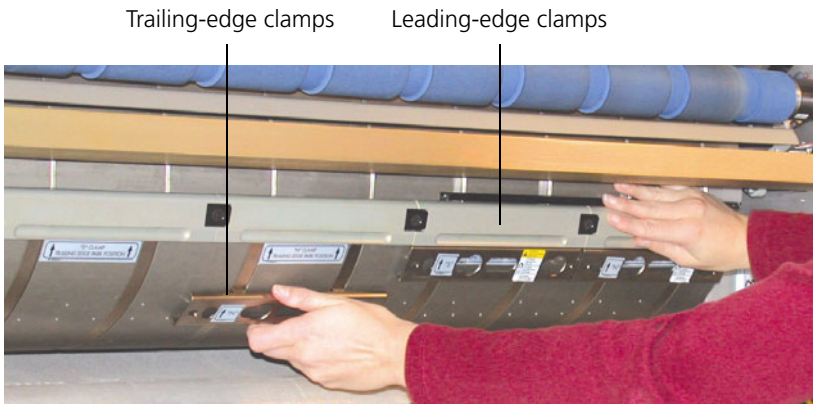


Figure 15: Leading-edge and trailing-edge clamps

4. Rotate the drum by hand, while guiding the trailing edge of the plate 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 plate.
6. Grasp the corners of the plate and firmly pull toward you, until the plate comes free of the leading-edge clamps.



Figure 16: Fold the corners to grasp the plate

7. To inspect for debris left behind, open the leading-edge clamps by pressing down on the edge of the clamps.
8. In Print Console, click **Resume**.

   Another message appears, indicating that you must put the trailing-edge clamps in the park position.
9. Reposition the trailing-edge clamps. See *Repositioning the Trailing-Edge Clamps* on page 70.
10. Close the top and front panels. See *Opening and Closing the Front and Top Panels* on page 31.

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 plates 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
  ```



CAUTION: Wear gloves to 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 and Top Panels* on page 31.
2. If there is a plate on the drum, remove it. See *Removing a Stuck Media From the Output Device* on page 68.
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 and Top Panels* on page 31.

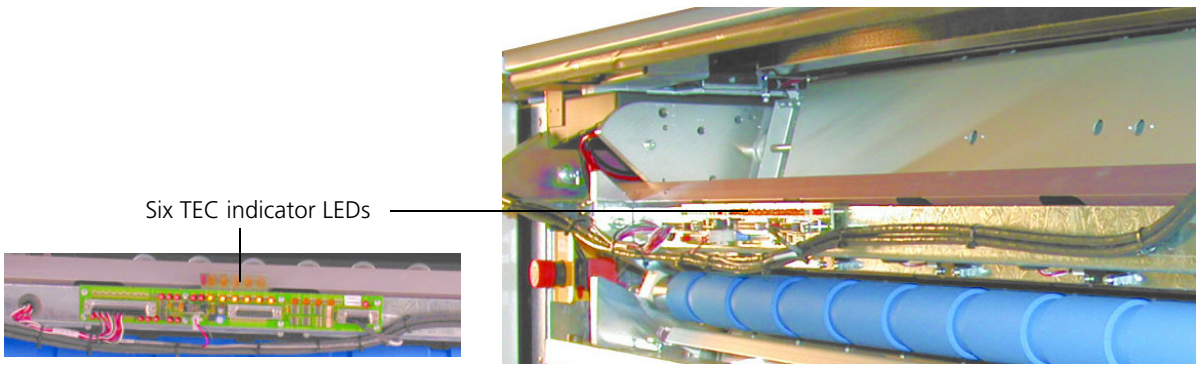
9. In Print Console, click **Resume**.

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
    ```

    a. Open the front panel.

    b. Check the trailing-edge clamp (TEC) indicator LEDs. Six indicators should be illuminated.



    c. If they are not, reposition the clamps and repeat steps 4 to 10.

Image Quality Problems

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

Problems Caused by Power Failures

If there is a power failure, the Trendsetter UHR shuts down immediately.

Some types of workstation are equipped with an Uninterruptible Power Supply (UPS), which 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 plates are partially on the drum. In this case, a message appears in Print Console and you must remove the plates. See *Removing a Stuck Media From the Output Device* on page 68.

When a power failure occurs, turn off the output device using the power switch shown in Figure 5 on page 18. 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 34.

3. Reset the circuit breaker switch.



Figure 17: Circuit breaker switch

4. Replace the power box panel.

   See *Removing and Replacing the Power Box Panel* on page 34.

5. Restart the output device.

   See *Starting and Shutting Down the Trendsetter UHR* on page 18. If the power does not start properly, contact your 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 service representative.

A

Part Numbers

Parts List 76

Parts List

Description	Creo Part Number
Compressed air supply filter kit	332-00003
Intake air filter: 24 in. x 12 in. x 2 in.	55-0700
Filter bowl/guard	55-1216
Particulate filter for UDRC	57-8792
Particulate filter spacer	57-8697
Kimwipes EX-L (Wipers) tissues from Kimberly Clark: 15 in. x 17 in. size	Creo does not sell this product.

B

Labels

Overview 78
Identification and Certification Labels....79
Laser Safety Labels 83
General Safety Labels....86

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 80
Class 1 Laser Product label	page 80
CDRH Certification label	page 81
CE label	page 81
CSA label	page 81
FCC Certification label	page 82
C-Tick label	page 82
Exposure Head Aperture label	page 84
Moving Parts Caution/Laser Hazard Warning/ Radiation Output/Class 4 Laser Product label	page 84
Non-Interlocked Panel Danger label	page 85
Door Interlock Danger label	page 86
High Leakage Current label	page 86
Safety Interlock Override Label	page 87
Hazardous Voltage label	page 87
Hot Surface Caution label	page 88
Keep Hands Out Warning label	page 88
Beware of Moving Part When Interlock Defeated label	page 89
Solenoid Lock label	page 89
Fuse Replacement label	page 90
Maximum PSI/BAR label	page 90
Strong Magnetic Fields label	page 91

Identification and Certification Labels

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

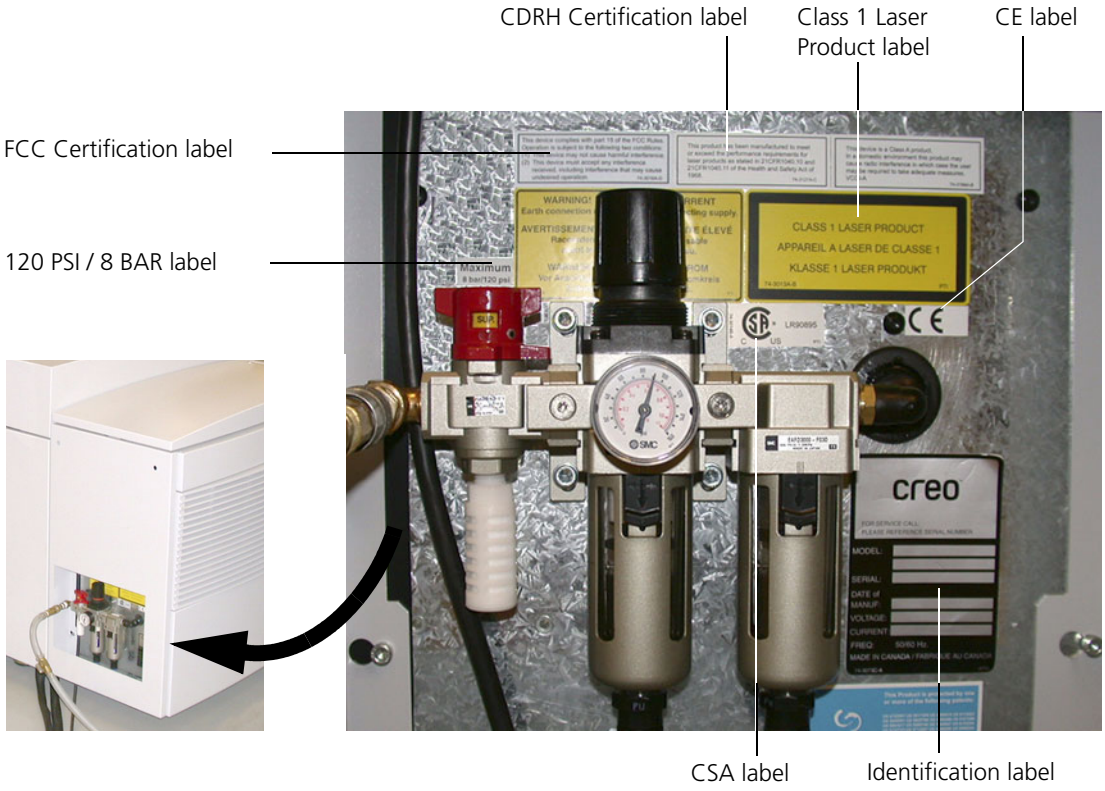


Figure 18: Identification and Certification labels

Identification Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 18 on page 79.



Figure 19: 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 18 on page 79.



Figure 20: 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 18 on page 79.

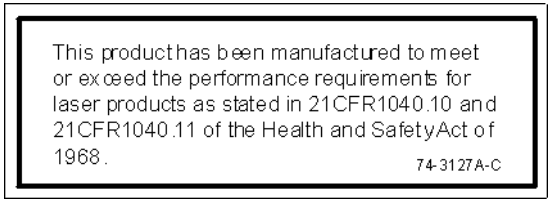


Figure 21: CDRH Certification label

CE Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 18 on page 79.



Figure 22: CE label

CSA Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 18 on page 79.



Figure 23: CSA label

FCC Certification Label

This label is located on the lower-right back panel, beside the air supply filters, as shown in Figure 18 on page 79.

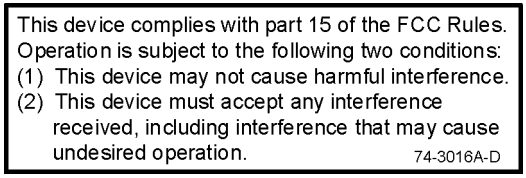


Figure 24: FCC Certification label

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 18).



Figure 25: C-Tick label

Laser Safety Labels

The laser safety labels that relate to the head are located on the thermal imaging head:

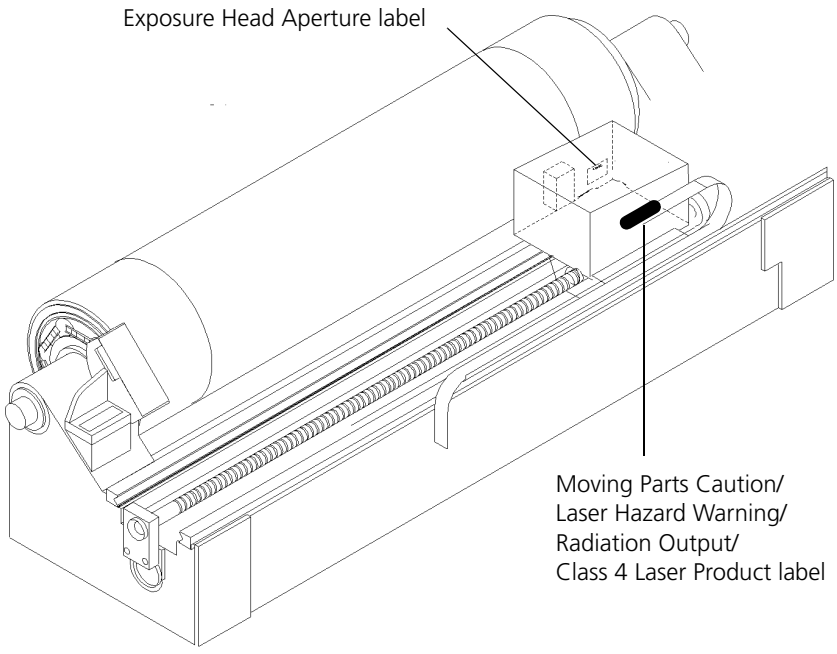


Figure 26: Exposure Head Laser Safety labels

Other laser safety labels provide safety information related to removing the access panels. Some of these access panels have safety interlock switches and some do not, and the location of the access panels varies depending on the output device. These laser saftey labels are located on the access panel in such a way that you will see them before attempting to remove the panel.

Exposure Head Aperture Label

This label is located on the front of the imaging head protective housing, adjacent to the shutter and aperture. See Figure 26 on page 83 for a diagram showing the location.



Figure 27: 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 imaging head protective housing. See Figure 26 on page 83 for a diagram showing the location.

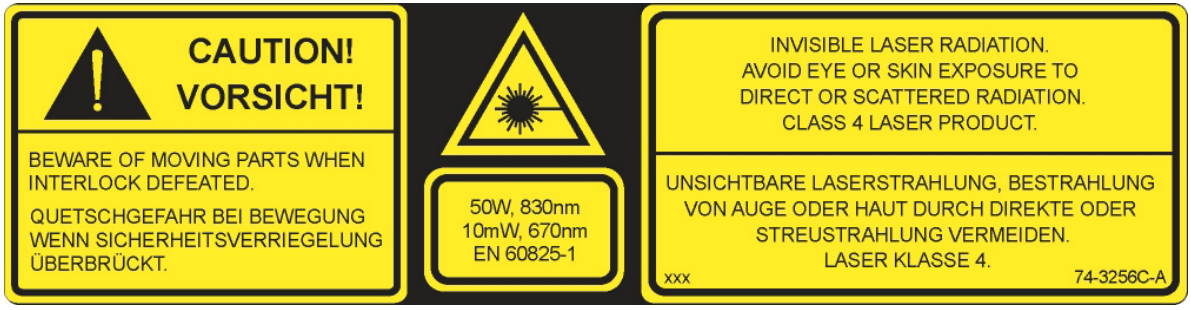


Figure 28: Moving Parts Caution/Laser Hazard Warning/Radiation Output/Class 4 Laser Product label

Non-Interlocked Panel Danger Label

DANGER: The service access panels can be removed only by a 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 29: Non-Interlocked Panel Danger label

Door Interlock Danger Label

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

DANGER: Do not tamper with the access panel interlock system (see *Interlock System* on page 6). Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.



Figure 30: Door Interlock Danger label

General Safety Labels

High Leakage Current Label

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

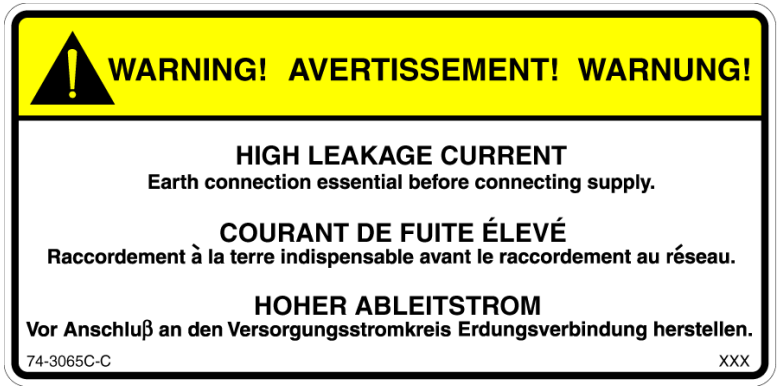


Figure 31: High Leakage Current label

Safety Interlock Override Label

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

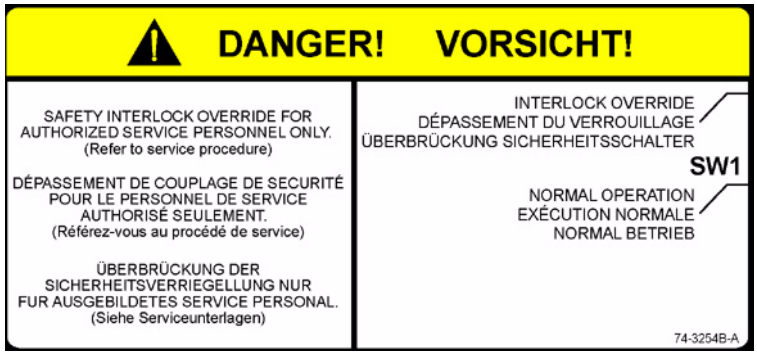


Figure 32: Safety Interlock Override label

Hazardous Voltage Label



DANGER: The service key switch is for use only by a service representative. Unauthorized use can expose you to serious danger from high-powered laser radiation, moving mechanical parts, and/or electrical shock, which could result in death or serious injury.

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

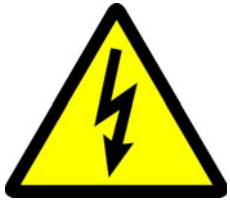


Figure 33: Hazardous Voltage label



DANGER: The junction box service access cover can be removed only by a 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 or serious injury.

Hot Surface Caution Label

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



Figure 34: Hot Surface Caution label

Keep Hands Out Warning Label

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



Figure 35: 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 36: Beware of Moving Part When Interlock Defeated label

Solenoid Lock Label

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

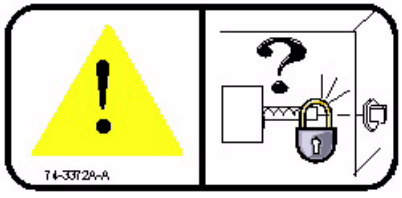


Figure 37: Solenoid Lock label

Fuse Replacement Label

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

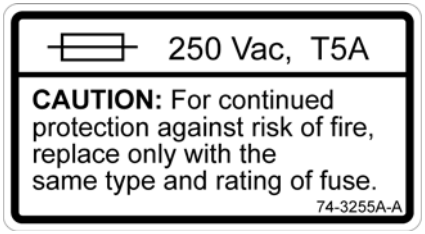


Figure 38: Fuse Replacement label

Maximum PSI/BAR Label

This label is located near the compressed air inlet connector.

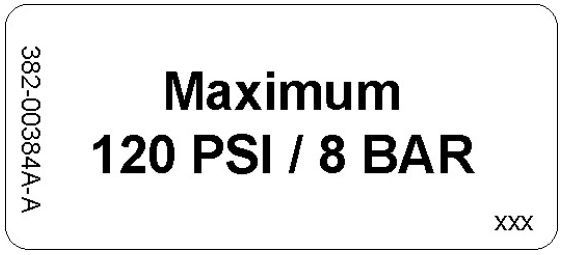


Figure 39: Maximum PSI/BAR label

Strong Magnetic Fields Label

This label appears on all the clamps as a reminder to keep magnetic data—floppy disks, magnetic stripe cards, watches, and so forth—away from the powerful magnetic clamps. When handling the magnetic clamps, do not bring opposite poles near each other. Keep hands and fingers from between opposite magnetic poles.

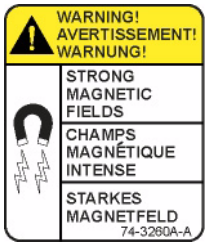


Figure 40: Strong Magnetic Fields label

CAUTION: 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.

C

Regulatory Compliance

Regulatory Approval Model Designation.....94
Electrical and Mechanical Safety.....94
Laser Safety 95
EMI/EMC Compliance 96
Noise Emissions.....96

Regulatory Approval Model Designation

TSM is the regulatory approval model designation for the Trendsetter UHR. The regulatory approval model designation name appears on the Identification label (see *Identification Label* on page 80) and all regulatory approval documents.

Electrical and Mechanical Safety

The Trendsetter UHR 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 *CSA Label* on page 81 and *CE Label* on page 81 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 41: EC Declaration of Conformity

Laser Safety

The Trendsetter UHR 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 *Class 1 Laser Product Label* on page 80 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 UHR 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 *FCC Certification Label* on page 82 for an example of this label.

The Trendsetter UHR 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 UHR 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 UHR will not exceed 69 dB(A) at one meter in a free field.

Glossary

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 must resolve the problem before you can continue with regular operations.
exposure head	See *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.
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	Using infrared (IR) thermal energy, the head "burns" or transfers images onto IR-sensitive media.
load ramp	The angled sheet of glass on top of the output device. A single plate or 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.
native application file	A file for a job that was created using a page layout application, such as QuarkXPress® software.
PDF	Portable Document Format. PDF, developed by Adobe® Systems Incorporated, 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 UHR produces one exposed plate per image. See also *media*.

plate processor	Equipment that can be used with the Trendsetter UHR to develop plates. Also called a developer.
output device	A platesetter, proofsetter, or filmsetter that is part of a Creo imaging system.
page setup	In workstation software, a collection of specifications for a page, including resolution and orientation.
particulate filter	Contains a porous material that traps the particulate debris released during imaging.
PostScript	A page description language developed by Adobe Systems Inc. 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.
Print Console	Device control software that delivers files to the output device for imaging. Print Console creates a rasterized image of a PostScript file—a PostScript 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.
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.
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.
throughput	The efficiency with which images are interpreted and produced.
UDRC	See *Universal Debris Removal Cabinet*.
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, filters, 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 2000 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*.

Index

Numerics

0.01-micron filter, 42
5-micron filter, 42

A

access panels. *See* panels
accessing the interior of the output device, 30
air pressure loss, 74
air supply filters. *See* filters

B

back panel, 30
Beware of Moving Parts When Interlock Defeated label, 89

C

Cancel button, 52
cautions, 2
CDRH Certification label, 81
CE label, 81, 94
circuit breaker, resetting, 18, 73
Class 1 Laser Product label, 80, 96
cleaning
  edge-detection strip, 35
  exterior of output device, 28
  interior of output device, 35
  load ramp, 29
  plate roller, 37
  recommendations, 29
compliance. *See* Regulatory Compliance
components
  output device, 11
  system, 10
compressed air supply filters. *See* filters
consumables
  filters, 14
  media, 14
  processor consumables, 14
CSA label, 81, 94
C-Tick label, 82

D

dangers, 2
debris removal, 47
Declaration of Conformity. *See* EC Declaration of Conformity
Door Interlock Danger label, 85
drum location, 37

E

EC Declaration of Conformity, 95
edge-detection strip, cleaning, 35
Eject button, 52
electrical safety, 94
Emergency Stop switch, 7
  about, 7
  resetting, 67
  safety, 7
EMI/EMC compliance, 96
environmental specifications, 13, 96
error messages
  about, 51
  list of, 55
Exposure Head Aperture label, 84

F

fan box panel
  about, 30
  closing, 34
  opening, 33
FCC
  FCC Certification label, 82, 96
  rules, 96
filters
  about, 14
  air supply filters
    0.01 micron, 42
    5 micron, 42
    frequency of replacement, 38
    inspecting, 40
    replacing, 38
  debris removal filter, replacing, 47
  intake air filter
    inspecting, 45
    replacing, 45
fire, in case of, 5
front panel
  about, 30
  closing, 32
  latches, 31
  opening, 31
Fuse Replacement label, 90

H

Hazardous Voltage label, 87
High Leakage Current label, 86
History pane, error and warning messages, 50
Hot Surface Caution label, 88
humidity, 13

I

Identification label, 80, 94
image quality problems, 73
imaged media
  removing, 22
imaging light, 13
inspecting
  air supply filters, 40
  intake air filter, 45
intake air filter. *See* filters
interior of output device, cleaning, 35
interlock system, 6, 28

K

Keep Hands Out Warning label, 88

L

labels
  Beware of Moving Parts When Interlock Defeated, 89
  CDRH Certification, 81
  CE, 81, 94
  Class 1 Laser Product, 80, 96
  CSA, 81, 94
  C-Tick, 82
  Door Interlock Danger, 85
  Exposure Head Aperture, 84

FCC Certification, 82
Fuse Replacement, 90
Hazardous Voltage, 87
High Leakage Current, 86
Hot Surface Caution, 88
Identification, 80, 94
Keep Hands Out Warning, 88
Moving Parts Caution/Laser Hazard Warning/Radiation Output/Class 4 Laser Product, 84
Non-Interlocked Panel Danger, 85
Safety Interlock Override, 87
Solenoid Lock, 89
Strong Magnetic Fields, 68
laser safety, 6, 95
laser safety labels, 83
latches, front panel, 31
leading-edge actuator, 88
leading-edge clamps, 69, 71
Leave On button, 52
list of parts, 76
load light, 13
load ramp
cleaning, 29
described, 11
media registration, 22
loading media, 19

M

maintenance
cleaning recommendations, 29
debris removal filter, 47
edge-detection strip, 35
exterior of output device, 28
intake air filter, 45
interior of output device, 35
load ramp, 29
plate roller, 37
replacing 0.01-micron filter, 42
replacing 5-micron filter, 42
schedule, 26
stain removal, 29
maintenance supplies, 14
mechanical safety, 94
media
about, 14
loading, 19
registration, 22
removing, 22
stuck on drum, 68
supported, 14
media alignment labels, 11, 21, 22
Media Removed button, 52
media sizes supported, 16
messages, 51
Messages pane in Print Console, 50
Moving Parts Caution/Laser Hazard Warning/Radiation Output/Class 4 Laser Product label, 84

N

noise emissions, 96
Non-Interlocked Panel Danger label, 85

O

opening
fan box panel, 33
front panel, 31
power box panel, 34
top panel, 31
operator interface, 12
imaging light, 13
load light, 13
operator recoverable errors, 50
output device
accessing interior, 30
cleaning exteriors, 28
errors, 50
maintenance, 26
resetting, 67
shutting down, 18
starting, 18
warmup time, 18

P

panels
back panel, 30
fan box panel, 30, 33
front panel, 30, 31
power box panel, 30, 34
top panel, 30
part number
intake air filter, 76
plate bending and punching, 23
plate roller, cleaning, 37
power box panel
about, 30
closing, 35
opening, 34
power failures, recovery from, 73
power switch, 7, 18
Print Console
History pane, 50
Loading Media message, 19
Messages pane, 50
starting and quitting, 18
submitting files, 19

R

registration pins, 21, 22
regulatory approval model, 94
regulatory compliance
electrical safety, 94
EMI/EMC, 96
laser safety, 95
mechanical safety, 94
noise emissions, 96
Release button, 52
removing
fan box panel, 33
imaged media, 22
power box panel, 34
stains, 29
stuck media, 68
replacement parts, 76
replacing
air supply filters, 38
debris removal filter, 47
fan box panel, 34
intake air filter, 45
power box panel, 35
repositioning trailing-edge clamps, 70
resetting
Emergency Stop switch, 67
output device, 67
tripped circuit breakers, 73
Resume button, 52

S

safety
during installation, 3
during maintenance, 3, 28
during operation, 3
electrical, 94
general information, 2
laser, 6, 95
mechanical, 94
safety features, 6
safety information
Emergency Stop switch, 7
Safety Interlock Override label, 87
schedule, maintenance, 26
shutting down the output device, 18
Solenoid Lock label, 89
stains, removing, 29
Start button, 12
starting the output device, 18
status of the output device, 12
Strong Magnetic Fields label, 68
stuck media, removing, 68
suspend conditions
about, 51
options, 52
recovery from, 52
suspend operations, 50
switches
Emergency Stop, 7
power, 7, 18

T

temperature, 13
thermal plates, supported media, 14
top panel
about, 30
closing, 32
opening, 31
trailing-edge clamps
park position, 68
repositioning, 70, 71
Trendsetter UHR, system description, 10
TSM, 94
turning off the output device, 18
turning on the output device, 18

W

warmup time, 18
warnings, 2
workstation software. *See* Print Console

www.creo.com | creo™