

ThermoFlex Wide I

Operator Guide

English

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1

Safety

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This chapter describes important safety information that you should know before you operate the Kodak ThermoFlex® Wide I output device.

Who Should Use This Guide

This guide is intended for anyone who operates or maintains a ThermoFlex Wide I output device.

To use this guide, you should:

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

This guide assumes that:

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

Dangers, Warnings, and Cautions

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



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



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



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

Important Notes on Safe Operation



WARNING: Before using the ThermoFlex Wide I, you MUST read this manual and understand it.

When using the ThermoFlex Wide I, you MUST follow ALL of the safety precautions and recommended procedures. This manual must be accessible to anyone who operates the ThermoFlex Wide I.

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.

Safety Information

Instructions and warnings relating to the safe operation of the ThermoFlex Wide I are provided throughout this guide. Strict adherence to the following instructions is critical to the safe operation of the output device:



DANGER: Do not tamper with the access panel interlock system (see *Interlock System* on page 5). Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.



DANGER: When opening panels, keep hands away from moving parts until the rotating drum comes to a complete stop (see *Interlock System* on page 5). Mechanical hazards associated with the output device can result in serious injury and/or damage to your output device.



DANGER: Do not perform unauthorized repairs or make modifications (see *Maintenance* on page 4). Unauthorized panel removal, repairs, or changes made to the output device can expose you to serious danger from high-powered laser radiation, moving mechanical parts, and/or electrical shock, which will result in death or serious injury.



DANGER: Open access panels only when necessary (see *Interlock System* on page 5 and *Accessing the Interior of the Output Device* on page 37). Failure to follow the safety recommendations and procedures in this guide regarding opening, removal, and replacement of output device access panels can result in serious injury to you and/or damage to your equipment. Opening access panels is unavoidable, but should be kept to a minimum to reduce the accumulation of dust in and around sensitive components.



WARNING: Use only qualified media (see *Media* on page 17). Using unqualified media may expose you to noxious gaseous emissions in excess of applicable regulatory limits. This may result in possible discomfort, illness, injury, and/or disability.



WARNING: Do not let water or other liquids run freely into the output device (see *Cleaning Exterior Surfaces* on page 36). This can result in serious injury from electrical shock as well as damage to your output device.



WARNING: Do not use chemical solvents or aggressive cleaning solutions for cleaning the compressed air supply filter bowls (see *Compressed Air Supply Filters* on page 48). This can cause cracking or crazing on the plastic parts. When these plastic parts are exposed to high air pressure, there is the possibility of the parts exploding and causing serious injury and/or damage to the output device.



WARNING: Turn off the air supply when working on the air supply filters (see *Compressed Air Supply Filters* on page 48). Failure to turn off the compressed air supply system before replacing a compressed air supply filter can result in serious injury and/or damage to your output device.

In Case of Fire

If there is a fire in the output device, immediately disconnect the output device from the wall outlet (see *Turning Off the ThermoFlex Wide I System* on page 23).

Installation

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

Maintenance

You should perform only the maintenance procedures that are described in *Chapter 4, Maintenance.* If you perform any other maintenance procedures or remove panels or other housing parts for any reason, you may be injured. Other maintenance and all service work should be performed only by an authorized service representative



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

Safety Features

Interlock System

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

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

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

- Halt all mechanical activity
- Remove power from the laser



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

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

1. Turn off the output device.
2. Close or replace the access panel.
3. Contact your authorized service representative as soon as possible.



DANGER: Do NOT touch or attempt to stop moving mechanical parts, such as the rotating drum, inside the output device. This will result in death or serious injury.

Stopping the Output Device

There are two types of switches for stopping the output device:

- 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.
- The power switch disconnects power to the output device.

Emergency Stop Switch

The Emergency Stop switch suspends all output device operations when it is pressed. Use this switch to turn off the power in an emergency situation. It is located at either end of the drum. They are concealed by the flash cover during imaging.

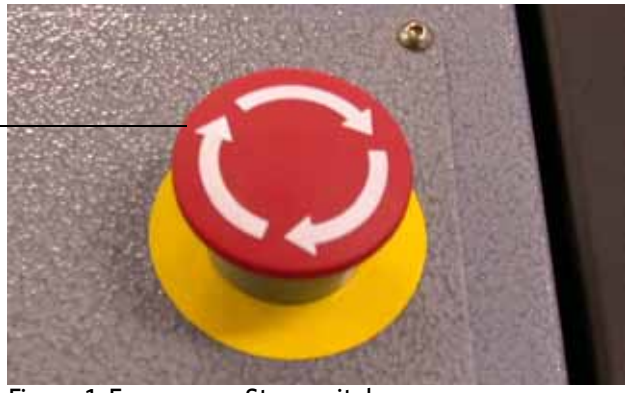


Figure 1: Emergency Stop switch

If you accidentally press this switch, you must reset it before the output device can return to normal operations. See *Removing Stuck Media From the Output Device* on page 76.

If you have questions about using the Emergency Stop switch, write down the serial number of your output device, and contact your authorized service representative. You can find the serial number on the Identification label which is located inside the *left side access panel* (see Appendix B, *Labels*).

Power Switch

The Power switch is located on the *rear of the output device on the power box panel*. When you are instructed to turn off the output device for a maintenance procedure, use this switch to turn off the power. See *Turning Off the ThermoFlex Wide I System* on page 23.

In case of extreme emergency only, when the Emergency Stop switch is not accessible, turn the power switch to the **Off** position.

2

System Overview

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This chapter provides an overview of your ThermoFlex Wide I output device. It describes the system, its components, the maintenance supplies, and the media.

ThermoFlex Wide I System

ThermoFlex Wide I is a high-speed computer-to-media device developed and manufactured by Kodak. It is compatible with prepress and flexographic platemaking environments.

The output device is a semiautomatic, platemaking device. It receives raster data from the workstation for imaging onto a medium that is loaded onto the imaging drum from the table. After imaging, the medium is unloaded from the drum back onto the table. Medium loading and unloading are operator-assisted procedures.

System Components

Depending on your configuration, your ThermoFlex Wide I system may consist of some or all of the following components:

- Output device
- Drum vacuum pump system
- Chiller
- Universal Debris Removal Cabinet (UDRC)
- Workstation
- TIFF Front End software
- Kodak Print Console software

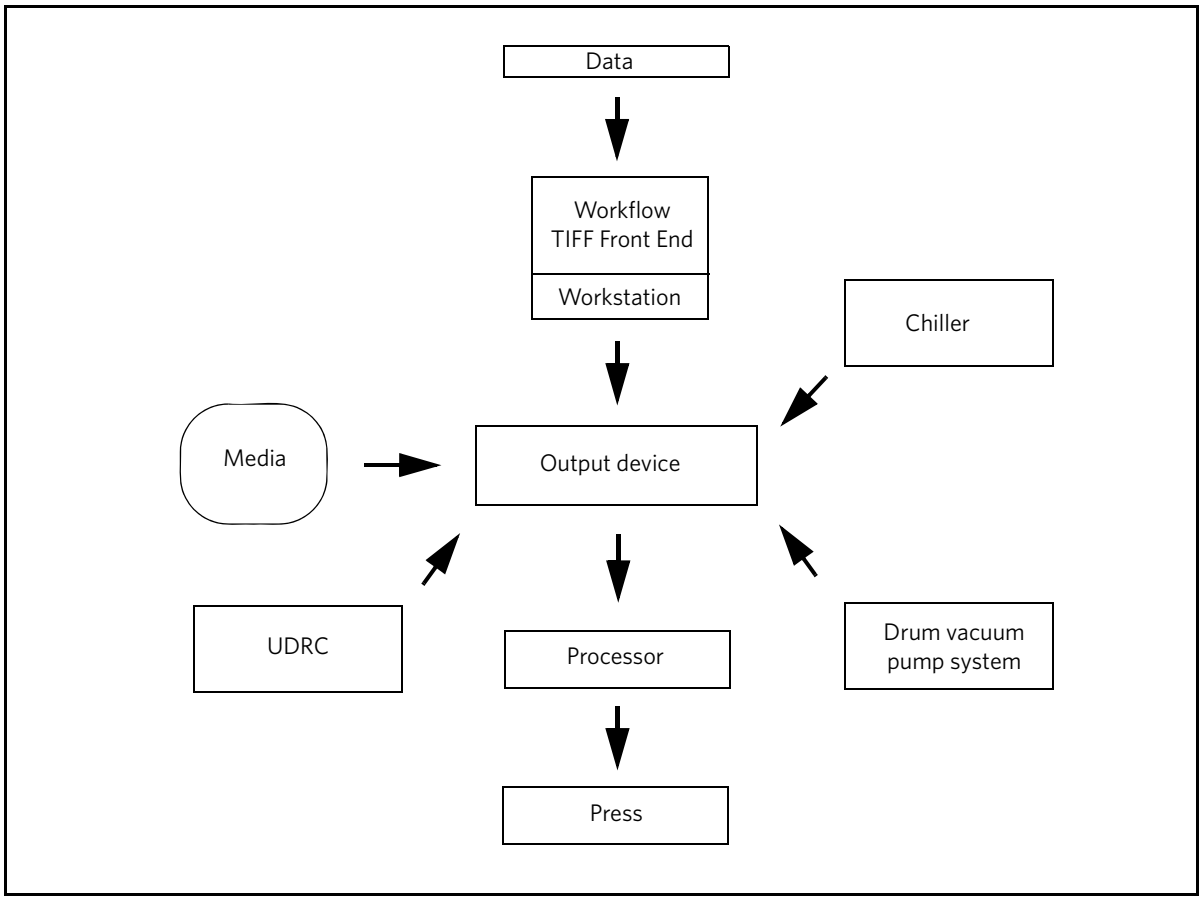


Figure 2: ThermoFlex Wide I components

This guide contains information about the ThermoFlex Wide I output device. For all other documentation, see:

- *Print Console Quick Start Guide* and the Print Console online help
- TIFF Front End online help
- Workstation user guide
- *Chiller Operator Manual*
- *Universal Debris Removal Cabinet Operator Guide*

Output Device

This section shows the parts of the ThermoFlex Wide I output device.



Figure 3: Front view of output device

CAUTION: Do not open the output device more often than is absolutely necessary. Opening access panels is unavoidable but should be kept to a minimum to reduce the accumulation of dust in and around sensitive components.

Operator Interface

The operator interface, located at the right-front of the output device, includes:

- Buttons for operating the output device
- Control indicator lights

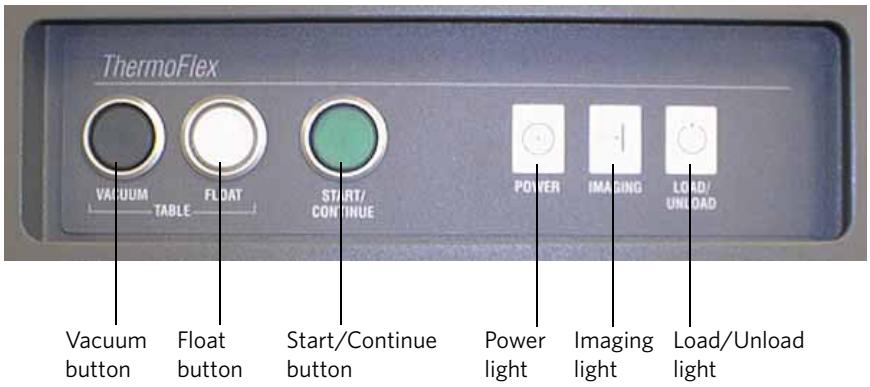


Figure 4: Operator interface

Vacuum Button

The Vacuum button creates a vacuum on the load/unload table that makes it easier to work with media. When the table vacuum is on and the plate is held in place on the table, it is easier to remove the cover sheet.

Press this button to turn on the table vacuum.

Float Button

The Float button creates an air-flow on the load/unload table that makes it easier to slide the media around on the table.

Press this button to turn on the table float.

Table Buttons

The table buttons refer to the Vacuum button and Float button as a set. Two sets of table buttons are found on either side of the table at the rear of the output device. Together with the operator interface table buttons, you can easily perform the vacuum and float functions from anywhere around the output device.

Any of the three sets of table buttons can be used. You can turn the buttons on and off separately or switch between modes by pressing the opposite button. For example, if the Float button is on and you press the Vacuum button, the Float button is turned off automatically and the Vacuum button goes on. These buttons are always active and can be used during imaging.



Figure 5: Location of set of table buttons—side of table

Start/Continue Button

The Start/Continue button starts and continues media loading and imaging.

Press this button three times during a loading cycle and once during an unload cycle.

Control Indicator Lights

When a light on the operator interface flashes, the output device is performing a task or is ready to perform a task. When a light glows a solid color, the interface conveys only the status of the output device.

Table 1: Control indicator lights

Type of light	State	What it means	Operator action required
Power light	Glowing solid green	The output device is idle.	No operator action required.
Load light	Glowing solid green	▪ A file has been sent to the output device for imaging. ▪ The output device is ready to accept media for imaging.	Load media. The light stays on through the entire imaging process—from the time the job is approved until the final media is unloaded.
	Flashing green	The output device is waiting for an operator to unload media	Unload media.
Imaging light	Flashing green	▪ The output device is imaging media. ▪ The output device cannot accept another media for imaging.	No operator action required. The imaging light flashes only to show that imaging is in progress.
Error lights	Power light, Load light, and Imaging light all flash green	An error has occurred and the job is suspended.	Follow the instructions that appear in Print Console. When the error is resolved, the error lights stops flashing. For more information, see *Operator Recoverable Errors* on page 60.

Inspect/Clean Button

This button is located under the flash cover on the right side. It is only accessible when the flash cover is open.

Use this button to:

- Rotate the drum to inspect a loaded media for air pockets or dust bumps before imaging.
- Inspect and clean the drum when it is not imaging media.



Figure 6: Inspect/Clean button

Load/Unload Table

The load/unload table has two primary purposes:

- Loading and unloading media
- Starting the imaging process

This guide refers to the load/unload table as the load table when the process involves only loading and as the unload table when the process involves only unloading.

External System Components

The ThermoFlex Wide I system includes the following components in addition to the output device and workstation.

Drum Vacuum Pump System

The drum vacuum pump system consists of two components that are external to the output device:

- The drum vacuum drive panel controls the operation of the drum vacuum pump. It is wall-mounted near the output device. The drum vacuum pump drive panel is connected to the output device by a control signal cable and to the drum vacuum pump enclosure by a water-tight cable conduit.
- The drum vacuum pump enclosure contains the drum vacuum pump, a ventilation fan, and acoustic baffling. The drum vacuum pump enclosure should be located away from the room containing the output device, because it generates a significant amount of heat. The drum vacuum pump enclosure is connected to the output device by a 51 mm (2") diameter vacuum hose.

For more information, see the *Drum Vacuum Pump Operator Manual*.

Chiller

The chiller is attached to the output device and is used to maintain a constant temperature within the thermal head. The chiller is connected to the output device by two coolant hoses and a control serial cable from the Universal Debris Removal Cabinet. The chiller operation is controlled by the output device.

For more information, see the *Chiller Operator Manual*.



Figure 7: Chiller

Universal Debris Removal Cabinet

The Universal Debris Removal Cabinet (UDRC) is an external device that extracts and filters airborne emissions that are released when imaging certain types of printing media. The UDRC houses the debris filters in the filter compartment. The cabinet is connected to the output device by a vacuum hose and a data cable.

For more information, see the *Universal Debris Removal Cabinet Operator Guide* (Kodak document number 731-00103).



Figure 8: UDRC

Environmental Specifications

The ThermoFlex Wide I should be installed in a clean prepress area (in accordance with *ThermoFlex Sleeve Output Device Site Preparations and Requirements*, Kodak document number 73-3186).

The ThermoFlex Wide I output device requires the following operating conditions:

- Temperature: 17° C–25° C (63° F–77° F)
- Relative humidity: 30%–70% RH, non-condensing[1]
- Prepress platemaking environment

Flexograhic media is very sensitive to humidity change. All media must be imaged at the same humidity value within the specified range.

For information on noise emissions in an office environment, see *Noise Emissions* on page 98.

Required Operating Conditions

The ThermoFlex Wide I output device uses a thermal imaging head and does not require a darkroom.

Maintenance Supplies

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

Your output device requires the following maintenance supplies:

Table 2: Maintenance supplies from Kodak

Item	Description
Debris filters	The ThermoFlex Wide I is equipped with a debris removal system. See *Replacing the Universal Debris Removal Cabinet Filters* on page 57.
Intake air filter	Filters that are used in the output device to maintain the air quality. See *Intake Air Filters* on page 55.
Air supply filter kit	This kit contains the particulate and coalescing filters for the compressed air supply. See *Compressed Air Supply Filters* on page 48.

Table 3: Maintenance supplies from other suppliers

Item	Description
Media	Flexographic plates and film. See *Media* on page 17.
Tape	Tape is used to mount media onto the drum before imaging. Two recommended plastic tape products are Scotch brand 3M™ #471 and tesa 60760. Other alternatives can only be used with Kodak's approval. The *ThermoFlex Media Tape Specifications* Technical Bulletin (Kodak document #719-00301A) outlines what criteria the tape must meet.

Media

Use only media qualified by Kodak for use in your output device. For the most current information on supported media, contact your authorized service representative.

On installation, the output device is configured with the media sizes that you will use. The imaging parameters for all qualified media are preset and cannot be changed. However, you can modify the media sizes in Print Console. For more information, see the Print Console online help.

Supported Media

The ThermoFlex Wide I supports the following media:

Table 4: Media supported

Media type	Type of media
BASF Digiflex™	Thermal laser-ablative mask photopolymer plates
Dupont Digital Cyrel®	Thermal laser-ablative mask photopolymer plates
Kodak DITF	Thermal laser-ablative film
MacDermid (Polyfibron) Flex-Light® CBU Digital EPIC	Thermal laser-ablative mask photopolymer plates
PCI LaserPoint	Thermal laser-ablative film



WARNING: Imaging unqualified media may result in the release of unknown airborne emissions that are not properly filtered and may result in exposure to airborne emissions in excess of obligatory regulatory limits and in possible discomfort, illness, injury, and/or disability.



CAUTION: Do NOT use non-approved or light-sensitive media in a ThermoFlex Wide I output device equipped with a thermal imaging head. Failure to use approved thermal media can seriously damage the output device.

Multiple Media Sizes

The ThermoFlex Wide I supports the following media sizes.

Table 5: Media sizes supported

ThermoFlex model	Maximum media size supported	Minimum media size supported
5067F/V	1270 mm x 1702 mm 50" x 67"	254 mm x 203.2 mm 10" x 8"
5280F/V	1321 mm x 2032 mm 52" x 80"	254 mm x 203.2 mm 10" x 8"
3648F/V	914 mm x 1219 mm 36" x 48"	254 mm x 203.2 mm 10" x 8"

We recommend that the media size around the drum be given in inches and in even numbers. The media thicknesses allowed are 0.1 mm - 5.5 mm (0.004" - 0.185").

Note: For media that is 0.217in thick, the media must be taped all around and not only on the leading and trailing edges.

Media Orientation

You can load media in landscape or portrait orientation. To properly configure your output media in the TIFF Front End software, you should understand the dimensions of the medium as it is imaged in the output device. See Figure 9 for a graphic illustration of this concept.

Media Dimensions

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

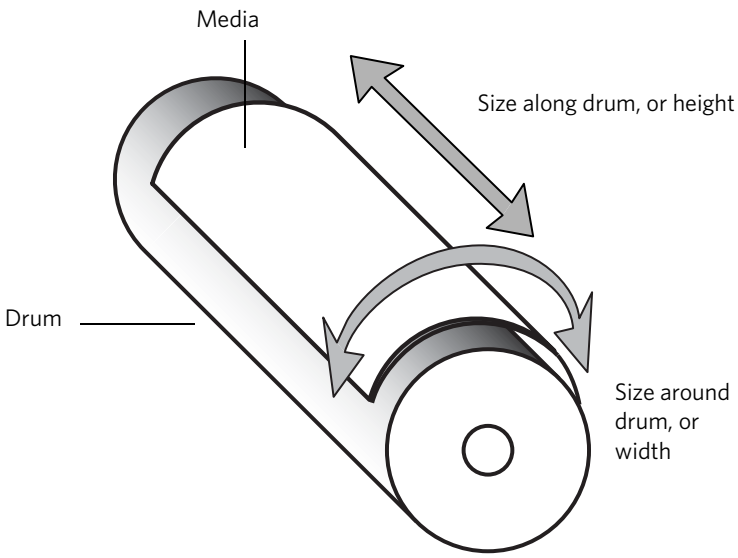


Figure 9: Media dimensions—landscape orientation

CAUTION: The output device measures the length of the media around the drum during loading. However, the device does not measure the size of the media along the drum. If you load media of the incorrect size along the drum (as specified in the output media setup), but the correct size around the drum, the output device will attempt to image the media. The danger of this is that the drum balancing system will not correctly balance the drum for this incorrect size. Continuing to image with the drum not adequately balanced can cause significant damage to the output device.

3

Regular Operations

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This chapter describes the standard procedures for operating your ThermoFlex Wide I output device.

Turning On the ThermoFlex Wide I System

Warmup Time

The ThermoFlex Wide I output device can take two to three minutes to warm up after it is turned on. You cannot image media while the output device is warming up. Files submitted to be imaged wait on the workstation until the output device is ready.

When the green Power light on the output device interface is lit, initialization is complete and the output device is ready to start imaging.

To turn on the output device:

1. Ensure that the drum vacuum pump system power is turned on.

   See the *Drum Vacuum Pump System Operator Manual*.

2. Turn on the output device by pressing the power switch.

   The power switch is located on the lower left side of the output device, near the floor.

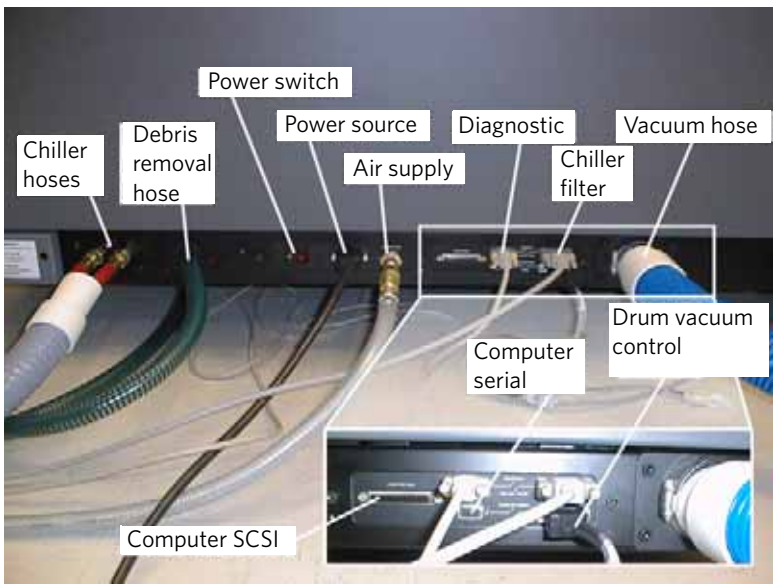


Figure 10: Power switch

3. Ensure that the workstation is turned on.

   For information on turning the workstation on or off, see your workstation documentation.

4. Start Print Console.

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

   When the output device is ready, the Power light on the operator interface glows a solid green color.

Turning Off the ThermoFlex Wide I System

You normally leave the workstation running at all times.

For information about quitting Print Console, see the *Print Console Quick Start Guide* or the Print Console online help. For information about shutting down your workstation, see your workstation documentation.

Note: Before you turn off the output device, remove all media from the drum.

To turn off the output device:

1. Turn off the output device by pressing the power switch.

   The power switch is located on the left side of the output device, near the floor.

2. Turn the drum vacuum pump system power switch to the Off position.

   This is an optional step; you can leave the power on.

Loading and Imaging Media

Media (such as plates or film) are manually loaded one at a time onto the load table.

For the media sizes you can use with the ThermoFlex Wide I, see *Media* on page 17.



CAUTION: Failure to use approved thermal media can seriously damage the output device. Do not use non-approved or light-sensitive media in a ThermoFlex Wide I equipped with a thermal imaging head.

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:

   - Print Console displays the Load Plate dialog box showing the type and size of media to load.
   - The status indicator light glows a solid blue.

3. Locate the correct type and size of media to load.
4. Remove the media from its packaging and discard any slip sheets or packaging material that may be attached.

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

5. When prompted, open the flash cover.



Figure 11: Open the Flash Cover

If the leading-edge registration bar is not visible on the top of the drum, the Use drum control buttons to move the drum to the leading edge tape position message appears in Print Console.

6. Use the drum control buttons to move the drum so that the leading-edge registration bar is visible on the top of the drum.
7. Place the media on the drum against the home-edge registration bar and the leading-edge registration bar. Mark where the away side of the media ends on the drum.

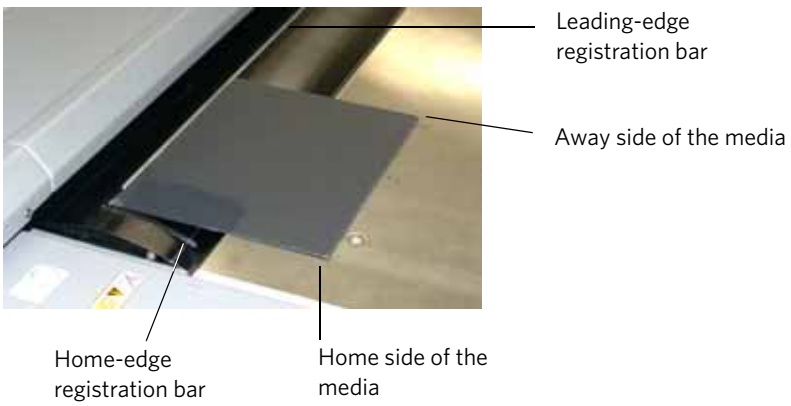


Figure 12: Leading-edge, home-edge, away side, and home side

8. Remove the media and roll a piece of tape around the drum where the away side of the media ends.

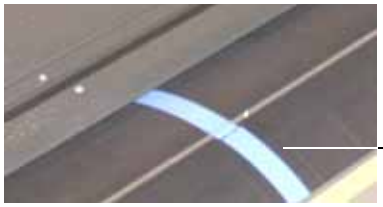


Figure 13: Tape around the drum

This procedure is called side taping—the side tape forms a seal for the drum vacuum. The tape should be a minimum 25 mm (1") longer than the length of the media. Position the tape so that 12.5 mm (0.5") will lie underneath the media and the other 12.5 mm (0.5") will lie exposed on the drum.

Note: If the media being loaded is smaller than or the same size as the previous job, you can leave the previous side tape on the drum. If the media being loaded is larger than the previous media loaded, you must remove the tape from the drum by turning the drum with the inspect button.

a. Place the beginning of the tape on the drum against the leading-edge registration bar at the spot that marks the away position of the media.

b. While holding the roll of tape, use the inspect button to roll the drum forward. Release the button when the tape is wrapped around the drum.

c. Cut and attach the tape to the drum. If the tape overlaps the leading-edge registration bar, ensure that it is tightly attached around the bar. Rub the tape flat to make a good seal.

9. Push the drum control button to roll the drum backward to rotate the drum to the load position.

   The drum is in the load position when the leading-edge registration bar is at the top of the drum.

10. Position the media on the load table.

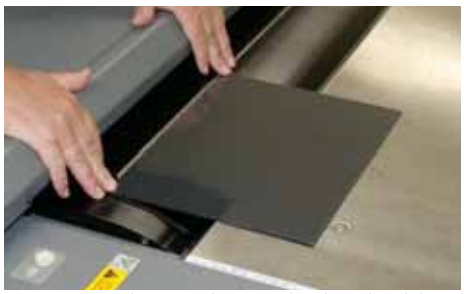


Figure 14: Position the media on the load table

11. Remove the media cover sheet.

    For large pieces of media, pull the cover sheet off the media from left to right.



Figure 15: Remove the media cover sheet

12. Place the media on the drum against the home-edge registration bar and the leading-edge registration bar.
See Figure 12 on page 24.

13. Press the Drum Vac button. (The Drum Vac button should be flashing to show that it is available.)

    This creates a vacuum between the drum and media. The vacuum holds the media against the drum.

14. Tape down the leading-edge of the media.

    Ensure that 12.5 mm (0.5") of the tape is on the surface of the media and 12.5 mm (0.5") is exposed on the drum (see Figure 17).



Figure 16: Tape down the leading-edge of the media

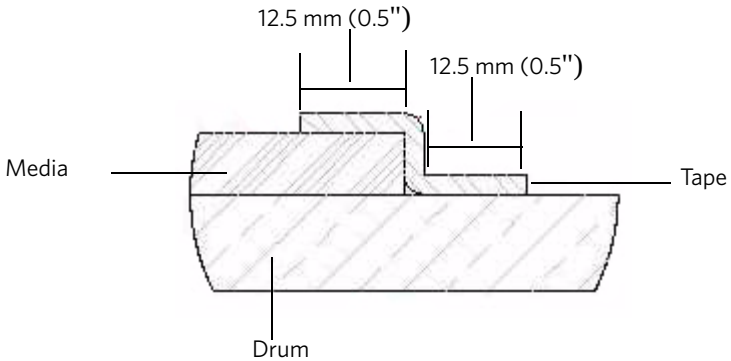


Figure 17: Taping media to the drum

Note: For plates thicker than 3.18 mm (0.125"), use tape that is 38 mm (1.5") wide for the leading-edge and trailing-edge. Ensure that 12.5 mm (0.5") of the tape is on the surface of the media and 25 mm (1.0") is exposed on the drum.

15. When the Drum Vac button glows solid green, press the bottom of two drum control buttons to roll the drum and media backward.
16. When the drum automatically stops with the trailing-edge showing, release the buttons.
17. Tape down the trailing-edge of the media as described in step 15.

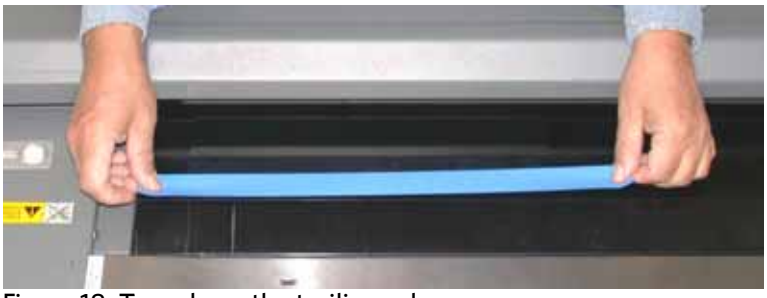


Figure 18: Tape down the trailing-edge

If the media is 3.18 mm (0.125") or thicker, you must tape down the four corners of the media:

a. Place a 127 mm (5") strip of tape on the corner where the home side and trailing-edge meet (tape along the home side).

   Ensure that the tape is applied in the same manner as specified for the leading-edge taping in step 15.

b. Rub the tape flat to make a good seal, especially around the corner.
c. Place another 127 mm (5") strip of tape on the corner where the away side and trailing-edge meet (tape along the away side).
d. Press the top of two drum control buttons to roll the drum and media forward until the leading-edge registration bar is at the top of the drum.
e. Tape both corners of the leading-edge (tape along both the home and away sides).

18. Conduct a media inspection.

    See *Inspecting Loaded Media*.

19. Close the load table.

    The imaging process starts automatically.

Tape

The recommended brand is Scotch tape—3M 471 and TESA 60760 plastic tape. This tape has been qualified for its high adhesion quality, low residue quality, and resistance to combustion from the laser.



CAUTION: Use of other types of tape could damage the output device and/or cause a fire.

Inspecting Loaded Media

The ThermoFlex Wide I allows you to inspect the loaded media.

Prior to closing the load/unload table, you must check the loaded media for:

- Quality of media mount
- Any bumps caused by debris under the media
- Vacuum leakage

If you find any problems, you can unload and reload the media without canceling the job.

To inspect a loaded media:

1. Rotate the drum to expose part of the loaded media by pressing one of the Inspect/Clean buttons.
2. Check the media using raking light (reflected low angle light).

   Very small bumps and ripples indicate good vacuum drawdown and do not cause image artifacts. Large bumps are caused by dust and debris trapped between the media and the drum and will cause image artifacts.

   There should not be any audible leakage from the home side of the media and the tape on the away side should appear flush with the drum with no wrinkles. Some leakage flow will occur on the away side because of the vacuum grooves.
3. To inspect the next section of the loaded media, press the Inspect/Clean button to rotate the drum.

   Repeat as required until you've inspected the entire media.

If the inspection shows no problems:

➢ Close the load/unload table to begin imaging the media.

If the inspection shows problems:

You can do one of two things:

1. Cancel the job and unload the media.

   Follow steps 3-10 in *Unloading Media* on page 30.

2. Reload a new media and resubmit the job.

   Or:

➢ Partially unload the media to correct the problems.

   a. Remove the trailing-edge of the media from the drum, and roll the media forward onto the load/unload table.

      Do not remove the tape from the media as this may remove the ablative mask, reducing the tape's adhesive properties.

Important: Do not remove the tape from the leading-edge. If you do, you must cancel the job.

   b. Lift the media to remove the debris.

      If you roll the media forward onto the load table and the leading-edge returns to its original position, Print Console will display a message requesting that you either cancel the job or resume.

   c. Click the **Resume** button.

   d. Re-attach the trailing-edge tape (to the sides and corners, if required).

Unloading Media

When the Unload dialog box appears in Print Console, you can remove the imaged media from the output device.

To unload a media after imaging:

1. Ensure that the output device has finished imaging.

   When imaging is finished:

   - Print Console displays the Unload dialog box.
   - The Load/Unload light flashes green.
   - An audible alarm sounds.

2. Pull the flash cover completely open (away from the table).

   The trailing edge of the media will be directly below the flash cover.

3. If side taping was used, remove these one at a time using the Inspect/Clean buttons to rotate the drum.
4. Remove the pieces of tape from the trailing edge corners and the length of tape along the trailing edge of the media.
5. Lift the trailing edge of the media with your fingertips as shown in Figure 19 on page 31.

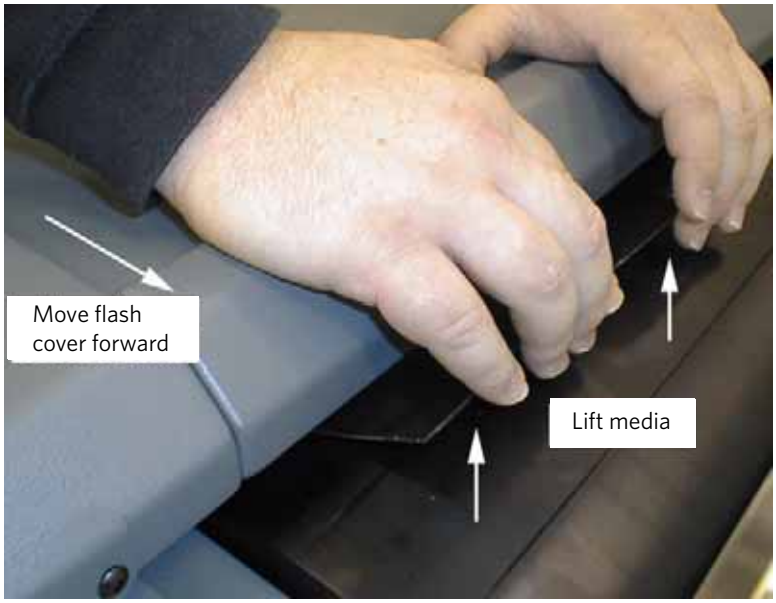


Figure 19: Lifting the trailing edge of the media

6. While holding the trailing edge of the media above the table, push the flash cover forward (about 25 mm or one inch) until the drum starts to rotate. The drum will rotate far enough for the media to be placed on the table.
7. After the drum has stopped, drop the trailing edge of the media onto the table.

   When the media covers the table media sensor, the Start/Continue button light glows solid green.
8. Press the Start/Continue button.

   The drum resumes rotating and unloads the media onto the table.
9. Remove the pieces of tape from the leading edge corners and the length of tape from the leading edge of the media.
10. Close the flash cover.
11. Transfer the media to an exposure table.

4 Maintenance

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Checking the Chiller Fluid Level 57
Replacing the Universal Debris Removal Cabinet Filters 57

This chapter describes the standard maintenance procedures that are required to keep the ThermoFlex Wide I output device operating properly.

Maintenance Schedule

The *Planned Maintenance Checklist* (Kodak document #719-00171A) describes in detail the planned maintenance schedule required to keep your ThermoFlex Wide I device in optimum operating condition.

Table 6 on page 35 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 downtime.

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

If you have a Kodak service contract, you should schedule service visits by an authorized service representative every six months. However, if your operating conditions require maintenance more frequently, we strongly recommend 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 media and turn off the output device. If you turn off the output device while it is imaging, the imaging process stops and the plot is lost.

Table 6: Schedule of recommended maintenance procedures

Frequency	Description	Action	Maintenance procedure
Daily	Drum surface	Clean	See page 47
	Table surface	Clean	See page 37
Weekly	Debris removal nozzle	Clean	See page 43
	Exterior surfaces	Clean	See page 36
	Intake air filter	Inspect	See page 55
Monthly	Compressed air filter bowls	Clean	See page 50
	Drum vacuum grooves/holes	Clean	See page 47
	Intake air filter	Replace	See page 55
Every three months	Compressed air supply filters	Replace	See page 48
Every six months	External chiller coolant	Check	See the *Chiller Operator Manual*
As needed	UDRC filters	Replace	See the *Universal Debris Removal Cabinet Operator Guide*
	TFX Head window	Inspect/replace	See page 45

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

Required Tools and Supplies

The following tools and supplies are required to perform the operator maintenance tasks:

Tools

- 3 mm hex key wrench
- #4 flathead screwdriver
- 6" adjustable wrench
- Flashlight

Supplies

- 100% pure isopropyl (denatured) alcohol
- 50% solution of isopropyl alcohol and water
- Glass cleaner
- Cotton rags
- Lint-free rags or tissues
- Long-handled cotton swabs
- Latex gloves
- Anti-static spray

Cleaning Exterior Surfaces

Clean the exterior of the ThermoFlex Wide I 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 front panel, fan box panel, fan box side panel, and the power box side panel.

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

Clean the debris removal cabinet exterior weekly. See the *Universal Debris Removal Cabinet Operator Guide* (Kodak document number 03-4200).

To clean exterior surfaces:

1. Vacuum all access panel seams to remove any accumulated dust.

   It may be sufficient to simply wipe the surfaces clean with a dry cloth if it is done frequently, and if the environment is relatively dry and free of vapors.
2. Wipe all exterior surfaces with a clean cloth dampened with water and mild detergent.

3. Thoroughly remove all soap residue with a clean, damp cloth.



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

To remove stains:

➢ Immediately wipe the stain with a cloth dampened with water and mild detergent.

If stains are persistent and do not come off with mild detergent and water, try using slight amounts of isopropyl alcohol, glass cleaner, or a mild household cleaner.



CAUTION: Avoid the regular use of chemical cleaners that contain acetone, as these could damage the exterior of the output device. Read and follow all directions provided by the acetone manufacturer. Failure to do so can result in injury to you or damage to the output device.

Cleaning the Table

Clean the load/unload table daily to keep its surface free of dust, lint, and small pieces of photopolymer.

To clean the table:

➢ Wipe the surface with a clean cloth dampened with glass cleaner or a solution of isopropyl alcohol.

Thoroughly remove all soap residue with a clean, damp cloth.

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.

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

The front panel, the fan box rear panel, and the power box side panel provide limited operator access to the interior of the output device.

- To access the drum, remove the front panel.
- To access the compressed air supply filters, open the fan box rear panel.



CAUTION: The ThermoFlex Wide I output device contains static-sensitive subassemblies. If you have to access the inside of the output device, you must wear a grounding strap. Do not touch any of the electronic subassemblies, the exposure head, or any wiring or cables without static grounding protection.

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

Removing and Replacing the Front Panel

You must open the front panel to remove a partially loaded media if it cannot be unloaded onto the table. See *Removing Stuck Media From the Output Device* on page 76.

To remove the front panel:

1. Using a flathead screwdriver, turn the latches on the access panel 180° counter-clockwise.
2. Gently tilt the panel back, and lift it off its locating pins to remove it.

To replace the front panel:

1. Position the front panel on its locating pins, and push it into its upright position.
2. Using a flathead screwdriver, turn the latches 180° clockwise.

   The panel is secured.

Removing and Replacing the Side Panels

You must remove the side panels before lifting the table.

To remove a side panel:

1. Using a flathead screwdriver, turn the latches 180° counter-clockwise.
2. Gently tilt the panel back, and lift it off its locating pins to remove it.



Figure 20: Removing the side panel

To replace a side panel:

1. Position the panel on its locating pins, and push it into its upright position.
2. Using a flathead screwdriver, turn the latches 180° clockwise.

   The panel is secured.

Removing and Replacing the Right Rear Panel

You must remove the right rear panel in order to change the air supply filters.

Note: Do not remove this panel to replace the intake filters.

To remove the right rear panel:

1. Using a flathead screwdriver, turn the latches 180° counter-clockwise.
2. Gently tilt the panel back, and lift it off its locating pins to remove it.

   See Figure 28 on page 49 for an illustration of the filters you must replace that are located behind the right rear panel.

To replace the right rear panel:

1. Position the panel on its locating pins, and push it into its upright position.
2. Using a flathead screwdriver, turn the latches 180° clockwise.

   The panel is secured.

Lifting the Table

You must lift the table in order to:

- Clean the debris removal nozzle.
- Replace the head window.

To lift the table:

1. Open the flash cover completely—slide it towards the front of the output device (away from the table).

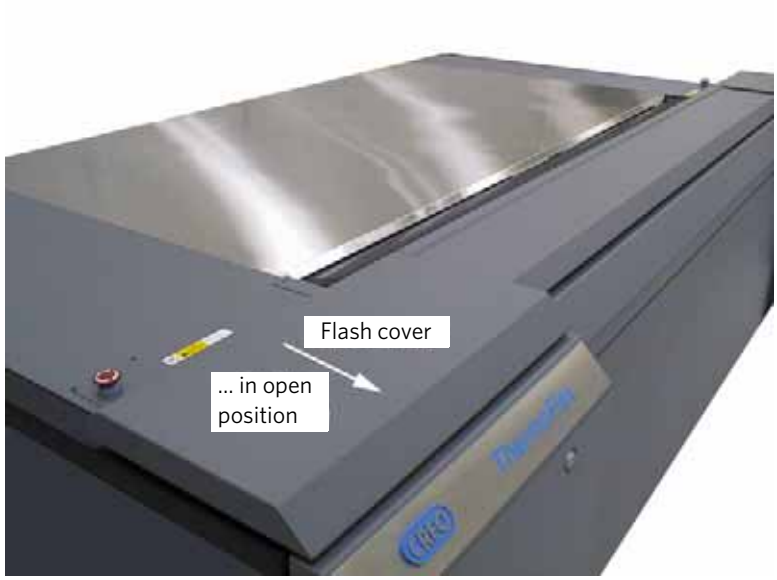


Figure 21: Flash cover in open position

WARNING: Make sure that the flash cover is completely open before lifting the table.

2. Remove the side panels as outlined in *Removing and Replacing the Side Panels* on page 38.
3. Loosen the table latches by hand turning them counter-clockwise.

   The table latches are located under the frame on each side of the table. Only a couple of turns are required.



Figure 22: Table latch—turn to release

4. Standing at the rear of the output device, hold the back edge of the table to lift it up.



Figure 23: Lifting the table

5. Remove the table support rod from its holder (on your right) and use it to hold the table in the up position.

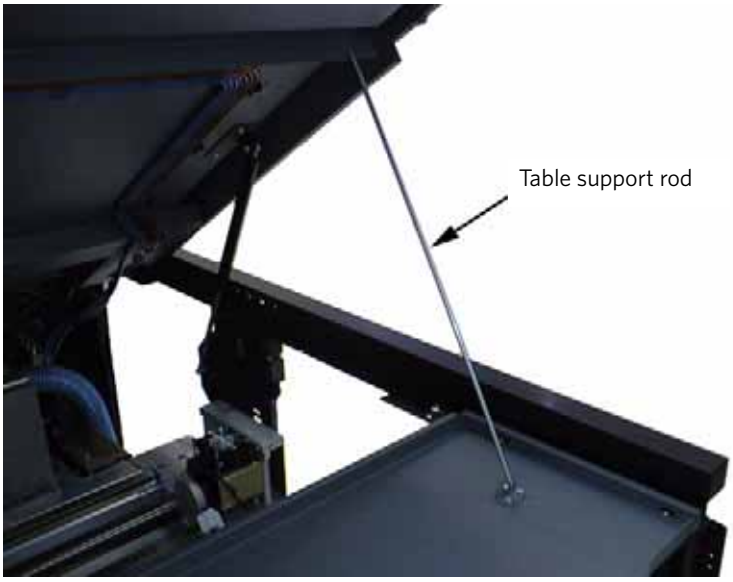


Figure 24: Table support rod

Securing the Table

Secure the table as soon as possible after performing any maintenance tasks. You cannot image media in the output device until the table is secured.

To secure the table:

1. Remove and return the table support rod to its holder while holding the table up.
2. Lower the table to the down position.
3. Tighten the table latches by hand.

   The table latches are located under the frame on each side of the output device.
4. Try lifting the table to ensure that it is secured.
5. Replace the side panels as outlined in *Removing and Replacing the Side Panels* on page 38.

Cleaning the Debris Removal Nozzle

Clean the debris removal nozzle weekly.

During normal usage, the debris removal nozzle accumulates a layer of ablated debris. As this layer builds in thickness, airflow through the nozzle is reduced. Eventually, the nozzle will become so constricted that ablated debris from the media will be redeposited back onto the media and negatively affect the final image quality.

To remove the debris removal nozzle for cleaning:

1. Ensure the output device is not imaging media and the front panel and all access panels are closed.
2. In Print Console, from the **Device** menu, select **Home**.
3. Turn off the power by pressing the power switch.
4. Lift the table as outlined in *Lifting the Table* on page 40.
5. Facing the drum from the rear of the machine, you will see the debris removal system mounted in front of the thermal head as shown below.



Figure 25: Debris Removal assembly

6. Pull the debris removal nozzle (along its guides) and the attached hoses diagonally upward until they are clear of the debris removal block.
7. Release the worm screw hose clamp holding the vacuum hose to the debris removal nozzle.
8. Remove the thin air pipe (nozzle pressure tab hose) from the nozzle at the quick release fitting.

   The debris removal nozzle is ready for cleaning.

WARNING: Do not plot without the suction nozzle. The debris may be harmful to operators and machine components and will lead to poor collection efficiency.

To clean the debris removal nozzle:

1. If you have a suction dome and compressed air available, blow the excess debris out of the nozzle under the dome.

   This step is not a requirement and can be bypassed.
2. Use an adjustable wrench to remove the nozzle plug on the rear part of the debris removal nozzle.
3. Using long handled cotton swabs and a 50% solution of isopropyl alcohol, clean out the interior passages of the debris removal nozzle.

   Note: The interior passages of the debris removal nozzle do not need to be spotlessly clean, but there should be no significant visible buildup of debris.
4. Wipe down the outer surfaces of the debris removal nozzle with the alcohol solution and a lint-free tissue or cloth.



CAUTION: Make sure all components are completely dry or buildup of debris will occur more quickly.

To install the debris removal nozzle:

1. Screw in the nozzle plug to finger tightness only.
2. Reconnect the suction hose to the debris removal nozzle and tighten the hose clamp.
3. Reconnect the thin air pipe to the debris removal nozzle at the quick release fitting.
4. Slide the debris removal nozzle back into its guides until it is seated in the bottom of the slot.

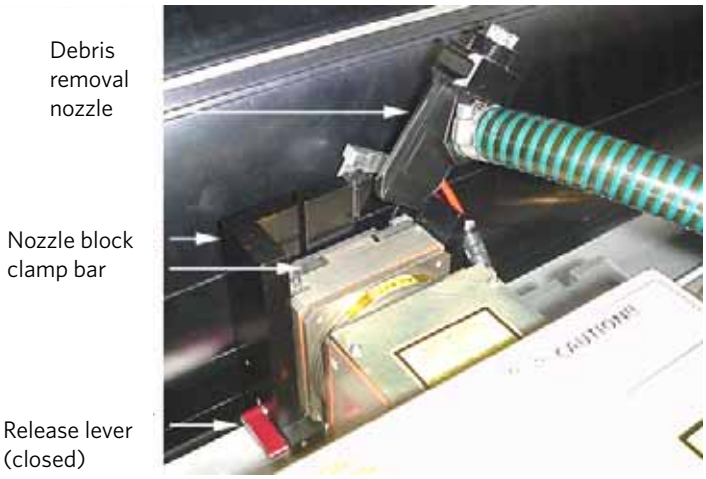


Figure 26: Inserting the debris removal nozzle

5. Lower and secure the table.
6. Turn on the ThermoFlex.

Replacing the TFX Head Window

If the debris removal system is properly maintained, then the window should not require cleaning. If the window appears dirty, then it must be cleaned using a lens cleaning kit (part number 04-0012B) available free of charge from Kodak. This kit includes acetone and optical swabs. Do not use other solvents on the head window. If a dirty window is not cleaned, then it will eventually be destroyed as the laser energy fuses debris onto the optical material.

Kodak recommends that the window only be replaced when it has been contaminated and cannot be successfully cleaned. Kodak strongly recommends that you have one spare window at all times—order your replacement window (part number 30-1170A) from Kodak. See also the technical bulletin called *The Importance of Maintenance* (Kodak Document number 719-00112A).

Preparations for Replacing a TFX Head Window

- Have the replacement window ready to be quickly unwrapped, but do not unwrap it until immediately before installing it on the head.
- Lift the table for access to the head.

To replace the existing window

1. Remove the nozzle unit by pulling it diagonally upwards and away from the nozzle block assembly.
2. Turn the red lever 180° (towards the drum) to the open position so that the nozzle block assembly moves away from the head.
3. Loosen (do not remove) the capscrew securing the clamp bar. Rotate the clamp bar up to the open position as shown in Figure 27.
4. Using a 3 mm hex key or similar bent tool, hook and lift the window out of its guides by the small hole in the window frame.

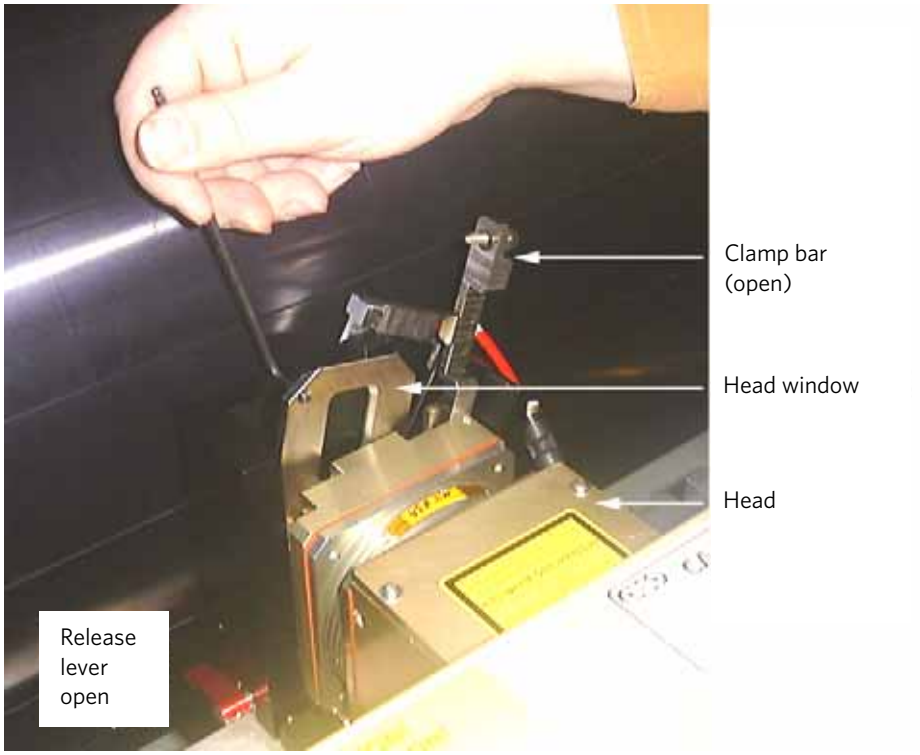


Figure 27: Removing the head window

5. Set the window aside for shipping back to Kodak and continue immediately with replacing the new window.

WARNING: Do not leave the front window off for any longer than is necessary. Dust may enter the head and affect its performance.

Note: Do not touch the glass surfaces—hold the window by the steel frame only.

6. Unwrap the new window. There is a red dot on one side of the steel frame. The red dot must be at the top of the window and facing forward (away from the head—toward the drum).
7. Using the same bent tool as before, slide the window down the front surface of the head nose-piece into its locating grooves. A slight resistance may be felt as the window frame slides over the rubber
O-ring on the front of the nose-piece.
8. Close the window clamp bar and tighten the clamp screw.
9. Rotate the release lever to the closed position.
10. Reinstall the debris removal nozzle.

Cleaning the Drum

Clean the drum surface daily.

You must clean the drum surface to ensure smooth media loading and to prevent dust, lint, or small pieces of photopolymer on the drum from causing bumps under the medium that will cause artifacts.



CAUTION: Never use acetone on the drum as it will destroy the anodized coating on the drum.

To clean the drum:

1. Ensure the output device is not imaging media.
2. Open the flash cover by sliding it towards the front of the output device (away from the table).
3. Wipe the exposed surface of the drum using a lint-free cloth or paper tissue and 50% isopropyl alcohol solution.

   Use a wiping motion that is parallel to the grooves in the drum. Do not wipe across the grooves as this will increase the risk of getting lint in the groves.
4. Use an object similar to a credit card and a lint-free cloth or paper tissue to clean the vacuum grooves of the drum.
5. Press the Clean/Inspect button to expose another section of the drum for cleaning.
6. Repeat until entire drum surface has been cleaned.

Replacing Air Filters

There are two air filtration systems in the output device:

- Compressed air supply filter system—three filters inside the fan box panel
- Cooling-air filter system—access the intake air filter by removing the power box filter panel

Inspect and replace these filters regularly.

Frequency of Filter Replacement

Replace the compressed air supply filters every six months. See *Schedule of recommended maintenance procedures* on page 35.

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

For customers with service contracts, this will be done by an authorized service representative during the six month service visit. However, if your operating conditions require air supply filter replacement more often, we strongly recommend that you perform this maintenance procedure between service visits.

Compressed Air Supply Filters

There are three compressed air supply filters in the output device:

- Particulate filter
- Coalescent filter
- Adsorption filter

The filters are located inside the right rear panel. These filters clean and dry the compressed air that is supplied to the output device pneumatics.



CAUTION: Turn off the compressed air before replacing the compressed air supply filters. Failure to turn off the compressed air pressure before replacing the compressed air supply filters can result in injury and/or damage to the output device



Figure 28: Compressed air supply filters—rear right panel

The compressed air supply filters can become clogged if they are not replaced every six months—more frequently in dusty environments. 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.

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

The compressed air must be turned off before you replace the compressed air supply filters. When you turn off the compressed air, the air bleeds completely out of the output device and the pressure gauge on the filtration device reads zero. When you turn the air pressure back on, normal air pressure on the filtration device should read between 120 and 130 psi.

Replacement Parts

You can order replacement parts for the compressed air supply filter system from Kodak. 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. Failure to do so can result in injury or damage to the output device.

Inspecting the Compressed Air Supply Filters

Inspect the compressed air supply filters weekly.

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

The water or oil comes from the external compressed air supply system. It is important to have the external air supply system inspected and repaired before the ThermoFlex Wide I is permanently damaged.



CAUTION: Failure to remove air pressure from the output device before removing an air filter could result in the following: 1) it allows unfiltered air to be drawn into sensitive areas of the output device which will eventually degrade and damage the output device, 2) it will cause high-pressure air to be present in the filter elements and bowl, making disassembly difficult and dangerous, resulting in possible injury and damage to the output device, 3) it will cause a very loud noise that could cause moderate injury by damaging your hearing.

To inspect the filters:

1. Ensure that the output device is not imaging media.
2. Remove the right rear panel as outlined in *Removing and Replacing the Right Rear Panel* on page 39.
3. Press down firmly on the trigger on the air shutoff valve to turn off the compressed air supply.



WARNING: Do NOT put your fingers over the vent hole below the air shutoff valve. High-pressure air is released through this hole when the shutoff is activated.

4. Turn off the output device.

   See *Turning Off the ThermoFlex Wide I System* on page 23.



CAUTION: Do not shut off the compressed air while the output device is in operation.

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

   Inspect the filters by looking at the indicator on the middle and right side of the filters. If either indicator is red, then all three filter elements should be replaced. Regardless of what the indicator shows, the air supply filters must be replaced every three months.



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

Cleaning Compressed Air Supply Filters

You can clean the compressed air supply filters by gently tapping them on the ground to release captured dirt. It's important to clean and replace the filters according to the *Maintenance Schedule* on page 34.

Replacing the Particulate Filter

Replace the particulate filter every six months.



Figure 29: Particulate filter

To replace the particulate filter:

1. Ensure that the output device is not imaging media.
2. Turn off the output device.

   See *Turning Off the ThermoFlex Wide I System* on page 23.
3. Remove the right rear panel.

   See *Removing and Replacing the Right Rear Panel* on page 39.
4. Press down firmly on the top trigger of the air shutoff valve to turn off the compressed air supply.

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

CAUTION: Do NOT put your fingers over the vent hole below the shutoff valve. High-pressure air is released when the shutoff valve is activated and could cause injury to your fingers.

5. Rotate the filter bowl a quarter turn, and pull down to remove it.
6. Turn the black plastic disk clockwise to remove the filter assembly.
7. Install a new particulate filter, and screw the black plastic disk back into the unit until it is hand-tight.

   If your Compressed Air Supply Kit:

   - Contains an O-ring, pull the old O-ring off the filter bowl and replace it with the new O-ring.
   - Does not contain an O-ring, leave the existing O-ring in place.
8. Check the filter bowl for water or oil.

   If there is water or oil, have your air supply inspected by qualified personnel.

   Examine the filter bowl for any damage or deterioration such as crazing or cracking. Inform your Kodak service representative immediately if replacement is necessary.

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, there is the possibility of the parts exploding and causing serious injury and/or damage to the output device.

9. Apply a thin coat of synthetic grease to the O-ring.
10. Reinstall the filter bowl by pushing up and turning.

    If you have not replaced the coalescent or the adsorption filters, proceed to *Replacing the Coalescent Filter*or *Replacing the Adsorption Filter* on page 54 before completing the following steps.
11. Press down firmly on the side trigger of the air shutoff valve to turn on the compressed air supply.

    The air pressure gauge on the filtration unit should read 90 psi. If it does not, adjust the air supply that supplies the ThermoFlex device with air.
12. Replace the right rear panel.

    See *Removing and Replacing the Right Rear Panel* on page 39.

Replacing the Coalescent Filter

Replace the coalescent filter every six months.



Figure 30: Coalescent filter

To replace the coalescent filter:

1. Ensure that the output device is not imaging media.
2. Turn off the output device.

    See *Turning Off the ThermoFlex Wide I System* on page 23.
3. Remove the right rear panel.

    See *Removing and Replacing the Right Rear Panel* on page 39.

4. Press down firmly on the top trigger of the air shutoff valve to turn off the compressed air supply.



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



CAUTION: Do NOT put your fingers over the vent hole below the shutoff valve. High-pressure air is released when the shutoff valve is activated and could cause injury to your fingers.

5. Rotate the filter bowl a quarter turn, and pull down to remove it.
6. Rotate the coalescing filter counter-clockwise to unscrew and remove it.
7. Install a new coalescing filter by screwing the new filter into the unit until it is hand-tight.

   If your Compressed Air Supply Kit:

   - Contains an O-ring, pull the old O-ring off the filter bowl and replace it with the new O-ring.
   - Does not contain an O-ring, leave the existing O-ring in place.

8. Check the filter bowl for water or oil.

   If there is water or oil, have your air supply inspected by qualified personnel.

   Examine the filter bowl for any damage or deterioration such as crazing or cracking. Inform your Kodak service representative immediately if replacement is necessary.



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, there is the possibility of the parts exploding and causing serious injury and/or damage to the output device.

9. Apply a thin coat of synthetic grease to the O-ring.
10. Reinstall the filter bowl by pushing up and turning.

    If you have not replaced the particulate or the adsorption filters, proceed to *Replacing the Adsorption Filter* or *Replacing the Particulate Filter* on page 50 before completing the following steps.

11. Press down firmly on the side trigger of the air shutoff valve to turn on the compressed air supply.

    The air pressure gauge on the filtration unit should read 90 psi. If it does not, adjust the air supply that supplies the ThermoFlex device with air.

12. Replace the right rear panel.

    See *Removing and Replacing the Right Rear Panel* on page 39.

Replacing the Adsorption Filter

Replace the adsorption filter every six months.



Figure 31: Adsorption filter

To replace the adsorption filter:

1. Ensure that the output device is not imaging media.
2. Turn off the output device.

   See *Turning Off the ThermoFlex Wide I System* on page 23.
3. Remove the right rear panel.

   See *Removing and Replacing the Right Rear Panel* on page 39.
4. Press down firmly on the top trigger of the air shutoff valve to turn off the compressed air supply.



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



CAUTION: Do NOT put your fingers over the vent hole below the shutoff valve. High-pressure air is released when the shutoff valve is activated and could cause injury to your fingers.

5. Rotate the filter bowl a quarter turn, and pull down to remove it.
6. Rotate the adsorption filter counter-clockwise to unscrew and remove it.
7. Install a new adsorption filter by screwing the new filter into the unit until it is hand-tight.

   If your Compressed Air Supply Kit:

   - Contains an O-ring, pull the old O-ring off the filter bowl and replace it with the new O-ring.
   - Does not contain an O-ring, leave the existing O-ring in place.

8. Check the filter bowl for water or oil.

   If there is water or oil, have your air supply inspected by qualified personnel.

   Examine the filter bowl for any damage or deterioration such as crazing or cracking. Inform your Kodak service representative immediately if replacement is necessary.



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, there is the possibility of the parts exploding and causing serious injury and/or damage to the output device.

9. Apply a thin coat of synthetic grease to the O-ring.
10. Reinstall the filter bowl by pushing up and turning.

    If you have not replaced the particulate or the coalescent filters, proceed to *Replacing the Particulate Filter* on page 50 or *Replacing the Coalescent Filter* on page 52 before completing the following steps.

11. Press down firmly on the side trigger of the air shutoff valve to turn on the compressed air supply.

    The air pressure gauge on the filtration unit should read 90 psi. If it does not, adjust the air supply that supplies the ThermoFlex device with air.

12. Replace the right rear panel.

    See *Removing and Replacing the Right Rear Panel* on page 39.

Intake Air Filters

The intake air filters are located in the inner side panels at the rear of the output device.

Frequency of Intake Air Filter Replacement

Replace the intake air filter every month. In dirtier environments, replace it more often.

Replacement Parts

You can order replacement intake air filters from Kodak. See Appendix A, *Part Numbers*.

Replacing the Intake Air Filter

The intake air filter is 12.7 mm (0.5") thick. When installing the new filter, the side of the filter with the metal mesh faces in toward the output device.

To replace the intake air filter:

1. Turn off the output device.

   See *Turning Off the ThermoFlex Wide I System* on page 23.

2. Open a filter panel at the rear of the output device

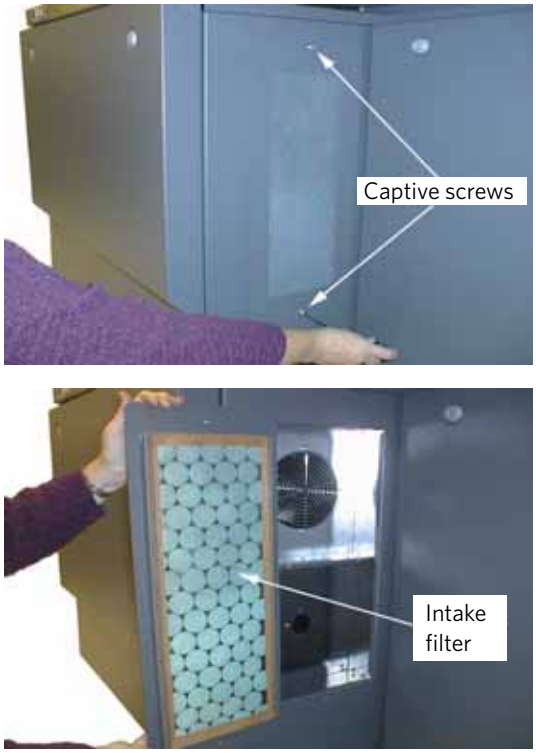


Figure 32: Intake Filter

   a. Loosen the captive screw 2-3 turns counter-clockwise by hand, or use a slot screwdriver.

   b. Pull the filter panel straight out to remove it.

3. Remove the old intake air filter from the filter panel frame.

4. Clean the filter panel frame.

   Vacuum the frame or wipe it with a dry cloth.

5. Install a new intake air filter into the filter panel frame with the mesh side facing towards you.

6. Close the filter panel.

   Turn the captive screws 2-3 turns clockwise to lock the filter panel securely into position, or use a slot screwdriver.

7. Replace the other intake air filter.

Checking the Chiller Fluid Level

During normal operations, the Thermal Head requires cooling; the chiller helps to maintains a constant temperature for the head.

The chiller is a component of the ThermoFlex Wide I system and is attached to the output device.

You should do a visual maintenance check of the chiller coolant level every six months. If the fluid is low, add enough Dowtherm premixed coolant to fill the plastic container. You can order replacement coolant from Kodak. See Appendix A, *Part Numbers*.

For more information on checking the chiller fluid level, see the *Chiller Operator Manual*.

Replacing the Universal Debris Removal Cabinet Filters

Kodak's ThermoFlex devices are currently offered with two options for the removal of gaseous emissions generated during imaging:

- External ventilation (standard)
- Indoor exhaust with chemical filtration

Both options include the filtration of particulates generated during the imaging of ablative flexographic plates, letterpress plates, and film. The indoor exhaust option requires the use of chemical filters in addition to the particulate filters.

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

For more information on replacing the Universal Debris Removal Cabinet filter, see *Chapter 4: Maintenance* in the *Universal Debris Removal Cabinet Operator Guide* (Kodak document number 03-4200).

Particulate Filter Replacement

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

Chemical Filter Replacement

ThermoFlex Wide I devices that use internal ventilation also use chemical filters. For these devices, the customer must keep track of the accumulative imaged area and replace the chemical filter after approximately 170 square meters. This estimate is based on an average of the most commonly used flexography plates.

Please note that all estimated lifetimes are assuming 100% imaged area. Kodak customers are responsible for estimating the actual imaged area for a given job and keeping track of the accumulative imaged area.

External Ventilation

External ventilation eliminates the need for chemical filtration and is now a standard feature on ThermoFlex devices. Contact your Kodak representative for information on an external ventilation upgrade.

5

Troubleshooting

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This chapter describes common errors and problems that can occur with the ThermoFlex Wide I and explains how to resolve them. For a list of common error messages and recommended solutions, see *Error Messages and Recommended Solutions* on page 63.

Operator Recoverable Errors

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

- 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* on page 60)

  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.

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

Warning Messages

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

Warning messages are a good indication that servicing is required in the near future. Typical examples of this kind of message include:

- compressed air pressure is low
- exposure head is overheating
- power supply voltage is out of range

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

Error Messages

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

An example of an error message is:

MDH: Please press RESUME to reload media or EJECT to cancel current image

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

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

Suspend Conditions

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

Example of a Suspend Condition

The information in the suspend condition dialog box indicates the type of problem and suggests a course of action.

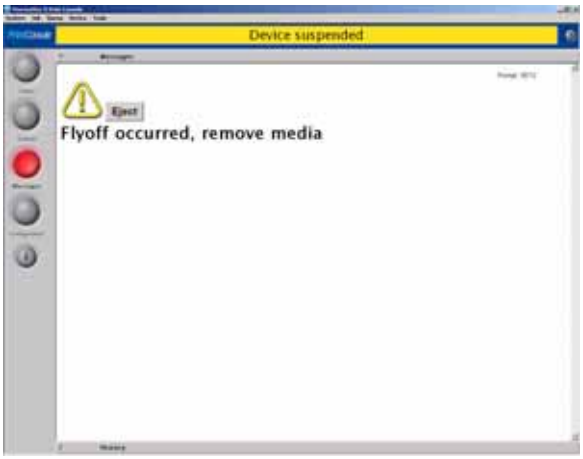


Figure 33: Typical example of a suspend condition dialog box in Print Console

Here is an example of a suspend condition as it appears in the operator guide. It states the problem and its solution.

Error message	Solution
Carriage did not reach target speed	• Click the **Cancel Image** button to cancel the image. The medium is unloaded without being imaged. • Click the **Resume** button to try to find the media edge again. The **Plate Removed** button is not available for this suspend condition.

When a suspend condition occurs:

- The output device stops.
- The three green lights on the operator interface flashes.
- A Suspend prompt appears in Print Console.
- An Attention Window is displayed in front of the other windows on the workstation and the **Attention** button flashes.

The information in the Attention window indicates the type of problem and suggests a course of action.

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

Table 7: Suspend condition options

Option	Result
Resume button	Click this button to try the operation again.
Release button	Click this button to tell the output device to release the media so that it can be easily removed.
Eject button	Click this button to cancel the job and unload the media.
Media Removed button	Click this button after you remove the media to indicate that you have manually intervened to fix a problem. For example, you have manually removed a misaligned media. **IMPORTANT:** You must remove the media before you click the **Media Removed** button.

Recovering From a Suspend Condition

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

1. Click the **Resume** button in Print Console. If the output device does not resume imaging, go to step 2.
2. If the **Leave On** button is available:
   a. Click it to cancel the job.
   b. Leave the media on the drum.

   If the button is unavailable or the output device does not resume imaging, go to step 3.
3. If the **Eject** button is available:
   a. Click it to cancel the job.
   b. Unload the media from the drum.

   If the output device does not resume imaging, go to step 4.
4. If the **Cancel** button is available:
   a. Click it to cancel the job.
   b. Leave the media on the drum.

   If the output device does not resume imaging, go to step 5.

5. If the **Release** button is available:
   a. Click it to tell the output device to release the media.
   b. Manually remove the media.
   c. Click the **Resume** or **Media Removed** button to continue.

   If the output device does not resume imaging, go to step 6.
6. If the **Media Removed** button is available:
   a. Manually remove the media.
   b. Click the **Resume** or **Media Removed** button to continue.

   If the output device does not resume imaging, go to step 7.
7. Reset the output device from Print Console. For instructions, see the Print Console online help.

   If the output device does not resume imaging, go to step 8.
8. Quit Print Console.
9. Turn off the output device.
10. Restart the output device.

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

Error Messages and Recommended Solutions

This section describes most of the error messages that appear in Print Console when errors or problems occur with the ThermoFlex Wide I.

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 62. If that does not work, contact your authorized service representative.

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

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

Note: The ThermoFlex Wide I output device takes up to five minutes to warm up after it is restarted. You cannot image media while the output device is warming up. Files submitted to be imaged wait on the workstation until the output device is ready.

Classifying Errors

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

Messages appear in Print Console with a prefix, for example, MPE (Master Processor Electronics):

MPE [02805] Monitor: Timeout entering the command line

This is to differentiate these messages from other messages that relay information about other parts of the output device.

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

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

Table 8: Numerical listing of error messages

Numerical Listing	
Error Message	**Recommended Operator Action**
Workstation communications lost [Error #: 00021]	The workstation is not working. **To correct the error:** 1. Ensure that the computer serial interface cable is connected to the correct port on the workstation. 2. If the cable is connected properly, reboot the workstation. For instructions, see your workstation documentation. 3. Turn off the output device. 4. Restart the output device. 5. Start Print Console. This error is reported every 30 seconds while it persists. **Important:** If the error persists, contact your authorized service representative.
Resume or clear received when not suspended [Error #: 03007]	1. Reboot the workstation. For instructions, see your workstation documentation. 2. Turn off the output device. 3. Restart the output device. 4. Restart Print Console. **Important:** If the error happens more than once, contact your authorized service representative.
Command received for idle image ID [Error #: 03008]	1. Reboot the workstation. For instructions, see your workstation documentation. 2. Turn off the output device. 3. Restart the output device. 4. Restart Print Console. **Important:** If the error happens more than once, contact your authorized service representative.

Numerical Listing (Continued)	
Specified image ID is already active [Error #: 03009]	1. Reboot the workstation. For instructions, see your workstation documentation. 2. Turn off the output device. 3. Restart the output device. 4. Restart Print Console. **Important:** If the error happens more than once, contact your authorized service representative.
Maximum active image commands surpassed [Error #: 03010]	1. Reboot the workstation. For instructions, see your workstation documentation. 2. Turn off the output device. 3. Restart the output device. 4. Restart Print Console. **Important:** If the error happens more than once, contact your authorized service representative.
Resolution specified is not available [Error #: 03011]	The output device is configured to use resolutions that are not available on your ThermoFlex Wide I. ➢ See the *Print Console Quick Start Guide* and the Print Console online help to determine which resolutions are available to you.
Abort received when no command active [Error #: 03014]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. **Important:** If the error happens again, contact your authorized service representative.
Door is open [Error #: 03017]	An access panel is open. **To correct error:** 1. Close the access panel. 2. Click the **Resume** button. **Important:** If the error persists, contact your authorized service representative.
ABORT switch on [Error #: 03019]	➢ Release the Abort switch on the output device to continue operations.

Numerical Listing (Continued)	
ABORT switch off [Error #: 03020]	All abort switches have been released.
Resolution does not exist [Error #: 03047]	This error message may appear routinely when you start the workstation. You can safely ignore this message.
Image too wide for plate [Error #: 03048]	1. Ensure that the media size is a correct match with the file you sent to the output device to be imaged. 2. Do one of the following: ▪ If the media size is correct, the error could be a problem with the workstation software or the PostScript file. ▪ If the media size is incorrect, click the **Cancel** button, and modify the media size as needed. See the *Print Console Quick Start Guide* and the Print Console online help. 3. Record the media separation color(s) that had the error. 4. Contact your authorized service representative.
One or both plate dimensions too large [Error #: 04030]	1. Check the media type information to ensure that the media size listed on the Print Console matches the size you loaded. 2. Do one of the following: ▪ If the media sizes match, click the **Resume** button to resume imaging. ▪ If the media sizes don't match, click the **Cancel** button, and modify the media size as needed. See the *Print Console Quick Start Guide* and the Print Console online help. ▪ Get a different-sized media to load into the output device.
Media type out of range [Error #: 04031]	1. In **Print Console**, select **Media Configuration**. 2. In the Media Configuration dialog box, check that the media type is listed under **Available Media**. 3. Record the error message and contact your authorized service representative.

Numerical Listing (Continued)	
One or both plate dimensions too small [Error #: 04032]	1. Check the media type information to ensure that the media size listed on the Print Console matches the size you loaded. 2. Do one of the following: ▪ If the media sizes match, click the **Resume** button to resume imaging. ▪ If the media sizes don't match, click the **Cancel** button, and modify the media size as needed. See the *Print Console Quick Start Guide* and the Print Console online help. ▪ Get a different-sized media to load into the output device.
Limit switches reporting carriage is both HOME and AWAY [Error #: 07000]	1. Open the output device. 2. Check to see if there are any slip sheets, media, or debris stuck around the imaging head inside the output device. 3. Do one of the following: ▪ If there are slip sheets, media, or debris, remove the foreign material and try to image the media again. ▪ If there are no slip sheets, media, or debris, write down the error message and contact your authorized service representative.
Stuck in HOME position [Error #: 07001]	1. Click the **Resume** button. 2. If Print Console reports the error again, click the **Cancel** button. 3. Reboot the workstation. For instructions, see your workstation documentation. 4. Turn off the output device. 5. Restart the output device. 6. Restart Print Console. The error may go away temporarily. 7. Contact your authorized service representative. **Important:** Your output device may need servicing.

Numerical Listing (Continued)	
Stuck in AWAY position [Error #: 07002]	1. Click the **Resume** button. 2. If Print Console reports the error again, click the **Cancel** button. 3. Reboot the workstation. For instructions, see your workstation documentation. 4. Turn off the output device. 5. Restart the output device. 6. Restart Print Console. The error may go away temporarily. 7. Contact your authorized service representative. **Important:** Your output device may need servicing.
Unexpectedly arrived at HOME position [Error #: 07003]	1. Click either the **Resume** or **Cancel** button. The output device should recover automatically from the error. 2. Check the media for artifacts. 3. Even if you do not find any artifacts, contact your authorized service representative. **Important:** Your output device may need servicing.
Unexpectedly arrived at AWAY position - image size may have been too large [Error #: 07004]	1. Click either the **Resume** or **Cancel** button. The output device should recover automatically from the error. 2. Check the media for artifacts. 3. Verify that you used the correct size plate. 4. Even if you do not find any artifacts, contact your authorized service representative. **Important:** Your output device may need servicing.
Operation timed out [Error #: 07005]	1. The output device may recover if you click either the **Resume** or **Cancel** button. 2. Even if the output device resumes normal operation, report the error message to your authorized service representative. **Important:** Your output device may need servicing.

Numerical Listing (Continued)	
Did not reach target speed [Error #: 07012]	1. Click the **Resume** button. 2. Contact your authorized service representative.
<Satellite Board> Error: <Output Name> [Error #: 14056]	1. Click the **Resume** button. The output device may recover automatically. 2. Even if it does, contact your authorized service representative.
Plate exposed by open door [Error #: 16023]	➢ Click the **Resume** or **Cancel** button. The output device should recover from this error automatically. The media in the output device when the access panel was open will be marked as a reject.
PHI buffer overflow while imaging, check plate for artifacts [Error #: 16037]	➢ Check the media for image artifacts. **Important:** If the error keeps occurring, contact your authorized service representative.
Datalink synchronization lost [Error #: 17002]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.
Datalink failed while retrying send [Error #: 17003]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.

Numerical Listing (Continued)	
Datalink timed out waiting for break [Error #: 17006]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative. **Important:** Your output device may need servicing.
Command timed out [Error #: 17008]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.
Task received unexpected head message <mailbox>, message code <msgtype>h [Error #: 17009]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.
Won’t come online [Error #: 17014]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.

Numerical Listing (Continued)	
Did not signal end of initialization [Error #: 17015]	The output device is not initializing properly. **To correct the error:** 1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. **Important:** Record the error message and contact your authorized service representative.
Is not responding [Error #: 17016]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.
Break detected, exposure head has reset [Error #: 17021]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.
All retries failed on chnl 0 [Error #: 17534]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.

Numerical Listing (Continued)	
All retries failed on chnl 1 [Error #: 17535]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.
Sync lost on chnl 0 [Error #: 17536]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.
Sync lost on chnl 1 [Error #: 17537]	1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. 4. Even if the output device recovers from the error, contact your authorized service representative.
Focus error detected at <distance> inches while imaging, check plate for artifacts [Error #: 17664]	This error can be caused by: • Dents in a media • Improperly loaded media • An image running off the edge of the media (that is, the image is wider than the media) **To correct the error:** 1. Inspect the media closely for image artifacts. 2. Try imaging again using a new media. **Important:** If the error keeps happening, contact your authorized service representative.

Numerical Listing (Continued)	
Laser beam positioning not stable yet [Error #: 17724]	1. Click the **Cancel** button. 2. Try again to submit the file to the output device. **Important:** If the error keeps happening, contact your authorized service representative immediately.
Communication error: Laser is busy [Error #: 18000]	➢ Click the **Resume** button. If this error happens again: 1. Turn off the output device. 2. Reboot the workstation. For instructions, see your workstation documentation. 3. Restart the output device. **Important:** If the output device does not recover from the error, contact your authorized service representative.
Cannot continue, laser is not ready [Error #: 18017]	1. Click the **Resume** button. 2. If this message reappears in the Print Console window, wait 30 seconds and click the **Resume** button again. 3. Repeat step 2 until the output device restarts. Watch for the Messages pane to display a Laser is ready message.
SCSI bus reset while imaging [Error #: 21000]	1. Click either the **Resume** or **Cancel** button. The output device should recover and normal operation may continue, but the current media will be marked rejected. 2. Contact your authorized service representative.
SCSI parity error while imaging, check plate for artifacts [Error #: 21001]	1. Check the media for artifacts. 2. If you find image artifacts, or if you think image artifacts might be on the media but are not visible, reimage the media.
Image shutdown error [Error #: 32201]	This error happens only with certain media sizes and/or separations. The media was likely imaged correctly and may still be usable. 1. Click either the **Resume** or **Cancel** button. 2. Contact your authorized service representative.

Dr. Watson Errors

Dr. Watson errors are generated by the Windows NT operating system. When a Dr. Watson error happens, the Dr. Watson dialog box appears.

To recover from a Dr. Watson error:

1. Click **OK** to close the Dr. Watson dialog box.

   It may take a few minutes for the **OK** button to become available.

2. Reboot the workstation.

   For additional instructions, see workstation documentation.

If rebooting the workstation doesn't help, call your authorized service representative.

Resetting the Emergency Stop Switch

If you accidentally press the Emergency Stop switch, you must reset it before the output device can return to normal operations.



Figure 34: Emergency Stop switches

To reset the Emergency Stop switch:

➢ Rotate the Emergency Stop switch 90º clockwise.

Resetting the Output Device

Use the **Reset** command in the Print Console **Device** menu to reset the output device to its idle or ready state. For example, if you cancelled an image, but the output device didn't unload the media, you could use the **Reset** command to reset the output device to an idle state, causing the output device to unload the media.

Important: The output device takes up to two to three 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.

To reset the output device:

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

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

Removing Stuck Media From the Output Device

Occasionally, media may get stuck on the drum as the result of:

- An output device error (for instance, media is being loaded onto or unloaded from the drum)
- A flyoff

You must remove the stuck media before the output device can return to normal operation.

Unloading a Stuck Media From the Drum

If possible, unload media onto the table rather than opening the front panel.

To unload media from the drum onto the table:

1. Slide the flash cover fully open.
2. Push one of the top Emergency Stop switches beside the drum (under the flash cover).



Figure 35: Pushing a top Emergency Stop switch

When you push an Emergency Stop switch, all mechanical operations stop. No further operations can take place until you reset the Emergency Stop switch.

3. Ensure the drum is idle by rotating it by hand.

   If the drum will not rotate, turn off power to the output device using the power switch on the lower left side of the output device. See Figure 10 on page 22 for an illustration of the location.

4. Rotate the drum and locate either the leading-edge or trailing-edge of the medium.
5. Remove any tape from the drum.
6. Rotate the drum by hand, while guiding the edge of the media onto the table, until the other edge of the medium can be reached.
7. Remove any tape from the other edge of the media and drum.
8. Remove the media from the drum and table.

   If the media can be used again, set it aside for reloading. If it cannot, dispose of it accordingly.

9. Rotate the drum by hand to inspect for any tape or debris still stuck to the drum.
10. In the Print Console Suspend dialog box, click the **Resume** button.
11. Reset the Emergency Stop switch.

    For information on resetting, see *Resetting the Emergency Stop Switch* on page 75.

To remove media from the drum through the front panel:

If media cannot be removed by unloading it onto the table, you can unload the media from the front of the output device.

1. Remove the output device front panel.

   See *Removing and Replacing the Front Panel* on page 38.

2. Push the Emergency Stop switch behind the front panel, at the bottom center.

   All mechanical operations stop. No further operations can take place until you reset the Emergency Stop switch.



Figure 36: Inside Emergency Stop switch

3. Ensure the drum is idle by rotating it by hand.

   If the drum will not rotate, turn off power to the output device using the power switch on the lower left side of the output device. See Figure 10 on page 22 for an illustration of the location.

4. Rotate the drum and locate either the leading-edge or trailing-edge of the media.
5. Remove any tape from the drum.
6. Rotate the drum by hand, while guiding the edge of the media straight out of the output device, until the other edge of the media can be reached.
7. Remove any tape from the other edge of the media and drum.
8. Remove the media from the output device.
9. Rotate the drum by hand to inspect for any tape or debris still stuck to the drum.
10. In the Print Console Suspend dialog box, click the **Resume** button.
11. Reset the Emergency Stop switch.

    For more information on resetting, see *Resetting the Emergency Stop Switch* on page 75.

12. Replace the output device front panel.

    See *Removing and Replacing the Front Panel* on page 38.

Image Quality Problems

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

Power Failures

If there is a power failure, the ThermoFlex Wide I shuts down immediately.

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

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

Sometimes automatic recovery is not possible. This occurs, for example, if the power fails when media is partially on the drum. In this case, a message appears in Print Console and you must remove the media. See *Removing Stuck Media From the Output Device* on page 76.

When a power failure occurs, it is recommended that you turn off the power switch shown in Figure 10 on page 22. Once power has been restored, you can turn the output device on again.

Loss of Air Pressure in the Output Device

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

A

Part Numbers

Parts List 82

Parts List

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

Description	Kodak part number
Air supply filters:	
Adsorption filter	55-0326
Coalescing filter	55-0325
Particulate filter	55-0324
Bowl O-ring	55-0173
Debris removal	
Chemical filter for UDRC-BF	50-2315
Chemical filter spacer	57-9014
Particulate filter for UDRC-BF	252-01131
Particulate filter for UDRC-BP with external venting	57-8792
Premixed coolant	090-00326
Drum vacuum filter	55-0214
Intake air filter	55-0346
Operator Maintenance Schedule	77-0136
Plastic bowl/guard with automatic drain	55-0175
Plastic bowl/guard with manual drain	55-0174
Scotch 3M 471 plastic tape	Kodak does not carry this part.
tesa 60760	Kodak does not carry this part.

B

Labels

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Identification and Certification Labels....85
Laser Safety Labels....88
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Overview

This appendix contains information about the labels that are located on the ThermoFlex Wide I. These labels are intended to assist you in safely operating your output device. You can access all the labels described in this appendix. Most are located inside the output device access panels (within the overall interlocked protective housing).

For an illustration of	See
Identification label	Figure 38 on page 85
Class 1 Laser Product label	Figure 39 on page 86
CDRH Certification label	Figure 40 on page 86
CE Mark label	Figure 41 on page 87
CSA Mark label	Figure 42 on page 87
FCC Certification label	Figure 43 on page 87
Exposure Head Aperture label	Figure 45 on page 88
Class 4 Laser Product label	Figure 46 on page 89
Laser Hazard Warning label	Figure 47 on page 89
Exposure Head Radiation Output label	Figure 48 on page 90
Door Interlock Danger label	Figure 49 on page 90
High Touch Current label	Figure 50 on page 91
Hazardous Moving Parts Warning label	Figure 51 on page 91
Beware of Moving Parts Caution label	Figure 52 on page 92
Beware of Moving Parts When Interlock Overridden label	Figure 53 on page 92

Identification and Certification Labels

The Identification, Laser Product Classification, and CDRH Certification labels are located on the output device as indicated in Figure 37. You must remove the left side access panel to view these labels.

See *Removing and Replacing the Side Panels* on page 38 for instructions.

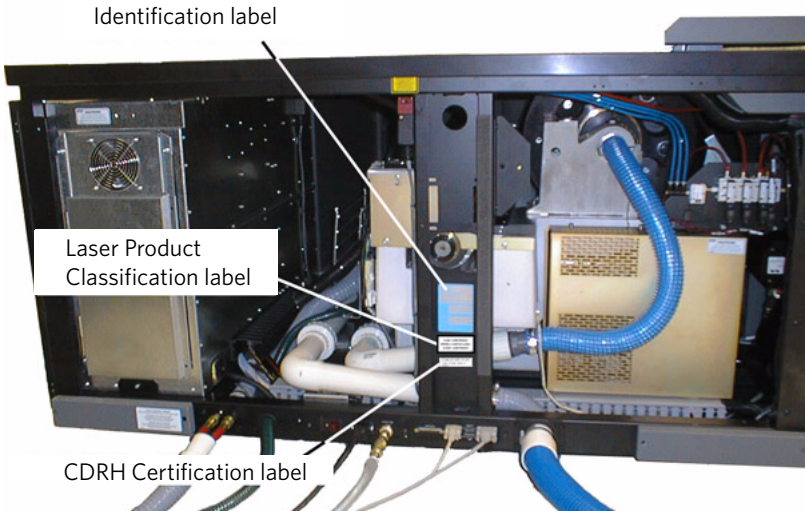


Figure 37: Identification, Classification, and Certification labels

Identification Label

This label is located inside the left side panel as shown in Figure 37 on page 85.

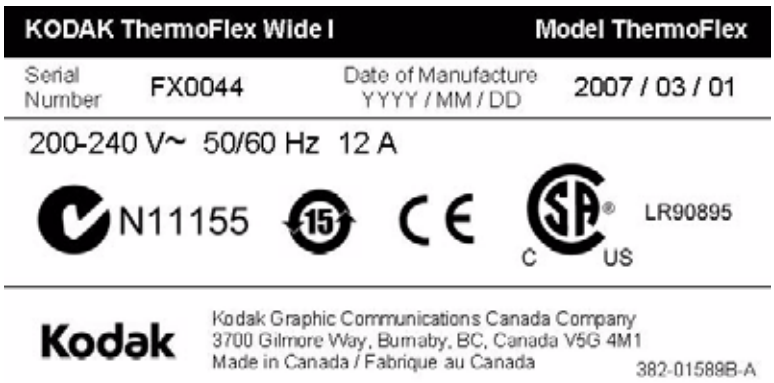


Figure 38: Identification label

Translation of above label:

For service call: _____

Please reference serial number

Model: ThermoFlex

Date of manufacture: <Month> <Year>

Voltage: 200-240 V ac

Current: 15 A

Frequency: 50/60 Hz

Made in Canada

Class 1 Laser Product Label

This label is located inside the left side panel as shown in Figure 37 on page 85.



Figure 39: Class 1 Laser Product label

CDRH Certification Label

This label is located inside the left side panel as shown in Figure 37 on page 85.

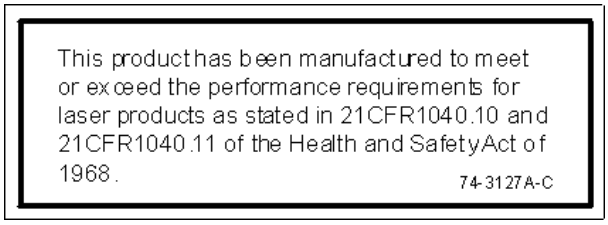


Figure 40: CDRH Certification label

Translation of above label:

This product has been manufactured to meet or exceed the performance requirements for laser products as stated in 21CFR1040.10 and 21CFR1040.11 of the Health and Safety Act of 1968.

CE Mark Label

This label is located inside the left side panel as shown in Figure 37 on page 85.



Figure 41: CE Mark label

CSA Mark Label

This label is located inside the left side panel as shown in Figure 37 on page 85.



Figure 42: CSA Mark label

FCC Certification Label

This label is located inside the left side panel as shown in Figure 37 on page 85.

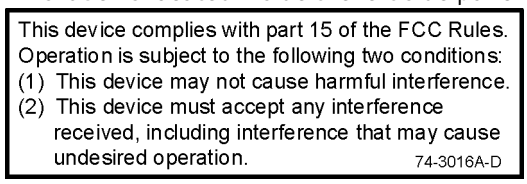


Figure 43: FCC Certification label

Translation of above label:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

Laser Safety Labels

Laser safety labels are located on the imaging head.

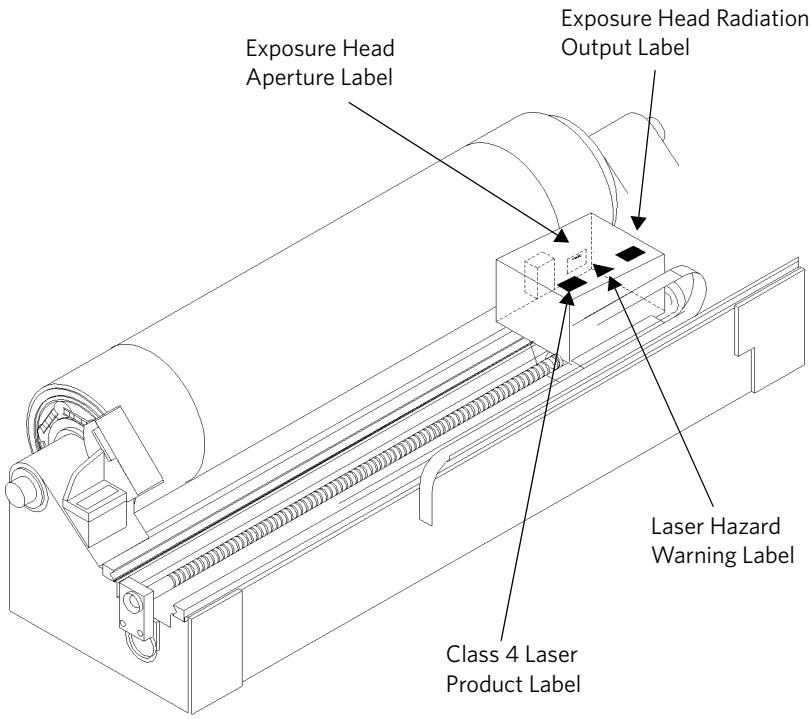


Figure 44: Laser Safety labels

Exposure Head Aperture Label

This label is located on the front of the imaging head protective housing, adjacent to the shutter and aperture, as shown in Figure 44 on page 88.



Figure 45: Exposure Head Aperture label

Translation of above label:

Avoid Exposure: Visible and invisible laser radiation is emitted from this aperture.

Class 4 Laser Product Label

This label is located on the front of the imaging head protective housing, adjacent to the shutter and aperture, as shown in Figure 44 on page 88.



Figure 46: Class 4 Laser Product label

Translation of above label:

Invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation. Class 4 laser product.

Laser Hazard Warning Label

This label is located on the front of the imaging head protective housing, adjacent to the shutter and aperture, as shown in Figure 44 on page 88.



Figure 47: Laser Hazard Warning label

Exposure Head Radiation Output Label

This label is located on the front of the imaging head protective housing, adjacent to the shutter and aperture, as shown in Figure 44 on page 88.



Figure 48: Exposure Head Radiation Output label

Door Interlock Danger Label

This label is located beside all safety interlock switches.

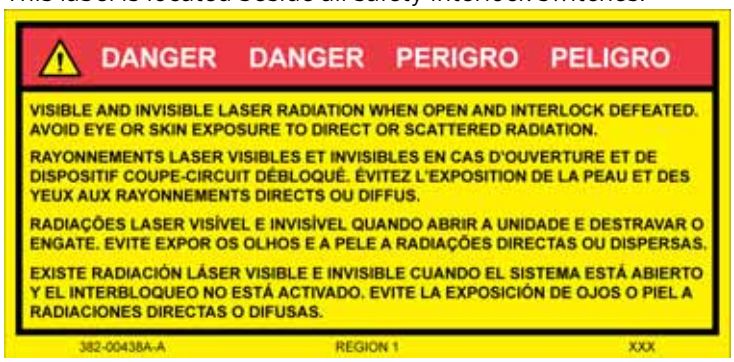


Figure 49: Door Interlock Danger label



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

General Safety Labels

High Touch Current Label

This label is located in two places:

- On the lower-left side plate of the output device, near the appliance inlet
- Near the Identification label

  See Figure 37 on page 85 for the location of the Identification label.



Figure 50: High Touch Current label

Hazardous Moving Parts Warning Label

This label is located:

- On the frame at the front, below the drum (two labels—one on each side)
- On the frame right side
- On the frame left side



Figure 51: Hazardous Moving Parts Warning label

Translation of above label:

Warning! Hazardous moving parts. Keep fingers and other body parts away.

Beware of Moving Parts Caution Label

This label is located on both sides of the table and on both sides of the drum under the flash cover.



Figure 52: Beware of Moving Parts Caution label

Beware of Moving Parts When Interlock Overridden Label

This label is located internally in four places:

- On the top panel of the exposure head
- On the left side of the engine
- On the frame at the front, below the drum (two labels—one on each side)



Figure 53: Beware of Moving Parts When Interlock Overridden label

Hazardous Voltage Label

The Hazardous Voltage label is located in two places:

- On the service access of the card cage
- On the service access cover over the on/off circuit breaker and appliance inlet



Figure 54: Hazardous Voltage label

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

C

Regulatory Compliance

Electrical and Mechanical Safety 96
Laser Safety 98
EMI/EMC Compliance 98
Noise Emissions 98

Electrical and Mechanical Safety

The ThermoFlex Wide I has been designed, tested, and evaluated for compliance with the following electrical and mechanical safety standards:

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

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

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

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

EC Declaration of Conformity

CREO PRODUCTS INC.
3700 GILMORE WAY, BURNABY, BC CANADA V5G 4M1
TEL (604) 451-2700
FAX (604) 437-9891

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 Products Inc,** 3700 Gilmore Way, Burnaby, BC, Canada, V5G 4M1.
Signature / Date:	Roger Lines April 2, 2001
Name / Title	Roger Lines, Director, Output Devices
Factory:	**CreoScitex**, A Division of Creo Products Inc,
	1608 Cliveden Ave, Delta, BC, Canada, V3M 6P1.

declares, that the product:

Product:	Imaging Device.
Model:	ThermoFlex.
Rating:	Input rated 200-240 Vac, 50/60 Hz, 12 A, cord connected, Class 1 (grounded).

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

EN 292-1: 1997, EN 292-2: 1997 + A1 +A2.
- Safety of Machinery.

EN 60204-1: 1997 + A1.
- Electrical Equipment of Industrial Machines.

EN 60950: 1992 + A1 + A2 + A3 + A4 + A11.
- Safety of Information Technology Equipment Including Electrical Business Equipment.

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

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

EN 50082-2: 1995.
- EMC, Generic Immunity Standard, Industrial Environment.

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 Products Inc is registered to ISO 9002.

European Contact:	Mr. Alon Lumbroso; General Manager,
	CreoScitex, European Headquarters, Waterloo Office Park,
	Building E-F, Dreve Richelle 161, 1410 Waterloo, Belgium.
	Tel: 32-2-3522511, Fax: 32-2-3510915.

Figure 55: EC Declaration of Conformity

Laser Safety

The ThermoFlex Wide I has been designed, tested, and evaluated for compliance with the following laser safety standards:

- U.S. Federal Regulations 21 CFR 1040.10 and 1040.11, in accordance with the regulations of the Center of Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration
- EN 60825-1, *Safety of Laser Products*

The Class 1 Laser Product label on the output device indicates compliance with these standards. See Appendix B, *Labels* for an example 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 ThermoFlex Wide I has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. You will be required to correct the interference at your own expense.

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

The ThermoFlex Wide I 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 / CISPR-22, Class A
- EN 50082-2
- EN 61000-3-3

Noise Emissions

The ThermoFlex Wide I 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 ThermoFlex Wide I will not exceed 69 dB(A) at one meter in a free field.

Glossary

ablate	During the imaging process, parts of the media are released as dust and particles into the atmosphere.
CMYK	Cyan, Magenta, Yellow, and Black. Printing colors for process color production.
densitometer	A device that is sensitive to the amount of light transmitted or reflected by paper of film. It is used to check the accuracy, quality, and consistency of output.
dot gain	In printing, a defect in which dots print larger than they should, causing darker tones and stronger colors.
drum	The device inside the output device on which a plate is mounted for imaging by the laser.
error message	When a system operation error occurs, an error message appears in Print Console and the system shuts down. You have to resolve the problem before you can continue with regular operations.
exposure head	See *imaging head*.
file	An electronic text description of one or more images, using the TIFF format.
film	A cellulose-type media upon which an image is exposed. The ThermoFlex Wide I produces one exposed film per image. See also *media*.
flash cover	A cover on the top front of the output device that provides drum access. Slide the flash cover open (to the front of the output device) to load and unload a medium, and clean the drum.
GATF	Graphic Arts Technical Foundation.
image	An electronic bitmap that is plotted onto a printing media. The output device receives images from the workstation and produces exposed, undeveloped media.
imaging head	The device that uses a laser to write data to media. Also called an *exposure head*.
imposition	A means of arranging pages on the front and back of a press sheet to ensure the correct order after the printed sheet is folded and trimmed.
media	The physical material—plates or film—onto which images are plotted.
media type	Refers to a particular manufacturer's media. Media types are configured during installation of the output device by Creo service representative.

native application file A file for a job that was created using a page layout application, such as QuarkXPress®.

output device A platesetter, proofsetter, or filmsetter that is part of a Creo imaging system.

page imposition The process of printing several pages onto one sheet of media to minimize the amount of trimming required.

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.

PDF Portable Document Format. Adobe System's PDF is a reliable file format for storing line art, images, and text (including all required fonts) for pages.

plate A metallic media upon which an image is exposed. Printing plates can be made from metal, plastic, rubber, or paper. See also *media*.

plate processor Equipment that can be used with the ThermoFlex Wide I to develop plates. Also called a developer.

plate type Refers to the media type and the media size and thickness.

PostScript A page description language developed by Adobe Systems that is sued to describe type and visual elements so that they can be output on devices with PostScript interpreters.

PostScript file A file written in a page description language created from a native application file.

PPD file PostScript Printer Description file. A computer file containing information on the parameters and options associated with a specific PostScript output device, such as the ThermoFlex Wide I.

Print Console A device control software that delivers files to the output device for imaging. Print Console creates a rasterized image of a PostScript file—a PostScript Level 3 software RIP (raster image processor). The software RIPs PostScript files to create the images that are exposed onto media.

process colors See *CMYK*.

prompt number The error number that identifies workstation messages, typically error messages.

raster Digitized (bitmapped) images defined pixel by pixel in rows and columns. See also *RIP*.

registration The alignment of different plates to produce one printed image.

resolution The degree of detail with which an image is reproduced, usually measured in dots per inch (dpi) or lines per inch (lpi). The higher the resolution, the greater the detail in which the image will be produced.

RGB	Red, Green, and Blue color model used by computer monitors to display color.
RIP	Raster Image Processor. Creates bitmap images from PostScript files which are then sent to an output device for imaging.
SCSI	Small Computer System Interface. This type of connection is used to send image data from the workstation to the output device.
spot color	A color which requires a special ink—that is, an ink which cannot be created by using process colors.
submitting	The process of putting a file in the queue for imaging.
suspend condition	A condition that prevents the output device from continuing to image a media.
SWOP	Specifications for Web Offset Publications.
thermal	Creo SQUAREspot™ thermal imaging technology.
throughput	The efficiency with which images are interpreted and produced.
TIFF	Tagged Image File Format files.
UDRC	See *Universal Debris Removal Cabinet*.
UGRA	Swiss Association for the Promotion of Research.
UPS	Uninterruptible Power Supply. A device used to supply power temporarily to the workstation during a power failure.
Universal Debris Removal Cabinet	The Universal Debris Removal Cabinet is the key component of the debris removal system. It consists of the filter compartment, plastic enclosure, filter(s), blower, and electrical controls.
vignette	A design element whereby gradations of color are displayed throughout an object in an image.
workstation	A high-speed computer running the Windows NT® operating system and Print Console. It is connected to a local area network (LAN) over which it receives TIFF files.
workstation software	See *Print Console*.

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