

ThermoFlex Wide II Sheet Mode

Operator Guide

English

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Safety

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Who Should Use This Operator Guide

This guide is intended for anyone who uses or administers KodakThermoFlex® Wide II Sheet Mode platesetter. It explains how to use the software and points out procedures that are specific to your ThermoFlex Wide II Sheet Mode system.

To use this guide, you should:

- Have a working knowledge of prepress operations
- Be familiar with the Microsoft® Windows® operating system
- Be familiar with the Apple® 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 system are free of common errors usually resolved during preflight, such as missing fonts and Adobe® PostScript® errors.

For More Information

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Dangers, Warnings, and Cautions

All danger, warning, caution, and notice paragraphs provide you with safety information. Disregarding safety information can result in personal injury to you or damage to your equipment.



DANGER: Indicates a hazardous situation, which, if not avoided, will result in death or serious injury.



WARNING: Indicates a hazardous situation, which, if not avoided, could result in death or serious injury.



CAUTION: Indicates a hazardous situation, which, if not avoided, could result in minor or moderate injury. It may be used to alert against unsafe practices.

NOTICE: Indicates a property damage message. This word is not used with safety messages.

Important Notes on Safe Operation

Before using the ThermoFlex output device, you *must* read the *ThermoFlex Output Devices Safety Guide*.

If you do not understand something in the safety guide, ask your service representative for an explanation.

This operator guide and the printed visual reference guide for your output device provide recommended procedures for all the operating and maintenance tasks that you can safely perform. The procedures include any safety precautions that apply.

When using the ThermoFlex Wide II Sheet Mode, you *must* follow *all* of the safety precautions and recommended procedures described in this operator guide, the visual reference guide, and the *ThermoFlex Ouput Devices Safety Guide*.



WARNING: Your failure to read, understand, and follow the information in the safety guide, this operator guide, and the visual reference guide for your output device may result in the incorrect operation of your output device and could create a dangerous situation. This could result in serious injury as well as damage to the output device.

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System Overview

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

ThermoFlex Wide II Sheet Mode System

ThermoFlex Wide II Sheet Mode is a high-speed, multi-purpose, computer-to-media device that is developed and manufactured by Kodak Graphic Communications. It is compatible with prepress and flexographic platemaking environments. This device is ideal for trade shops that need the flexibility to produce plates and film for their customers. With this device, you can run digital plates, depending on job requirements.

The device receives raster data from the workstation for imaging onto a media that is loaded onto the imaging drum from the load table. After imaging, the media is unloaded from the drum back onto the table.

System Components

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

- Device
- Drum vacuum pump system
- Chiller
- Universal Debris Removal Cabinet (UDRC)
- Workstation
- TIFF Front End software

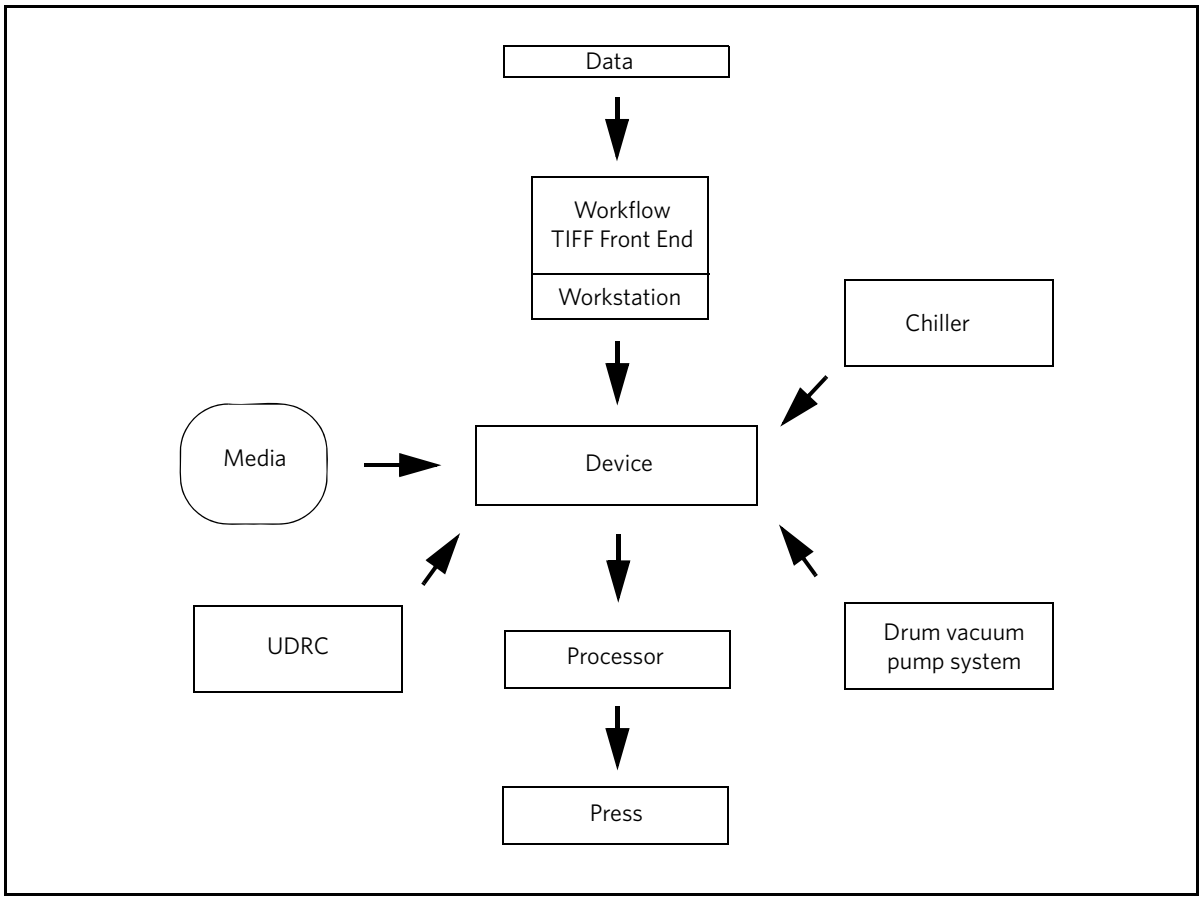


Figure 1: ThermoFlex Wide II Sheet Mode components

This guide contains information about the ThermoFlex Wide II Sheet Mode 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
- *Merlin Recirculating Chillers Thermo NESLAB Manual*
- *Universal Debris Removal Cabinet Operator Guide*

Device

This section shows the parts of the ThermoFlex Wide II Sheet Mode device.

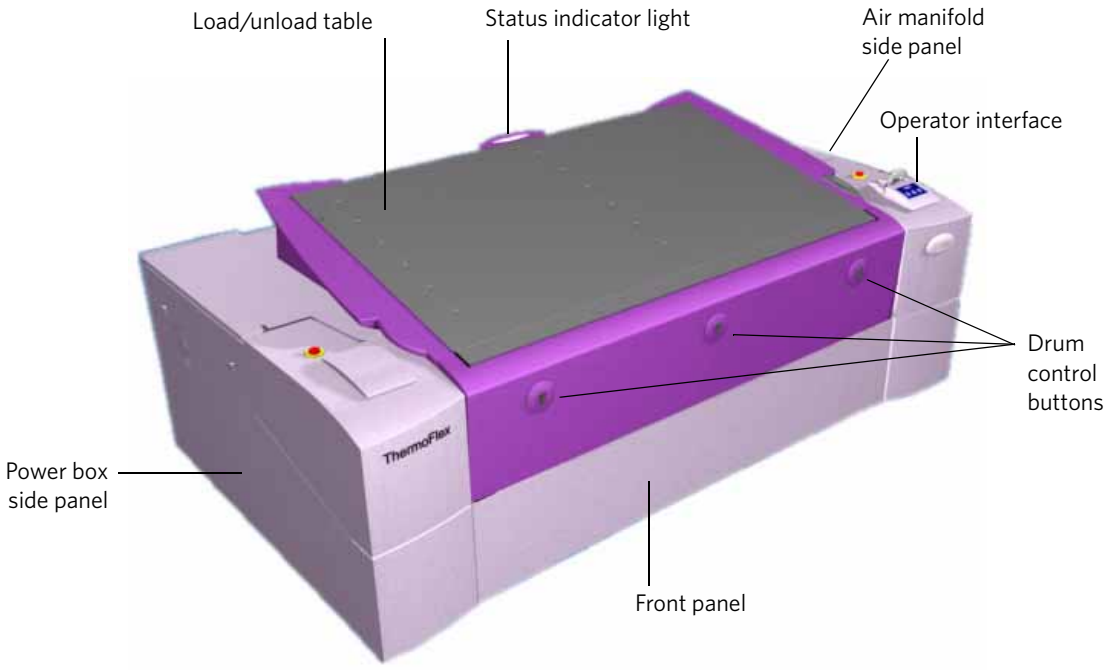


Figure 2: Front view of the device

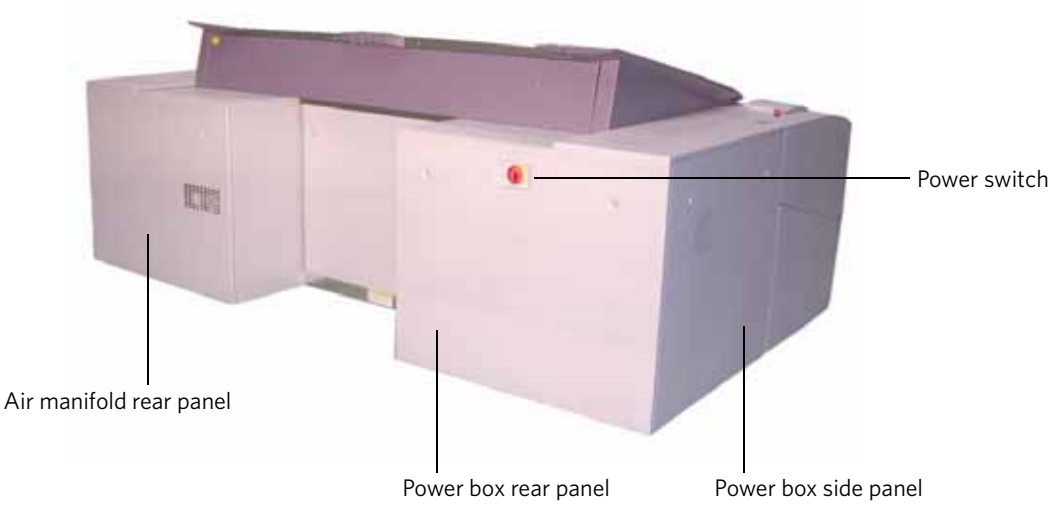


Figure 3: Rear view of the device

Important: Do not open the 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 upper-right front of the device, includes:

- Buttons for operating the device
- Status indicator light

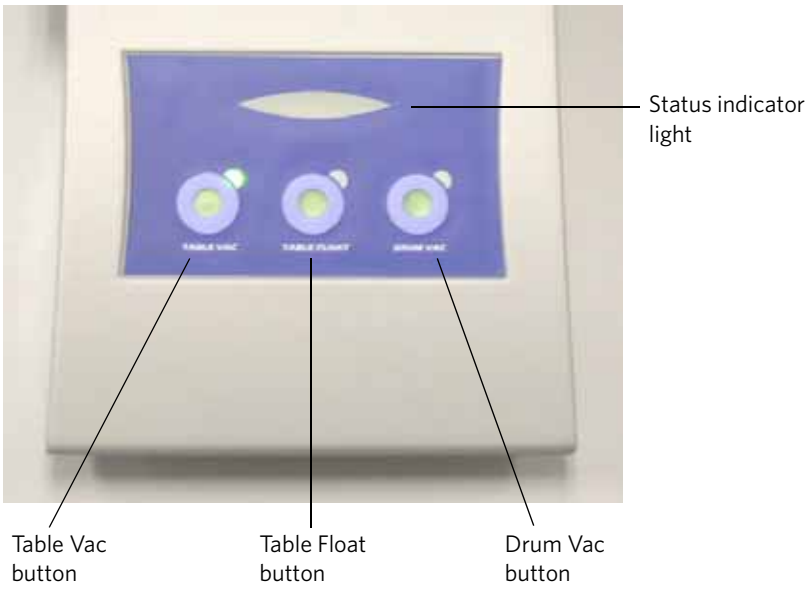


Figure 4: Operator interface

Table Vac Button

The Table Vac 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 media is held in place on the table, it is easier to remove the cover sheet.

Press this button to turn on the table vacuum. Pressing the Table Vac button will turn off the Table Float button.

Table Float Button

The Table 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. Pressing the Table Float button will turn off the Table Vac button.

Drum Vac Button

The Drum Vac button creates a vacuum that helps to hold the media on the drum.

Press this button to turn on the drum vacuum.

Drum Control Buttons

For the location of the drum control buttons, see Figure 2 on page 8.

Use these buttons to:

- Rotate the drum to wrap tape around it before loading media.
- Rotate the drum to load and unload media.
- 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.

To rotate the drum, simultaneously press any two of the drum control buttons within 0.5 seconds of each other. The drum should rotate slowly.

Pressing any two of the drum control buttons is a safety measure designed to keep both hands away from the spinning drum.

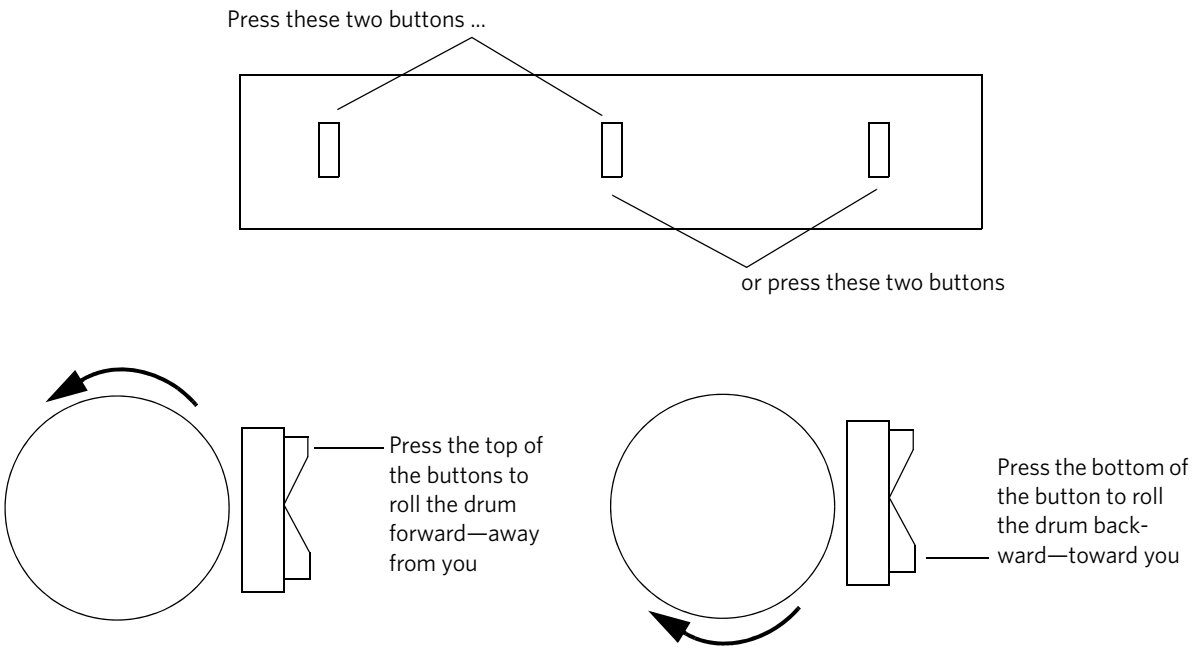


Figure 5: Drum control buttons—how they work

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.

Status Indicator Lights

Status indicator lights are located in two locations:

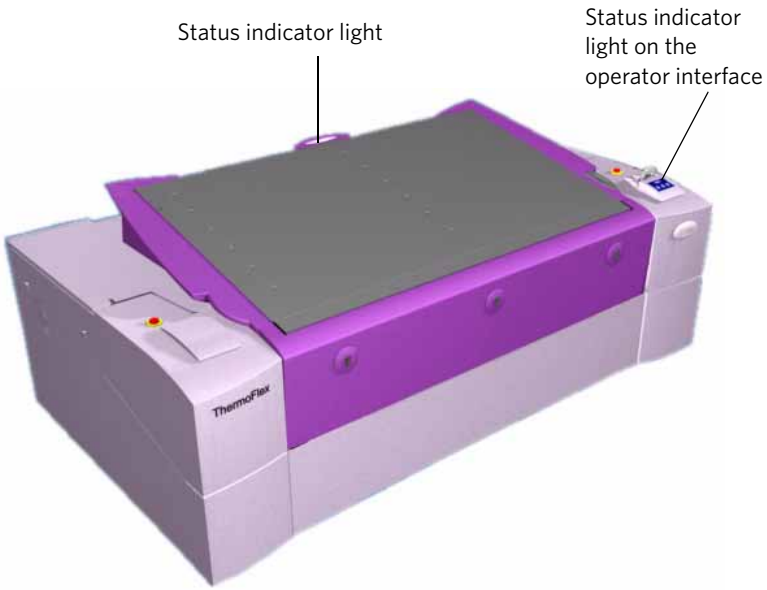


Figure 6: Status indicator lights

The status indicator lights either glow a solid color or flash in a particular color. Each color, and whether it glows or flashes, indicates a specific state of the device.

Table 1: What the status indicator lights mean

Status indicator light	Means ...
Off	The device is idling. Submit a job in the Kodak Print Console software when you're ready.
Solid blue	Action required—open the load/unload table.
Solid green	Wait—the device is imaging media.
Flashing green	Wait—imaging is almost complete.
Flashing blue	Urgent action required—unload media.
Flashing yellow	An error has occurred and the job is suspended. Press **Media Removed** or **Resume**[1].

[1]The workstation displays specific information about the error.

External System Components

The ThermoFlex Wide II Sheet Mode system includes the following components in addition to the device and workstation.

Drum Vacuum Pump System

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

- The drum vacuum drive panel controls the operation of the drum vacuum pump. It is wall-mounted near the device. The drum vacuum pump drive panel is connected to the device by a control signal serial 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 device, because it generates a significant amount of heat. The drum vacuum pump enclosure is connected to the device by a 51 mm (2 in.) diameter vacuum hose.

Chiller

The chiller is attached to the device and is used to maintain a constant temperature within the thermal head. The chiller is connected to the device by two coolant hoses and a power cable. The chiller operation is controlled by the 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 used to remove airborne emissions released by certain types of media during imaging.

The UDRC is available in two configurations:

- UDRC-B
- UDRC-L.

The B configuration has a particulate filter and is vented externally. The L configuration has a particulate filter and a chemical filter and is vented indoors.

The cabinet is connected to the device by a vacuum hose and a data cable.

For more information, see the *Universal Debris Removal Cabinet Operator Guide* (03-4200) and *Replacing the UDRC Filters* on page 55.



Figure 8: UDRC

Environmental Specifications

The ThermoFlex Wide II Sheet Mode should be installed in a clean prepress area (in accordance with *ThermoFlex Sleeve Device Site Preparations and Requirements Guide* (73-3186)).

The ThermoFlex Wide II Sheet Mode device requires the following operating conditions:

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

For information on noise emissions in an office environment, see the *ThermoFlex Output Devices Safety Guide*.

Required Operating Conditions

The ThermoFlex Wide II Sheet Mode device uses a thermal imaging head and does not require a darkroom.

Maintenance Supplies

Your device requires the following maintenance supplies:

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

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

Table 2: Maintenance supplies from Kodak

Item	Description
Debris filters	The ThermoFlex Wide II Sheet Mode is equipped with a debris removal system. See *Replacing the UDRC Filters* on page 55.
Intake air filter	Filters that are used in the device to maintain the air quality. See *Intake Air Filter* on page 53.
Air supply filter kit	This kit contains the particulate and coalescing filters for the compressed air supply. See *Compressed Air Supply Filters* on page 45.

Table 3: Maintenance supplies from other suppliers

Item	Description
Media	Flexographic plates and film. See *Supported Media* on page 15.
Tape	The recommended brand is Scotch® tape—3M 471 plastic tape. Other tape should be used only with Kodak's approval.

Media

Supported Media

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

On installation, the 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.

The ThermoFlex Wide II Sheet Mode supports the following media:

Table 4: Media supported

Media type	Type of media
Dupont Digital Cyrel®	Thermal laser-ablative mask photopolymer plates
BASF Digiflex™	Thermal laser-ablative mask photopolymer plates
MacDermid (Polyfibron) Flex-Light® CBU Digital EPIC	Thermal laser-ablative mask photopolymer plates
Asahi AFP®	Thermal laser-ablative mask photopolymer plates



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 II Sheet Mode device equipped with a thermal imaging head. Failure to use approved thermal media can seriously damage the device.

Media Sizes Supported

The ThermoFlex Wide II Sheet Mode supports the following media sizes. The thicknesses allowed are 0.76 mm–6.35 mm (0.030 in.–0.250 in.).

Table 5: Media sizes supported

ThermoFlex Model	Maximum Media Size Supported	Minimum Media Size Supported
3648	1219 mm x 914 mm 48 in. x 36 in.	305 mm x 381 mm 12 in. x 15 in.
5067	1067 mm x 1524 mm 42 in. x 60 in.	305 mm x 381 mm 12 in. x 15 in.
5280	1320 mm x 2032 mm 52 in. x 80 in.	305 mm x 381 mm 12 in. x 15 in.

Media Orientation

You can load media in landscape or portrait orientation. To properly configure your media in TIFF Front End software, you should understand the dimensions of the media as it is imaged in the device. See Figure 12 for an illustration of this concept.

Media Dimensions

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

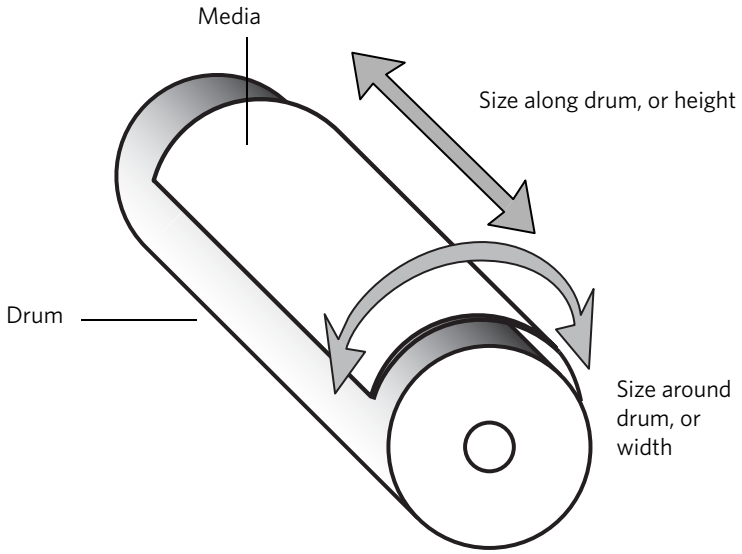


Figure 9: Media dimensions—landscape orientation



CAUTION: The 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 media setup), but the correct size around the drum, the 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 device.

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Turning On the ThermoFlex Wide II Sheet Mode System

Warm-up Time

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

To turn on the device:

1. Ensure that the workstation is turned on.

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

2. Start Print Console.

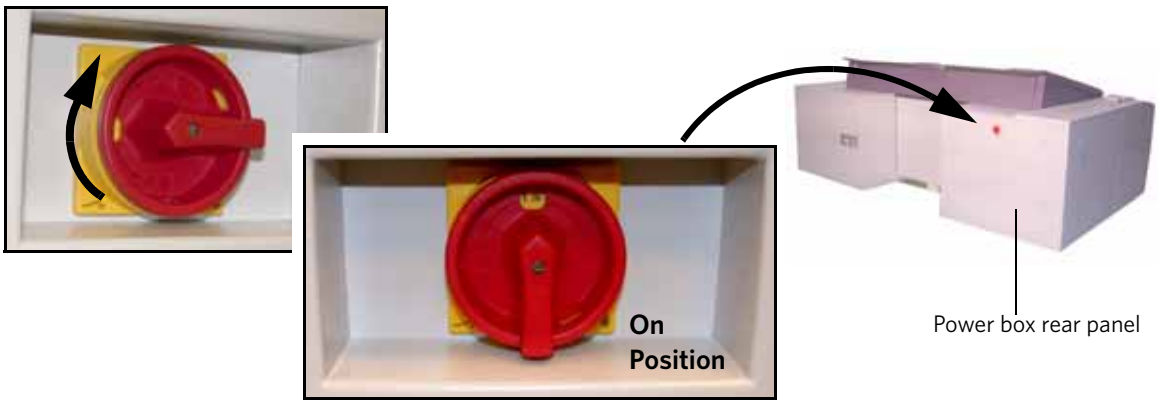


Figure 10: Turning the power switch to the On position

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

When the device is ready, the status indicator light on the operator interface is off.

Turning Off the ThermoFlex Wide II Sheet Mode 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 device, remove all media from the drum.

To turn off the device:

1. Turn off the device by turning the power switch counterclockwise.

   The power switch is located at the rear of the device, on the power box rear panel.

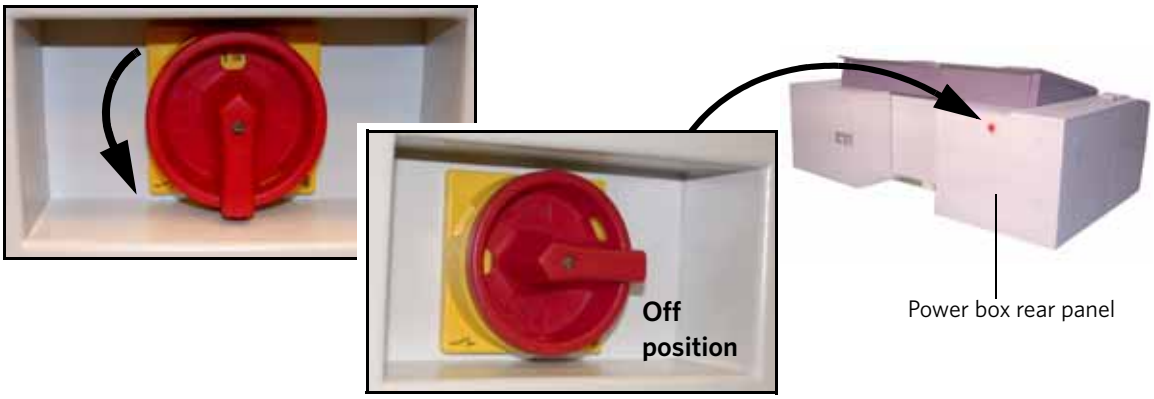


Figure 11: Turning the power switch to the Off position

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 II Sheet Mode, see *Media Sizes Supported* on page 15.

CAUTION: Failure to use approved thermal media can seriously damage the device. Do not use non-approved or light-sensitive media in a ThermoFlex Wide II Sheet Mode 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 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 device. Otherwise, the thermal laser could ignite the paper, causing a fire in the device.

5. When prompted, open the load table by sliding the table handle.



Figure 12: Slide the table handle forward

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

6. If necessary, use the drum control buttons to move the drum so that the leading-edge registration bar is visible on the top of the drum.

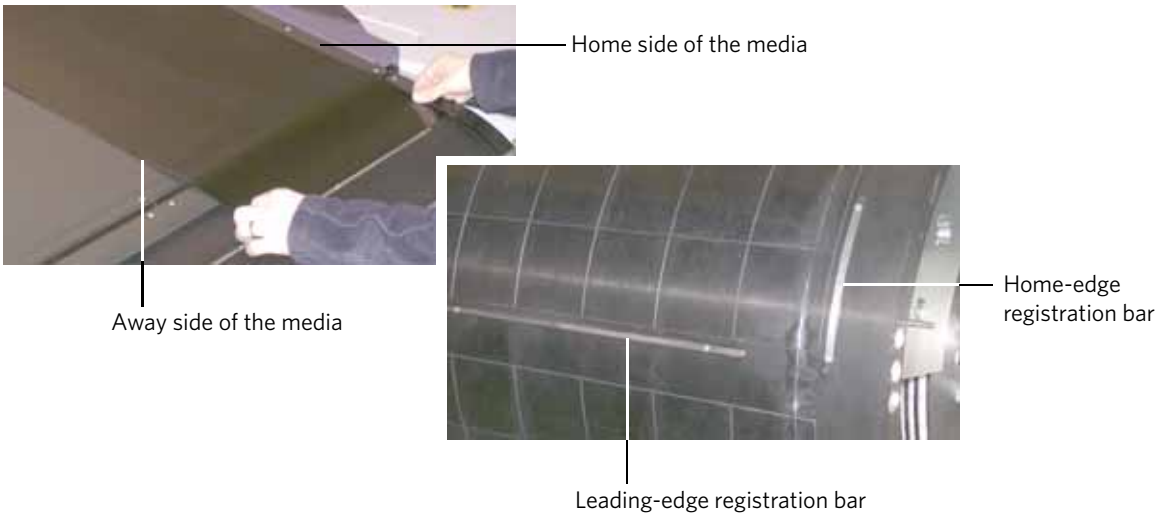


Figure 13: Leading-edge, home-edge, away side, and home side

7. Roll a piece of tape around the drum where the away side of the media will end (Figure 13 shows where the away side is located).

   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 in.) longer than the length of the media. Position the tape so that 12.5 mm (0.5 in.) will lie underneath the media and the other 12.5 mm (0.5 in.) 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 brake switch to Brake Override, so that the drum can spin freely.

   a. Slide the tape dispenser on the underside of the front panel to the spot that marks the width of the media.

   b. Place the beginning of the tape on the drum against the leading-edge registration bar.

   c. Push the top of the two drum control buttons to roll the drum forward. Release the buttons when the drum stops rotating—the tape is wrapped around the drum.

   d. 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.



Figure 14: Tape around the drum

8. Push the bottom of the two drum control buttons 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.
   - The Drum Vac button flashes.
   - The status indicator light flashes.

9. Position the media on the load table.



Figure 15: Position the media on the load table

Larger Media

10. For plates larger than 500 mm (20 in.) x 500 mm (20 in.), press the Table Vac button to turn on the table vacuum.
11. Remove the media cover sheet.

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



Figure 16: Remove the media cover sheet

12. Press the Table Vac button to turn off the table vacuum.
13. Place the media on the drum against the home-edge registration bar and the leading-edge registration bar.

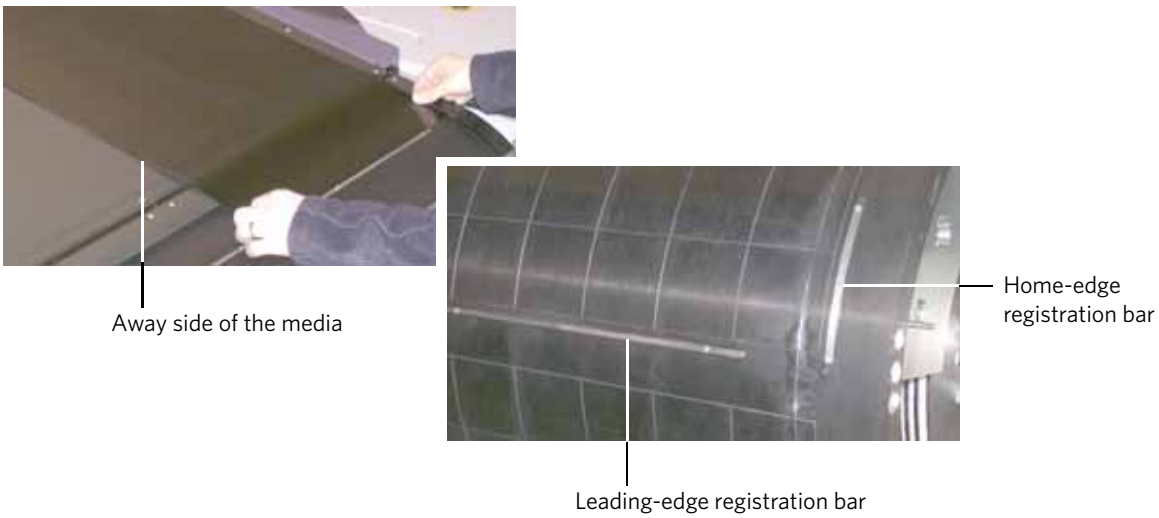


Figure 17: Positioning the media

14. 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.

15. Tape down the leading-edge of the media. (Use the tape dispenser on the operator interface.)

    Ensure that 12.5 mm (0.5 in.) of the tape is on the surface of the media and 12.5 mm (0.5 in.) is exposed on the drum (see Figure 19 on page 25).

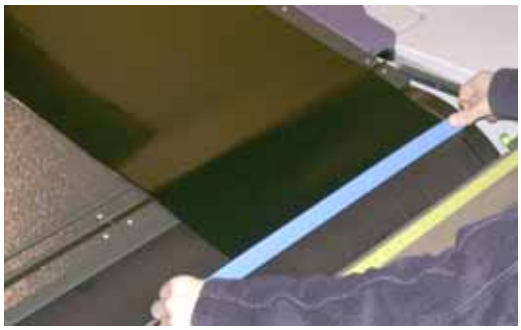


Figure 18: Tape down the leading-edge of the media

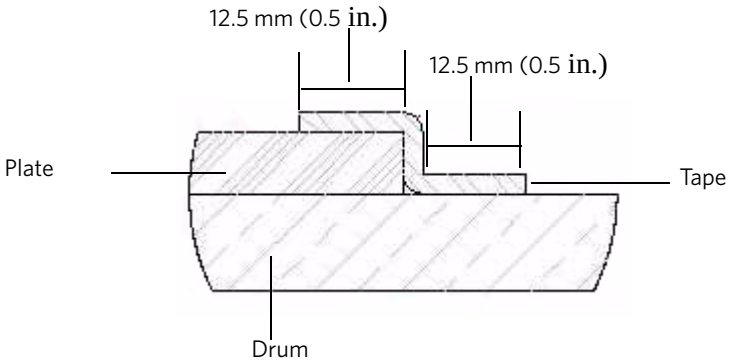


Figure 19: Taping media to the drum

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

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



Figure 20: Tape down the trailing-edge

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

a. Place a 127 mm (5 in.) 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 in.) 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).

19. Conduct a media inspection.

    See *Inspecting Loaded Media*.

20. Close the load table.

    The imaging process starts automatically.

Tape

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



CAUTION: You must use Scotch 3M 471 plastic tape. Use of other types of tape could damage the device and/or cause a fire.

To replace the tape under the front panel:

1. Ensure the device is not imaging media.
2. Move the tape dispenser all the way over toward the headstock.

   You don't want to damage the drum when replacing the roll of tape.
3. Replace the roll of tape.

Inspecting Loaded Media

The ThermoFlex Wide II Sheet Mode 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 must cancel the job and do an unload. This allows the device to reset itself and is also a safety precaution.

To inspect a loaded media:

1. Rotate the drum (in either direction) by pressing two of the drum control buttons.
2. Check the media using raking light (a 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 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 two of the drum control buttons 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 28.
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 and corner taping, if required).

Unloading Media

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

To unload a media after imaging:

1. Ensure that the device has finished imaging.

   When imaging is finished:

   - Print Console displays the Unload dialog box.
   - The status indicator lights glow a solid blue (until you open the table).

2. Slide the load/unload table forward.
3. Lift up the flap cover.

   See Figure 21.

4. Remove the trailing-edge tape from the media. If required, remove the corner tape.

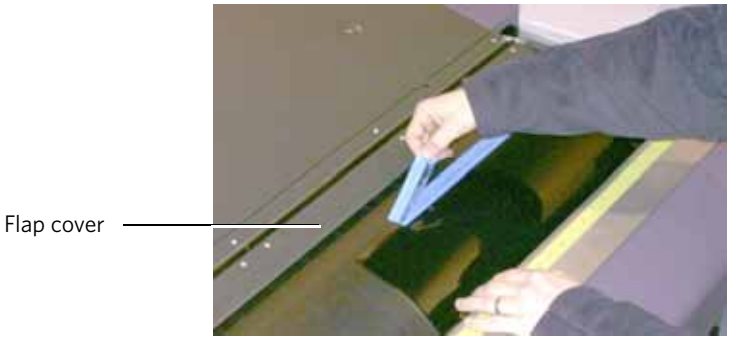


Figure 21: Remove the trailing-edge tape

5. Lift up the edge of the media while lowering the flap cover and then lower the media.

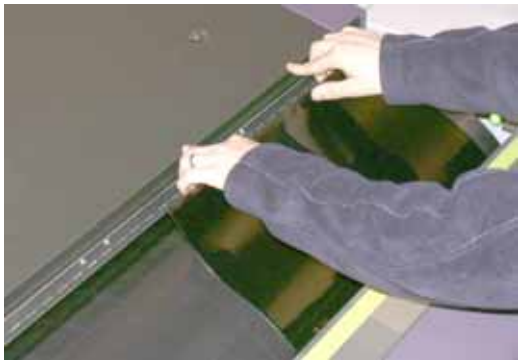


Figure 22: Moving the media over the flap cover

The edge of the media now sits on top of the flap cover.

6. Press the top of two drum control buttons to roll the drum forward.

   The media rolls onto the unload table. As soon as the device detects the media, the table float comes on automatically.

7. When the drum stops, remove the corner tape and leading-edge tape.

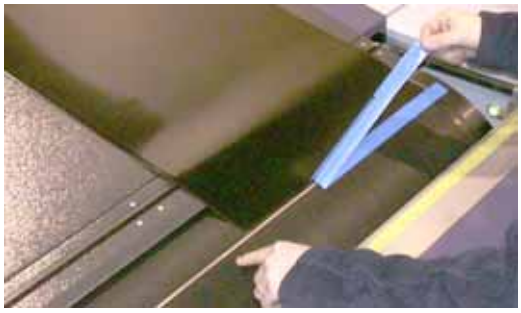


Figure 23: Remove the leading-edge tape

8. Move the media fully onto the unload table.
9. Press the Table Float button to turn off the table float.
10. Move the media to an exposure table.

4 Maintenance

Maintenance Schedule 32
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Cleaning the Debris Removal Nozzle 37
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Replacing the UDRC Filters 55

This chapter describes the standard maintenance procedures that are required to keep the ThermoFlex Wide II Sheet Mode device operating properly.

Maintenance Schedule

Table 6 on page 33 outlines the maintenance required to achieve optimum performance and quality from your device. Failure to perform this maintenance can result in poorer performance and can cause serious damage to your device. Although it requires several hours of scheduled downtime, regular maintenance ensures that your device is properly maintained and minimizes unscheduled downtime.

Keep records of when you perform maintenance on the device.

If you have a Kodak service contract, you should schedule service visits by a 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 device is not imaging media and turn off the device. If you turn off the 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 43
Daily	Table surface	Clean	See page 35
Weekly	Debris removal nozzle	Clean	See page 37
Weekly	Exterior surfaces	Clean	See page 34
Weekly	Intake air filter	Inspect	See page 53
Monthly	Compressed air filter bowls	Clean	See page 45
Monthly	Drum vacuum grooves/holes	Clean	See page 43
Monthly	TFX Head window	Inspect	See page 40
Every three months	Intake air filter	Replace	See page 53
Every six months	Compressed air supply filters	Replace	See page 45
Every six months	External chiller coolant	Check	See the *Chiller Operator Manual*
As needed	UDRC filters	Replace	See *Replacing the UDRC Filters* on page 55 and the *Universal Debris Removal Cabinet Operator Guide*

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

- 1.5-mm hex key wrench
- 3-mm hex key wrench
- #4 flathead screwdriver
- 6-in. adjustable wrench
- Flashlight

Supplies

- 100 percent pure isopropyl (denatured) alcohol
- 50 percent solution of isopropyl alcohol and water
- Glass cleaner
- Clean dry cloths
- Lint-free rags or tissues
- Long-handled cotton swabs
- Latex gloves
- Antistatic spray
- WD-40 or other light oil

Cleaning Exterior Surfaces

Clean the exterior of the ThermoFlex Wide II Sheet Mode weekly.

Cleaning the exterior surfaces of the 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, air manifold rear panel, air manifold side panel, and the power box side panel.

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

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

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



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

Regular maintenance and troubleshooting require access to some internal areas of the 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.

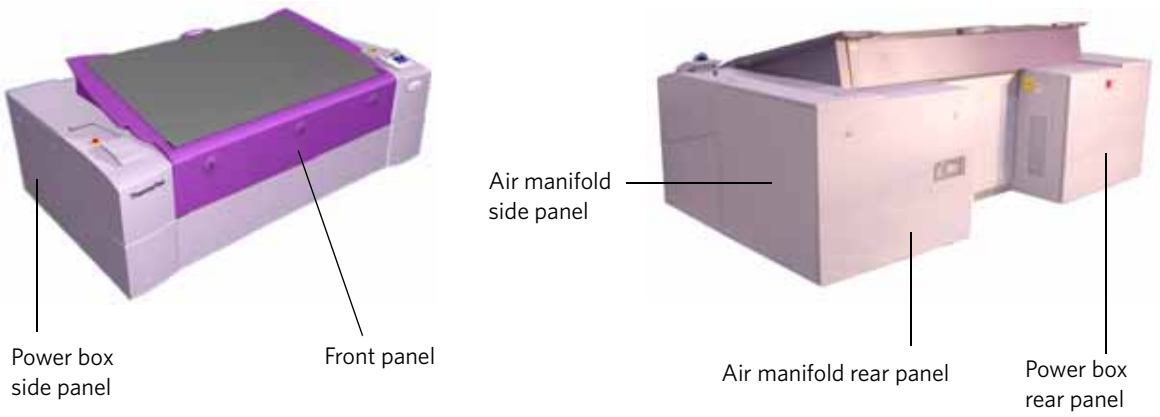


Figure 24: Panels to access the interior

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

- To access the drum, open the front panel.
- To access the compressed air supply filters, open the air filter rear panel.
- To access the circuit breaker switch, open the power box side panel.

Important: You cannot access the power box rear panel on the device when the power is on. It should be removed only by a service representative.

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

Opening and Closing the Front Panel

Before opening the front panel, make sure that nothing is on top of the front panel.

You must open the front panel to remove a partially loaded media if it cannot be unloaded onto the table. See *Unloading a Stuck Media From the Drum* on page 69.

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

To open the front panel with air connected:

1. Push the table handle away from you to slide the load table open.

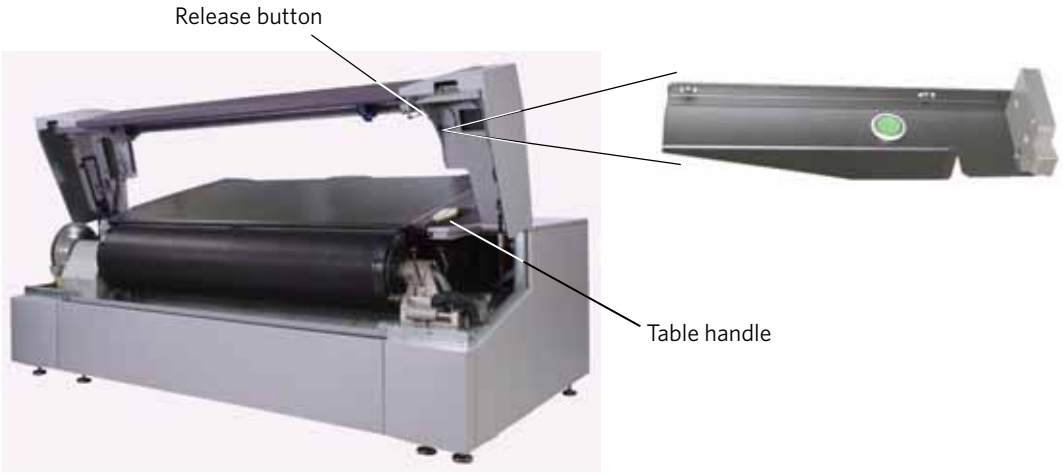


Figure 25: Raised front panel

2. Press the Release button on the inside front panel to unlock the panel.
3. Lift the front panel.

To open the front panel without air connected:

➢ Insert a T-handle hex key into the hole on the right side of the panel to disengage the latch. The hex key handle must be pushed downwards to lift the latch.

To close the front panel:

The kicker cylinder retracts very slowly. Do not attempt to force the cover closed faster than the kicker cylinder will allow.

1. Close the front panel.

   Ensure the front panel is fully closed and latched.

2. Slide the load/unload table closed.

Removing and Replacing the Access Panels

Remove the following access panels for access to:

- Power box side panel—access to the circuit breaker
- Air manifold rear panel—access to the compressed air supply filters

To remove an access panel:

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

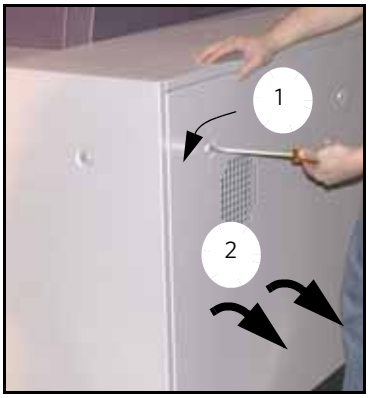


Figure 26: Removing an access panel—power box rear panel shown

To replace an access 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.

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 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**.

   This command places the TFX Head in an easily accessible position on the tailstock side of the device.
3. Open the front panel.

   See *Opening and Closing the Front Panel* on page 36.

   The debris removal system is mounted in front of the thermal head as shown in Figure 27.

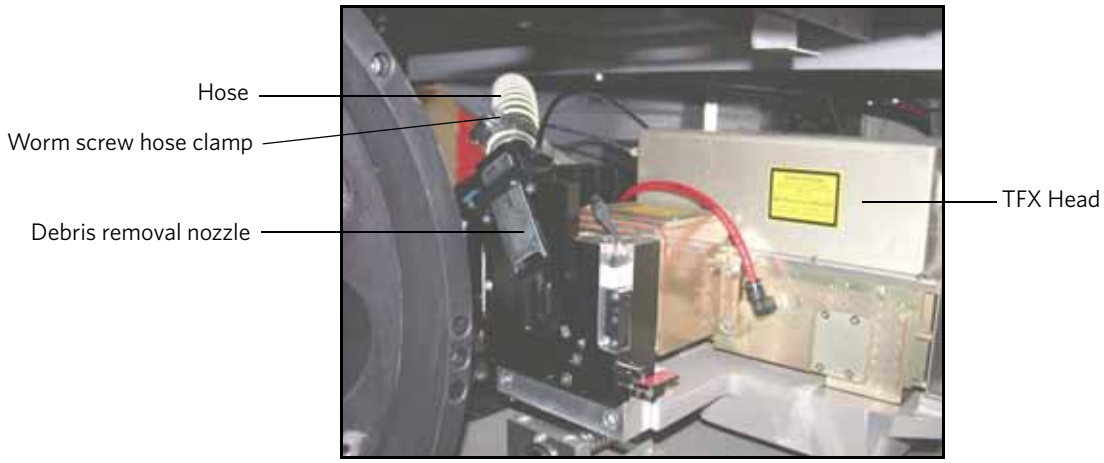


Figure 27: Debris removal assembly

4. Pull the debris removal nozzle (along its guides) and the attached hoses diagonally upward until they are clear of the debris removal block.

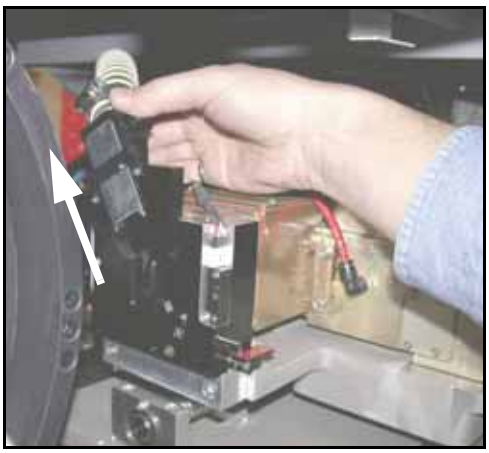


Figure 28: Pull up on debris removal nozzle

5. Release the worm screw hose clamp holding the vacuum hose to the debris removal nozzle (see Figure 27).
6. Remove the thin air pipe (nozzle pressure tap hose) from the nozzle at the quick release fitting.

   The debris removal nozzle is ready for cleaning.

WARNING: Do not image without the debris removal nozzle. The debris may be harmful to operators as well as 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. Using lots of long handled cotton swabs and a 50 percent 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.

3. 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 the future buildup of debris will occur more quickly—the debris will readily adhere to the wet surfaces.

To install the debris removal nozzle:

1. Reconnect the vacuum hose to the debris removal nozzle and tighten the worm screw hose clamp. The hose clamp must be oriented at the top of the nozzle so that it can slide into its slot.



Figure 29: Orient the clamp at top of debris removal nozzle

2. Reconnect the thin air pipe to the debris removal nozzle at the quick release fitting.
3. Slide the debris removal nozzle back into its guides until it is seated in the bottom of the slot.
4. Close the front panel.

   See *Opening and Closing the Front Panel* on page 36.

5. In Print Console, from the **Device** menu, select **Cancel Home**.

TFX Head Window

The TFX Head window should be inspected:

- Monthly
- When artifacts occur
- When the debris removal nozzle is found to be clogged during nozzle inspection.
- When the debris removal filter has not been replaced and is clogged.
- After a plate flyoff where the media has been shredded inside the device.

During normal usage, the TFX Head window may accumulate a layer of ablated debris. As this layer builds in thickness, it will affect the image quality and the ability of the head to function properly.

Important: Have the replacement window ready to be quickly unwrapped, but do not unwrap it until immediately before installing it on the head.

Removing the Window

1. Ensure the device is not imaging media.
2. In Print Console, from the **Device** menu, select **Home**.

   This command places the TFX Head in an easily accessible position.
3. Open the front panel.

   See *Opening and Closing the Front Panel* on page 36.

   The debris removal system is mounted in front of the thermal head (see Figure 30).
4. Remove the nozzle unit by pulling it diagonally upwards and away from the nozzle block assembly.

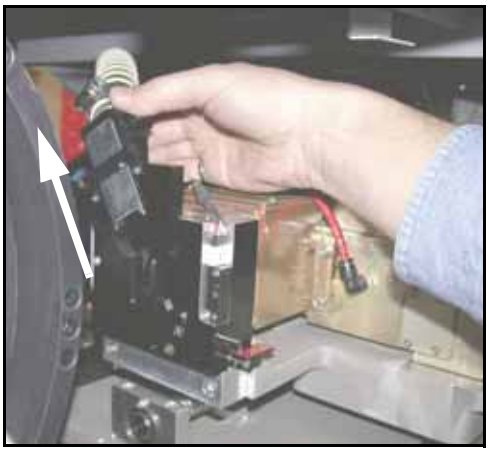
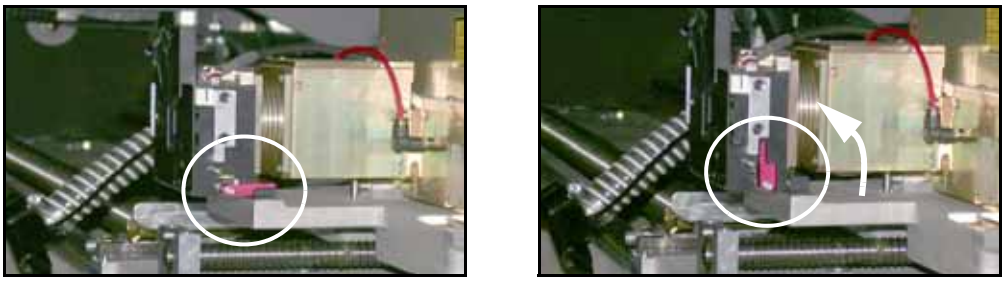


Figure 30: Remove the debris removal nozzle

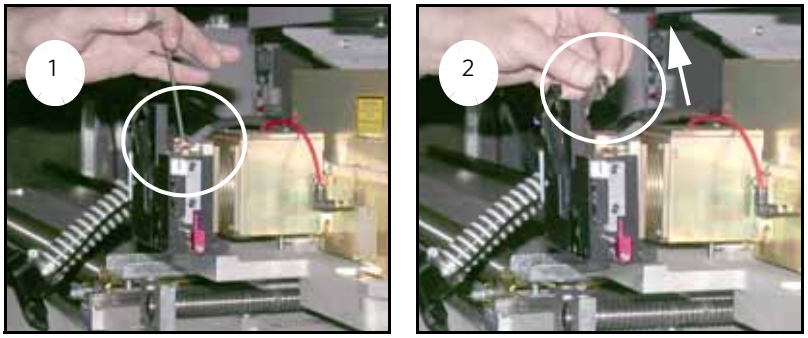
5. Turn the red release lever 90° counterclockwise (towards the drum) to the open position so that the nozzle block assembly moves away from the head.



Closed Open

Figure 31: Move release lever to open position

6. Loosen (do not remove) the capscrew securing the clamp bar and rotate the clamp bar up to the open position.



Capscrew Clamp

Figure 32: Accessing the window

7. 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.

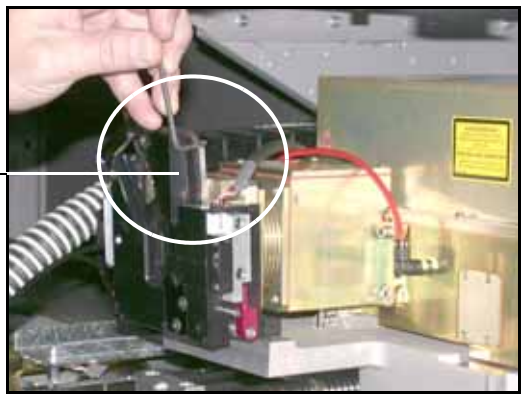


Figure 33: Remove the window

Important: 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.

Inspecting the Window

Inspect the window for excessive debris buildup or scratches by shining the light from a flashlight on the window at an angle that best shows the lens contamination or damage.

If the window is relatively clean of debris, install it back into the device without cleaning it. If the window needs cleaning, continue to the *Cleaning the Window* section, next. If the window is scratched or damaged in any way, replace it with a new one. See *Installing the Window* on page 43.

Cleaning the Window

Wear finger cots, powder-free latex, or nitrile gloves when handling the window. Hold it by the steel frame only—do not touch the glass surfaces. Use only HPLC grade acetone or IPA solvents for cleaning. Do not use Windex® spray, Methyl Ethyl Ketone (MEK), or Kodak lens-cleaning solutions.

To clean the window:

1. Dip a plastic-handled cotton swab in acetone or IPA.

   A quick shake after dipping often gets rid of any excess acetone. Keep the time between dipping and cleaning to a minimum, as solvents will dissolve the glue holding the swabs, and possibly the plastic rod as well, contaminating the surface.

   Note: Do not dip the swab into the container of solvent, as it will contaminate the remainder of the solvent in the container. Also, do not use wooden-handled swabs, because the solvent breaks down the glue on the swab and leaves residue on the lens.

2. Begin cleaning near the center of the lens and roll towards and across the edge.
3. Rotate the swab slowly against the surface as you wipe it, so that each part of the glass surface sees a new, clean portion of the swab. Apply light pressure, similar to the pressure applied when spreading mustard or mayonnaise on a slice of bread.

   The direction of rotation should be against the direction of the stroke. As the swab rotates, it brings clean solvent in contact with the surface. Do not rotate the swab more than 360° and only use each swab once. Typical cleaning can use in excess of 20 swabs.
4. Repeat the procedure until the entire lens surface has been cleaned.
5. Reinspect the window with the flashlight.

   If debris or streaking is still visible, clean the window again. It is not unusual to have to clean the window multiple times to get it clean.
6. Reinstall the window and continue with normal operation.

   See *Installing the Window*, next.

   Note: Fingerprints left on the glass surface must be cleaned immediately. Do not store a window with a fingerprint or smudge on the lens. Fingerprint oils are slightly acidic and will permanently etch the glass surface over time, causing permanent damage.

Installing the Window

1. If you are installing a new window, unwrap the window and blow it clean with clean, dry compressed air.
2. Using the same bent tool as before, slide the window down the front surface of the head nosepiece 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 nosepiece.

   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).



Figure 34: Window for TFX Head

3. Close the window clamp bar and tighten the clamp screw.
4. Rotate the release lever to the closed position.
5. Install the Debris Removal Nozzle.
6. Close the front panel.
7. In Print Console, from the **Device** menu, select **Cancel Home**.

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 media 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 device is not imaging media.
2. Open the front panel.

   See *Opening and Closing the Front Panel* on page 36.
3. Turn the drum brake switch to the Brake Override position.



Figure 35: Turn drum brake switch to override

4. Wipe the exposed surface of the drum using a lint-free cloth and 50 percent isopropyl alcohol solution.



Figure 36: Cleaning the drum

5. Rotate the drum by hand to expose another section of the drum for cleaning.
6. Repeat until entire drum surface has been cleaned.
7. Turn the drum brake switch to the Brake Operation position when complete.
8. Close the front panel.

Replacing Air Filters

There are two air filtration systems in the device:

- Compressed air supply filter system—two filters inside the air manifold rear 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 *Maintenance Schedule* on page 32.

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 a 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 two compressed air supply filters:

- 5-micron

  This filter is white.

- 0.01-micron (micro mist)

  This filter is black.

The filters are located inside the air filter rear panel. These filters clean and dry the compressed air that is supplied to the 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 personal injury and/or damage to the device.



Figure 37: Location of compressed air supply filter system

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 device. If a filter is allowed to fail, contaminants can damage the air system in the 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 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 personal injury or damage to the 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 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 II Sheet Mode is permanently damaged.

CAUTION: Failure to remove air pressure from the device before removing an air filter could result in the following problems:
• Unfiltered air in sensitive areas of the device, which will eventually degrade and damage the device.
• High-pressure air in the filter elements and bowl, making disassembly difficult and dangerous, resulting in possible personal injury and/or damage to the device.
• A very loud noise that could damage your hearing.

To inspect the filters:

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

   See Figure 38 on page 47.
3. Check the filter bowls for any accumulation of water or oil, and for any cracks in the filter bowl.

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

Replacing the 5-Micron Filter

Replace the 5-micron filter every six months.

To replace the 5-micron filter:

1. Ensure that the device is not imaging media.
2. Remove the air filter rear panel.

   See *Removing and Replacing the Access Panels* on page 37.

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

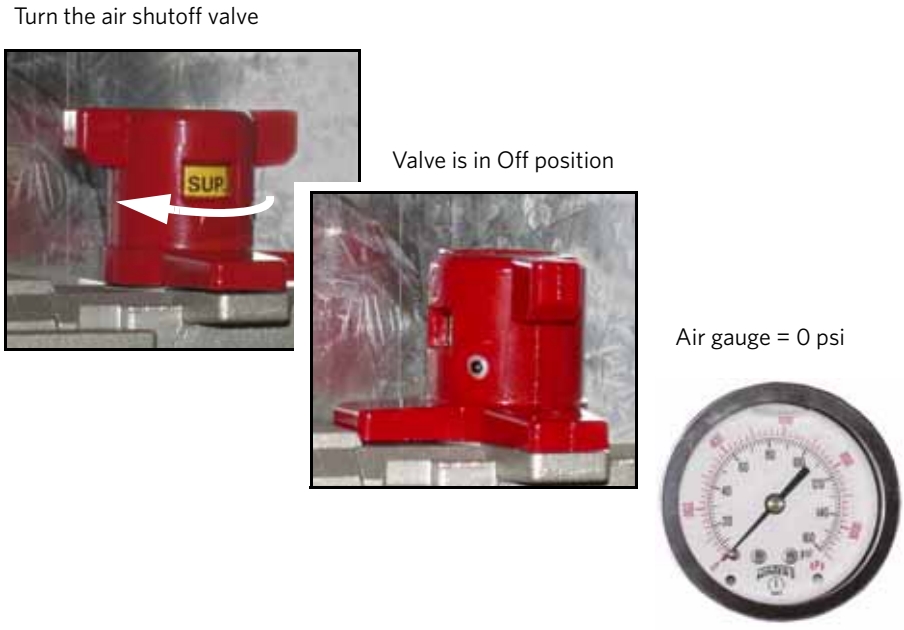


Figure 38: Turn off the compressed air

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

4. Pull down the black tab on the side of the 5-micron filter bowl.

   This releases the lock on the bowl.

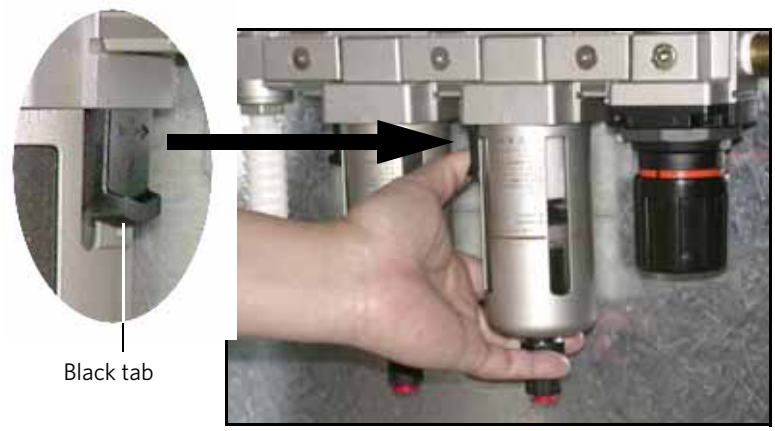


Figure 39: The 5-micron filter bowl

Rotate the bowl to the left, until the markings on the filter bowl align with the markings on the filter body. Pull down on the filter bowl to remove it.

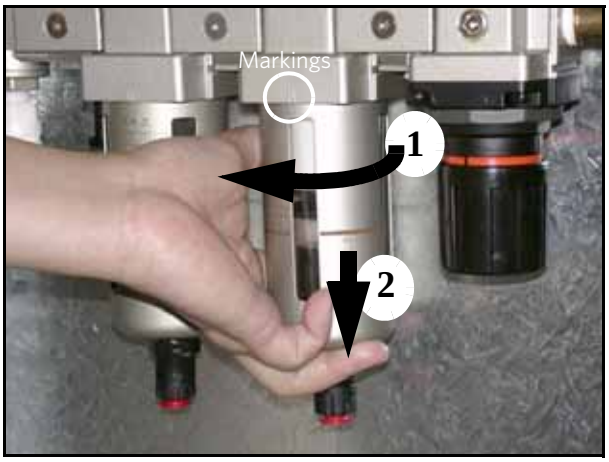


Figure 40: Remove the 5-micron filter bowl

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

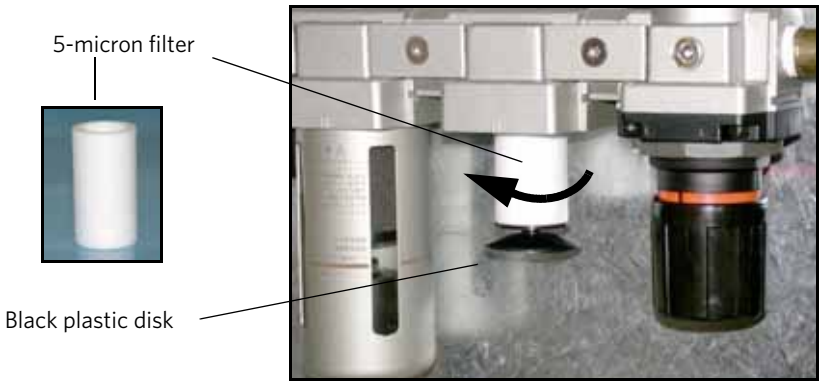


Figure 41: Remove the 5-micron filter

6. Install a new 5-micron filter, and screw the black plastic disk back into the unit until it is hand-tight.
7. Remove the rubber O-ring on the top of the filter bowl by pulling it off.
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 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 device.

9. Replace the rubber O-ring.

   Apply a thin coat of synthetic grease to the O-ring.

10. Reinstall the filter bowl by aligning with the marks on the filter body. Push up and turn to the right until you hear a click.

    If you have not replaced the 0.01-micron filter, skip steps 11 and 12, and proceed to *Replacing the 0.01-Micron Filter* on page 49.

11. Turn the orange air shutoff valve counterclockwise to turn the compressed air supply back on.

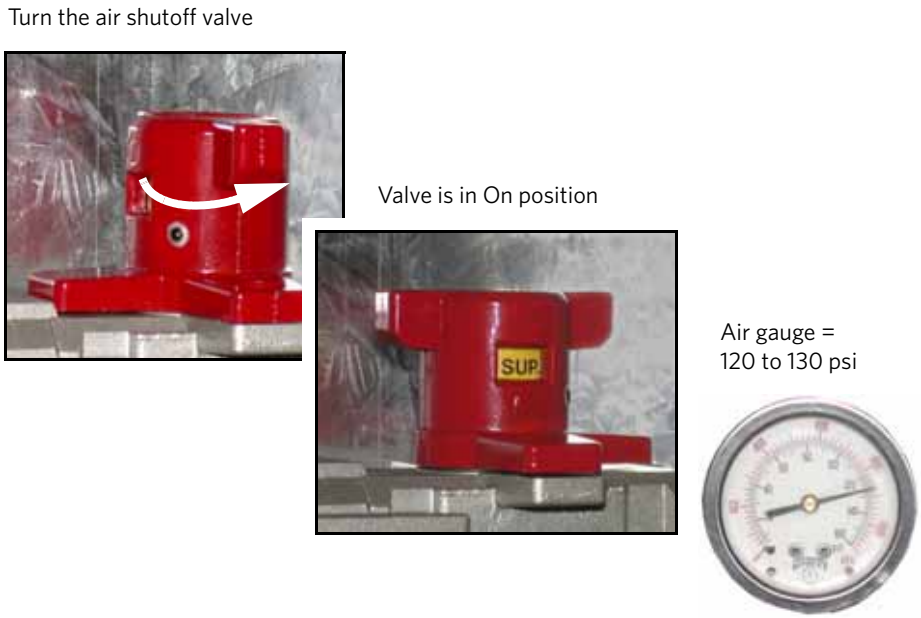


Figure 42: Turn on the compressed air supply

The air pressure gauge on the filtration unit should read approximately 120 to 130 psi. If it does not, adjust the external air supply.

12. Replace the air filter rear panel to cover the air supply filters.

    See *Removing and Replacing the Access Panels* on page 37.

Replacing the 0.01-Micron Filter

Replace the 0.01-micron filter every six months.

To replace the 0.01-micron filter:

1. Ensure that the device is not imaging media.
2. Remove the air filter rear panel.

   See *Removing and Replacing the Access Panels* on page 37.

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

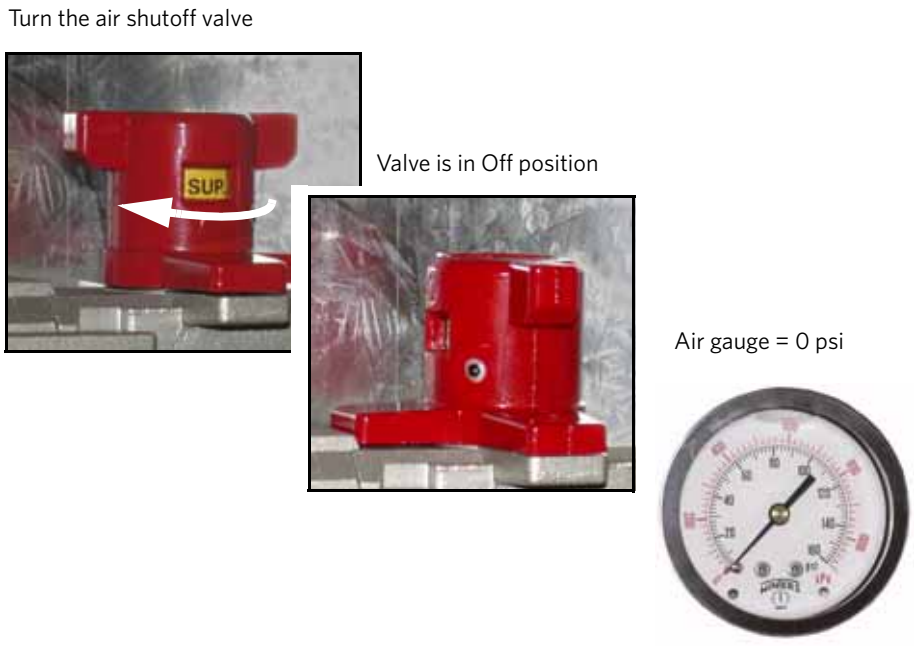


Figure 43: Turn off the compressed air

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

4. Pull down on the black tab on the side of the 0.01-micron filter bowl.

   This releases the lock on the bowl.

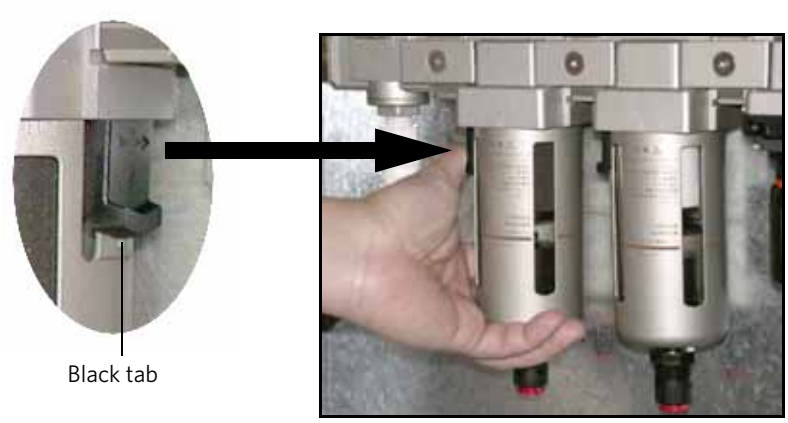


Figure 44: The 0.01-micron filter bowl

Rotate the bowl to the left, until the markings on the filter bowl align with the markings on the filter body. Pull down on the filter bowl to remove it.

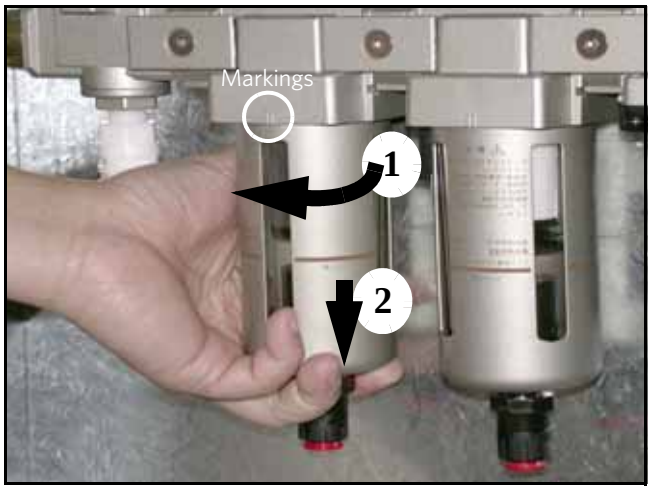


Figure 45: Remove the 0.01-micron filter bowl

5. Rotate the 0.01-micron filter counterclockwise to unscrew and remove it.

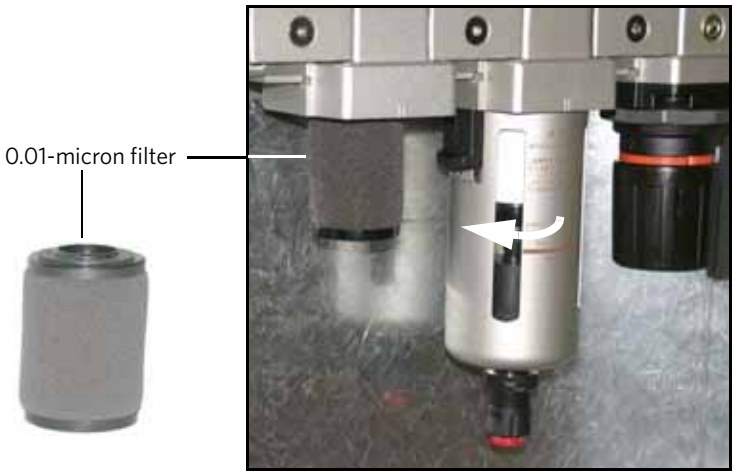


Figure 46: Remove the 0.01-micron filter

6. Install a new 0.01-micron filter by screwing the new filter into the unit until it is hand-tight.
7. Remove the rubber O-ring on the top of the filter bowl by pulling it off.
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 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 device.

9. Replace the rubber O-ring.

   Apply a thin coat of synthetic grease to the O-ring.
10. Reinstall the filter bowl by aligning with the marks on the filter body. Push up and turn to the right until you hear a click.

    If you have not replaced the 5-micron filter, skip steps 11 and 12, and proceed to *Replacing the 5-Micron Filter* on page 46.
11. Turn the orange air shutoff valve counterclockwise to turn the compressed air supply back on.



Figure 47: Turn on the air supply

The air pressure gauge on the filtration unit should read approximately 120 to 130 psi. If it does not, adjust the external air supply.

12. Replace the air filter rear panel to cover the air supply filters.

    See *Removing and Replacing the Access Panels* on page 37.

Intake Air Filter

The intake air filter for the power box unit is located behind the power box filter panel at the rear of the device.



Figure 48: Intake air filter panel

Frequency of Replacement

Replace this filter every three months. In dirtier environments, replace it more often.

Replacement Parts

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

Replacing the Intake Air Filter for the Power Box

When installing the new filter, the side of the filter with the metal mesh faces in toward the device.

To replace the power box intake air filter:

1. Using your fingers, unscrew the knurled knob to remove the power box filter panel.



Figure 49: Replacing the power box intake air filter

2. Remove the old filter out of the frame.
3. Clean the filter panel frame.

   Vacuum the frame or wipe it with a dry cloth.
4. Install a new intake air filter into the filter panel frame.

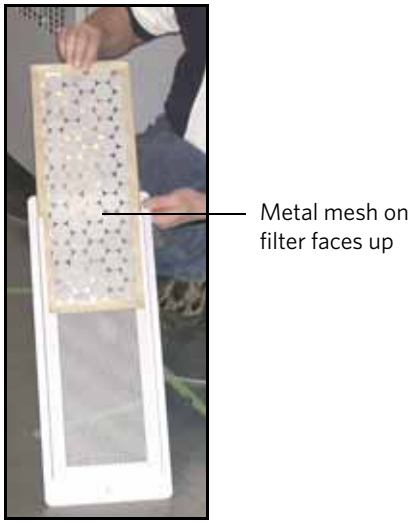


Figure 50: Intake air filter—correct side up

5. Close the filter panel.

   Turn the knurled knob to lock the filter panel securely into position.

Checking the Chiller Coolant Level

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 *Merlin Recirculating Chillers Thermo NESLAB Manual*.

Replacing the UDRC Filters

The interval at which you replace filters depends on media type, amount of media used, and frequency of imaging.

The ThermoFlex Wide II Sheet Mode is offered with two options for the removal of gaseous and particulate emissions generated during imaging:

- External ventilation (standard, UDRC-B configuration)
- Indoor exhaust with chemical filtration (UDRC-L configuration)

For the UDRC-B configuration, the particulate filter should be replaced after approximately 600 square meters (6460 sq. ft.) of imaged area. The estimated lifetime assumes 100 percent imaged area. Customers are responsible for estimating the actual cumulative imaged area.

For the UDRC-L configuration, the device automatically checks the debris removal system to determine the remaining life of the particulate and chemical filters. An error message appears in Print Console when the filters should be replaced.

For more information concerning the frequency of filter changes, have the service representative check the appropriate media technical note.



CAUTION: Failure to replace particulate filters when required will lead to the degradation of your image quality.



WARNING: Failure to replace chemical filters could result in hazardous chemicals being released into the workplace environment.

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

For more information on replacing the Universal Debris Removal Cabinet filters, see the *Maintenance* chapter in the *Universal Debris Removal Cabinet Operator Guide* (03-4200).

5

Troubleshooting

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This chapter describes common errors and problems that can occur with the ThermoFlex Wide II Sheet Mode and explains how to resolve them. For a list of common error messages and recommended solutions, see *Error Messages and Recommended Solutions* on page 61.

Operator Recoverable Errors

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

- Continues operation (see *Warning Messages*, next)

  If the 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 58)

  The 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 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 appear in Print Console. Instead, they go directly to the History pane as part of the historical record. However, some warning messages may appear on the Messages pane for a short period of time before going to the History pane.

Error Messages

When a system operation error occurs, an error message appears in the Messages pane in Print Console and the system shuts down. If the 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 device can resume imaging.

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

Suspend Conditions

A suspend condition prevents the 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 51: An 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
MDH: Turn brake drum switch override off. [Error #: 41014]	The brake drum override switch has been turned on. **To correct the error:** 1. Turn off or release the brake drum override switch. 2. Click **Resume** to continue.

When a suspend condition occurs:

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

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 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 device does not resume imaging, go to step 2.
2. If the **Eject** button is available:
   a. Click it to cancel the job.
   b. Unload the media from the drum.

   If the device does not resume imaging, go to step 3.

3. If the **Cancel** button is available:
   a. Click it to cancel the job.

   If the device does not resume imaging, go to step 4.
4. If the **Release** button is available:
   a. Click it to tell the device to release the media.
   b. Manually remove the media.
   c. Click the **Resume** or **Media Removed** button to continue.

   If the device does not resume imaging, go to step 5.
5. If the **Media Removed** button is available:
   a. Manually remove the media.
   b. Click the **Resume** or **Media Removed** button to continue.

   If the device does not resume imaging, go to step 6.
6. Reset the device from Print Console. For instructions, see the Print Console online help.

   If the device does not resume imaging, go to step 7.
7. Quit Print Console.
8. Turn off the device.
9. Restart the device.

Important: If the problem persists, contact a service representative.

Error Messages and Recommended Solutions

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

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

Even when you solve a problem yourself, you should report any recurring errors to your service representative. If, as part of the recommended operator action, you 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 II Sheet Mode device takes up to two minutes to warm up after it is restarted. You cannot image media while the device is warming up. Files submitted to be imaged wait on the workstation until the 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, MDH (Media Handling):

MDH: Turn brake drum switch override off

This is to differentiate these messages from other messages that relay information about other parts of the 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 a 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**
PRD: Flyoff sensor blocked, check machine for loose media, or check flyoff sensor [Error #: 35713]	When a flyoff occurs, the sensor may have become blocked, moved, or damaged. **To correct the error:** 1. Open the front panel. See *Opening and Closing the Front Panel* on page 36. 2. Ensure that the media is not blocking the flyoff sensor. 3. Replace the front panel. See *Opening and Closing the Front Panel* on page 36. **Important:** If the flyoff sensor has been moved or damaged, contact your service representative.
PRD: Safety sense is not on, check doors and emergency off switch [Error #: 35720]	One or more panels on the device have been opened, or the Emergency Stop switch has been pressed. **To correct the error:** 1. Replace any removed panel. See *Removing and Replacing the Access Panels* on page 37. 2. Ensure the load table is fully closed. 3. Release the Emergency Stop switch. See *Resetting the Emergency Stop Switch* on page 68. 4. In the Suspend dialog box, click **Resume**.
PRD: No write laser power, make sure doors are shut, and emergency stop switches are not depressed [Error #: 35728]	**To correct the error:** 1. Replace any removed panel. See *Removing and Replacing the Access Panels* on page 37. 2. Release the Emergency Stop switch. See *Resetting the Emergency Stop Switch* on page 68. 3. In the Suspend dialog box, click **Resume**.

Numerical Listing (Continued)	
System Pressure Out of Range [Error #: 35772]	Contaminants have damaged the air supply system in the device, or have otherwise restricted the airflow. **To correct the error:** 1. Check your air supply system: ▪ Ensure that the air hose connected to the device has sufficient air pressure. ▪ Ensure that the system air pressure gauge on the device reads between 120 to 130 psi. ▪ Adjust the external air supply if necessary. 2. Call your service representative immediately to report the error.
MPC: Subscan output resolution of <Subscan output resolution> DPI must equal head resolution [Error #: 38136]	The device may be configured to use resolutions that are not available. **To correct the error:** ➢ Configure Print Console to use a valid resolution.
MDH: Media partially loaded on drum, use RELEASE then remove the media [Error #: 40629]	The media was only partially loaded on the drum before the device lost power or was reset. **To correct the error:** 1. Click **Release**. 2. Remove the media from the load table. 3. Click **Resume**.
MDH: Could not find balancer arms, make sure that the tabs are blocking the sensors [Error #: 40639]	The device could not find the balancer arms after spinning the drum. **To correct the error:** ➢ Click **Resume**. Or: ➢ Reset the device. See *Resetting the Device* on page 69.

Numerical Listing (Continued)	
MDH: Media expected to be <ExpectedLength> mm, measured to be <ExpectedLength> mm on the <Side> side [Error #: 40706]	During loading, the device could not recognize the media size. **To correct the error:** 1. Make sure the media was loaded in the correct position on the load table. 2. Check the media type information to ensure the media size listed matches the media size loaded. 3. If the media size matches: In the Suspend dialog box, click **Resume** to resume imaging. Or: If the media size doesn't match: Click **Eject** and modify the media size as needed.
MDH: Could not lock the table because the table was not closed [Error #: 41011]	The device attempted to lock the table but it was not closed. **To correct the error:** ➢ Close the table.
MDH: Please turn brake drum override switch off [Error #: 41014]	The brake drum override switch has been turned on. **To correct the error:** 1. Turn off or release the brake drum override switch. 2. Click **Resume** to continue.
MDH: Media being loaded has an invalid thickness: Measured (<Measured thickness>um) - Expected (<ExpectedThickness>um) [Error #: 41024]	The device attempted to load a media that was the wrong thickness from what it expected. **To correct the error:** 1. Click **Eject**. 2. Remove the media. 3. Resubmit the job. 4. Load the correct thickness of media.

Numerical Listing (Continued)	
MDH: Please press RESUME to reload media or EJECT to cancel current image [Error #: 41030]	When you unload the media back onto the unload table during inspection, and you return the media to its leading-edge position, you must choose between continuing or canceling the job. **To correct the error:** 1. Click **Resume**. 2. Reload the media. Or: ➢ Click **Cancel**.
MDH: Drum control buttons unavailable [Error #: 41038]	The drum control buttons have been disabled because they have been idle or they have been turned off. **To correct the error:** ➢ Click **Resume**.
ZAC: Focus Error value requested while focus out of range or saturated [Error #: 43805]	The device attempted to retrieve the current focus error value but the last focus update returned out of range or saturated. **To correct the error:** ➢ Click **Resume**. **Important:** If the error persists, contact your service representative.
ZAC: Media not found by Z axis, confirm dimensions [Error #: 43807]	The Z axis is unable to get within range with the focus laser. **To correct the error:** ➢ Click **Resume**. Or: ➢ Reset the device. See *Resetting the Device* on page 69. **Important:** If the error persists, contact your service representative.

Numerical Listing (Continued)	
Drum vacuum is in error, must be turned off before it can be turned on again [Error #: 44105]	The drum vacuum has a problem monitoring its setpoint. **To correct the error:** 1. Ensure the drum vacuum is off. 2. Turn the drum vacuum on. **Important:** If the error persists, contact your service representative.
DVC: Drum vacuum pressure is <current pressure in milli inches of HG> milliInHg, setpoint is <setpoint in milli inches of HG> milliInHg [Error #: 44111]	The drum vacuum pressure is no longer near its setpoint. **To correct the error:** ➢ Ensure drum hardware is operating correctly. **Important:** If the error persists, contact your service representative.
DVC: Drum vacuum <setpoint in milli inches of HG> milliInHg setpoint not reached, current pressure is <current pressure in milli inches of HG> milliInHg [Error #: 44115]	The drum vacuum is turned on and the setpoint is too high. **To correct the error:** ➢ Ensure drum hardware is operating correctly. **Important:** If the error persists, contact your service representative.
DVC: Drum vacuum pressure not stabilizing [Error #: 44117]	The device is having a problem with the sensor reading or oscillation. **To correct the error:** ➢ Contact your 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. Restart the workstation.

   For additional instructions, see the workstation documentation.

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

Resetting the Emergency Stop Switch

If you accidentally press the Emergency Stop switch:

- Two Emergency Stop switches are located on either end of the front panel.
- Two are located on either end of the inside of the front panel.

You must reset the Emergency Stop switch before the device can return to normal operations.

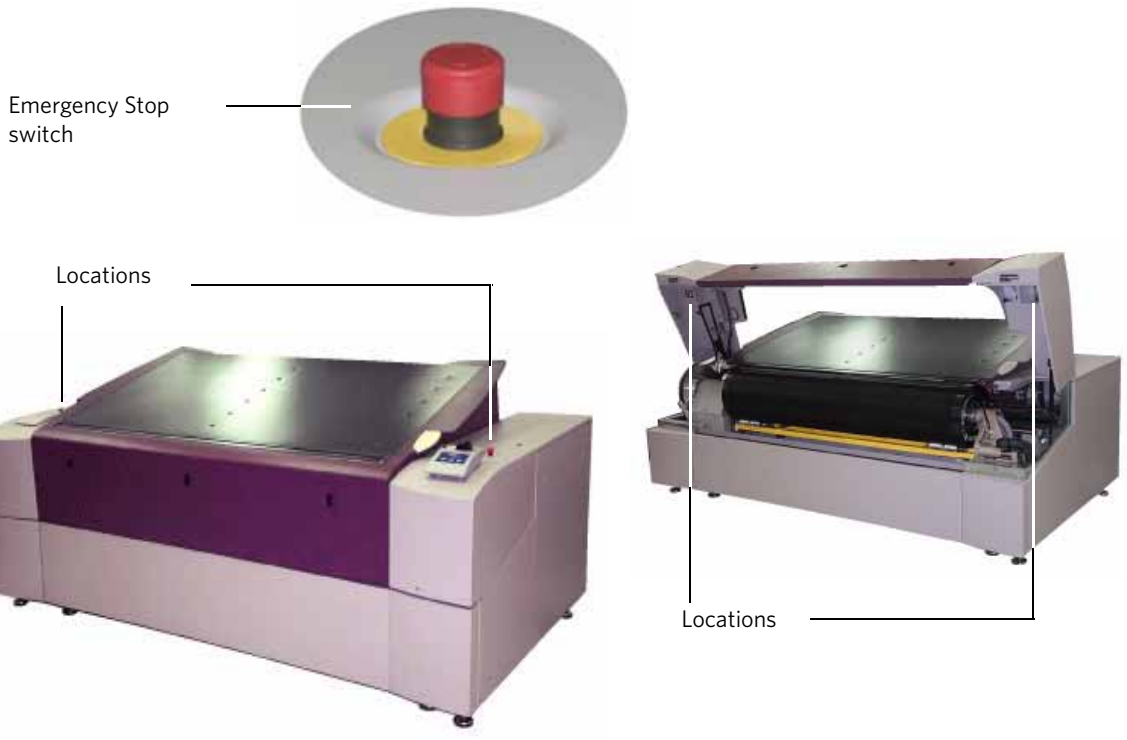


Figure 52: Emergency Stop switches

To reset the Emergency Stop switch:

➢ Rotate the Emergency Stop switch 90º clockwise.

Resetting the Device

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

Important: The 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 device for about five seconds and then turn it back on.

To reset the device:

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

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

Removing Stuck Media From the Device

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

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

You must remove the stuck media before the 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 load/unload table open.
2. Push one of the Emergency Stop switches (there is one on either top side of the drum).



Figure 53: Pushing an 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. Lift the table flap cover.

4. Ensure the drum is idle by rotating it by hand.
5. Rotate the drum and locate either the leading-edge or trailing-edge of the media.
6. Remove the tape from the edge and the drum.
7. Rotate the drum by hand, while guiding the edge of the media onto the unload/load table, until the other edge of the media can be reached.
8. Remove any tape from the other edge of the media and drum.
9. Remove the media from the drum.

   If the media can be used again, set it aside for reloading. If it cannot, dispose of it appropriately.
10. Rotate the drum by hand to inspect for any tape or debris still stuck to the drum.
11. In the Print Console Suspend dialog box, click the **Resume** button.
12. Reset the Emergency Stop switch.

    For information on resetting, see *Resetting the Emergency Stop Switch* on page 68.

To remove media from the drum through the front panel:

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

1. Slide the load/unload table open.
2. Push one of the Emergency Stop switches (there is one on either side of the drum inside the front panel).

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



Figure 54: Pushing an Emergency Stop switch

3. Open the front panel.

   See *Opening and Closing the Front Panel* on page 36.
4. Ensure the drum is idle by rotating it by hand.
5. Rotate the drum and locate either the leading-edge or trailing-edge of the media.
6. Remove the tape from the edge and the drum.
7. Rotate the drum by hand, while guiding the edge of the media straight out of the device, until the other edge of the media can be reached.
8. Remove any tape from the other edge of the media and drum.

9. Remove the media from the drum.

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

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

    For information on resetting, see *Resetting the Emergency Stop Switch* on page 68.

13. Close the front panel.

    See *Opening and Closing the Front Panel* on page 36.

Recovering from a Flyoff

When a flyoff occurs, Print Console displays the following message:

PRD: Flyoff occurred, remove media

Important: When a plate flyoff occurs, the media must be removed before the device is reset.

1. Click **Eject** to continue.

   Print Console displays: Please open the table

2. Open the load/unload table.

   Print Console displays: Media flyoff detected, please open panel and remove media

3. Open the front panel.

   See *Opening and Closing the Front Panel* on page 36.

4. Inspect the area around the drum to determine the flyoff condition.
5. Turn the Brake Override switch to the brake override position (on the left of the drum).
6. Remove the trailing edge tape and rotate the drum by hand to move the plate onto the load/unload table. Hold the plate while unloading as there is no drum vacuum to hold the plate down once the tape is removed.
7. Perform the following:
   a. Clean any debris as a result of the flyoff.
   b. Clean the debris removal nozzle.

      See *Cleaning the Debris Removal Nozzle* on page 37.

   c. Inspect the TFX head window.

      See *TFX Head Window* on page 40.

8. Click the **Resume** button.
9. Turn the Brake Override switch to the brake operation position.

10. Close the front panel.

    See *Opening and Closing the Front Panel* on page 36.

11. Close the table. The device returns to a Ready state.

Image Quality Problems

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

Power Failures

If there is a power failure, the ThermoFlex Wide II Sheet Mode 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 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. To recover the device will require operator intervention. Follow the prompts as they appear on the workstation. 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 Device* on page 69.

When a power failure occurs, we recommend that you turn off the device using the power switch shown in Figure 11 on page 21. Once power has been restored, you can turn on the device again.

Tripped Circuit Breaker

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

The circuit breaker switches are located behind the power box side panel.

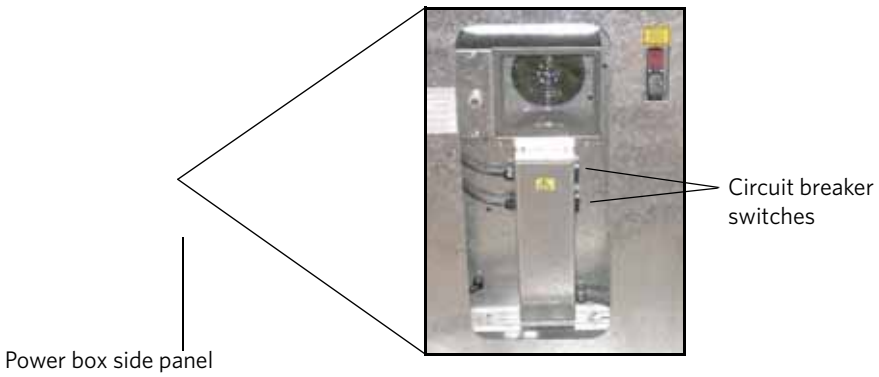


Figure 55: Location of circuit breaker switches

To reset a tripped circuit:

1. Turn off the device.

   See *Turning Off the ThermoFlex Wide II Sheet Mode System* on page 20.
2. Remove the power box side panel.

   See *Removing and Replacing the Access Panels* on page 37.
3. Press the circuit breaker switch to reset it.
4. Replace the power box side panel.

   See *Removing and Replacing the Access Panels* on page 37.
5. Restart the device.

   See *Turning On the ThermoFlex Wide II Sheet Mode System* on page 20.

   If the power does not start properly, contact your service representative.

Loss of Air Pressure in the Device

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

A

Part Numbers

Parts List 76

Parts List

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 Graphics Communications Order Management (orderdesk@Kodak.com).

Description	Kodak Part Number
Air supply filter kit	328-00001
Premixed coolant	090-00326
Filter bowl/guard	55-1280
Intake air filter	55-0346
Chemical filter for UDRC-LF	50-2315
Chemical filter spacer for UDRC-LF	57-9014
Particulate filter for UDRC-LF	252-01131
Particulate filter for UDRC-BX	57-8792
Particulate filter spacer	57-8697
Scotch 3M 471 plastic tape	Kodak does not carry this part.

Glossary

ablate	During the imaging process, parts of the media are released as dust and particles into the atmosphere.
away side	When you face the device, this is the side toward the headstock.
CMYK	Cyan, magenta, yellow, and black. Printing colors for process color production.
corner taping	Where you tape all four corners of the plate.
crazing	Stress lines that appear on plastic parts, usually caused by inappropriate cleaning.
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.
device	A platesetter, proofsetter, or filmsetter that is part of an imaging system.
dot gain	In printing, a defect in which dots print larger than they should, causing darker tones and stronger colors.
drum	The device on which media is mounted for imaging by the laser.
error message	When a system operation error occurs, an error message appears in Print Console and the system shuts down. You must resolve the problem before you can continue with regular operations.
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 II Sheet Mode produces one exposed film per image. See also *media*.
flap cover	A cover on the top front of the device that provides drum access. Lift the flap cover up to load and unload media, and to clean the drum.
GATF	Graphic Arts Technical Foundation
home-edge	This is the vertical metal strip on the drum on the tailstock side.
home side	When you face the device, this is the side toward the tailstock.
image	An electronic bitmap that is plotted onto a printing media. The device receives images from the workstation and produces exposed, undeveloped media.
imposition	A means of arranging pages on the front and back of a press sheet to ensure the correct order after the sheet is folded and trimmed.

leading-edge	This is the horizontal metal strip on the drum on the tailstock side.
media	Refers to the physical material—plates or film—onto which an image is plotted.
media type	Refers to a certain type of plate or film. Media types are typically configured during installation of the device by a service representative.
native application file	A file for a job that was created using page layout software, such as QuarkXPress®.
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	A filter containing 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 physical medium upon which an image is exposed. They can be made from metal, plastic, rubber, or paper. See also *media*.
plate processor	Equipment that can be used with the ThermoFlex Wide II Sheet Mode 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 used to describe type and visual elements so that they can be output on devices with Postscript interpreters.
Postscript file	A file written in a page description language created from a native application file.
PPD	Postscript Printer Description file. A computer file containing information on the parameters and options associated with a specific Postscript device, such as the ThermoFlex Wide II Sheet Mode.
Print Console	A device control software that delivers files to the device for imaging. Print Console creates a rasterized image of a PostScript file—a PostScript 3™ software RIP (raster image processor). The software RIPs PostScript files to create the images that are exposed onto media.
process colors	See *CMYK*
prompt number	A number that identifies an error message
raking light	A reflected low angle light that is used for inspecting media.
raster	Digitized (bitmapped) images defined pixel by pixel in rows and columns. See also *RIP*.

registration	The alignment of plotted separations (to each other on a media) that 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 the device for imaging.
SCSI	Small Computer System Interface. This type of connection is used to send image data from the workstation to the device.
sheet mode	Imaging media on the drum.
side taping	Tape that goes around the drum. The tape forms a seal for the drum vacuum.
special color	See *spot color*.
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 device from continuing to image a media.
SWOP®	Specifications for Web Offset Publications
thermal	Kodak SQUAREspot® thermal imaging technology
thermal imaging head	A device that uses laser-generated infrared (IR) thermal energy to transfer images into the emulsion of IR-sensitive media.
throughput	The efficiency with which images are interpreted and produced.
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, filters, 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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