ABDICK
A PRESSTEK COMPANY

DPM 2340
Digital PlateMaster

with software 5.1 and above

Operator's Manual

Table of Contents

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Appendix A

Index

Chapter 1
Introduction

Welcome

Congratulations on your purchase of the DPM (Digital PlateMaster). ABDick has combined leading-edge internal drum technology with reliable in-line processing to provide you with this state-of-the-art platemaker.

About this Manual

The DPM is an advanced platemaker using precision internal drum technology and an integrated processor. The platemaker interfaces with feature enhanced PrintersRIP® software.

This manual contains important information about installation, calibration, and daily use of the DPM, including working with the media cassettes, and processing systems.

Information about the PrintersRIP® and valuable tips about getting the most out of your RIP are found in the separate PrintersRIP® Operator's Manual.

Each chapter of this manual has a specific focus. The information contained in these chapters are organized to provide ease of use and understanding leading you to effective use of the DPM.

Chapter 1	This chapter describes relevant information about safe operation of the DPM, specifications about the equipment and its installation, and also how to use this manual effectively.
Chapter 2	'Getting Started' helps you to become familiar with the DPM. It also identifies essentials for getting up and running quickly, and how to sustain quality output from the equipment.
Chapter 3	'Operating Basics' includes procedures used in the day-to-day operation of the platemaker.
Chapter 4	'Troubleshooting' helps you resolve those infrequent occurrences when the DPM does not function as expected.
Chapter 5	'Maintaining the DPM' provides procedures for keeping your platemaker operating at its best.
Chapter 6	'Appendix' provides you with specific safety information, and a list of authorized ABDick International subsidiaries.

Assumptions

Read the DPM Operator's Manual and the PrintersRIP® Operators Manual before starting to work with the platemaker.

This manual assumes you have some familiarity with digital platemaking as well as a basic knowledge of Microsoft Windows NT.

Conventions

Certain notational conventions have been applied to this manual to aid in understanding the information presented.

The following fonts and special symbols are used throughout this manual.

1 Paragraphs which are numbered contain instructions which you should follow.

Text written in the **sans-serif bold** face represents a menu title, menu item or control item in a dialogue box.

Text written in this `bold typewriter` face represents literal information which should be typed exactly as it appears in the manual.

Text written in *italic* and appearing within a sentence, is important related reference information.

Text written in ***bold italic*** and appearing within a sentence, represents a specific button on the DPM or on a menu window or dialogue box.

In addition, other graphics depicting buttons found within screens on the RIP Workstation will be displayed whenever appropriate.

Text located in the left margin and preceded by an arrow, is important information about the topic presented at that point. It should be read carefully.

Installing the DPM

The DPM must be installed or removed by a qualified ABDick service representative or an authorized dealer/distributor.

The IEC connector on the detachable power cord retaining bracket on the DPM inlet receptacle prevents it from serving as the "disconnect device" for the DPM. A power cord that is permanently wired into the power supply should have a readily accessible disconnect device incorporated into the fixed wiring.

Installation Assistance

Installation of the DPM Digital PlateMaster is not difficult, but to ensure that the entire system is properly installed and configured, the hardware and software must be installed by an authorized ABDick service technician in accordance with the installation instructions in the DPM Service Manual and with national and local regulations concerning electrical safety.

Installation Requirements

CAUTION: To prevent damage to the platemaker when moving it, always pick it up by the base frame only. To prevent spilling or contamination of processor chemistry, drain the activator and stabilizer tanks.

The DPM Digital PlateMaster must be placed on a hard, flat stable surface with a free space of 58 cm (23") at the back, not including the plate catcher, and 76 cm (30") at the sides. Free access at the front must be provided for installing and removing the media cassettes, and maintaining the processor area.

Electrical supply

The DPM must be connected to a grounded 180 - 240 V ac, 50 or 60 Hz outlet.

WARNING:

The DPM is Class I electrical equipment. For your personal safety, it must be connected to a protected ground (earth) in accordance with national and local regulations.

Fuses

The DPM has internal fuses that may only be changed by authorized service personnel.

WARNING:

The electrical distribution box should be accessed only by authorized ABDick service technicians. Dangerous high voltages are present when the machine is connected to the facility power supply.

Safety

Protect yourself, others, and your equipment by observing all safety warnings contained in this guide. Before attempting to operate the DPM, be certain that each operator has read this guide and is thoroughly familiar with the operating instructions and safety warnings. You will find a summary of safety data at the end of this guide.

> WARNING:
>
> This equipment is Class I rated electrical equipment and must be connected to a properly grounded, three (3) wire power supply in accordance with national and local regulations. Failure to do so creates a potential danger of electrical shock.
>
> The circuit to which the equipment is connected must be current protected by a device with suitable interruption capability as required by national or local standards (whichever is the most stringent).
>
> The power cord used to connect the equipment to the facility power supply must comply with national and local standards and must have a minimum rated current capacity of 20 Amp. (N.A.)/16 Amp. (Europe).

Safety Devices

The following illustrations identify and describe the function of the safety devices used on the DPM. Do not operate the PlateMaker without all covers, interlocks, and safety devices in their original, factory installed positions.

ON/OFF Switch/Circuit Breaker (15 A) is located on the back of the DPM.

NOTE: A LASER INTERLOCK SWITCH is located under this cover.

IMAGING UNIT ACCESS and LASER INTERLOCK SWITCHES

The four switches disable the laser unit when the light shield or a cover is removed.

PROCESSOR ACCESS DOOR INTERLOCK SWITCHES

Two interlock switches are activated by the doors. The processor drive motor and heater are disabled when either door is open.

Safety Device Locations

Laser Safety

The DPM is a Class I laser product and contains a laser which, however, is totally shielded by the cabinet. When the cabinet is opened, the interlock system automatically switches off the laser, and there is no risk of laser radiation.

> **WARNING**
>
> Only authorized service personnel may override the interlock system. The warning labels located near the interlock switches and apertures of the drum assembly are intended for such personnel.

This warning appears near interlock switches.

DANGER - LASER RADIATION WHEN OPEN AND INTERLOCKS
FAILED OR DEFEATED. AVOID EXPOSURE TO BEAM.

ATTENTION - SOURCE LASER-DANGER DE RADIATIONS EN CAS
D'OUVERTURE DE CAPOTS OU EN CAS DE FONCTIONNEMENT
SANS LES S_CURIT_S DES PORTES. EVITER TOUTE
EXPOSITION AUX RAYONS LASER.

ACHTUNG WARNUNG! BEI OFFENEM GEH+USE UND
AUSGESCHALTETEM SICHERHEITSSCHALTER DIREKTE
BESTRAHLUNG VERMEIDEN WARNUNG VOR LASERSTRAHLUNG!

These warnings appear near front aperture and ends of the imaging drum.

AVOID EXPOSURE
LASER RADIATION IS EMITTED FROM THIS APERTURE

EVITER TOUTE EXPOSITION
AUX RADIATIONS EMISES PAR CETTE OUVERTURE

BELICHTUNG VERMEIDEN!
LASERSTRAHLUNG WIRD DURCH DIE +FFNUNG ABGEGEBEN!

Specifications

This section includes important information regarding both functional and physical specifications for the DPM.

Functional Specifications

Imaging technology

Internal drum.

Light source

675-nm, 10mW visible red laser diode.

Maximum imaging area

35.5 x 49 cm (14" x 19.3").

Resolution

900 to 3600 dpi

Speed of exposure

At 2400 dpi (28 full size plates per hour).

At 900 dpi (38 full size plates per hour).

Spot size

10 -30 microns, automatically matched to the chosen resolution.

Accuracy

(within an image)

+/- 25 microns.

Repeatability

(within an image)

+/- 5 microns.

Output media

RA process films.

Polyester and paper based plates.

Media loading

Daylight cassette with automated loading.

Media width

Plate: 22.9 cm to 34.0 cm / 9" to 13.4".

Film: 22.9 cm to 35.6 cm / 9" to 14".

Media cassette capacity

61 m (200 feet).

Take-up cassette accessory capacity

10 m (33 feet).

Take-up cassette accessory dimensions (W x H x D)

45.2 x 13.3 x 12.7 cm (17.8" x 5.25" x 5.00").

Physical specifications

Dimensions (W x H x D) 1

37 x 114 x 71.1 cm (54" x 45" x 28" without Plate Catcher).

137 x 114 x 104 cm (54" x 45" x 41" with Plate Catcher).

Weight

306 kg / 675 lbs.

Power consumption (without accessories)

1400 W.

Rated voltage

180 / 200 / 208 / 220 / 230 / 240 VAC, 50/60 Hz.

Rated current

12 Amp.

Main circuit breaker

15 Amp / 250 V

In addition, the DPM has internal fuses that may only be changed by authorized service personnel.

Ambient temperature

18 to 27° C (65 - 80° F).

Relative humidity

30 - 70%

Noise level

Less than 70 dBA.

Data interface Differential Fast SCSI-2.

Chapter 2
Getting Started

This chapter provides useful information about your DPM and RIP Workstation. It will guide you to a basic understanding of the three main areas of the platemaker, initial default settings, and will highlight those things that are important in obtaining consistent quality results in a convenient manner.

Take time to read this chapter thoroughly before attempting any of the procedures found in the following chapters.

Locating the Major Areas

Become familiar with the major external areas shown in the drawing below. They will be referenced throughout this manual.

CASSETTE
COVER

MEDIA and
DRUM Area

CONVEYOR Area

PROCESSOR Area
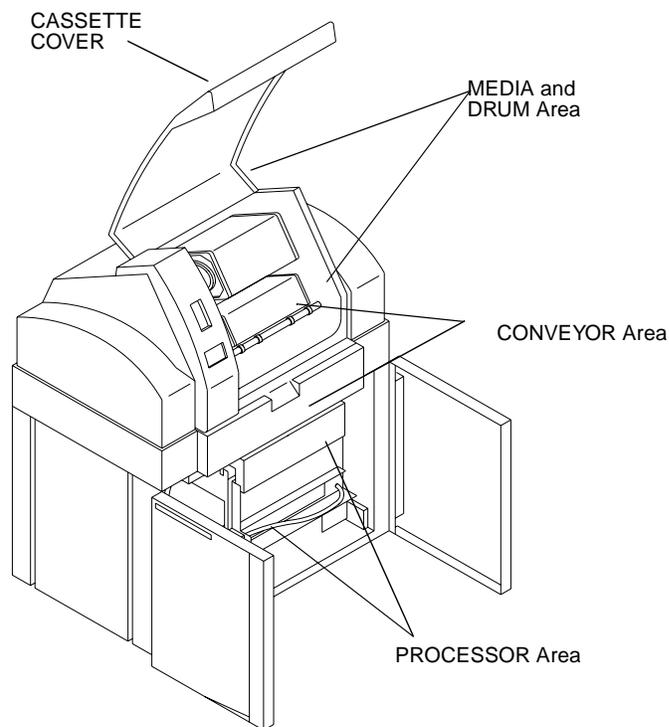
DPM Major Areas

Describing the Functional Operation

The following is a brief description of the media path during the platemaking operation of the DPM.
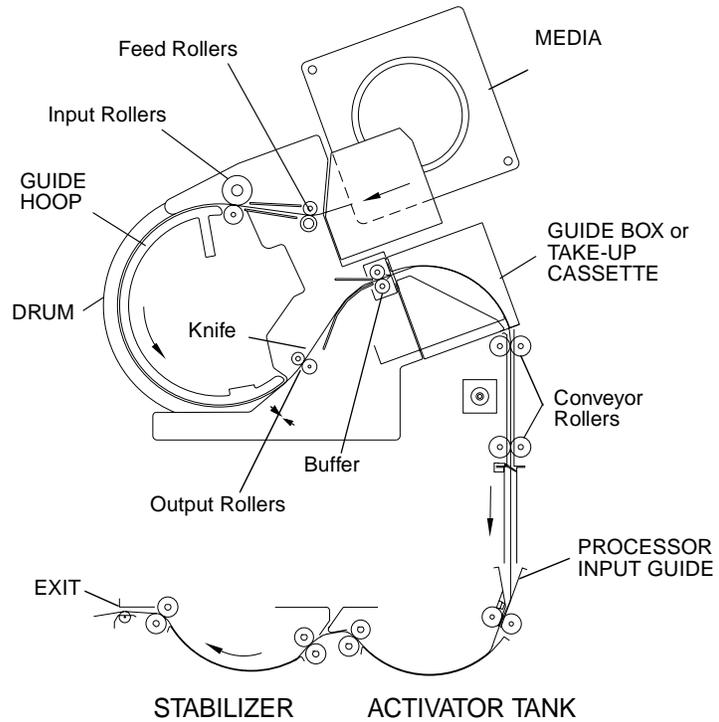
Functional Diagram of the DPM

1 When the "Load" command is given, the feed rollers move the media to the input rollers which pull it from the media and load it into the drum.

During media loading, the carriage and optics unit is located to the middle of the drum. At each end of the carriage, a semicircular guide hoop is mounted. These guides support the media during loading and prevent it from falling onto the optics unit. Sensors on the guides report an error to the PrintersRIP® if the media is not properly loaded.

2 The input and output rollers feed the media around the drum and through the output and knife module, holding the media securely in place.

The input and output sensors monitor the position of the media and report an error to the PrintersRIP® if the media is not loaded or positioned properly.

3 The optics unit moves to the right-hand end of the drum. The media is exposed from right to left.

The media is exposed by a laser which spins continuously around a central spindle as the carriage moves along the length of the drum. The carriage will only move as far as necessary to expose the job, depending on the format of the page and its orientation in the drum.

4 The input rollers and output rollers and buffer rollers then transfer the exposed media from the drum to the guide box.

At the same time, media for exposure of the next page enters the drum.

If the take-up cassette accessory is installed, the exposed media will leave the drum and enter the take-up cassette.

The knife cuts the media and the buffer rollers pass the media through the buffer module to the conveyor section and the processor.

If desired, the media in the drum can be removed using the *UNLOAD* command, and a different media can be installed.

If the take-up cassette accessory is installed, an *EJECT* command can be issued. The media is cut, and the buffer rollers pass the media into the take-up cassette. The cassette can be removed and the media developed off-line.

Describing the Status Panel and Function Switch

The panel shown provides the operator with important information regarding the status of the DPM while powered on. Each message, and the related use of the function switch is described below.

ERROR
TAKE-UP
ON LINE
BUSY
ON

EJECT   LOAD   UNLOAD
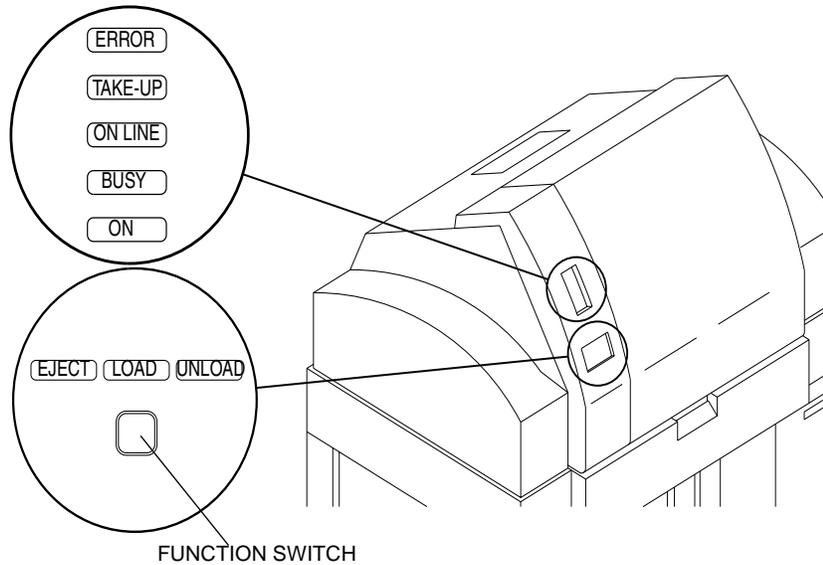
FUNCTION SWITCH

Status Panel and Function Switch

Status Panel

The messages indicate the operational status of the DPM.

Message	Function
ON	illuminates whenever the power is switched on to the DPM.
BUSY	illuminates whenever the DPM is carrying out an operation, i.e., during platemaking or media transport.
ON LINE	illuminates whenever the power is switched on, unless in service mode, or an interlock is open. When not illuminated, the DPM is off-line with respect to the PrintersRIP®, and you will not be able to image media.
TAKE-UP	illuminates after an *EJECT* command has been performed, to show that the media has been cut and the media has been forwarded to the Take-up Cassette. The take-up cassette accessory, if installed, can be removed and the media developed in an off-line processor. also illuminates when the platemaker detects that neither the Guide Box nor the Take-up Cassette are installed when the platemaker is ready to advance media from the Drum.
ERROR	illuminates if an error occurs in the functioning of the DPM. See *"Troubleshooting" on page 4-1*.

Media messages and the function switch

The media messages relate specifically to the status of the media in the drum. Only one of these messages is displayed at a time.

Pushing the *Function Switch* carries out the function displayed:

Message	Function
EJECT	illuminates when imaged media is ready to be inserted into the Take-up Cassette. Pushing the function switch will cause the media to be cut by the knife and then transported forward until it is free of the buffer rollers.
LOAD	illuminates when a different media has been placed in the DPM. Pushing the function switch transports the media into the drum for exposure. *LOAD* flashes if the media is out of media.
UNLOAD	illuminates when no imaged media is in the drum, and the platemaker is not busy. Pushing the function switch will cause the media to be removed from the drum. The media can be removed/changed at this time.

NOTE: *LOAD, EJECT* and *UNLOAD* can also be performed from the **Media Settings** window at the RIP Workstation.

Describing the RIP Workstation

The ABDick RIP Workstation should be dedicated to running the DPM only**.** It should have only ABDick approved software installed. If non-approved programs are installed by the end user, service calls caused by those programs will not be covered under the warranty or by your maintenance agreements.
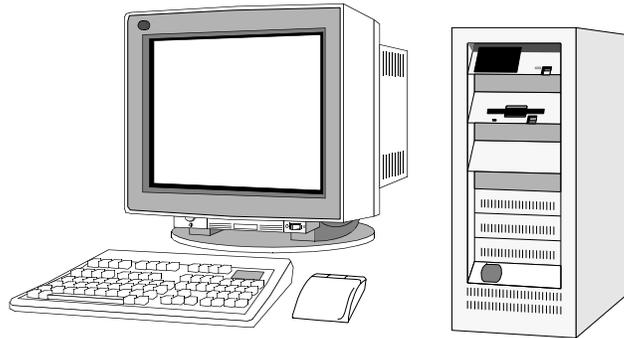
RIP Workstation

The RIP Workstation consists of 5 major parts:

- Computer
- Monitor
- PrintersRIP® Dongle
- Keyboard
- Mouse

Three major software programs combine to operate your DPM.

- The DPM Status bar: used to control the DPM.
- The PrintersRIP®: used to process your printing jobs.
- The button bar: displays icons that can be used to start the DPM Status bar and PrintersRIP® and access online manuals.

Important: The PrintersRIP® Dongle is the security key that enables your PrintersRIP®™ program to operate. If the Dongle is lost, a new one must be purchased at full price. Handle your PrintersRIP® Dongle carefully.

The button bar displays icons for the PrintersRIP® and DPM Status window.

Starts the PrintersRIP® program and also makes the program window appear if it is minimized, or hidden behind another window. See your PrintersRIP® manual for more information on the RIP operations.

Starts the DPM Status bar. See *"Describing the DPM Status Bar" on page 2-8* for more information on the status bar.

Opens a program window containing electronic versions of the PrintersRIP® Operators Manual, and the DPM Operators Manual.

Button Bar

Describing the DPM Status Bar

The DPM Status Bar, which is displayed at the bottom of your screen, contains all the controls used to operate the DPM. From the DPM Status Bar you can:

- monitor the status of the platemaking process
- monitor the status of the processor
- add new media
- set exposure values
- set preferences
- customize the media database

The bar is divided into five main sections:

System Panel   Media Panel   Processor Panel   Take-up Cassette Panel (only displays data when in take-up mode)   Menu Panel
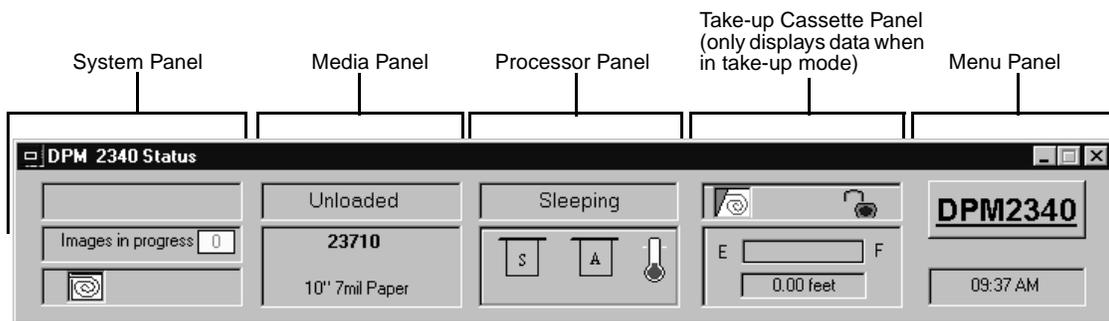
The System Panel

This panel displays the general system state, the number of plates (or images) in progress and the selected path (processor or take-up cassette) and the general system state.

General system state: If BUSY, wait before opening doors or covers.

Path: Toggle between processor path and take-up cassette path.
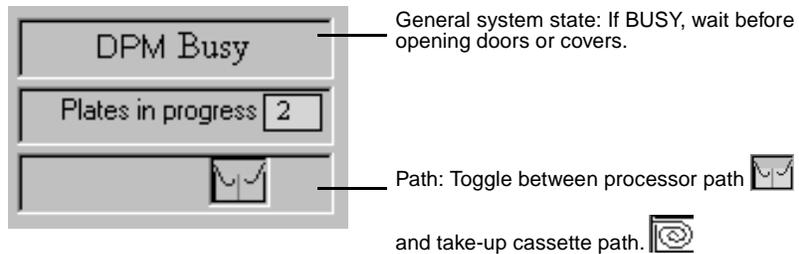
Media Panel

The media panel displays the media status, currently selected media product code and a gauge reflecting the counter associated with this media.

Media status is blank when media is loaded and "unloaded" when there is no media in the drum.

Media product code. Click to open the Media Database. See *"Working with the Media Database" on page 2-13*.

23710

10" 7mil Paper

Media counter displays how much media is left in the input cassette.
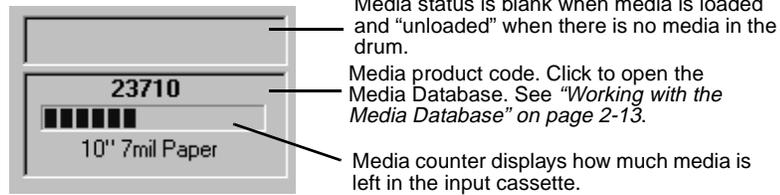
Processor Panel

The processor panel displays the activator and stabilizer levels, heater temperature and processor status.

Processor Ready

Processor state

S   A

Processor temperature
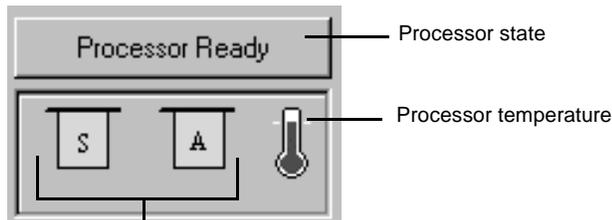
Stabilizer and Activator levels: Blue indicates proper levels. Red indicates low levels.

Take-up Cassette Panel

The take-up cassette panel is only displayed when a take-up cassette is inserted into the DPM. Check the panel to determine if it is safe to remove the take-up cassette.

Important: Do not remove the take-up cassette when the lock is in the locked position.

Unlocked It is safe to remove the take-up cassette. The galley has been cut.

E ▮▮▮▮▮ F

20 feet

Locked: An uncut galley is partially in the take-up cassette. Click the lock to display a menu to release the take-up. Exposed media advances into the take-up

The amount of media in the take-up cassette.
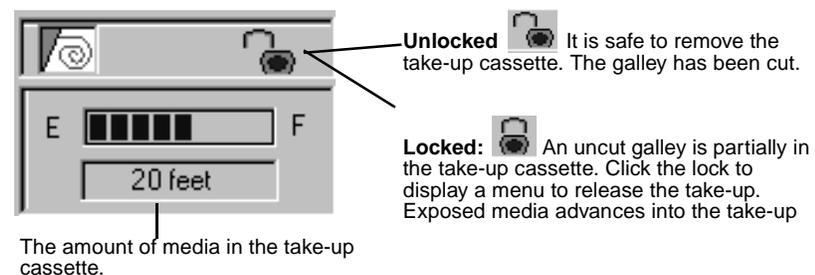
Menu Panel

Click **DPM** in the menu panel to display menus for customizing and managing the DPM.
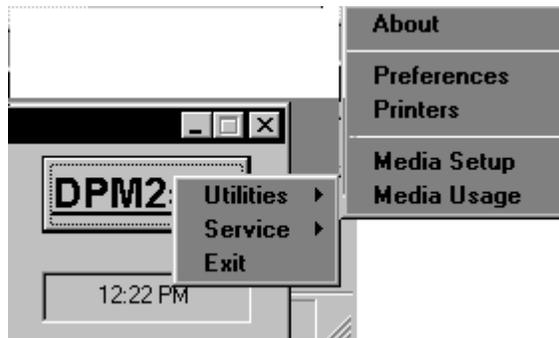
For instructions on Setting Preferences, see *"Setting Preferences" on page 2-11*.

For instructions on Media Setup, see *"Working with the Media Database" on page 2-13*.

For instructions on Media Usage, see *"Displaying Media Usage" on page 2-15*.

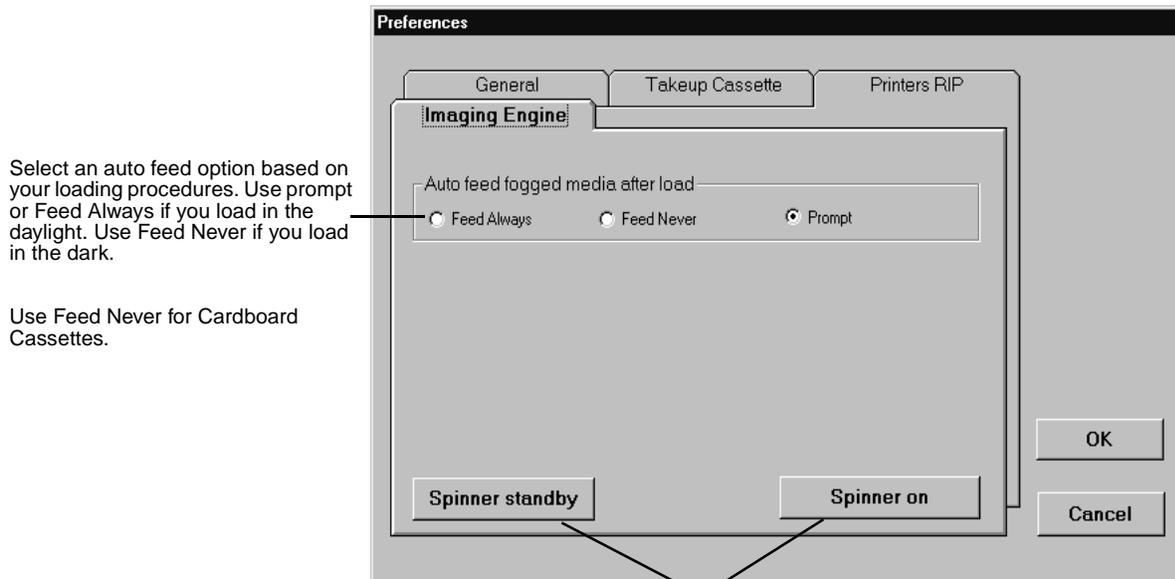From the service menu you can open a terminal window.
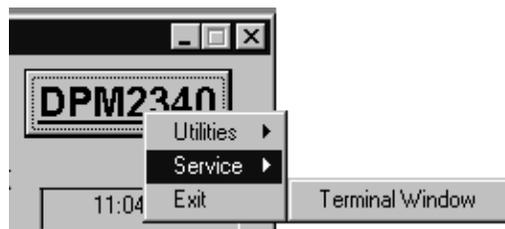
Setting Preferences

To open the preference tabs, click **DPM** on the Menu Panel and click **Preferences** from the pop-up menu.

General Preferences

Select either Imperial or Metric measurement units.

Set auto login to bypass typing a user name and password when logging on.
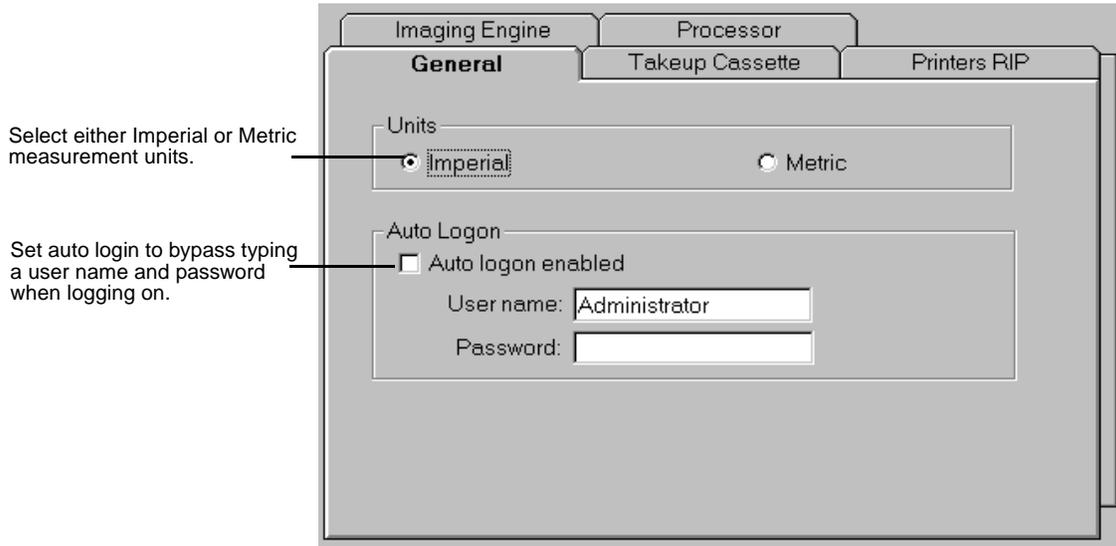
Imaging Engine Preferences

Select an auto feed option based on your loading procedures. Use prompt or Feed Always if you load in the daylight. Use Feed Never if you load in the dark.

Use Feed Never for Cardboard Cassettes.

Turn on and off the spinner.

Important: Use sparingly to prolong the spinner's life.

Printers RIP Preferences

Zoom levels range from 1:64 (farthest away) to 1:8 (closest). The default is 1:64. A change to the Roam preference, takes effect the next time you restart the PrintersRip®

Imaging Engine | **Processor**

General | **Takeup Cassette** | **Printers RIP**

Reduced Roam

○ 1 : 64

○ 1 : 16

○ 1 : 32

● 1 : 8
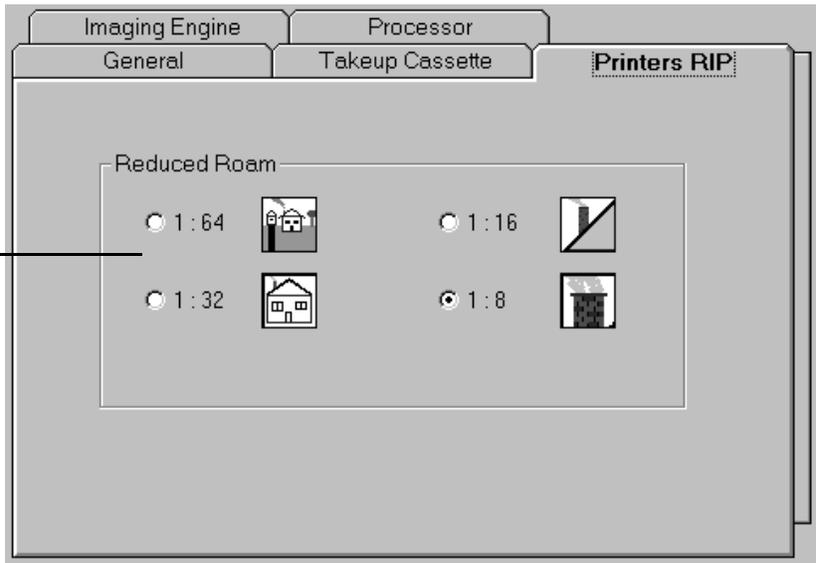
Take-up Cassette Preferences

The maximum take-up capacity is 33 feet (10 m). The media is automatically cut when it reaches maximum capacity.

Set the minimum galley leader to match your offline processor.

Preferences

Imaging Engine

General | **Takeup Cassette** | Printers RIP

Take up cassette

Maximum capacity — 10.0 Meters

Minimum galley leader — 225.0 mm

OK

Cancel

Working with the Media Database

The media database displays a list of all the product codes that are applicable to your DPM along with their properties (Emulsion, base, thickness, width, associated counter), and adjustments (feed length and centering).

Opening the Database

Open the database by using one of the two following methods:

• Click the Media product code on the Media Panel.

Click the product code to open media database.

OR

• Click DPM on the Menu panel and click **Media Setup**.

Using the Media Settings Window

Click a media to select it.

Media Settings

Advanced

Product Code	Product	Type	Thickness	Width	Centering	Feed Adjust	Counter
23832-RF	MEGAPRO	Polyester Plate	8	13.200	0.0	0.0%	200.0
23810	MEGAPRO	Polyester Plate	8	10.000	0.0	0.0%	200.0
23509	MEGAPRO	Polyester Plate	5	9.000	0.0	0.0%	200.0
23511	MEGAPRO	Polyester Plate	5	11.000	0.0	0.0%	200.0
23833	MEGAPRO	Polyester Plate	8	13.375	0.0	0.0%	200.0
23832	MEGAPRO	Polyester Plate	8	13.200	0.0	0.0%	200.0
23813	MEGAPRO	Polyester Plate	8	13.000	0.0	0.0%	200.0
23812	MEGAPRO	Polyester Plate	8	12.000	0.0	0.0%	200.0
23811	MEGAPRO	Polyester Plate	8	11.000	0.0	0.0%	200.0
23838	MEGAPRO	Polyester Plate	8	9.375	0.0	0.0%	200.0
23809	MEGAPRO	Polyester Plate	8	9.000	0.0	0.0%	200.0
23533	MEGAPRO	Polyester Plate	5	13.375	0.0	0.0%	200.0
23513	MEGAPRO	Polyester Plate	5	13.000	0.0	0.0%	200.0
23512	MEGAPRO	Polyester Plate	5	12.000	0.0	0.0%	200.0
23508	MEGAPRO	Polyester Plate	5	11.500	0.0	0.0%	200.0
23808	MEGAPRO	Polyester Plate	8	11.500	0.0	0.0%	200.0
23609	Laser Film	Negative Film	4	9.000	0.0	0.0%	200.0
23633-RF	Laser Film	Negative Film	4	13.375	0.0	0.0%	200.0
23614-RF	Laser Film	Negative Film	4	14.000	0.0	0.0%	200.0

☑ Show all

Buttons: Exposure | Centering | Feed Length | OK

Load | Unload | Form Feed | Eject | Cancel

Loads media into the drum in preparation for imaging.

Returns media from the drum.

Advances the media by a full-plate length.

In Take-up mode (negative film and take-up cassette loaded), this transports the imaged film into the take-up cassette.

Customizing the Database

You can customize the database display to display only selected media or to sort the media.

Select which product codes you want displayed in this list by double-clicking in the **Show** column to toggle between **Yes** and **No**. Select the **Show All** box, in the bottom left of the window, to show all product codes. Unclick it to show only the ones selected for show (yes).

Sort the database according to your criteria by clicking the column headings.

Displaying Media Usage

The Media Usage screen displays information about the number of images you made and the amount of media used since the last time you reset the counter.

To open the Media Usage window, click **DPM** from the menu panel and click **Media Usage** from the pop-up menu.

The customer counters can be reset to zero to track images taken and media used over a certain time period.

The machine counters cannot be reset.

Media Usage

Customer

Number of Plates	0	Reset
Plate Media	0 Feet	Reset
Number of Images	0	Reset
Takeup Media	0 Feet	Reset

Machine

Number of Plates	20
Plate Media	35.8 Feet
Number of Images	2
Takeup Media	4.6 Feet

Units

○ **Imperial**

○ **Metric**

OK

The measurement unit selected here overrides the unit set on the General Tab.

Supplies

Tips About Supplies

- Maintaining the proper level of chemicals in the processor tanks is very important. Although the DPM will detect low chemical levels, best performance is obtained by checking the replenisher bottles daily and keeping them filled.
- Plate media is *light sensitive.* Always store it in its original containers (plastic bag and box), or in a input cassette.
- Store plate media away from sources of excessive heat, like radiators and direct sunlight.
- Avoid touching the printing surface of media.
- Use ABDick activator, stabilizer, etch, and fountain solution for best results.

Turning on the DPM

When you power on the DPM, the processor begins its warm-up cycle. When the software is completely loaded, the *ON LINE* message illuminates. Always wait for the *ON LINE* light to appear before you perform any operation, including shutting down the DPM.

Important: If you need to power on the DPM immediately after powering it off, **wait at least 10 seconds** to prevent damage to the electronic circuitry of the PlateMaker

Because the warm-up cycle heats the processor chemicals to their operating temperature, always be sure the tanks are filled with chemicals before you power on the DPM. If the tanks are empty at power up, the warm-up circuitry will not turn on. The liquid level must be kept within 6 mm (1/4") of "Full" operating level for proper operation.

To power on the DPM:

1 Check that both processor tanks are filled with chemicals. If they are not, see *"Filling the processor with chemicals" on page 5-5*.

2 Fill the replenisher bottles with pre-mixed activator and stabilizer each day. Do not make plates if the replenisher bottles are empty or not in place.

3 Press the *ON/OFF* switch to turn on the DPM.

The DPM processor may require 15 - 20 minutes to warm up before plates can be made (depending on room temperature).

4 Power on the RIP Workstation.

ON/OFF Switch is located on the back of the DPM.

Power On/Off Switch

Shutting Down the DPM

The DPM machine may be turned off and on without shutting off the RIP Workstation.

If the RIP Workstation has also been turned off, do <u>not</u> turn it on again until the DPM has been turned on and has completed the boot up cycle (Status Panel lights illuminated).

To power off the RIP Workstation

1   Close the software programs by one of the following methods.

   - In **File** on the menu bar, select **Close**.
   - Click the Close ("**X**") Window Control Button in the upper right corner of the program title bar.
   - Double-click the Control-menu Icon in the upper left corner of the program title bar.

   Follow directions in any dialogue box that may appear.

2   On the **Start** menu, select **Shut Down**.

3   When the **Shut Down Window** appears, select **Shut down** and click on the **OK** button.

4   When the *OK To Turn Your Computer Off* appears, turn off the RIP Workstation.
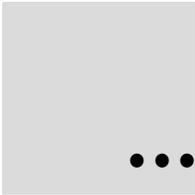
Chapter 3
Operating Basics

This chapter covers the procedures used in the daily operation of the DPM. It includes information about working with media, cassettes, and relevant RIP Workstation activities.

About Cassettes

The DPM uses ABDick brand media. Follow the steps in this chapter to ensure that the media is properly loaded.

The input cassette and Take-up Cassette are conveniently accessible from the front of the DPM. The input cassette is in the upper position and the guide box is located under the input cassette. If you have the Take-up Cassette Accessory (used when running negative film), it is located where the guide box is shown here. See *"Using the Take-up Cassette Accessory" on page 3-18* in this chapter for specific procedures in the use of this accessory.

Cassette Cover

Media

Guide Box or
Take-up Cassette
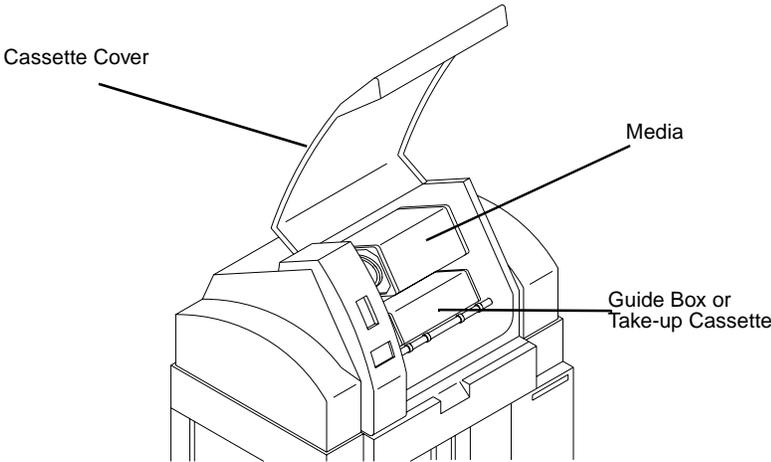
Cassette Locations

Replacing Media

Two types of input cassettes can be used with the DPM—cardboard or reloadable.

Replacing an input cassette involves the following steps:

- Remove the old media

  To remove a Cardboard Cassette: See page 2.

  To remove a reloadable cassette: See page 8.

- Insert the new media

  To load a cardboard cassette: See page 6.

  To load a reloadable cassette See page 10.

- Set the media type. See page 12 and load it into the drum.
- Adjust the exposure (if necessary). See page 13.
- Adjust the plate length (if necessary). See page 14.
- Adjust the centering on the plate (if necessary). See page 15.

Working with Cardboard Cassettes

To remove a Cardboard Cassette:

1   If the *BUSY* message is illuminated, wait for it to go out.

BUSY **message**

2   Open the Cassette Cover.

Cassette Cover

Media Cassette

Guide Box or
Take-up Cassette
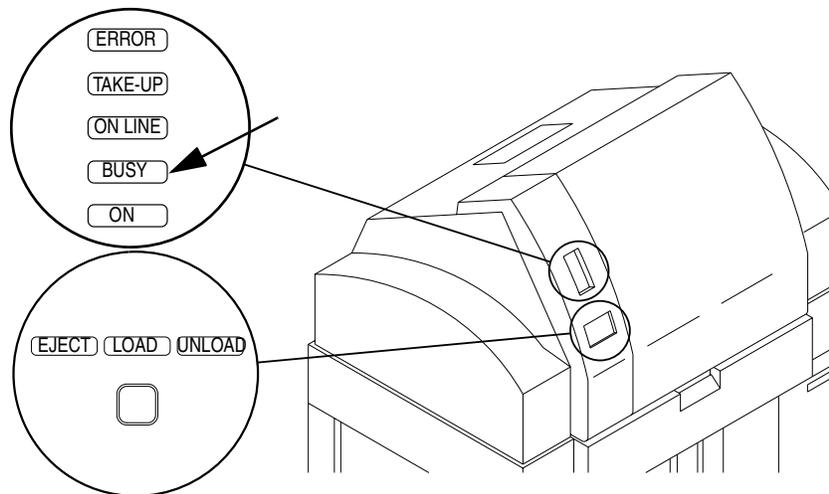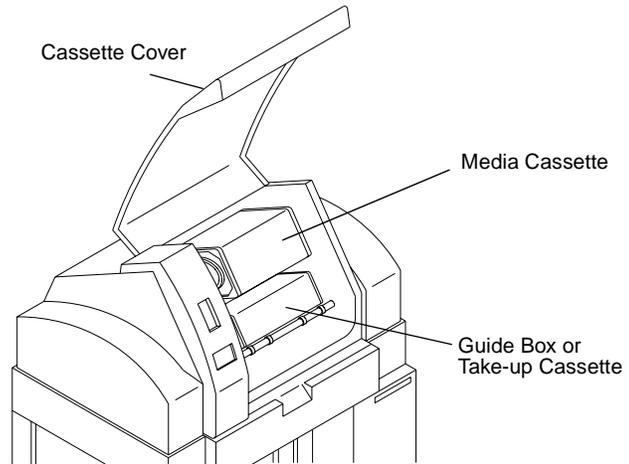
Cassette Locations

3   Is the *UNLOAD* message illuminated?

NO	YES
Wait for the *UNLOAD* message to illuminate.	Press the **Function Switch** and wait until the *UNLOAD* message flashes.

ERROR

TAKE-UP

ON LINE

BUSY

ON

EJECT   LOAD   UNLOAD
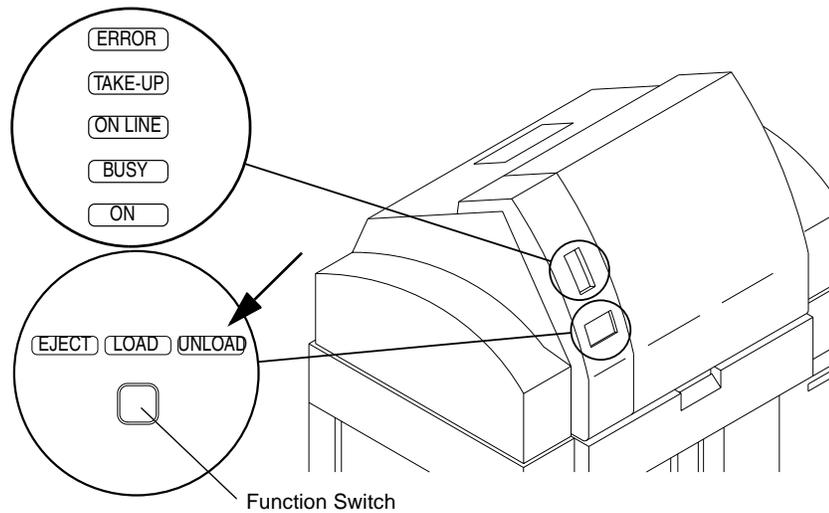
Function Switch

***UNLOAD* message and Function Switch**

4 Partially remove the cassette and adapter.

Push down on the two holding forks and slide the cassette toward you to the stop.

Cassette Cover

Cassette and adapter
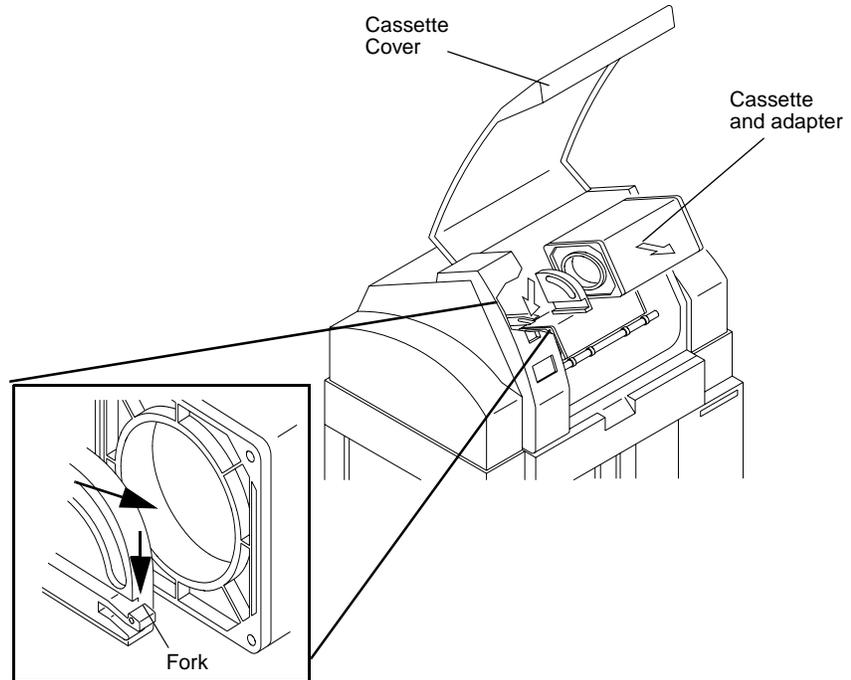
Fork

Removing the cassette

5 Wait for the *BUSY* message to go out. Remove the cassette from the two upper forks.

ERROR

TAKE-UP

ON LINE

BUSY

ON

EJECT   LOAD   UNLOAD
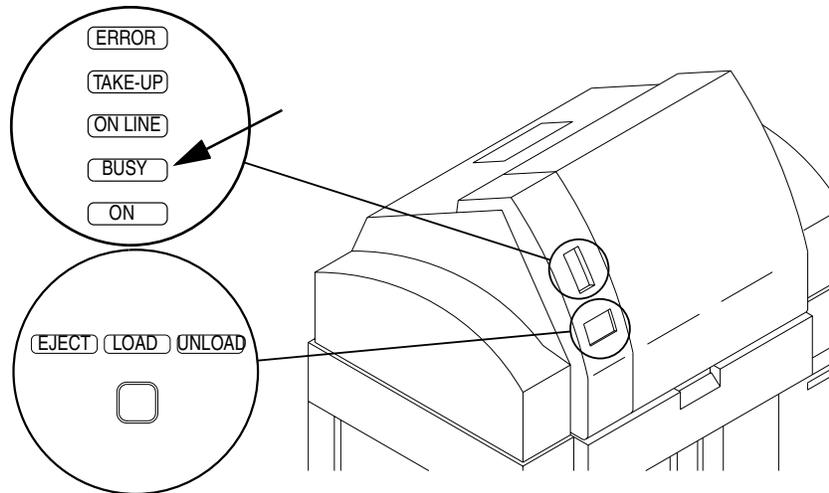
BUSY **message**

6 Remove the cassette adapter assembly from the cassette.

Turn the latch until it stops.
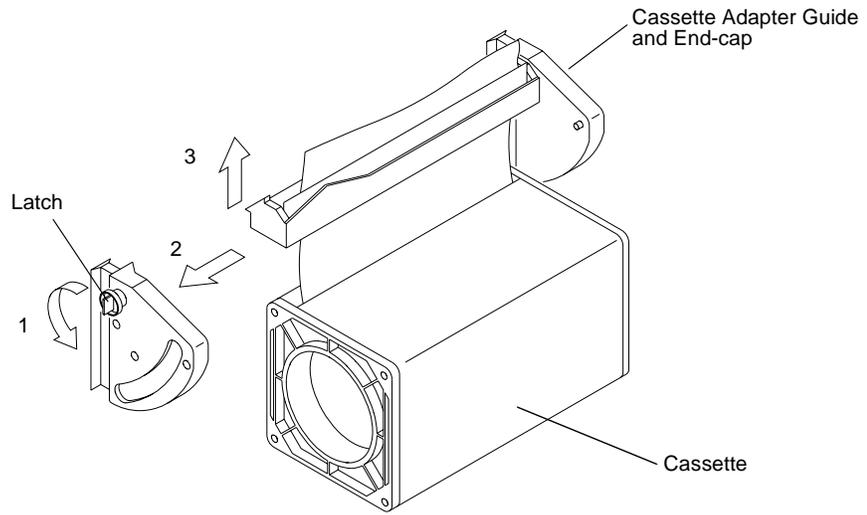
Cassette Adapter Guide and End Caps

7 Is the cassette empty?

NO	YES
Do Step 8.	Discard the cassette, and load another cassette. See *"Carefully align the cassette adapter with the forks and push the cassette assembly in until it latches." on page 3-7* in this Chapter.

8 Tape the media leader to the cassette, and set the cassette aside for future use.

If the media will not be used in the immediate future, place the cassette in the plastic sleeve and the original shipping box.
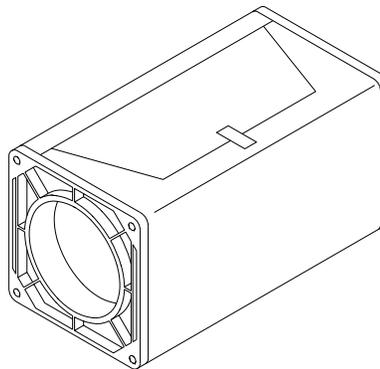
Cassette with media leader taped

To load a cardboard cassette:

1   Pull the media from the cassette until you have approximately
    5 inches beyond where the tape secured the media <u>inside</u> the
    cassette (new cassettes only).

    Previously used cassettes will only need approximately 3 inches
    of leader pulled from the cassette.

2   Cut the media leaving approximately 3 inches of leader (new
    cassettes only).

3   Thread the leader through the cassette adapter guide and
    end-cap assembly.

4   Insert the cassette adapter end-cap pins into the media and attach
    the latch end-cap.

    Turn the latch until it stops.
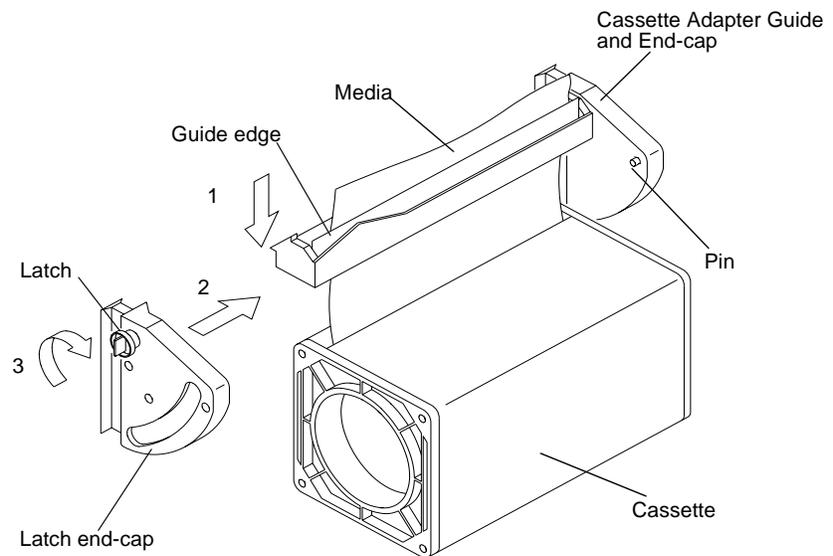
Attaching the Cassette Adapter Guide and End Caps

5   Cut the media even with the longer edge of the cassette adapter
    guide.

6 Carefully align the cassette adapter with the forks and push the cassette assembly in until it latches.
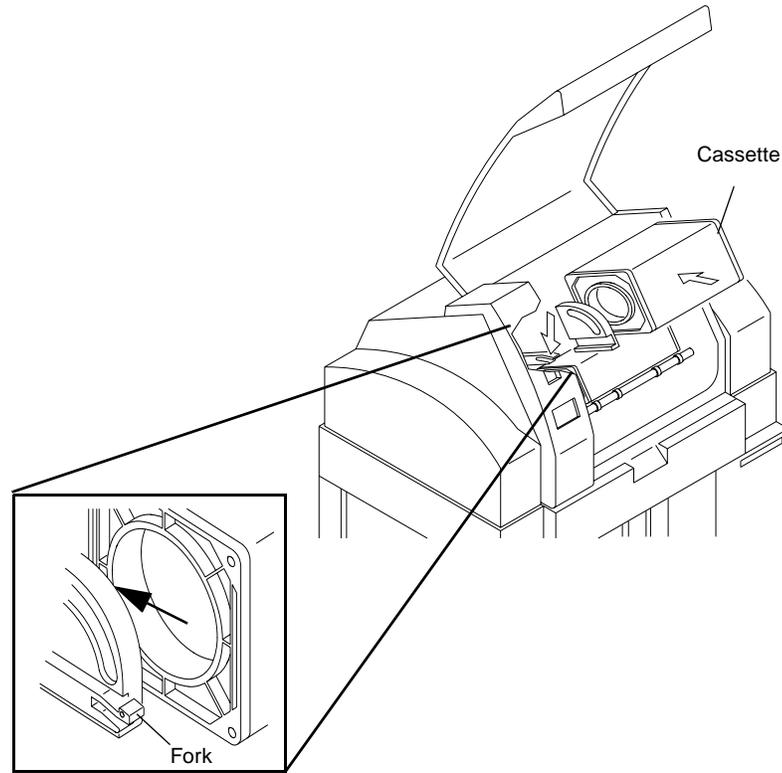
Cassette

Fork

Cassette and forks

Working with a Reloadable Cassette

To remove a reloadable cassette

1   If the *BUSY* message is illuminated, wait for it to go out.
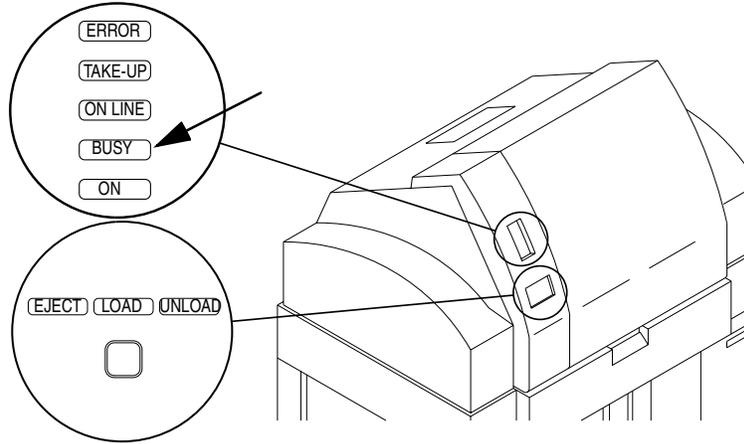
***BUSY* message**

2   Open the Cassette Cover.

3   Is the *UNLOAD* message illuminated?

NO	YES
Wait for the *UNLOAD* message to illuminate.	Press the **Function Switch** and wait until the *UNLOAD* message flashes.
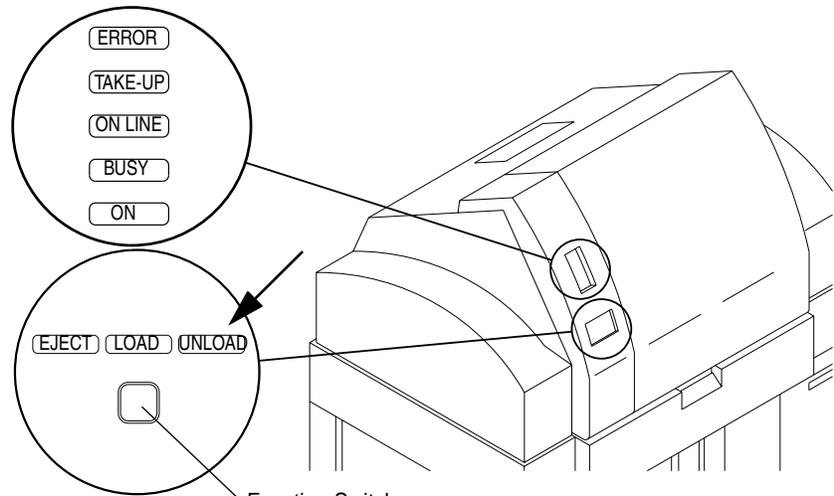
Function Switch

***UNLOAD* message and Function Switch**

4 Partially remove the cassette.

Push down on the two holding forks and slide the cassette toward you to the stop.

5 After the *BUSY* message has gone out, remove the cassette from the two upper forks.

▷ **NOTE:** If you are using multiple media types, you may wish to purchase extra input cassettes to avoid handling the media rolls in daylight and to avoid steps 6 and 7.

6 Tape the media leader to the roll. Remove the media spool and media roll from the input cassette.

Media Roll
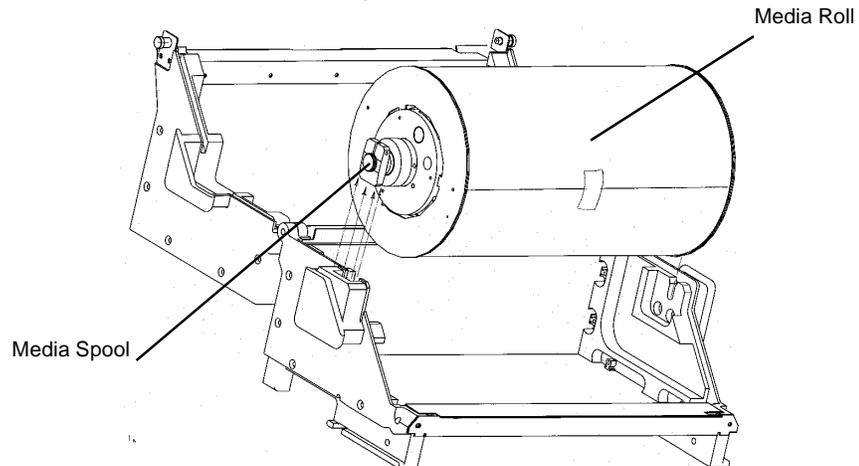
Media Spool

Open Input Cassette with spool and roll

7 Loosen the Clamping clinch nut. Remove the Clamping end-plate and remove the roll from the media spool. Place the roll in its black plastic bag as quickly as possible (to minimize media fogging).

If the media roll is empty, properly dispose of it.

Clamping clinch nut

Clamping end-plate

Detent clinch nut

Detent end-plate

Clamping side end-cap
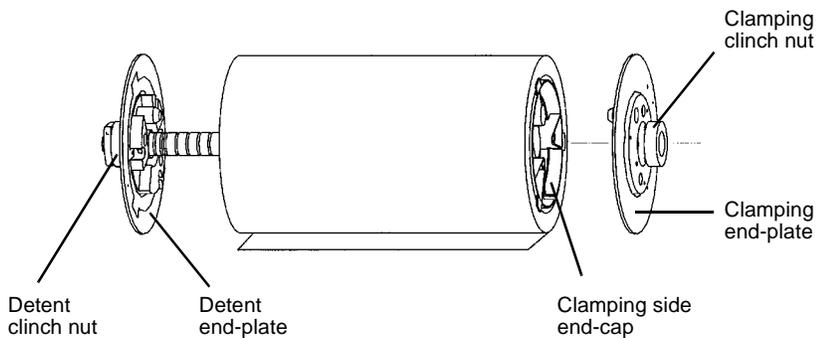
Removing the media roll from the spool

To load a reloadable cassette

1 Adjust the detent end-plate for the size media you wish to load.

DETENT GROOVE No.	CORRESPONDING MEDIA
1	ALL NEGATIVE FILM WIDTHS
2	13.38 in (340mm) , 13.2 in (335mm) WIDE PLATE
3	13 in (330mm) WIDE PLATE
4	12 in (305mm) WIDE PLATE
5	11 in (279mm) WIDE PLATE
6	10 in (254mm) WIDE PLATE
7	9 in (229mm) WIDE PLATE
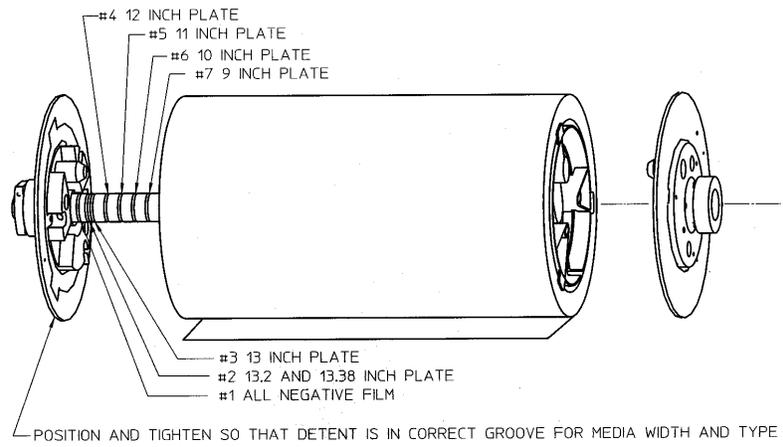
2   Remove the media roll from its black plastic bag. Place the roll on a flat surface with the media leader coming off the bottom of the roll, and away from you. Remove the Clamping end-plate from the spool, if it is on.

3 Insert the media spool into the large center hole of the media roll Detent side end-cap. Feed the spool through the large center hole in the media spool Clamping side end-cap.
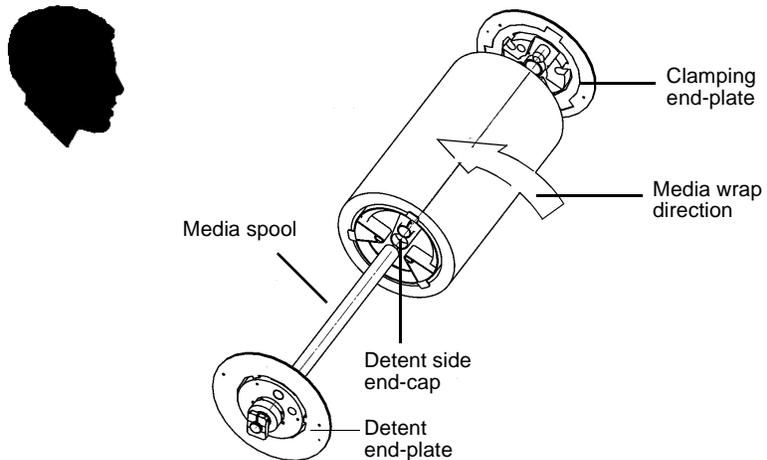
Insert media spool

4 Rotate the media spool assembly until the pins line up with their matching end-cap holes, and slide the spool toward the media roll left until it stops.

5 Place the Clamping end-plate onto the media spool assembly. Rotate the Clamping end-plate until its pins line up with the media roll end-cap holes. Slide the Clamping end-plate towards the media roll until it stops. Gently hand tighten the clinch nut on the Clamping end-plate.

Note: There should not be a gap between the end plates and media spool.

6 Place the open input cassette on a flat surface. The top of the cassette should face away from you.

7 Place the media spool into the bottom of the cassette.

8 Remove the tape from the media roll leader, and pull a few inches out of the cassette. Close and latch the lid.
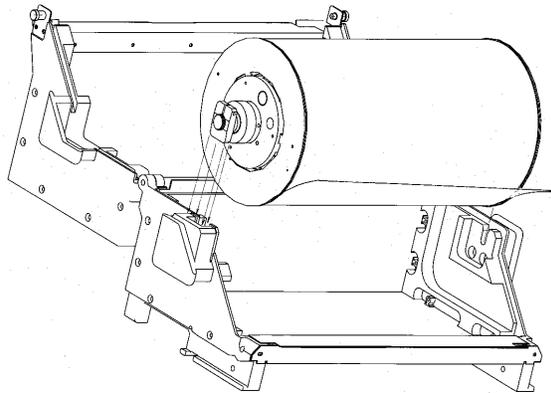
Pulling media leader from cassette

9 Trim the front edge of the media across the lower guide.

10 Carefully align the cassette with the DPM forks and push until it latches.

Adjusting Media

Note: Every time you change the media type, you must tell the DPM software what type of media you installed.

To set the media type

1 Click the media panel of the DPM Status window screen.

   The Media Settings window opens.

Product Code	Product	Type	Thickness	Width	Centering	Feed Adjust	Counter
23832-RF	MEGAPRO	Polyester Plate	8	13.200	0.0	0.0%	200.0
23810	MEGAPRO	Polyester Plate	8	10.000	0.0	0.0%	200.0
23509	MEGAPRO	Polyester Plate	5	9.000	0.0	0.0%	200.0
23511	MEGAPRO	Polyester Plate	5	11.000	0.0	0.0%	200.0
23833	MEGAPRO	Polyester Plate	8	13.375	0.0	0.0%	200.0
23832	MEGAPRO	Polyester Plate	8	13.200	0.0	0.0%	200.0
23813	MEGAPRO	Polyester Plate	8	13.000	0.0	0.0%	200.0
23812	MEGAPRO	Polyester Plate	8	12.000	0.0	0.0%	200.0
23811	MEGAPRO	Polyester Plate	8	11.000	0.0	0.0%	200.0
23838	MEGAPRO	Polyester Plate	8	9.375	0.0	0.0%	200.0
23809	MEGAPRO	Polyester Plate	8	9.000	0.0	0.0%	200.0
23533	MEGAPRO	Polyester Plate	5	13.375	0.0	0.0%	200.0
23513	MEGAPRO	Polyester Plate	5	13.000	0.0	0.0%	200.0
23512	MEGAPRO	Polyester Plate	5	12.000	0.0	0.0%	200.0
23508	MEGAPRO	Polyester Plate	5	11.500	0.0	0.0%	200.0
23808	MEGAPRO	Polyester Plate	8	11.500	0.0	0.0%	200.0
23609	Laser Film	Negative Film	4	9.000	0.0	0.0%	200.0
23633-RF	Laser Film	Negative Film	4	13.375	0.0	0.0%	200.0
23614-RF	Laser Film	Negative Film	4	14.000	0.0	0.0%	200.0

Buttons: Exposure, Centering, Feed Length, OK

☑ Show all

Load · Unload · Form Feed · Eject · Cancel

Media Database

2 Click the product code that you just inserted.

3 Click **Load**.

   The media is loaded into the drum.

Note: The DPM software calculates the job exposure based on the selected media types and the job resolution. You can, however, set the exposure more precisely for any given media product code/resolution combination. If you are using a product code for the first time you must adjust the exposure setting.

To adjust exposure values:

1 With the product code highlighted on the Media Settings screen, click **Exposure**.

The Exposure Settings window opens.
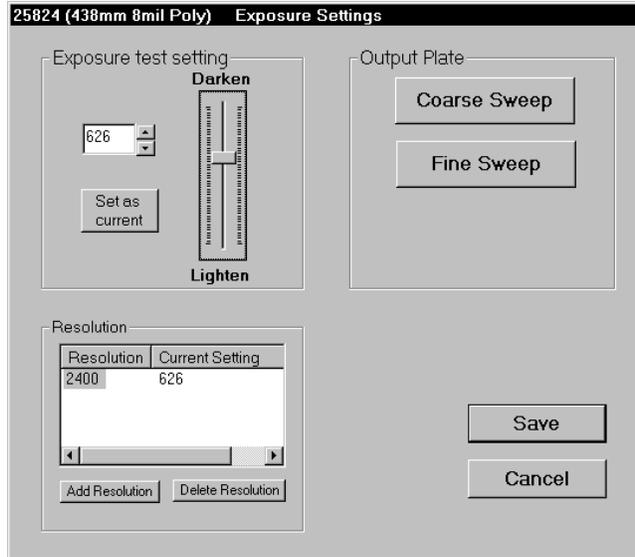
Note: If the resolution is not already in the list, you can add it by clicking Add Resolution.

2 Click the resolution that your are running for your jobs.

3 Click **Fine sweep** to output a plate with several strips of the exposure sweep test pattern, each exposed with a different exposure value at small increments. The base exposure is the value shown on the slider. See *"Explanation of the Exposure Sweep Test Pattern" on page 3-16*.

4 Examine the plate and find the strip where the circles disappear into the background. Note the exposure setting displayed on the left side of the strip.

5 Change the exposure slider to reflect the value in step 4. Click **Set as Current**.

6 Click **Save**.

7 Click **OK**.

To adjust the plate length:

1 With the product code highlighted on the Media Settings Screen, click Feed Length.

The Feed Length Adjust window opens.

Feed Length Adjust Screen

2 Click **Test** (optional).

A 20 inch (508 mm) test plate is produced by the DPM.

3 Measure the length of the test plate and enter the actual and expected measurements.

4 Click **Calculate**.

5 Repeat steps 2 - 4 as necessary.

6 Click **OK**.

To adjust the image centering on the plate:

1 With the product code highlighted on the Media Settings Screen, click **Centering**.

The Center Adjust window opens.
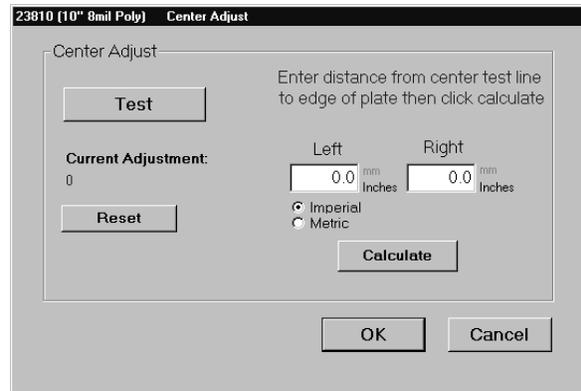
Center Adjust Screen

2 Click **Test** (optional).

A centering adjustment plate is produced by the DPM.
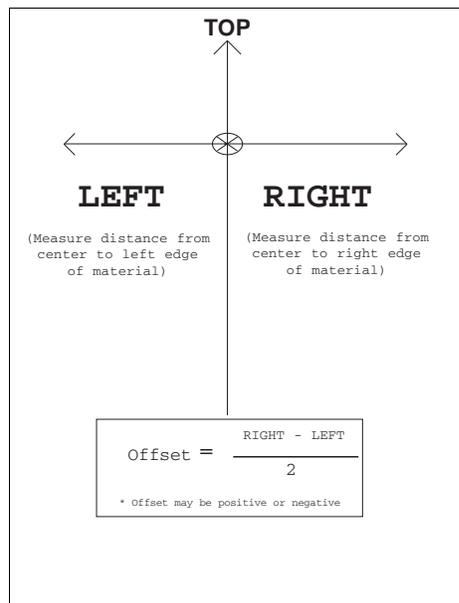
Centering Adjustment Plate

3 Measure the distance from both the right and left edges to the center line on the target.

4 Enter the measured distances.

5 Click **Calculate**.

6 Click **OK**.

Explanation of the Exposure Sweep Test Pattern

Important features of the Exposure Bar

1 Exposure number at which the bar was written.

2 The date and time the exposure job was first sent through the rip.

3 The resolution at which the exposure bar was written.

Exposure Bar Features

4 Visual Exposure Target area. This target works best for the MEGAPRO® products.

5 D_{min} patch: May be used for setting exposure with negative film media.

6 D_{max} patch: Used for setting exposure with negative film materials. The desired value is 5.0 to 5.5 optical density for all standard films. For SD (economy) material, the desired value is 3.8 to 4.0.

Selecting exposure for negative film.

Selecting exposure for MEGAPRO® material plate.

Plate Viewing Diagram

3 Foot distance

Plate

Plate should be perpendicular to and directly across from your line of sight at a 3 foot distance to be read correctly.
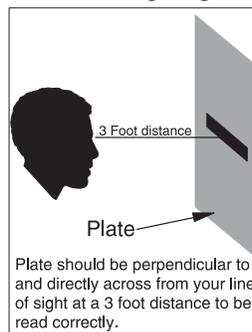
Plate material must be completely dry.

Over Exposed

900

DECREASE EXPOSURE NUMBER

Good Exposure

800

CIRCLES COMPLETELY BLEND INTO BACKGROUND

Under Exposed

700

INCREASE EXPOSURE NUMBER
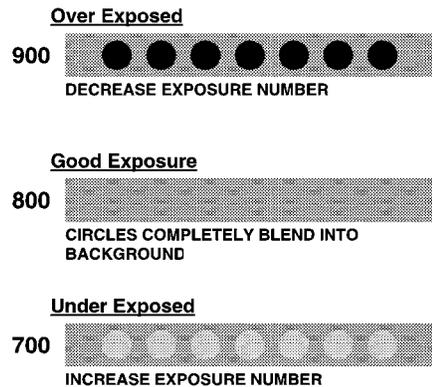
How to Read the Visual Exposure Target

7 Cross Hatch Exposure Target Area: This is an alternative target to determine exposure. This target works best for the Quicksilver™ products.

- Using a 25X loupe, inspect the point at which the positive and negative lines meet at the various exposures.

- Determine the correct number by comparing the results to the illustration.
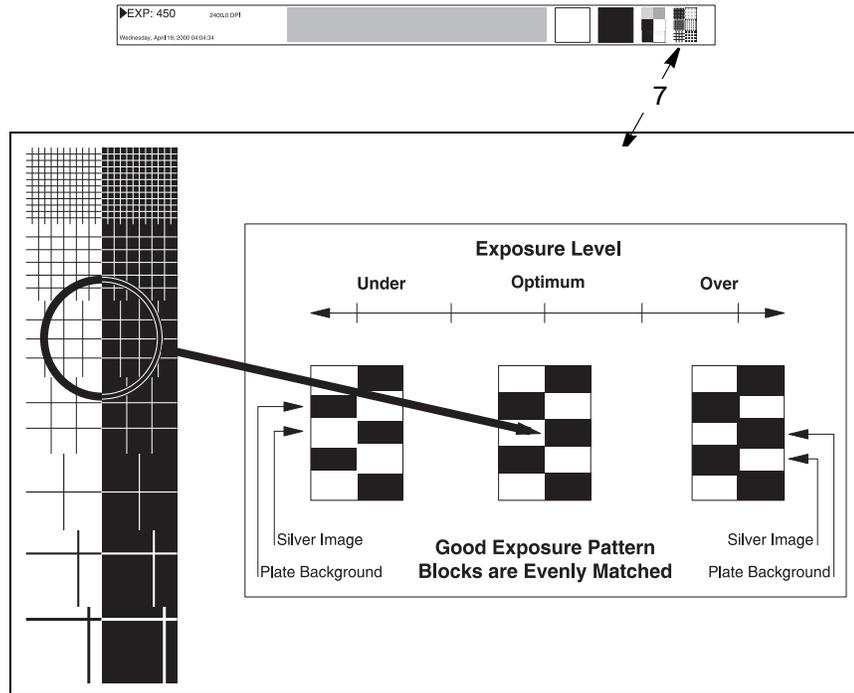
Important factors impacting the accuracy of the settings.

Be aware that the following will impact the results of the exposure calibration process and in turn, the imaging results:

- For negative film material processed off line, a reliable and accurate densitometer capable of measuring transmission densities up to 4.0 or higher is needed.

- The DPM processor chemistry must be within the specified life.

- Plates must be evaluated under the recommended viewing conditions.

Using the Take-up Cassette Accessory

The Take-up Cassette enables you to expose a galley of negative film for offline processing. Negative film is used to expose metal plates.

To Install the Take-up Cassette:

Note: If plate media is loaded, remove the media. See "To remove a Cardboard Cassette:" on page 3-2.

1   Open the Cassette Cover.

2   Remove the guide box.

Push down on the 2 forks and pull the guide box toward you.

Cassette Cover
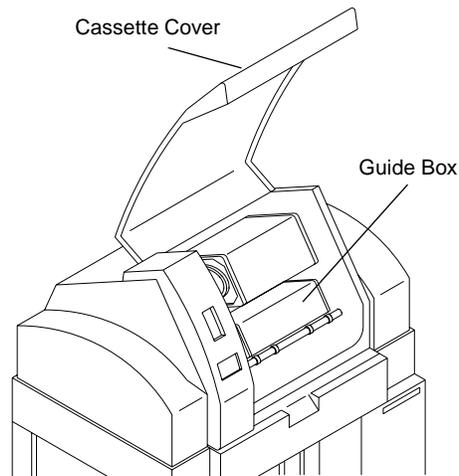
Guide Box

Removing the Guide Box

3   Carefully align the Take-up Cassette over the lower forks, and push the cassette in until it latches.

Take-up cassette

Forks
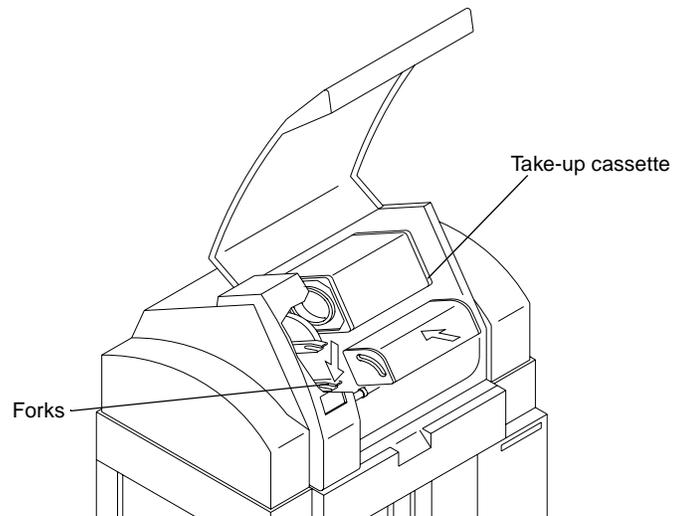
Installing the Take-up Cassette

4 Load an input cassette containing negative film. See *"To load a cardboard cassette:" on page 3-6*.

5 In the PrintersRIP®, configure a page setup and input channel for the Take-up Cassette. See the PrintersRIP® manual.

To remove the Take-up Cassette:

1 If the Take-up panel on the DPM Status Bar shows that the media in the Take-up cassette is uncut, click the lock to display the pop-up menu.

Eject takeup
Cancel

2 Select **Eject takeup** and wait for the lock to open.

3 Open the Cassette Cover.

4 Remove the Take-up Cassette.

Cassette Cover

Take-up

Forks
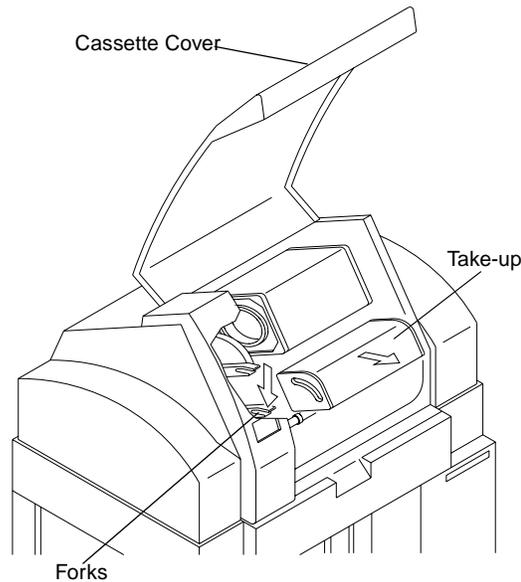
Removing the Take-up Cassette

The media type must be plate for *ON LINE* processing (guide box) of cut plates.

5 Install an empty Take-up Cassette to continue in Take-up mode.

OR

Return to Processor mode. See *"To return to Processor mode:" on page 3-19*.

To return to Processor mode:

1 After the Take-up cassette has been removed, insert the guide box.

2 Load a input cassette containing plate media. See *"Replacing Media" on page 3-2*.

3 Close the top cover.

Adjusting the Plate Catcher

The Plate Catcher, which is located on the back of the DPM, is where the processed plates will be delivered when using the in-line processor.

Each time you produce plates with a new length, the Plate Catcher must be adjusted to accept the length of media that will be produced.

NOTE: When producing plates of various lengths, best results can be obtained by batching plates with similar lengths (less than 10 cm / 4 inches difference).

To adjust the plate catcher:

1   Locate the Plate Catcher.

    Located on the back of the DPM in the middle of the lower half of the equipment.

2   Will you be producing media of various lengths?

NO	YES
Do Step 3 <u>only</u>.	Skip to Step 4.

3   Adjust the Plate Catcher so that it is 2.5 cm (1") longer than the media length you will be producing.

    Grasp the adjustable center slide, and extend it to the appropriate length.

4   Adjust the Plate Catcher so that it is 2.5 cm (1") longer than the longest media length you will be producing.

    Grasp the adjustable center slide, and extend it to the appropriate length.
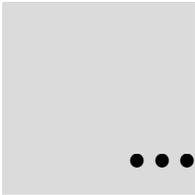
Chapter 4
Troubleshooting

The DPM utilizes a combination of proven imaging design, simple media path, and reliable processor technology. In the unlikely event that difficulty should arise in these areas, the procedures in this chapter will be valuable in resolving media related difficulties.

This chapter contains an explanation of Error Messages and Alerts as well as procedures for removing jams.

Error Messages and Alerts

When malfunctions occur, you are alerted by:

- *"Error Handler Messages"*
- *"Status Bar Error Indicators"*
- *"Device Dialog Errors"*

Error Handler Messages

Error handler messages are displayed with an error code. For details on the error message, click **Detail**.
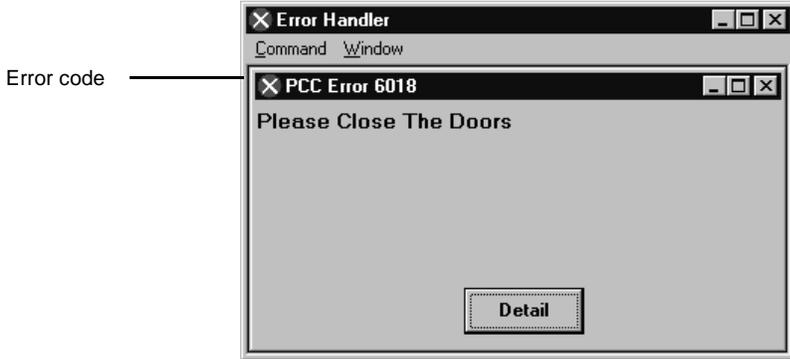
Error code ——————

ERROR CODES	POSSIBLE CAUSE	RECOMMENDED ACTION
6012	Media jam in drum or guide box.	Clear all media from the drum and guide box area. See *"Clearing Drum Area Jams" on page 4-8*.

ERROR CODES	POSSIBLE CAUSE	RECOMMENDED ACTION
6013 or 6014	There is no media in the drum.	Insert an input cassette with media. Click the menu button on the error handler window to access the media database screen. Select the media you are loading. Click **Load**. The job automatically starts.
6015	Take-up Cassette full or contains cut media.	Remove the Take-up Cassette for offline processing and replace it with an empty cassette. The job automatically starts.
6016	No Take-up Cassette in the machine. Negative film is loaded pending job take-up.	Insert a Take-up Cassette or click **Cancel** on the error handler message window.
6017	Machine covers open; interlocks open.	Close the machine covers. Respond to the prompt to eject the fogged media from the drum. The jobs automatically start.
6018	Processor doors open.	Close the processor doors. The jobs automatically start.
6019	Activator Level low.	Wait for the DPM busy indicator to change to ready. Replenish activator chemistry. The job automatically starts.
6019	Stabilizer Level low.	Wait for the DPM busy indicator to change to ready. Replenish stabilizer chemistry. The job automatically starts.
6020	An internal engine error occurred.	Correct the problem based on the error text displayed in the error window. Turn off the DPM and turn it back on. Re-enable the RIP output queue.
6024	Processor temperature is low.	Wait for the processor to warm up, and the job automatically starts.
6026	No guide box in the machine. Plate media is loaded pending job for processor.	Install a guide box. The job automatically starts. Or cancel the job.
6027	Media load operation failed.	Retry the load operation. The drum may need to be cleared if the load failed because of a jam.
6028	Media jam in processor.	Clear all media from the processor area. See *"Clearing processor area jams" on page 4-21*.

Status Bar Error Indicators

Icons displayed in the Status Bar indicate system error, such as when liquid levels are low.
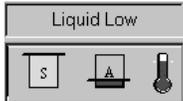
DPM Status	POSSIBLE CAUSE	USER ACTION
Liquid Low S A	Processor Activator level low.	Wait for the DPM busy indicator to change to ready. Replenish activator chemistry. See *"Filling the processor with chemicals" on page 5-5*.
Liquid Low S A	Processor Stabilizer level low.	Wait for the DPM busy indicator to change to ready. Replenish stabilizer chemistry. See *"Filling the processor with chemicals" on page 5-5*.
Unloaded 25894 506mm 8mil Poly	No media in the drum.	Load the material. See *"Replacing Media" on page 3-2*.
Error 25894 506mm 8mil Poly	Material load operation failed.	Retry the load operation. The drum may need to be cleared if the load failed because of a jam.
Warming Up S A	Processor temperature is low. Heater is on.	Wait for the processor to warm up.
Processor Jam S A	Media jam in processor.	Clear all media from the processor area. *"Clearing processor area jams" on page 4-21*.
E ▮▮▮▮▮▮▮▮ F 14.85 m	There is cut media in the Take-up Cassette.	Remove the Take-up Cassette and replace it with an empty cassette.
Images in progress 0 *Icon flashes	No Take-up Cassette in the machine. Film media is loaded.	Install a Take-up Cassette or change the media loaded to plate and install a guide box.
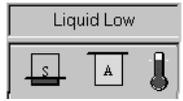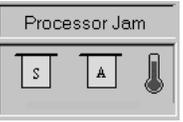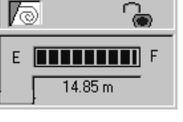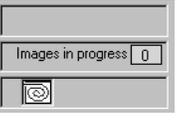
DPM Status	POSSIBLE CAUSE	USER ACTION
Plates in progress 0 *Icon flashes	No guide box. Plate media is loaded.	Install a guide box or change the material loaded to film and insert a Take-up Cassette.
DPM off line Images in progress 0	Engine off or offline.	Turn on the DPM. Enable outputs.
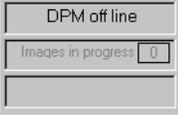
Device Dialog Errors

```
Job Parameter Errors                                    [×]

  (×)    Loaded Media Mismatch (Job Type = Processor,
         Media = RA Film)
         I

  [  OK  ]
```

MESSAGE	POSSIBLE CAUSE	USER ACTION
ScriptWorks Print Buffer size must be at least xxx bytes. Current size is yyy. Please adjust in Configure RIP dialogue.	The **PrintersRIP®** is not configured properly.	From the **PrintersRIP®** menu, click **ConfigureRIP** and adjust the Printer buffer size. Restart the RIP.
Requested resolution is not supported.	A resolution not supported by the DPM has been selected in the page setup.	Use the **PrintersRIP®** menu to correct the resolution in the page setup.
Different X and Y resolutions not supported.	The horizontal resolution and the vertical resolution do not match in the page setup.	Use the **PrintersRIP®** menu to correct the resolution in the page setup.
Media Width Mismatch (engine = xx, job = yy).	The plate width selected in the device dialogue is not achievable with the currently loaded media.	If the plate width is <u>incorrectly</u> set in device dialogue, change it and then click OK. The job will be imaged. Use the **PrintersRIP®** menu to correct the plate width in the page setup so future jobs can proceed. If the plate width specified in the page setup is the correct required width, change the loaded media and click **OK** to run the job or click **CANCEL** to proceed to the next job.
Plate Width [xx] > Max. [yy]. Plate Width [xx] < Min. [yy].	The user has entered an invalid plate width.	Correct the plate width.
Top Margin [xx] < Min. [yy]. Left Margin [xx] < Min. [yy]. Right Margin [xx] < Min. [yy].	The user has entered an invalid margin. Note: The top margin corresponds to the plate gripper (or punch) margin.	Enter a margin value greater than the specified minimum (typically .8").

MESSAGE	POSSIBLE CAUSE	USER ACTION
Image Length [xx] > Min. [yy].	The image dimensions exceed the imageable area of this job.	Click OK to clip the image. Click CANCEL to proceed to next job (this job is moved to the held queue. Click DISABLE to disable the RIP queue and correct the problem at the desktop.
Media type mismatch. Job type: Processor Media type: Negative film	The pending job is going to the processor but the media loaded is negative film.	Cancel to proceed to the next job. OR Select **Disable** to stop the RIP queue and change the loaded media. OR Change the output destination and select **OK** to send the job to take-up.
Media type mismatch. Job type: Take-up Media type: Plate media	The pending job is going to the Take-up Cassette but the media loaded is plate media.	Cancel to proceed to the next job. OR Select **Disable** to stop the RIP queue and change the loaded media. OR Change the output destination and select **OK** to send the job to the processor.

Clearing Jams

When media jams occur in the DPM, the following procedures will assist you in clearing the jams.

Identifying Troubleshooting Areas

There are three main areas where jams may occur—Drum area, Conveyor area and Processor area.

MEDIA and DRUM
Area

CONVEYOR Area

PROCESSOR Area
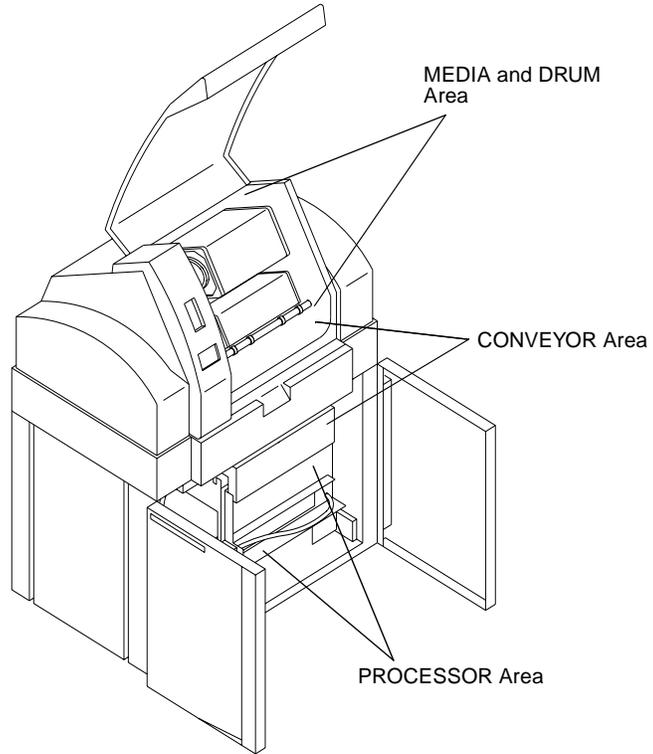
Jam Areas

Clearing Drum Area Jams

If a media jam occurs in the drum area, error messages are displayed in the PrintersRIP® Window. To clear a media jam in this area of the DPM, perform the following jam clearance procedure.

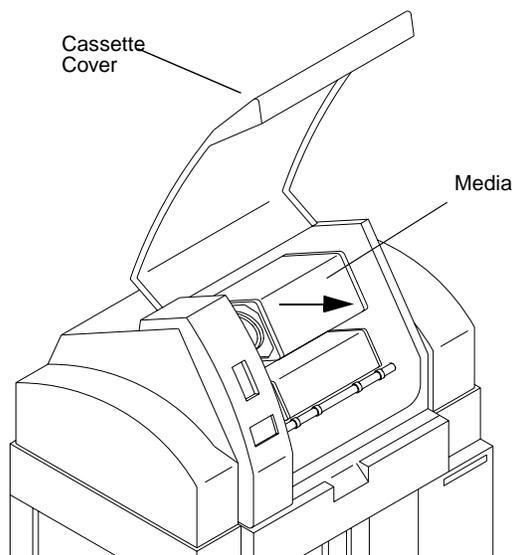### To remove media jams from the drum:

1   Allow sufficient time for any jobs in the processor to finish.

Wait approximately 1 minute, or until the **BUSY** message is no longer illuminated, before doing this procedure.
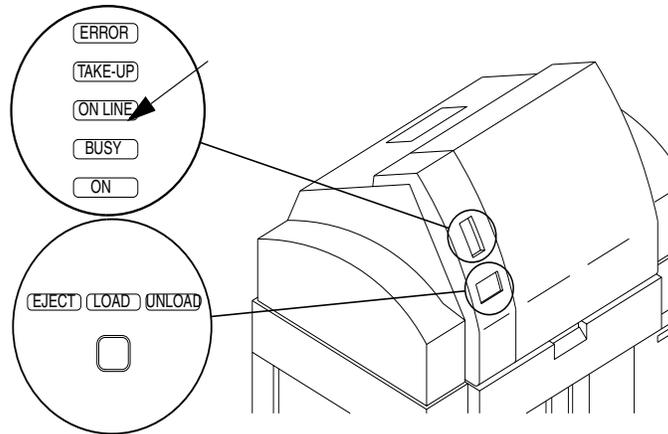
BUSY message

2   Turn off the power switch on the back of the DPM.

3   Open the cassette cover.

4 Pull the media toward you until you can cut the media.

Push down on the forks, and pull the cassette toward you about 20 cm (8 in).

Cassette Cover
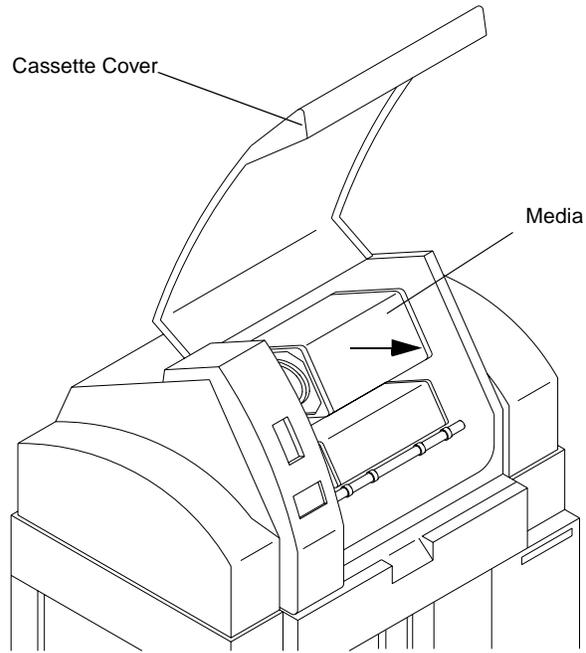
Media

Clearing the Media area

5 Cut the media and remove the media.

6 Is the Take-up Cassette installed?

NO	YES
Do Step 7.	• Pull the Take-up Cassette forward and cut any media extending from the drum into the cassette.
	This will save the imaged media already in the Take-up Cassette.
	• Remove the Take-up Cassette.
	• Skip to Step 11.

7 Pull the guide box toward you and check for media extending through the guide box and into the conveyor area.

Push down on the forks, and pull the guide box toward you.

Cassette Cover

Guide Box or Take-Up Cassette
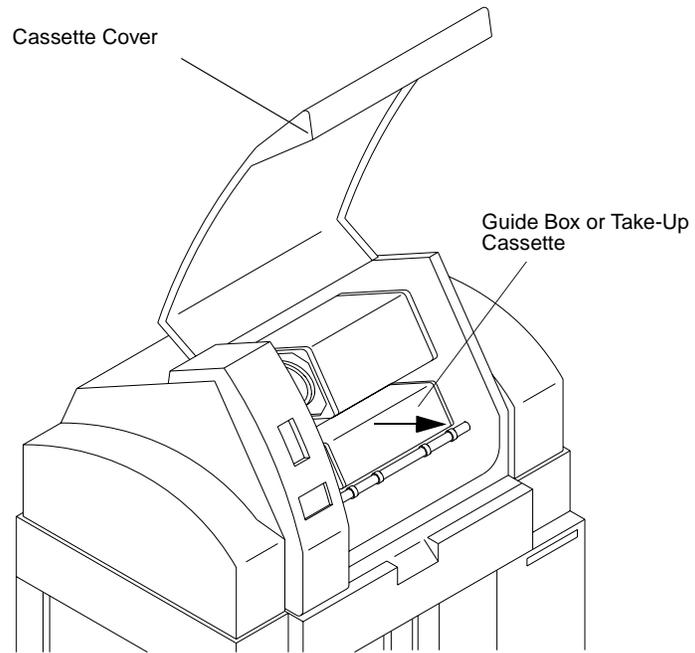
Clearing the Media area

8 Has the media extended into the conveyor area?

NO	YES
Skip to Step 10.	Do Step 9.

9 Remove any media from the conveyor area.

Pull the latch pin at each side of the conveyor and pivot it toward you.

Latch Pins
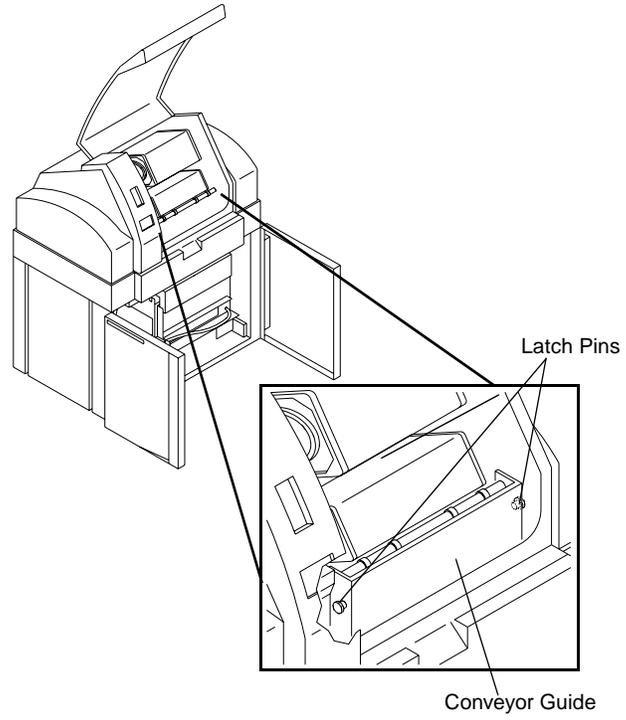
Conveyor Guide

Conveyor Guide

10 Remove the guide box, or (if installed) the Take-up Cassette Accessory.

Push down on the forks, and pull the guide box toward you.

Cassette Cover

Guide Box or Take-up Cassette
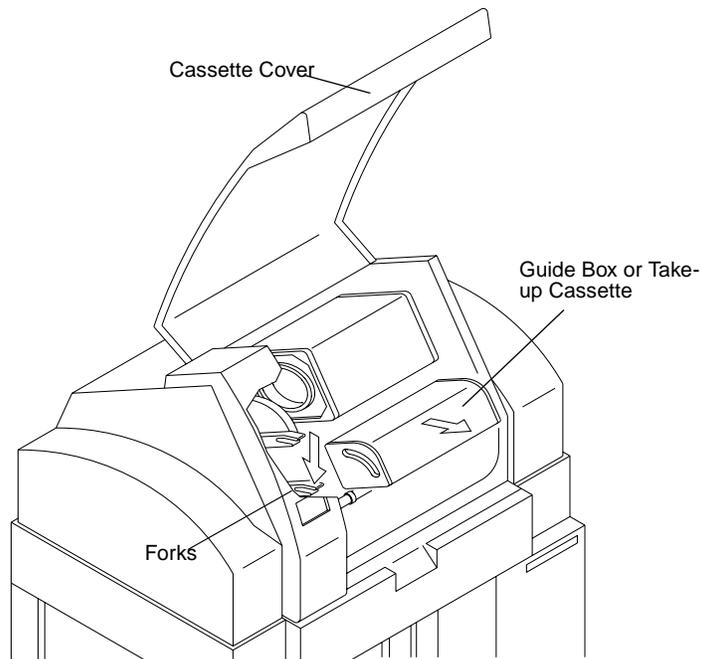
Forks

Removing the Guide Box or Take-up Cassette

11 Remove the upper light shield.

Pivot the latch levers inward, and slide the light shield forward until they clear the forks.

12 Remove the lower light shield

Pivot the latch levers inward, and slide the light shield forward until they clear the forks.

13 Remove the right and left side covers.

Lift them straight up until they clear the machine.

Upper Light Shield

Latch
Levers

Side Cover

Latch
Levers

Side Cover
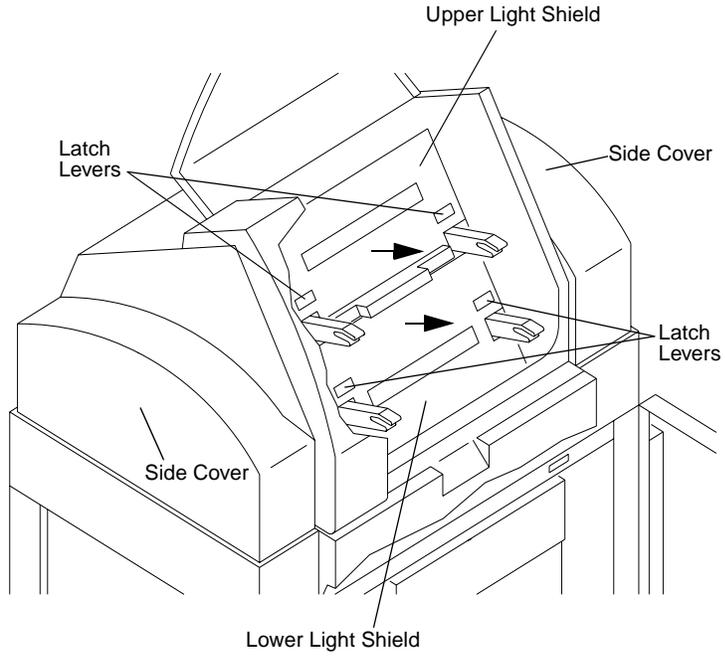
Lower Light Shield

Removing Light Shields and Side Covers

The DPM will not restart if any pieces of media remain in the drum area.

14 Remove all media from the drum.

15 Check the media path through the drum. Are there large folds of media caught in the path?

NO	YES
Skip to Step 17.	The media must be carefully removed. See Step 16.

Drum Area Media Path

16 Remove the large folds of media from the drum media path.

Carefully cut the media out of the media path.
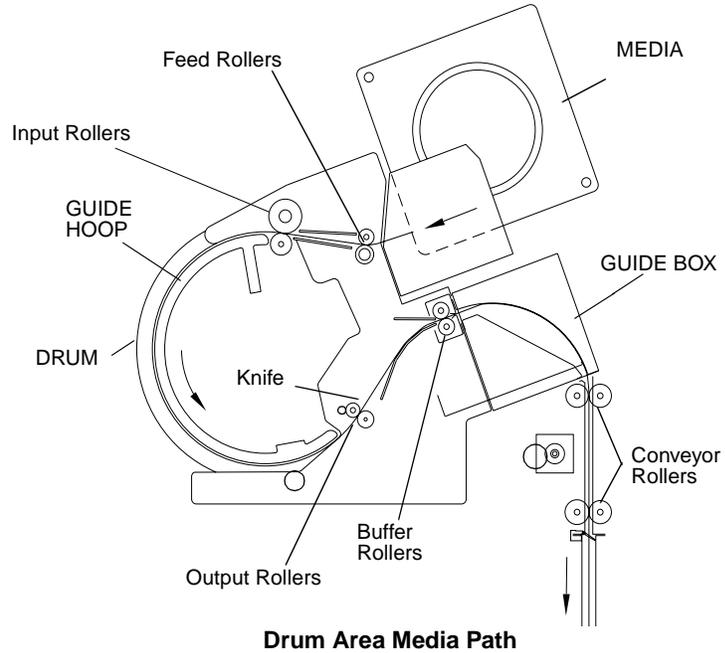
All media must be
removed before
proceeding.

17 Remove any media extending from the feed rollers.

Gently pull the media from the drum and do not exceed 2.25 Kg
(5 lbs.) of force. If the media will not move, check for large folds. If
necessary, do Step 16 again. Install and latch the lower light
shield.

18 Install and latch the lower light shield.

19 Install and latch the upper light shield.

20 Re-install the guide box or Take-up Cassette.

21 Re-install the side covers.

Place them straight down over the cabinet ends.
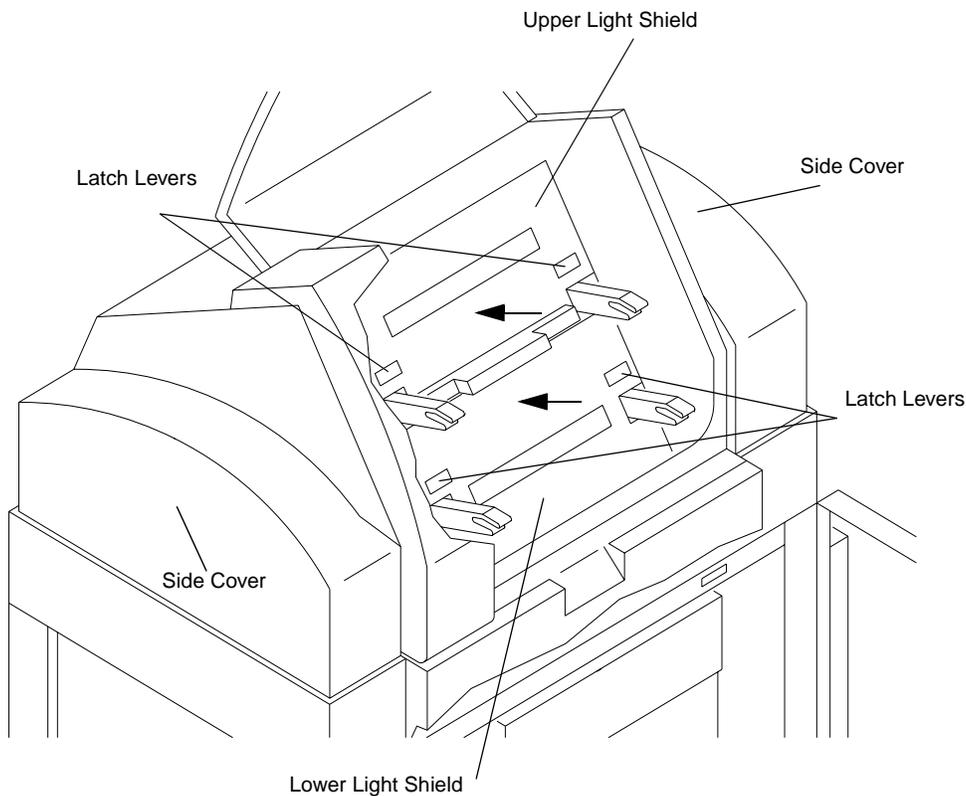
Installing Light Shields and Side Covers

22 Is the processor path clear of media?

NO	YES
See *"Clearing processor area jams" on page 4-21*.	Do Step 23.

23 Turn the power switch on.

24 Wait for the ***BUSY*** message on the Status Panel to go out.
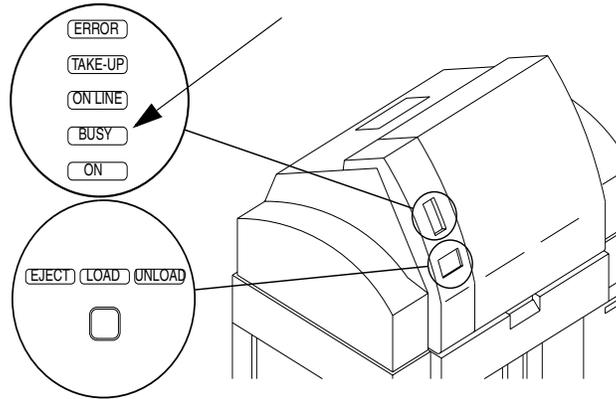
BUSY message on the Status Panel

25 Use the ***Function Switch*** below the Status Panel to reload media.
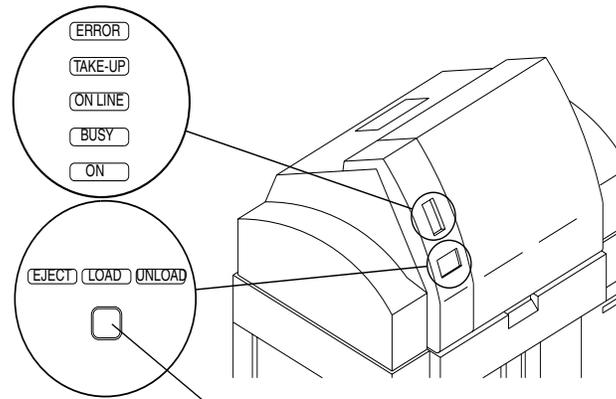
Function Switch

Status Panel and *Function Switch*

26 From PrintersRIP®, select **DPM 2340 > Output > Output Controller/Monitor.**

27 De-select the **disable outputs**.

Click on the 3 for **disable outputs.**
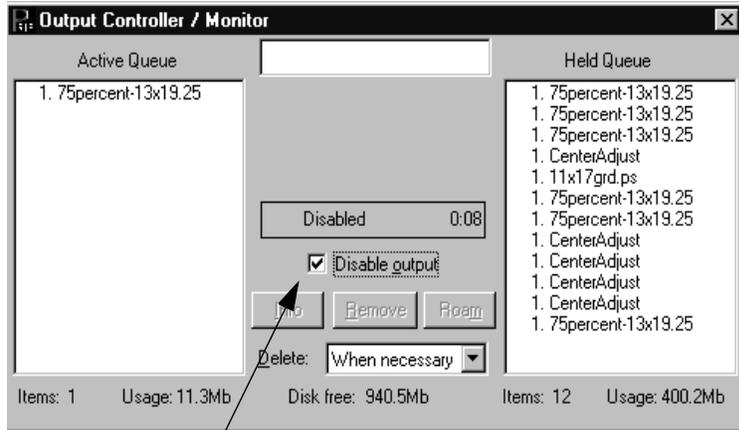
Enable outputs in PrintersRip®

Clearing media jams during load

If the media fails to load properly, error messages are generated in the PrintersRIP® Window indicating the existence of a jam.

To clear a media loading jam:

1 Allow sufficient time for any jobs in the processor to finish.

Wait approximately 1 minute, or until the ***BUSY*** message is no longer illuminated, before doing this procedure.
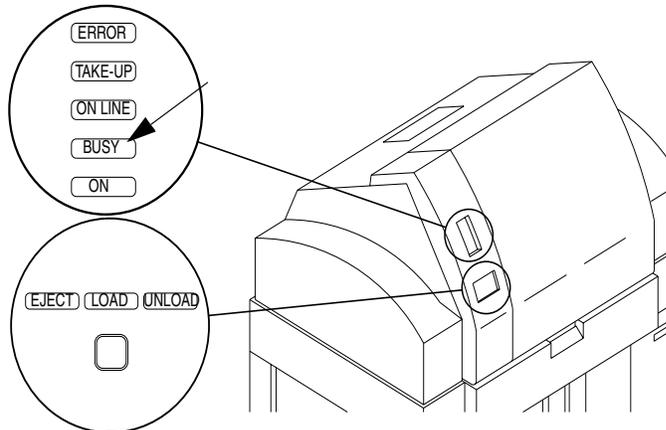
BUSY **message**

2 Turn off the power switch on the back of the DPM.

3 Open the cassette cover.

4 Remove the media and slowly pull it toward you.

Only a short length of media should come out with the cassette.

Push down on the forks, and pull the cassette toward you about 20 cm (8 in).

Cassette Cover

Media

Clearing the Media area

5   Are you able to easily remove the media and the short length of media?

NO	YES
The media is fed too far into the drum. See *"Clearing Drum Area Jams" on page 4-8*.	Do Step 6.

6   Pull a small amount of additional media from the media cassette.

7   Carefully trim the media.

Trim the media even with the longer edge of the cassette adapter guide.

8   Re-install the media.

9   Turn on the power.

The switch is on the back of the DPM.

10 Wait for the processor unit to warm up.

The *BUSY* message turns off.
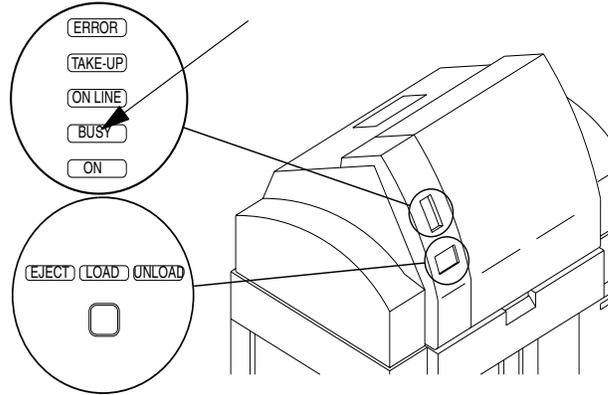
***BUSY* message on the Status Panel**

11 Load the media.

Push the **LOAD** button on the Status Panel to load the media.
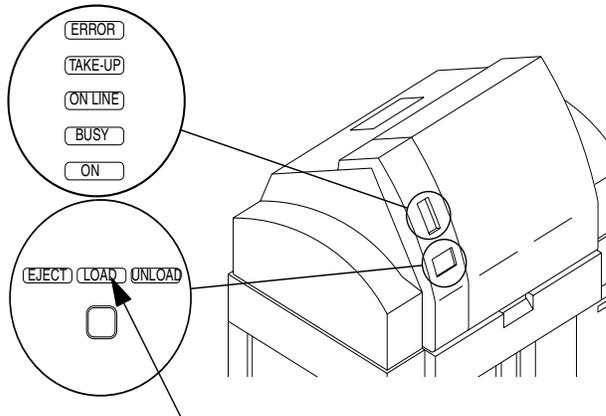
***LOAD* Button on the Status Panel**

12 From PrintersRIP®, select **DPM 2340 > Output > Output Controller/Monitor**.

13 De-select the **disable outputs**.

Click on the 3 for **disable outputs.**

Enable outputs in PrintersRip®

Clearing processor area jams

This procedure will be helpful in clearing any media jam that may occur in the processor area of the DPM.
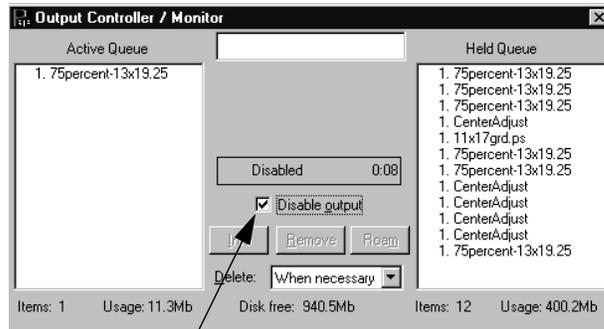
If you are unfamiliar with working in the processor area of the DPM, review the procedures in *"Changing Chemicals" on page 5-2* for more information regarding the processor area.

To clear a media jam in the processor area:

1   Turn off the power switch on the back of the DPM.

2   Open the front doors.

3   Lift the lever up and slowly pull out the processor using the handle.
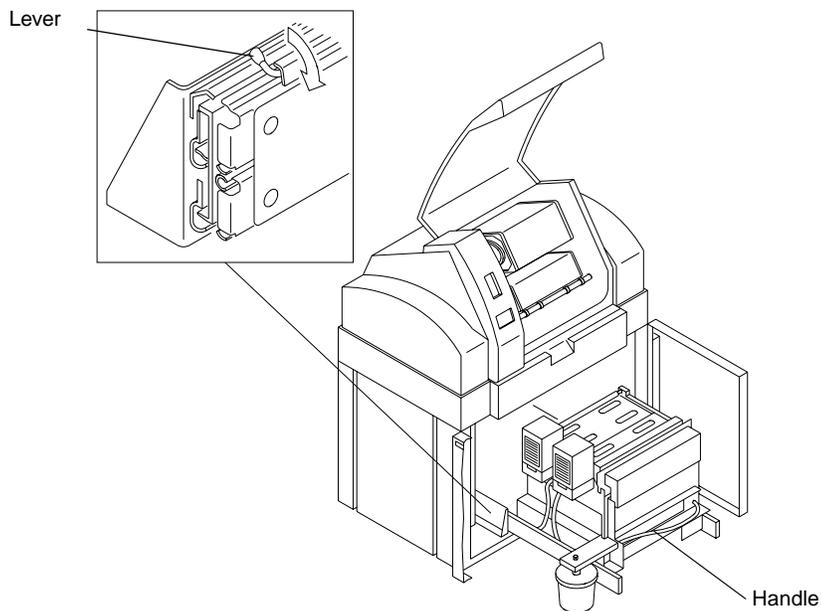
Lever

Handle

Processor Lever and Handle

4   Slide the drip tray out and place it on the floor in front of the processor unit.

The drip tray is stored under the processor unit.

5 Remove any media that has become jammed in the conveyor path. If necessary, see *"Clearing conveyor area jams" on page 4-27* for more information.

Cassette Cover

Front Door

Latch Pins

Front Door

Upper Conveyor Guide   Lower Conveyor Guide
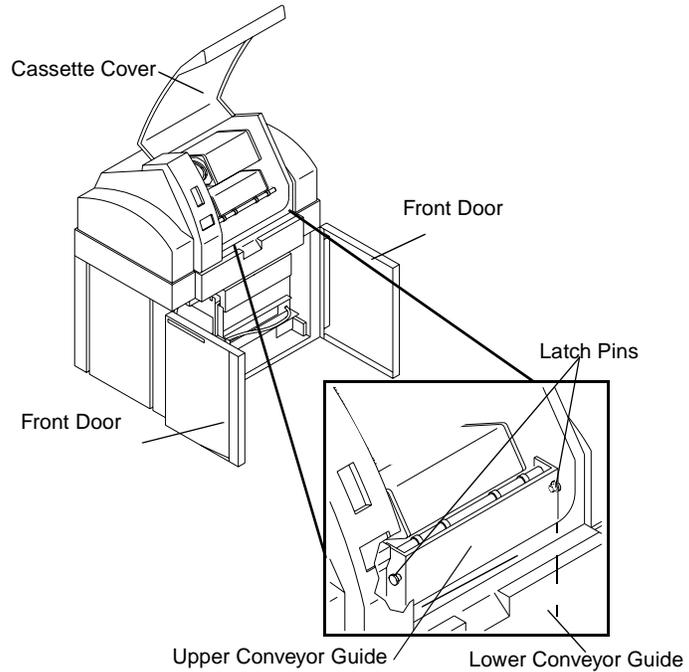
Conveyor Guide

Never remove media by pulling it backwards. This will contaminate the input rollers and require you to clean the input guide and rollers.

6 Remove any media that is jammed in the processor.

Unlatch the input guide and pivot it toward you and pull the media forward through the rollers.
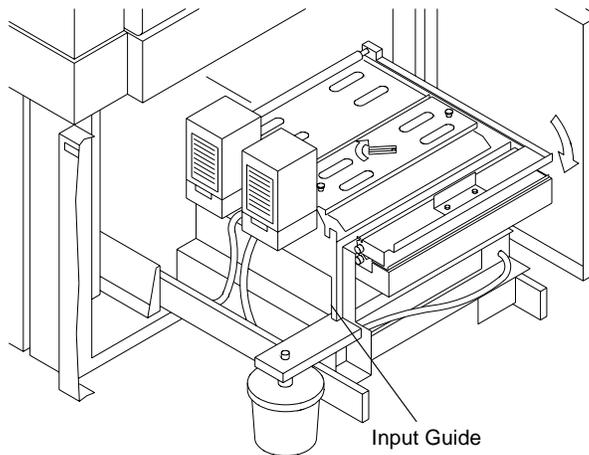
Input Guide

Opening the Input Guide

7 Remove any media that is in the activator rack.

Unlatch and remove the rack. If necessary, remove the activator guide.

8 Remove any media that is in the stabilizer rack.

Unlatch and remove the rack. If necessary, remove the stabilizer guide.

Unlatching the Processor Racks

9 Check that the exit guides are clear of media.

These are located above the plate catcher.

10 Clean any guides that are dirty and may have contributed to the jam.

If necessary, see *"Cleaning the processor unit" on page 5-7* for information about any guide you may need to clean.

Disassembling the Processor Racks

The pin on the rack must be aligned with the slot in the tank.

11 Install the stabilizer rack into the stabilizer tank and the activator rack into the activator tank.

Stabilizer Rack   Activator Rack
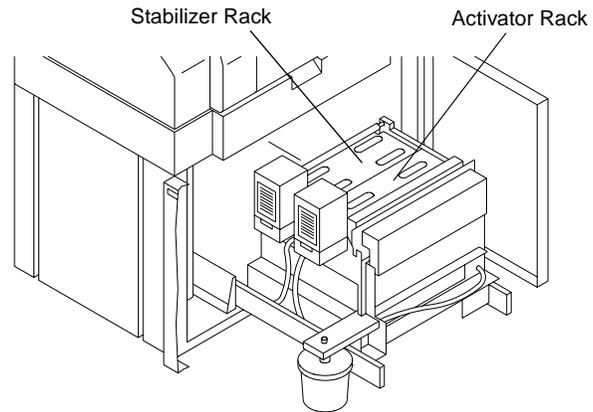
Installing the Processor Racks

12 Ensure that the gears on each rack are engaged.

You will not be able to latch the racks if the gears are not engaged correctly.

13 Latch each rack.

Latch

Latching the Processor Racks

14 Close and latch the processor input guide.

Input Guide

Processor Frame

Input Guide
Latch

Latching the Input Guide

15 Install the drip tray.

16 Push the processor unit into the DPM until it latches.

17 Close the front doors.

Front Doors

Front Doors

18 Turn on the power.

The switch is on the back of the DPM.
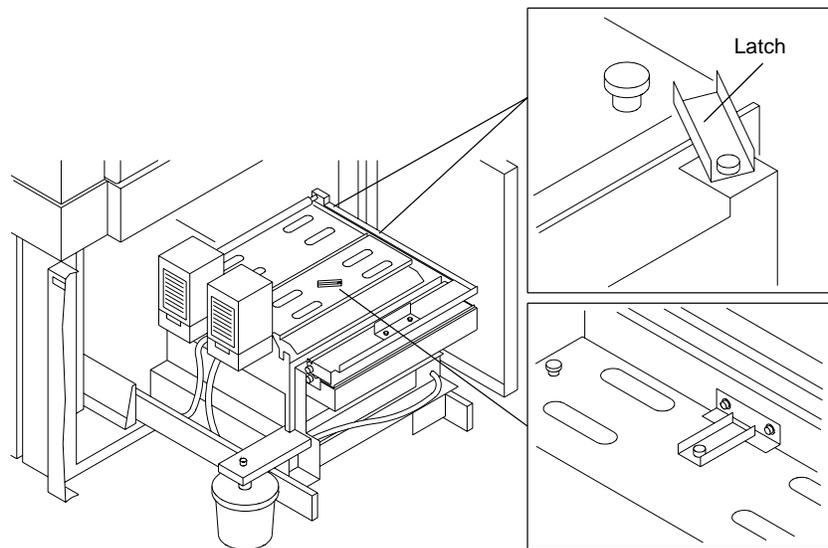
19 Wait for the processor unit to warm up.

The *BUSY* message turns off.
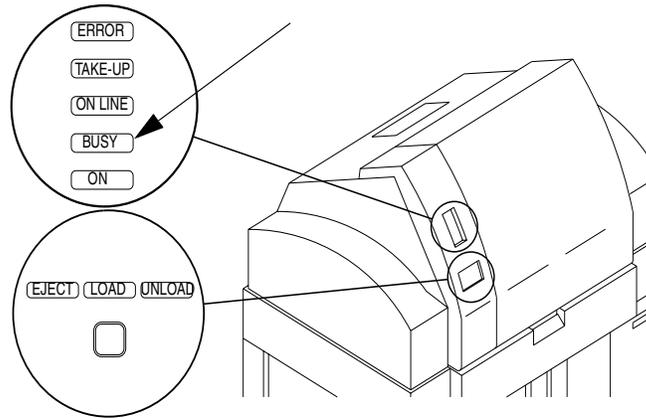
BUSY message on the Status Panel

20 From PrintersRIP®, select **DPM 2340 > Output > Output Controller/Monitor.**

21 De-select the **disable outputs**.

Click on the 3 for **disable outputs.**
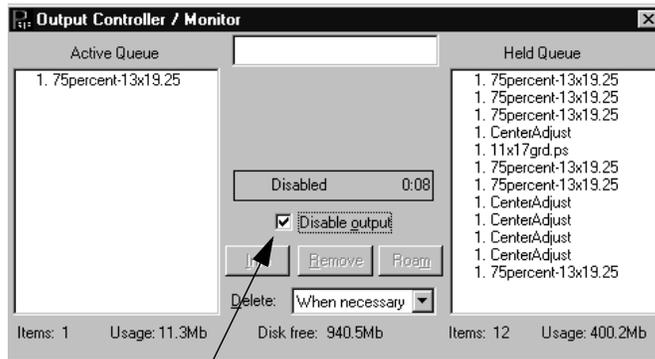
Enable outputs in PrintersRip®

Clearing conveyor area jams

Media jams that occur in the conveyor area can be cleared using this procedure.

To clear a conveyor area jam:

1 Allow sufficient time for any jobs in the processor to finish.

Wait approximately 1 minute, or until the **BUSY** message is no linger illuminated, before doing this procedure.

BUSY message

2 Turn off the power switch on the back of the DPM.
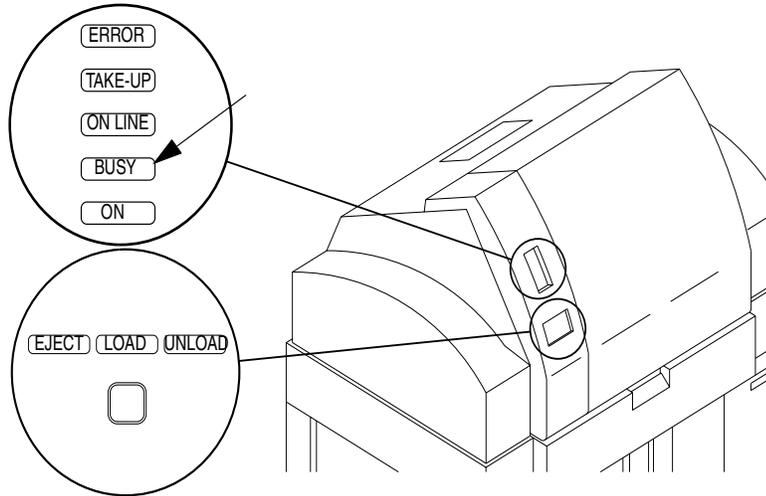
ON/OFF Switch is located on the back of the DPM
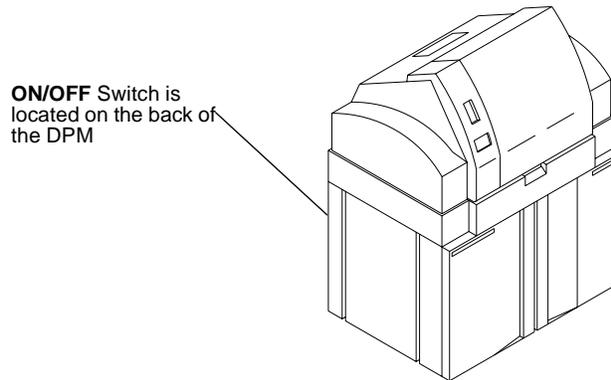
Power On/Off Switch

3 Open the cassette cover.

4 Open the front doors.

Cassette Cover
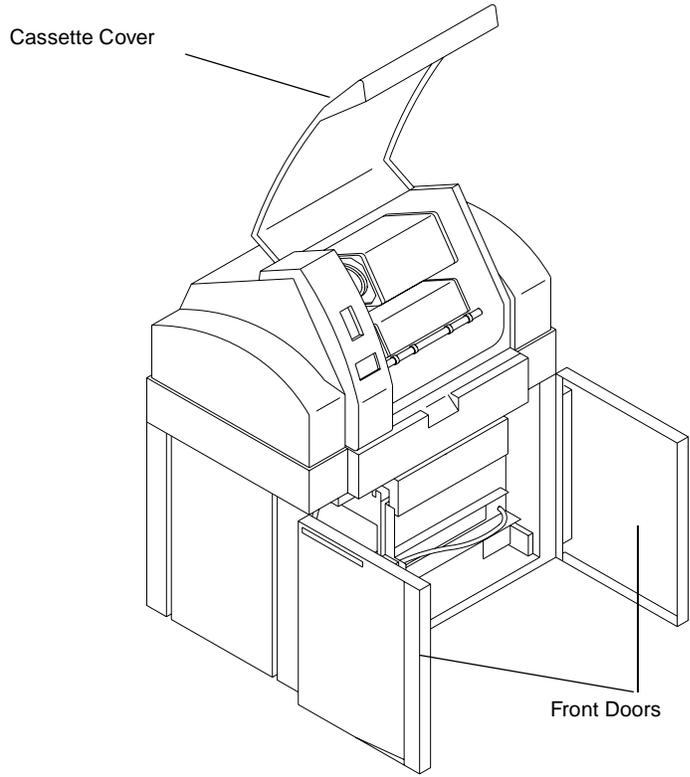
Front Doors

Cassette Cover and Front Doors

If there is media extending from the guide box, see *"Clearing Drum Area Jams" on page 4-8* for more information.

5 Remove any media from the upper portion conveyor area.

Pull the latch pin at each side of the conveyor and pivot it toward you.

Cassette Cover

Front Door

Latch Pins

Front Door

Upper Conveyor Guide   Lower Conveyor Guide
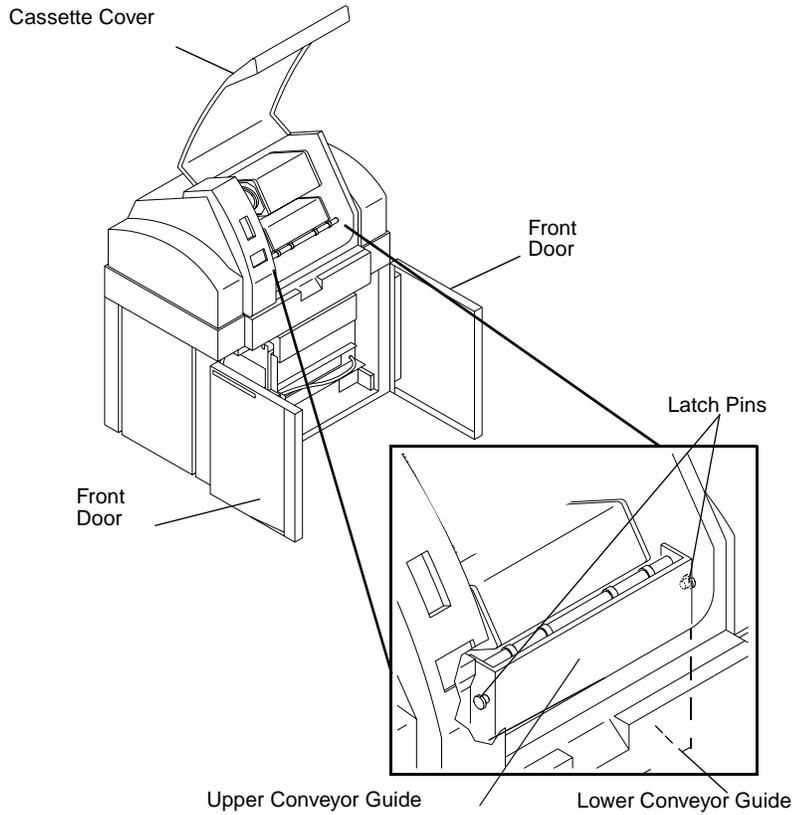
Conveyor Guide

6 Remove any media that is in the lower portion of the conveyor.

Swing the lower conveyor guide toward you to remove any media.

This is located just below the upper portion of the conveyor guide. It can be accessed through the front doors.

7 Close and latch the upper and lower portions of the conveyor guide.

If there is media jammed in the processor, see *"Clearing processor area jams" on page 4-21* for more information.

8 Check for any media that may be jammed in the processor path.

9 Close the front doors and cassette cover.

Cassette Cover

Front Door
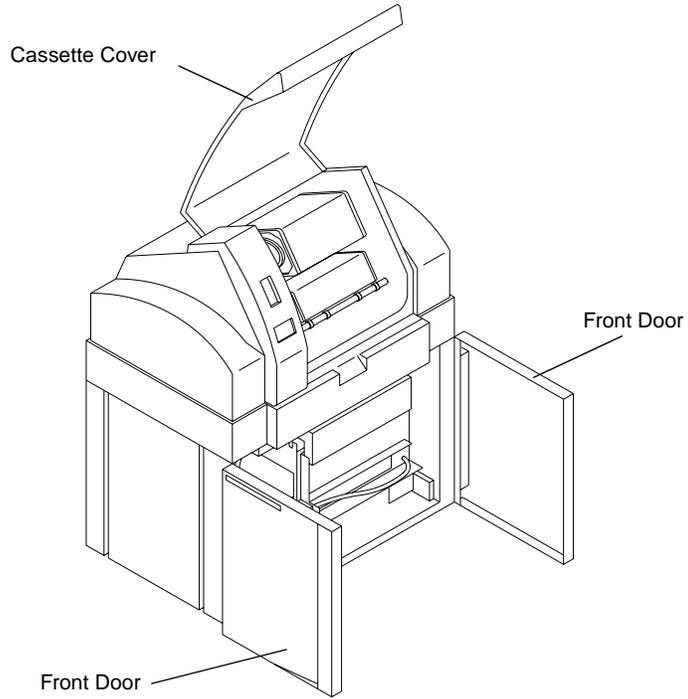
Front Door

Cassette Cover and Front Doors

10 Turn on the power.

The switch is on the back of the DPM.

11 Wait for the processor unit to warm up.

The *BUSY* message turns off on the Status Panel.
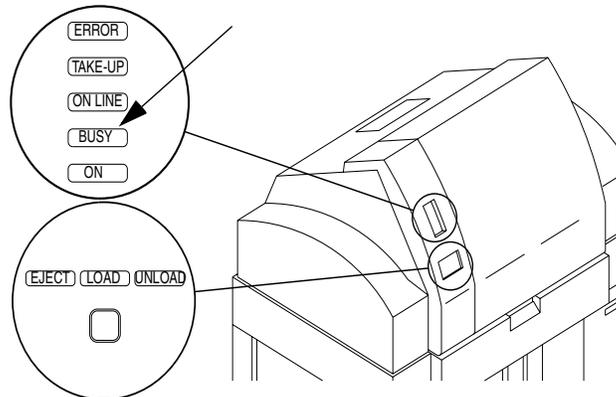
ERROR
TAKE-UP
ON LINE
BUSY
ON

EJECT LOAD UNLOAD

BUSY **Message on the Status Panel**

12 From PrintersRIP®, select **DPM 2340> Output > Output Controller/Monitor**.

13 De-select the **disable outputs**.

Click on the 3 for **disable outputs.**
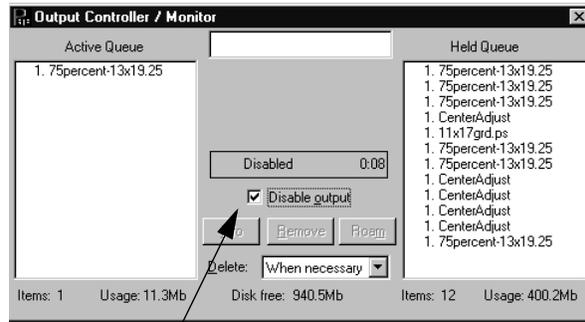
Enable outputs in PrintersRIP®

Chapter 5
Maintaining the DPM

Your DPM has been designed to deliver consistent high quality output. To ensure that the outstanding imaging results you have become accustomed to are not degraded, a few maintenance activities are required.

This chapter details those procedures that should be performed.

Servicing the DPM Quarterly

The DPM requires cleaning and lubrication by an authorized ABDick service technician every 3 months. Contact the authorized service organization in your area to schedule this.

Changing the Air Filter

The air filter, 2340-AF, must be changed every 3 months to ensure that dust does not contaminate the imaging area, and that sufficient air flow is maintained in the drum area.

To change the air filter:

1 Turn the platemaker off.

2 Open the filter cover and remove the air filter.

3 Install a new filter, 2340-AF with the metal mesh down, and close the cover.

Filter Cover

ON/OFF Switch is located on the back of the DPM
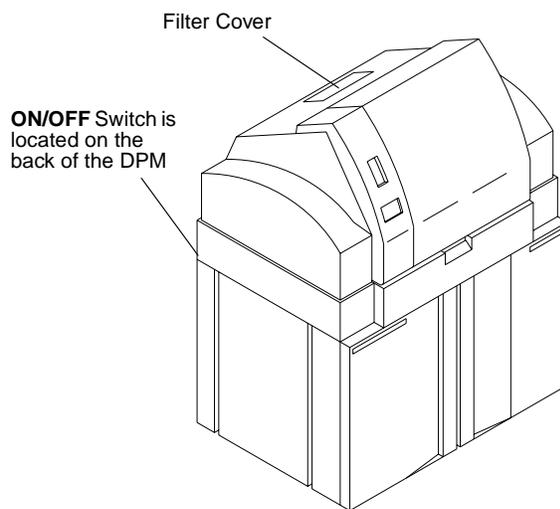
Changing the Air Filter

Changing Chemicals

Important: To obtain optimum results with your new chemicals, you should also clean the processor unit at the same time you change chemicals. The activator filter element should also be changed every month.

Draining chemicals

To drain the chemicals:

1   Open the front doors.
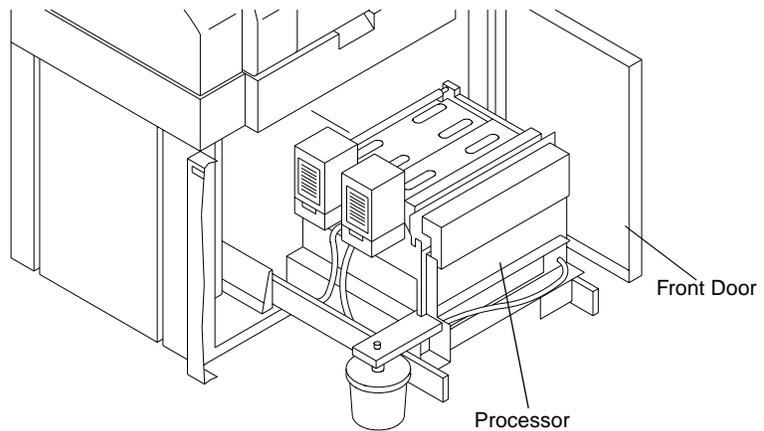
Processor

2   Lift the lever up and slowly pull out the processor using the handle.
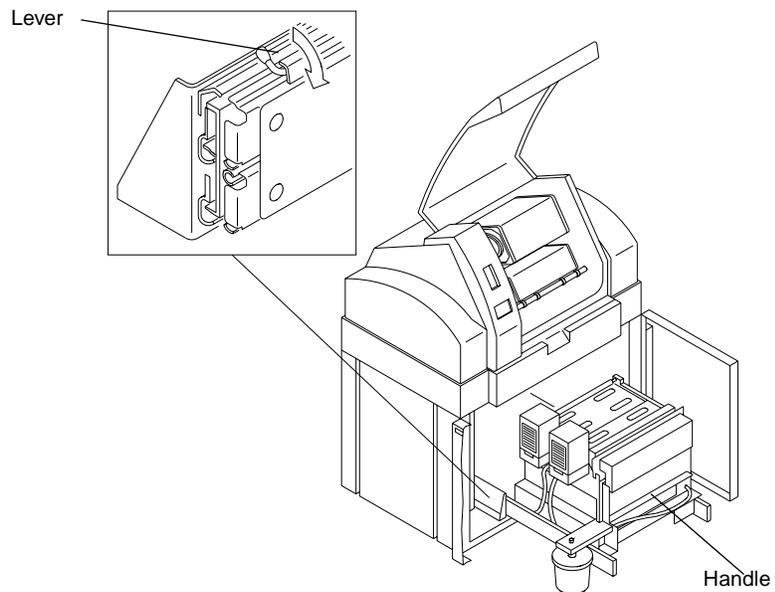
Processor Lever and Handle

3   Remove the chemistry replenisher bottles.
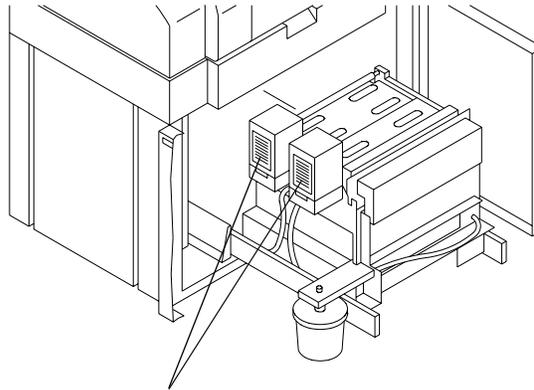
Replenisher Bottles

Locating the Replenisher Bottles

Do not allow each tank to drain unattended.

4   Place a bucket under the side of the processor unit.

5   Locate the drain hoses on the side of the processor. Place the end of the stabilizer drain hose in the bucket.

The hose toward the back of the processor is the stabilizer drain hose.

6 Turn the lever to open the hose valve.

The stabilizer chemistry will drain from the tank into the bucket.

Processor Unit

Stabilizer Hose

Valve   Activator Hose
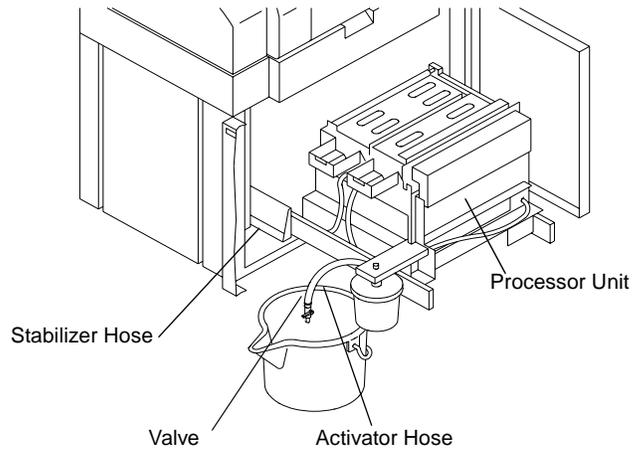
Draining the Processor Tanks

7 When the tank is empty, turn the lever to close the hose valve.

8 Return the hose to its original position and empty the bucket.

9 Repeat Steps 4 - 8 to drain the activator tank.

10 Push the red button on the filter.

The pressure in the system must be released before opening the filter assembly.

11 Place a bucket under the activator filter canister.

12 Carefully unscrew the activator filter canister.

WARNING! Obey all laws regarding disposal of chemicals in your area.

The filter is full of activator chemicals.

Red Button

Bucket

Activator Filter Canister
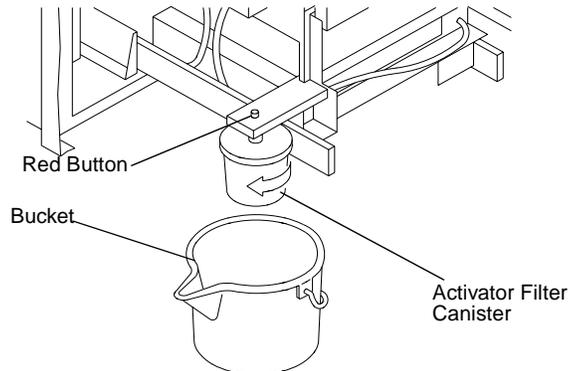
Draining the Filter Canister

Replace the activator filter every month for the Quicksilver™ products.

Replace the activator filter element every month, or every chemical change with the MEGAPRO® products.

No mixing is required for the Quicksilver™ products.

If mixing is required, do not pour chemicals and water separately into the tanks. This will not result in proper mixing.

Each tank holds 5.0 gallons (19 liters) of chemistry. An additional 2 quarts (1.9 liters) is for the replenishment bottles.

Always have the rack assemblies in position before filling the unit with chemistry.

13 Drain the filter canister.

Tip the canister to drain the chemicals.

14 Re-assemble the filter taking care not to cross-thread the canister.

15 Always clean the processor when changing chemistry. See *"Cleaning the processor unit" on page 5-7* in this Chapter.

Filling the processor with chemicals

To fill the processor with chemicals:

1 Read the label on the chemical bottles to determine if mixing is required. Follow mixing instructions when required.

2 Check that both drain hose valves are closed.
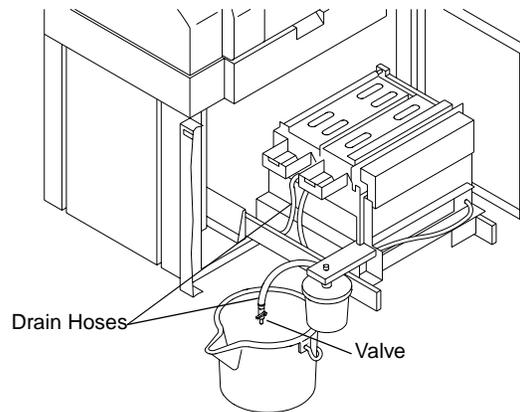
Drain Hoses

Valve

Closing Drain Hose Valves

3 Pour the solution into the filling spout of the tank (where the replenisher bottle was removed). Be careful to pour solution into the correct tank. Tanks are labeled on the outside. Fill until the chemical level reaches the base of the filling spout. Don't overfill.

4 Fill the replenisher bottle and install the feeder cap. Insert the replenisher bottle into the filling spout with the label facing out.

The replenisher bottle will add chemistry to the tanks bringing it to the proper fluid level.

▷ Refill the replenisher bottles as needed.

Replenisher Bottle and Label   Filling Spout
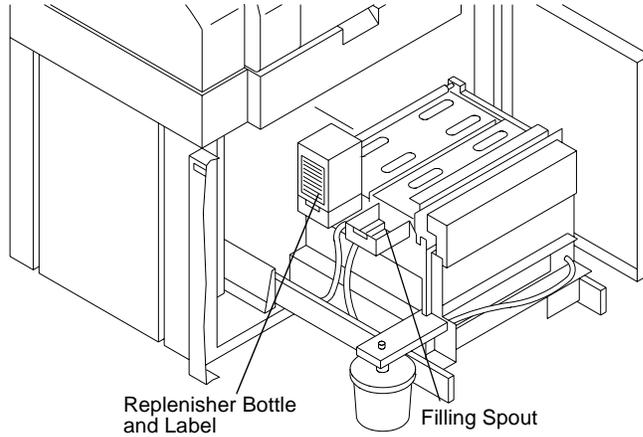
Filling Tanks and Replenisher Bottles

5 Rinse the mixing container and stirring stick, if necessary.

6 Have both tanks been filled?

NO	YES
Repeat Steps 1 - 6 to mix the other chemical solution and fill the other tank.	Do Step 7.

7 Gently push the processor unit into the DPM.

Be careful to avoid spilling the chemicals.

8 Close the front doors.

9 Wait for the processor unit to warm up before beginning operation.

The platemaker will not operate until it has reached operating temperature (15 - 20 minutes).

Cleaning the processor unit

Failure to properly clean the processor on a timely basis can result in
improper processing, scratches on plates, jams, and reduced chemical
life. Since you must change your chemicals at the same time, you should
clean the processor unit every time you change chemicals. The processor
unit also includes a filter, 2340-PF, to remove particles from the activator
chemistry. This filter should be changed every month, or with every
activator chemical change with MEGAPRO$^®$ products, and every month
for the Quicksilver™ products.

To clean the processor unit:

1   Open the front doors.

2   Lift the lever and <u>slowly</u> pull out the processor unit using the
    handle.

Lever
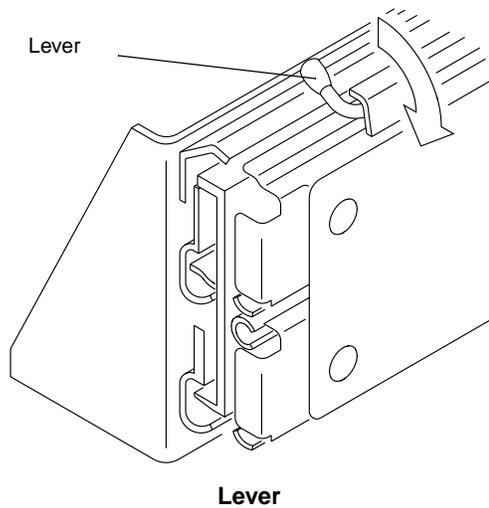
3   Remove the chemistry replenisher bottles.

4   Drain the chemicals from both tanks.

    See the *"Draining chemicals" on page 5-2* in this Chapter.

5   Slide the drip tray out and place it on the floor in front of the
    processor unit.

    The drip tray is stored under the processor unit.

6   Unlatch and pivot the processor input assembly.

7 Turn the latches on each processor rack.
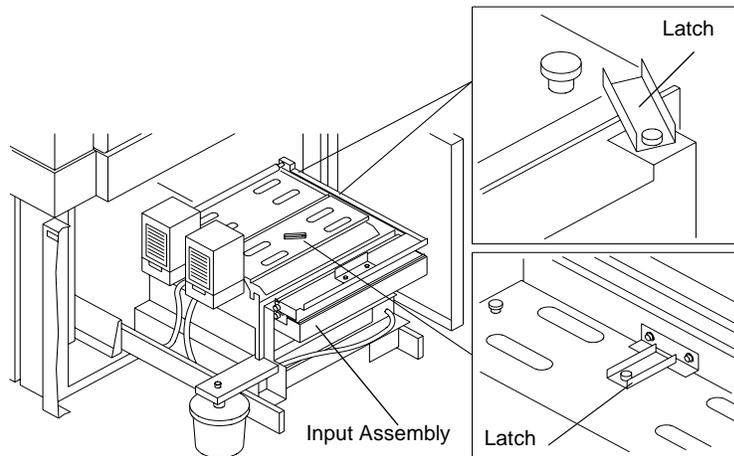
Unlatching the Processor Racks

8 Lift one rack out and set it on the drip tray.

9 Take the drip tray and rack to a sink for cleaning.

10 Repeat Steps 8 and 9 for the second rack.

Do Steps 11-13 to clean the Stabilizer Rack.

11 Remove the thumb screws and the guide for the stabilizer rack.
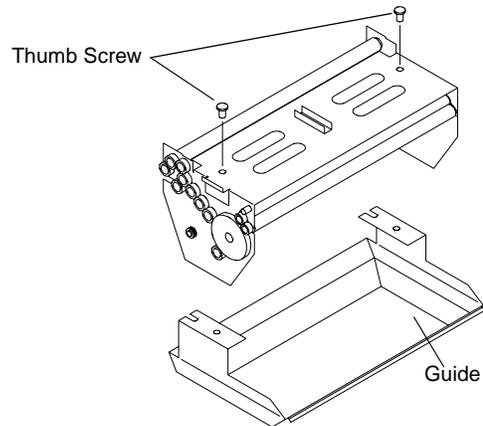
Disassembling the Stabilizer Rack

Do not use abrasive materials such as sanding cloth or scouring pads on any rollers or guide.

12 Clean the racks, guide, and 6 rollers with clean, warm water.

Rollers and guide should be cleaned with isopropyl alcohol and a cotton pad.

Polish all of the stainless steel guides with a high quality metal polish.

2 Rollers

Paddle Wheels
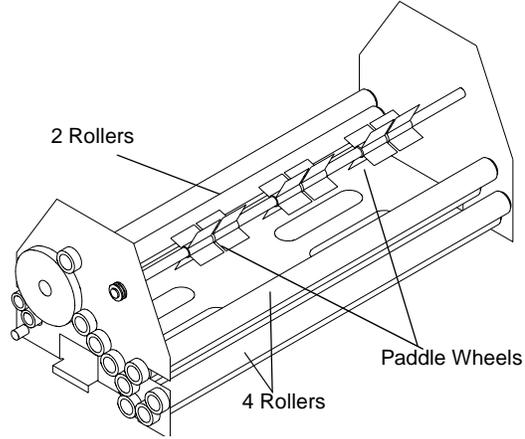
4 Rollers

Rollers and Paddle Wheels

13 Install the guides back onto the racks making sure the "V" in the tab is aligned correctly with the pin in the rack.

"V" Groove
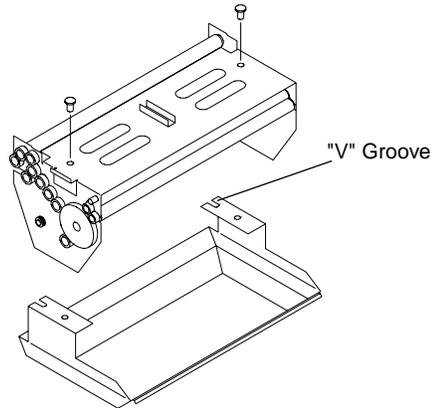
Re-assembling the Stabilizer Rack

Do Steps 14-19 to clean the Activator Rack.

14 To remove the Paddle Shaft:

- Unscrew the thumb screw approximately 1/4-in. (6 mm). Do not completely remove the thumb screw.

- Slide the bushing outward to the thumb-screw. With the bushing free of the rack, pivot the shaft out of the rack.
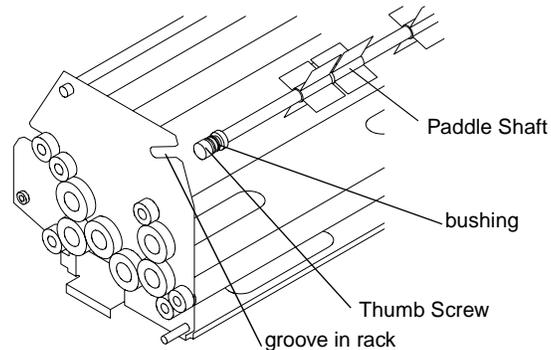
Disassembling the Activator Rack

15 Remove the two thumb screws (A) through the top of the rack and remove the top and bottom guides.

16 Loosen the thumb screws (B) and separate the top guide from the bottom guide.

17 Loosen the thumb screws (C) and remove the front guide.
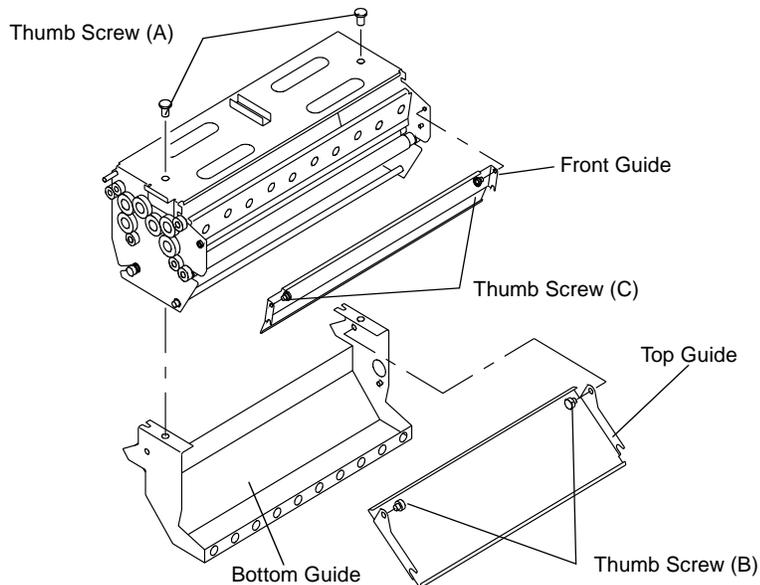
Do not use abrasive materials such as sanding cloth or scouring pads on these parts.

18 Clean the racks, guides, and rollers with clean, warm water.

Rollers and guides should then be cleaned with isopropyl alcohol and a cotton pad.

Polish all of the stainless steel guides with a high quality metal polish.

19 Install the top guide into the bottom guide. Then, install the top, bottom and front guides back onto the racks making sure the "V" groove in the lower guide tab is aligned correctly with the pin in the rack.
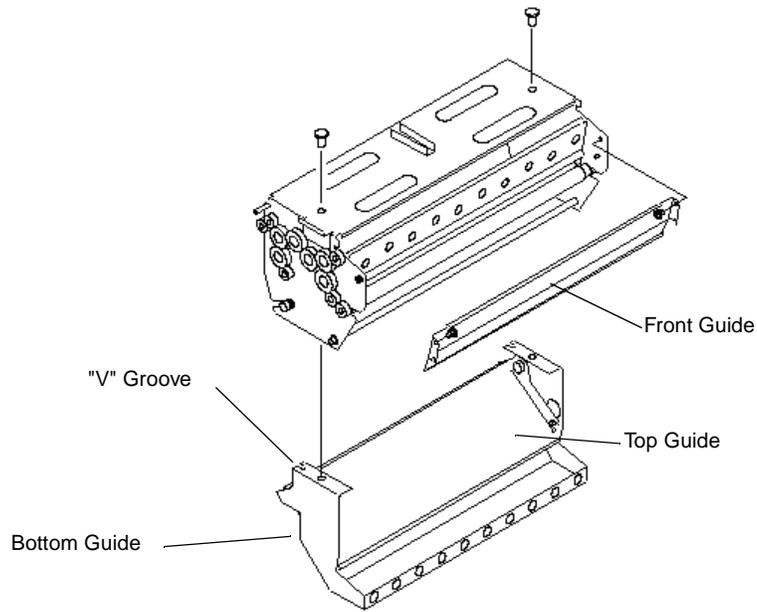
Re-assembling the Activator Rack

20 Install the paddle shaft:

- Holding the bushing and the thumb screw at the end of the shaft, pivot the shaft into the groove of the rack.
- Seat the bushing in the groove of the rack.
- Tighten the thumb screw.
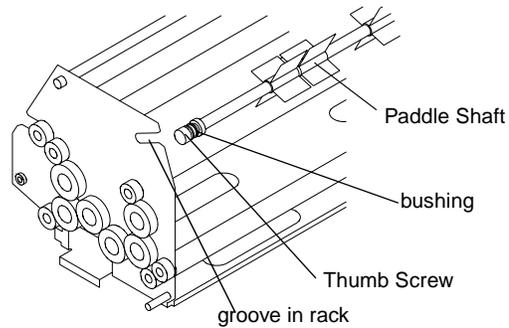
Installing the Paddle Shaft in the Activator Rack

21 Rinse the tanks with warm water. Drain the tanks using the drain hoses and a bucket.

22 Wipe the tanks dry with a clean cloth.

▷ The pin on the rack must be aligned with the slot in the tank.

23 Install the stabilizer rack into the stabilizer tank and the activator rack into the activator tank.

Stabilizer Rack   Activator Rack
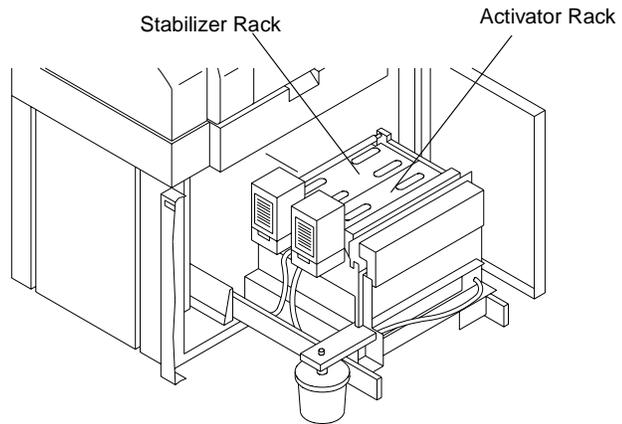
Installing the Processor Racks

24 Ensure that the gears on each rack are engaged.

You will not be able to latch the racks if the gears are not engaged correctly.

25 Latch each rack.
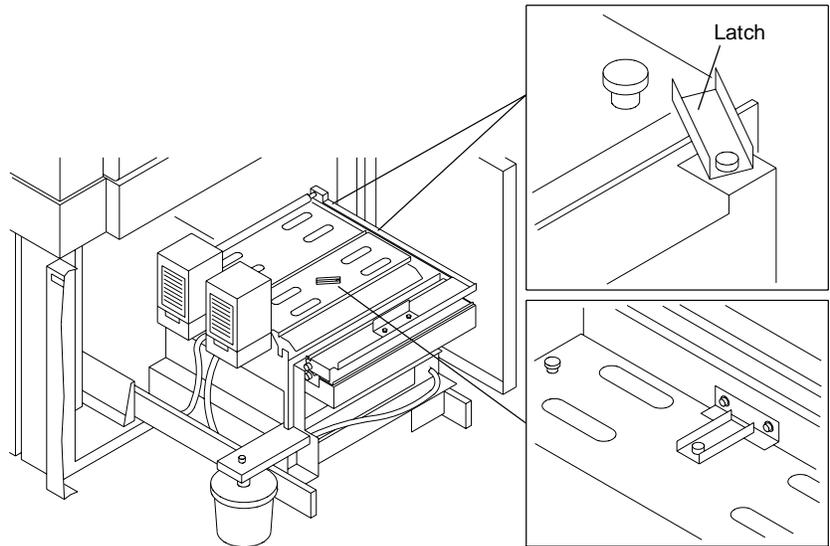
Latch

Latching the Processor Racks

26 Is the input guide clean?

The processor input guide does not need to be cleaned every time the chemistry is changed. Cleaning is only necessary if a residue builds up on the guide.

NO	YES
Do Steps 27 - 30.	Skip to Step 31.

27 Remove the 2 thumb screws on the processor input guide.

28 Lift the guide out.

Guide

Thumb Screw (2)   Input Assembly
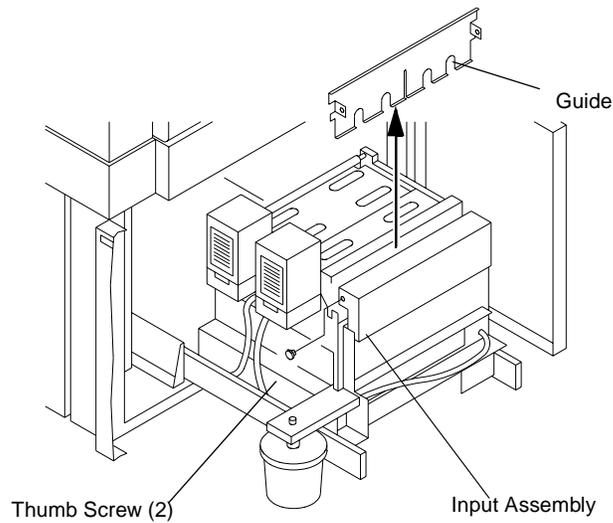
Removing the Input Assembly Guide

29 Clean the guide you removed and the one in the DPM.

30 Install the guide using the 2 thumb screws.

Guide

Thumb Screw (2)   Input Assembly
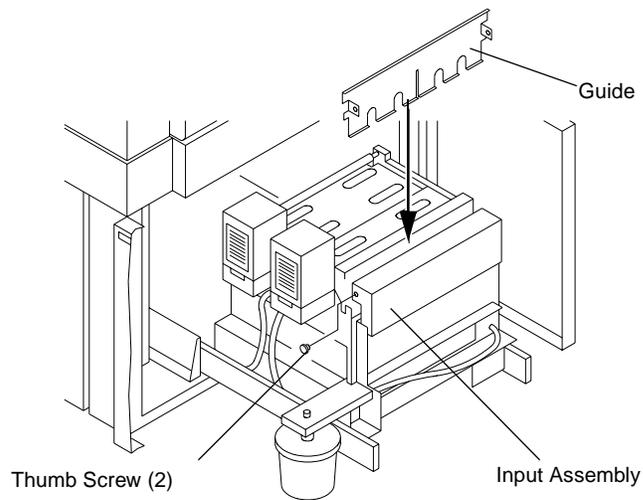
Assembling the Input Assembly Guide

The processor input guides will only latch when it is closed correctly.

31 Close and latch the processor input guide.

Input Guide

Processor Frame
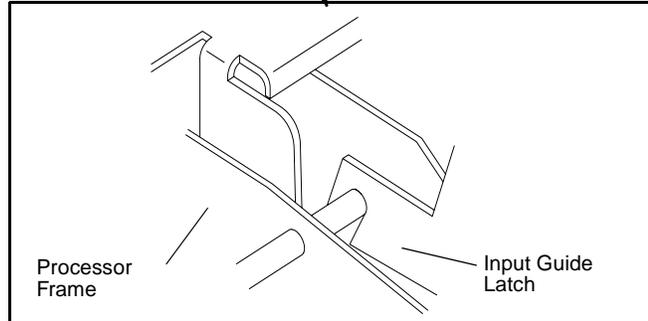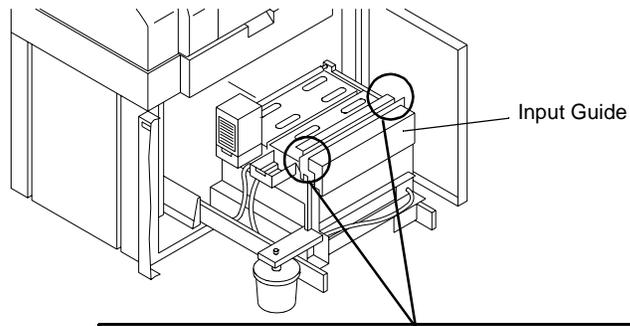
Input Guide Latch

Latching the Input Guide

32 Install the drip tray.

33 Refill the tanks and replenisher bottles with chemicals. See *"Filling the processor with chemicals" on page 5-5* in this Chapter.

34 Install the replenisher bottles.

Replenisher Bottles
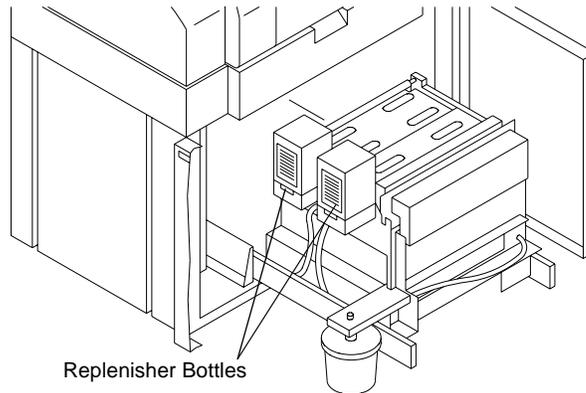
Installing the Replenisher Bottles

35 Push the processor unit into the DPM.

36 Close the front doors.

37 Wait for the processor unit to warm up before beginning operation.

The platemaker will not operate until it has reached operating temperature (15 - 20 minutes).

Appendix

Supporting Applications

For assistance in the operation of the DPM, consult the ABDick I.Q. Knowledge Database online (www.abdick.com) or contact the Digital Prepress Support Center at (888) 787-7222 in the United States.

Locating Authorized ABDick International Subsidiaries

Canada

ABDick Company of Canada, Ltd.
94 Brockport Drive
Rexdale, Ontario M9W 5C5
Telephone: (416) 675-3933
Fax: (416) 675-6986

United Kingdom

ABDick Ltd.
Great West Trading Estate
983 Great West Road
Brentford, Middlesex
England   TW8 9DN
Telephone: 44 20 8326 1200
Fax: 44 20 8326 1201

Locating Authorized ABDick International Regional Offices

Europe, Africa, and Near East

ABDick Ltd.
European Distributor Group
Great West Trading Estate
983 Great West Road
Brentford, Middlesex
England TW8 9DN
Telephone: 44 20 8326 1200
Fax: 44 20 8326 1201

Latin America and Caribbean Region

7400 Caldwell Ave.
Niles, IL 60714
Telephone: (772) 785-9157
Fax: (772) 878-8069

Pacific and Far East Region

7400 Caldwell Ave.
Niles, IL 60714
Telephone: (847) 647-2491
Fax: (847) 647-6940

Important Safety Warnings

- Before attempting to operate the platemaker, be certain that each operator has read this guide and is thoroughly familiar with the operating instructions and safety warnings.

- Always unplug the machine before undertaking repair, service, or maintenance.

- Read and heed all warning labels.

- Do not modify the unit, remove guards, covers, etc. and/or attempt to defeat any interlock switches. Under no circumstances attempt to operate the machine without all safety covers, interlocks, and other safety devices in their original, factory-installed condition.

- Obey all laws concerning the disposal of developing and processing chemicals, and other substances, in your area.

- ABDick recommends that repair and serving of your machine be performed only by a qualified ABDick service representative or an authorized dealer/distributor. Repair or servicing of the equipment by owners, operators, or unauthorized service personnel is not advised due to safety risks posed and the possibility of voiding applicable warranty coverage.

- Do not overfill the chemical tanks (see filling instructions). Be careful to avoid spillage of chemicals when filling and when sliding the processor unit in and out of the machine.

- Under no circumstances are the door or cover interlocks to be defeated.

CLASS I LASER PRODUCT
according to EN 60825-1:1994

CAUTION

Adjustments or performance of procedures other than those specified herein may result in hazardous radiating exposure.

Index

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