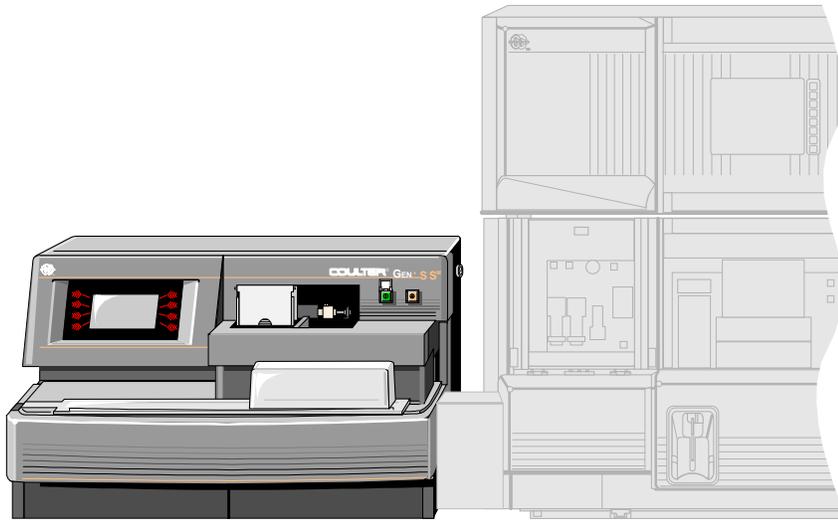


# Operator's Guide



READ ALL PRODUCT MANUALS AND CONSULT WITH COULTER-TRAINED PERSONNEL  
BEFORE ATTEMPTING TO OPERATE INSTRUMENT.

### **HAZARDS AND OPERATIONAL PRECAUTIONS AND LIMITATIONS**

WARNINGS, CAUTIONS, and IMPORTANTS alert you as follows:

- WARNING** - Might cause injury.
- CAUTION** - Might cause damage to the instrument.
- IMPORTANT** - Might cause misleading results.

---

**CAUTION** System integrity might be compromised and operational failures might occur if:

- This equipment is used in a manner other than specified. Operate the instrument as instructed in the Product Manuals.
  - You introduce software that is not authorized by Coulter into your computer. Only operate your system's computer with software authorized by Coulter.
  - You install software that is not an original copyrighted version. Only use software that is an original copyrighted version to prevent virus contamination.
- 

Coulter Corporation urges its customers to comply with all national health and safety standards such as the use of barrier protection. This may include, but it is not limited to, protective eyewear, gloves, and suitable laboratory attire when operating or maintaining this or any other automated laboratory analyzer.

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**WARNING** Risk of operator injury if all covers are not secured in place prior to instrument operation or you attempt to replace a part without carefully reading the replacement instructions. Do not attempt to replace any component until you carefully read the instructions for replacing the component.

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**IMPORTANT** If you purchased this product from anyone other than Coulter or an authorized Coulter distributor, and, if it is not presently under a Coulter service maintenance agreement, Coulter cannot guarantee that the product is fitted with the most current mandatory engineering revisions or that you will receive the most current information bulletins concerning the product. If you purchased this product from a third party and would like further information concerning this topic, call your Coulter Representative.

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**Initial Issue, 9/98**  
GEN•S Software version 2B.

*This document applies to the latest software listed and higher versions. When a subsequent software version changes the information in this document, a new issue will be released.*

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This introductory section contains the following topics:

- How to use your COULTER GEN•S System hard-copy manuals
- About this manual
- Online Help System
- Conventions

## HOW TO USE YOUR COULTER® GEN•S™ SYSTEM HARD-COPY MANUALS

Use the **Getting Started** booklet to see an overview of the system hardware and software. This document comes with your GEN•S System.

Use the **Reference** manual for in-depth information about what the instrument does, the methods it uses, its specifications, and information on installation, safety and software options. The Reference manual for the GEN•S System is included in the online Help system; it is available in hard copy by request.

Use the **Special Procedures and Troubleshooting** manual to run calibration; to clean, replace or adjust a component on the instrument; and for troubleshooting the instrument. This document is made up of procedures from the online Help system; it is available in hard copy by request.

Use the **Operator's Guide** for the day-to-day operation of your instrument. This document is made up of procedures from the online Help system; it includes Startup, running controls and samples, reviewing data, Shutdown, and the software on the Analyzer and the Workstation. This document is available in hard copy by request.

Use the **SlideMaker Operator's Guide** for in-depth information about what the SlideMaker does, the methods it uses, its specifications, and information on installation, safety and software, as well as day-to-day operating and troubleshooting your SlideMaker. This document is made up of procedures from the online Help system; it is available in hard copy by request.

Use the **Master Index** to easily locate a subject in your hard-copy Reference manual, Operator's Guide or Special Procedures and Troubleshooting manual. The Master Index comes with the hard copy of both the Operator's Guide and the Special Procedures and Troubleshooting manual.

Use the **Host Transmission Specification** to find the information needed to program the transmission interface between the GEN•S System and your laboratory's host computer. This document comes with your GEN•S System.

See the Documentation page on the back cover of this manual for the contents of each manual. It can help you to determine quickly in which manual the information you need is located.

## ABOUT THIS MANUAL

Your GEN•S SM SlideMaker Operator's Guide is a source of information on what the system does.

This information is organized as follows:

- Chapter 1, Use and Function  
Contains the intended use of the SlideMaker, a brief history of the methods used, the reagents, the hazards, and a short description of the major components.
- Chapter 2, Installation  
Contains the SlideMaker requirements, and the diagrams of the reagent/pneumatic tubing connections and the interunit cable connections.
- Chapter 3, Operation Principles  
Contains descriptions of the slide and sample flow through the SlideMaker, and information about choosing slides.
- Chapter 4, Specifications/Characteristics  
Details the SlideMaker specifications and performance characteristics.
- Chapter 5, Operating Procedures  
Contains instructions on using the SlideMaker screens, startup, using slides, cassettes and baskets, checking smear quality, and shutdown.
- Chapter 6, Cleaning/Replacement Procedures  
Contains instructions on cleaning and replacing parts of the SlideMaker screens.
- Chapter 7, Troubleshooting  
Contains an overview of troubleshooting concepts, instructions on troubleshooting SlideMaker components, and lists the SlideMaker error messages.
- References
- Index, hard copy only

## ONLINE HELP SYSTEM

The GEN•S Workstation has a comprehensive Online Help System, which includes reference information, all operating, maintenance and troubleshooting procedures. On the GEN•S

Workstation, select  to access Help. Select  to access the tutorials.

## CONVENTIONS

This document uses the following conventions:



indicates a key on the Diluter keypad.



indicates a key on the GEN•S Workstation keyboard.



is the icon for Patient results on the GEN•S Workstation.



is the icon for the Printer on the GEN•S Workstation.

## 1.1 INTENDED USE

The COULTER GEN•S SM™ SlideMaker shown in the following figure is intended for use as an optional peripheral to the COULTER GEN•S™ System. The SlideMaker creates a blood smear on a clean microscope slide using a segment of the blood sample aspirated by the GEN•S System.



## 1.2 METHOD HISTORY

Blood smears or films have multiple uses in hematology. They can be used:

- To determine the leukocyte differential count.
- To check the leukocyte distribution to determine whether any abnormal leukocyte cells are present.
- To study erythrocytes and platelets.<sup>1S</sup>

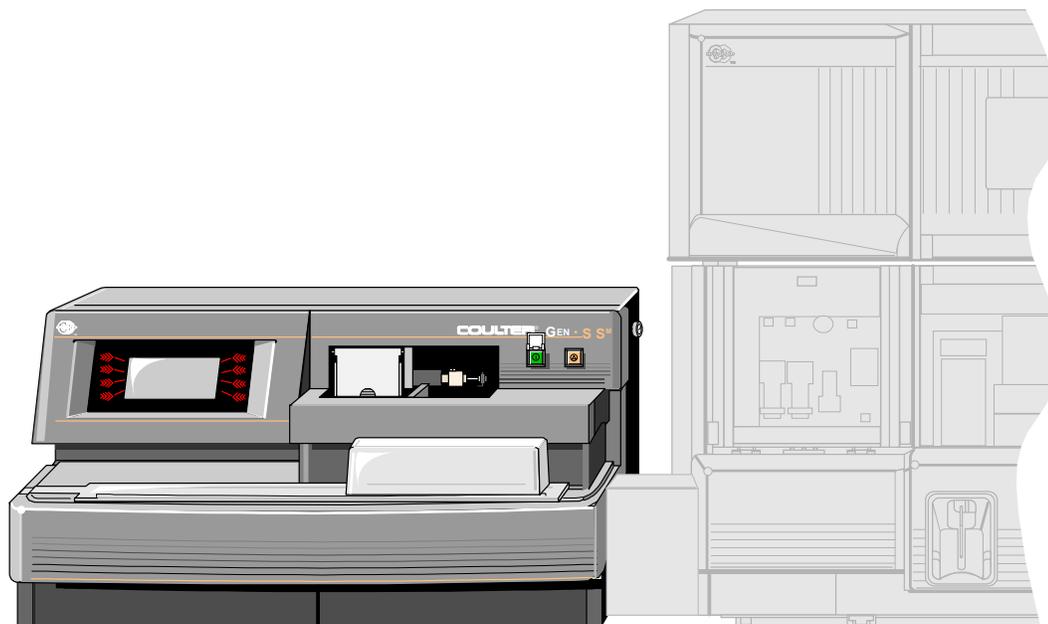
Peripheral blood films can be prepared using the wedge-pull technique. After a drop of mixed blood is deposited on one end of a slide, a second slide is placed at about a 45-degree angle to the first slide and quickly pushed to the other end of the first slide to spread the blood.<sup>2S</sup>

Acceptable blood films should have:

- An adequate working area with an acceptable morphology and minimum distributional distortion.
- A gradual decrease in thickness of sample.
- A minimum film of 2.5 cm.
- Edges narrower than the slide width.
- A far end without streaks that is at least 1 cm from the end of the slide.
- No artifacts derived from the technique.<sup>2S</sup>

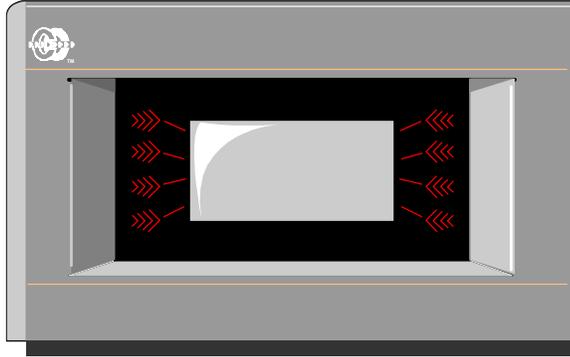
## 1.3 SYSTEM COMPONENTS

### Slidemaker (Front View)



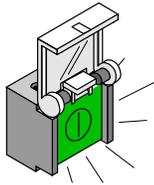
7212048A

## Slidemaker Screen

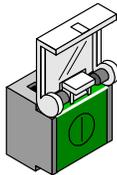


The SlideMaker screen displays the SlideMaker status and error messages, and provides buttons and screens for you to interface with the SlideMaker.

## Power On/off

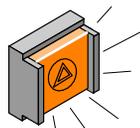


This button is illuminated when the SlideMaker power is on. When you press this button, the power to the SlideMaker turns OFF.



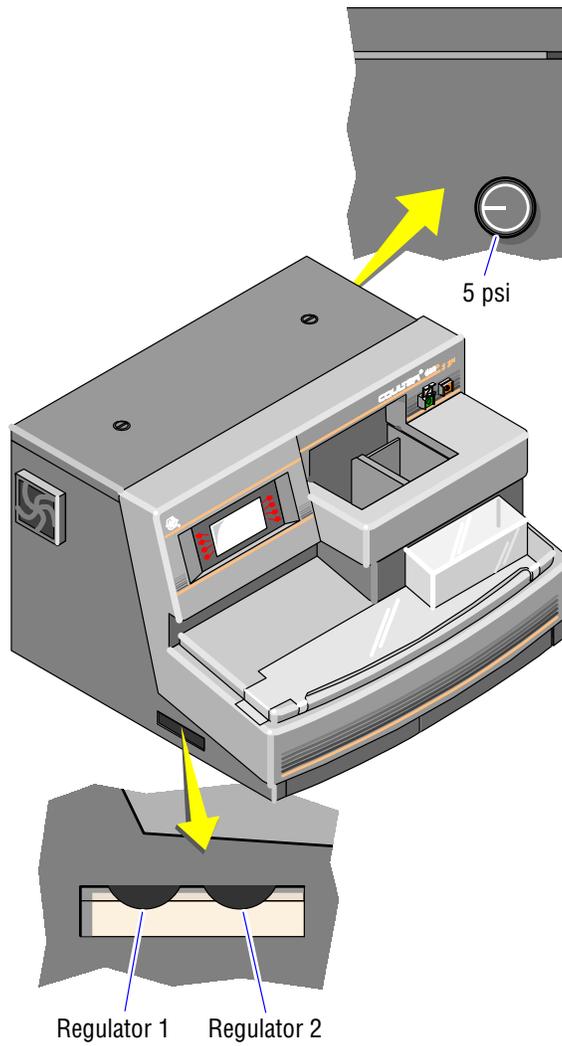
This button is not illuminated when the SlideMaker power is off. When you press this button, the power to the SlideMaker turns ON.

## Reset Switch



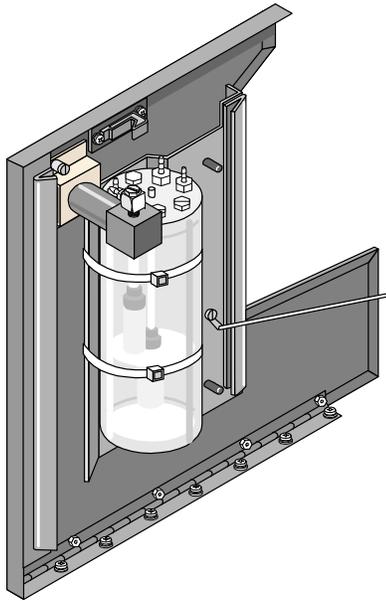
The reset switch is illuminated when the SlideMaker is processing slides. When you press this switch, the SlideMaker immediately initiates a reset cycle.

## Regulators

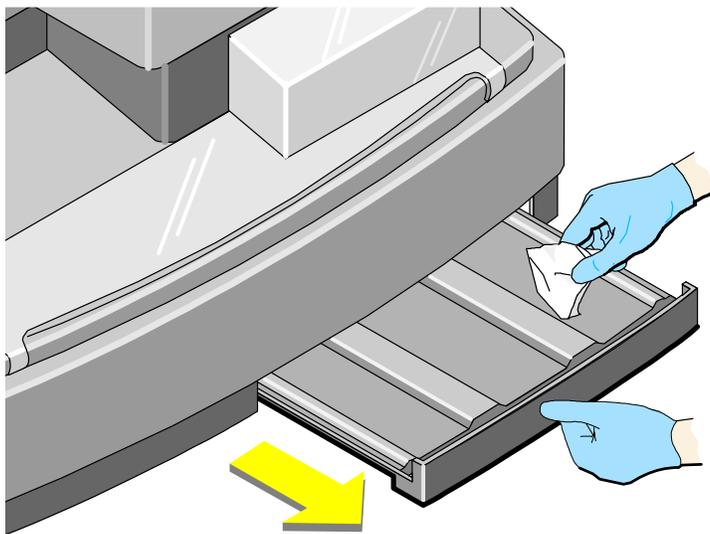


The regulators adjust the vacuum and pressure in the SlideMaker. Regulator 1 (REG1 or VAC1) adjusts 17.5 Hg vacuum and Regulator 2 (REG2 or VAC2) adjusts 6.5 Hg vacuum. The other regulator adjusts the 5 psi pressure.

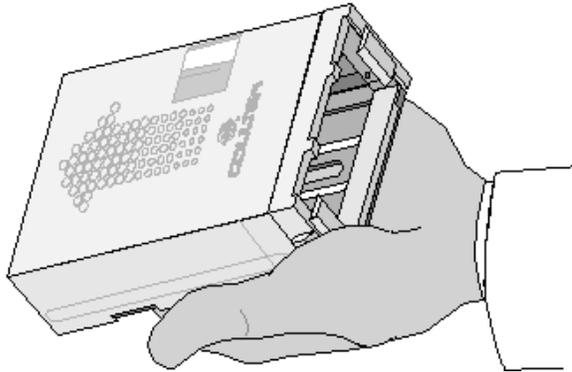
### Vacuum Accumulator



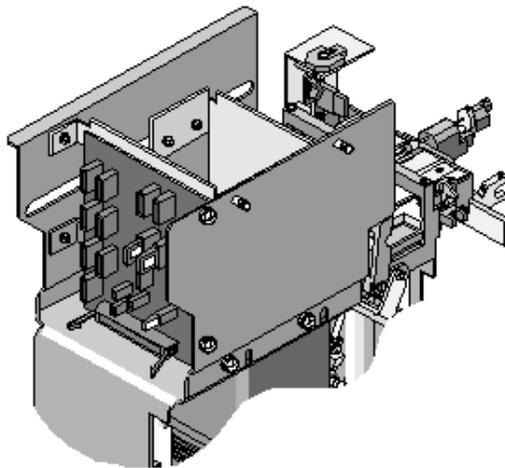
### Catch Tray



### **Slide Cassette**

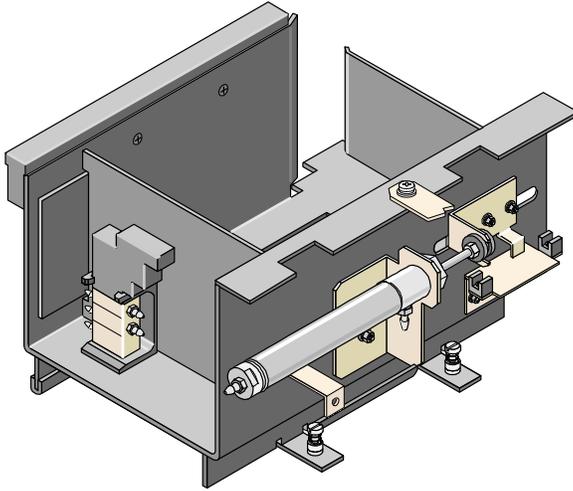


### **Input Queue**



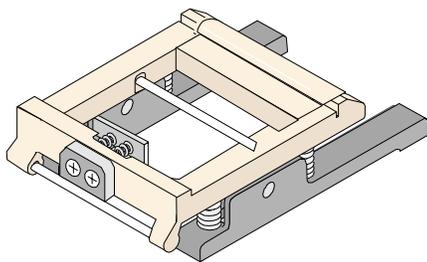
The cassette input queue moves filled slide cassettes into position for retrieval of the slides. Once the slide cassette is empty, it is moved to the output queue.

## Output Queue



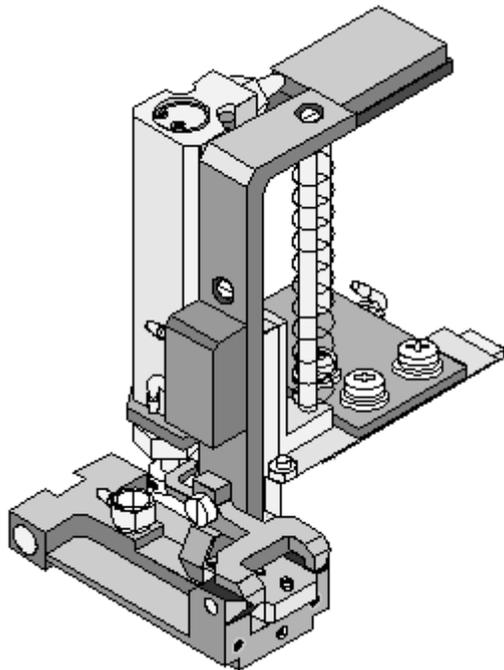
The cassette output queue stores empty slide cassettes until the operator can retrieve and refill the slide cassettes.

## Ejector



The ejector pushes slides out of the cassette and onto the smear truck, one at a time.

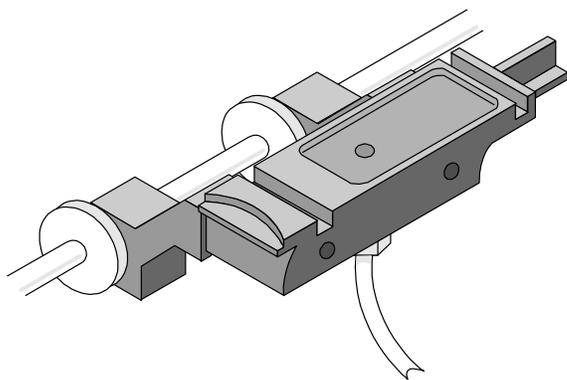
## Truck



The truck:

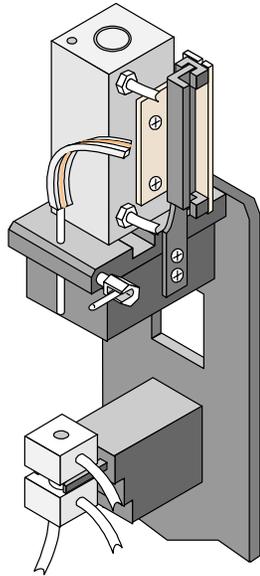
- Moves to the Slide Ejector module.
- Picks up slides from the Slide Ejector module and deposits slides on the shuttle.
- Holds a slide in position for making a wedge smear.
- Places a spreader slide on the smear slide, moves the spreader slide through the drop of blood, and stops, allowing the blood to wick along the end of the spreader slide. Then the smear truck pushes the spreader slide across the long direction of the smear slide, producing a wedge blood smear.

## Shuttle



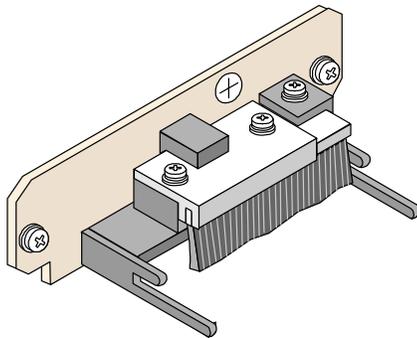
The shuttle is a moving platform that transports a slide between three positions: the smear (home) position, the printer (labeling) position, and the dispense position.

## Dispense Module



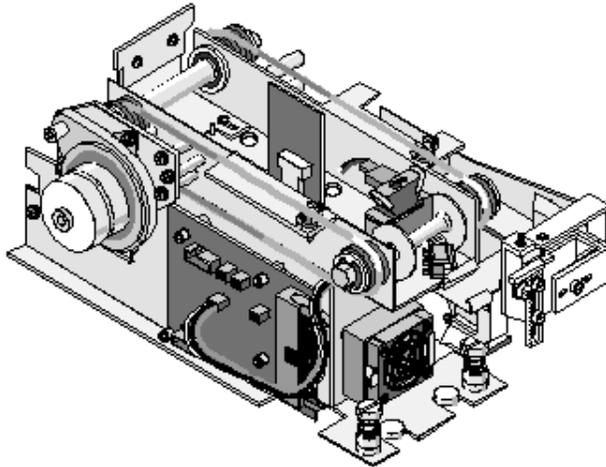
The Dispense Module includes a dispense probe and a probe wipe for measuring and positioning the drop of blood used for a smear.

## Pusher Bars



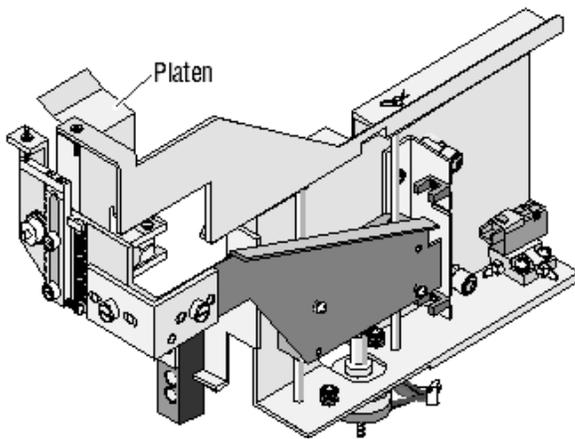
The slide pusher bars push the wet slide from the shuttle onto the conveyor belts of the Dryer module.

### Dryer



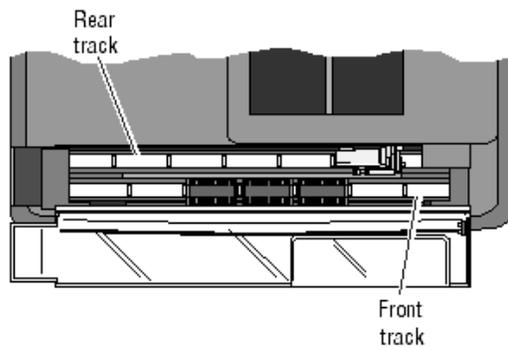
The dryer receives a labeled, wet, smear slide from the pusher bars, dries the smear, and moves the smear to the Slide Elevator module.

### Platen and Elevator



The platen and elevator, also called the Slide Elevator module, receive dried smear slides from the Dryer module and insert the slides into slide baskets in the Basket Queue module.

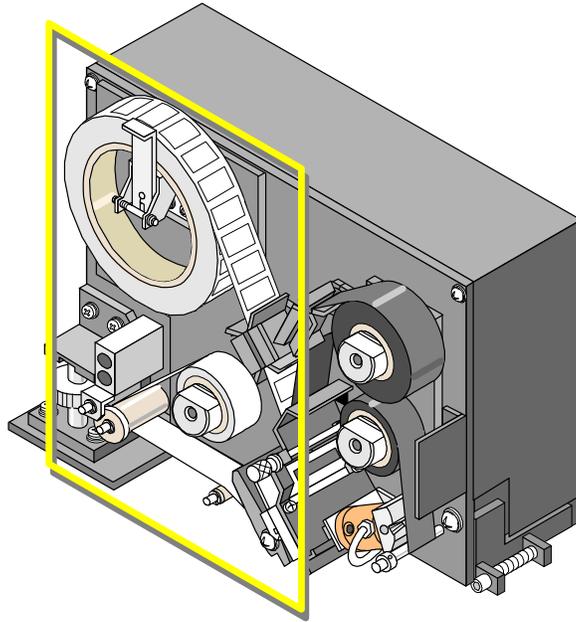
### Basket Queue



The basket queue moves the slide baskets from the rear (input) track to the front (output) track.

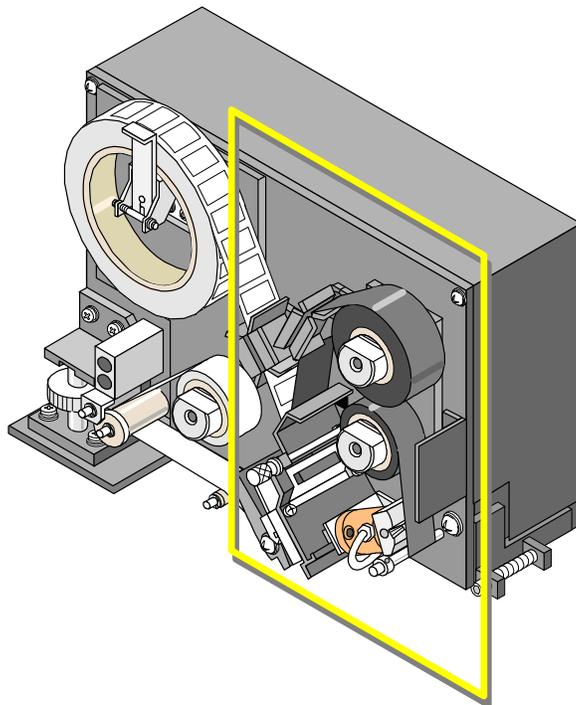
**Note:** Once a basket has advanced to the slide loading position under the platen, do not manually remove it from this position. You can advance the basket, if necessary, but do not manually remove a basket from the slide loading position.

### Label Printer



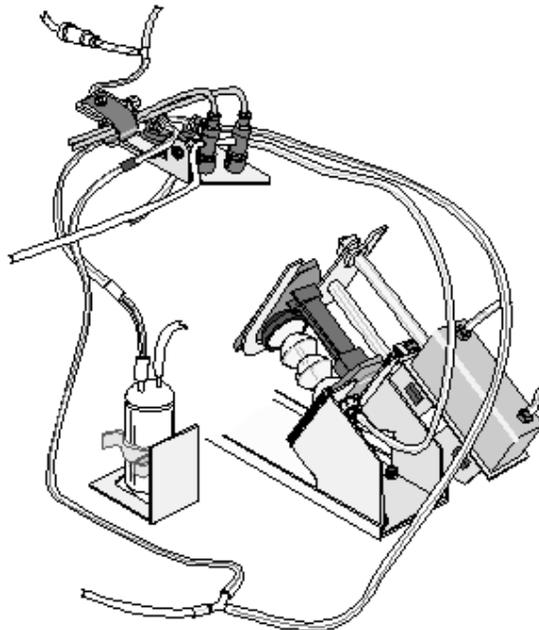
The SlideMaker contains a dedicated label printer that prints labels and applies the labels to the slides.

### Printer Ribbon



The printer ribbon is used to print the barcodes on the labels.

### **GEN•S Needle**



When your Coulter Representative installs your SlideMaker, minor changes to the GEN•S Needle module are required. This graphic illustrates the proper needle configuration.

## **1.4 REAGENTS**

The SlideMaker uses the diluent and cleaning agent from the GEN•S System.

## 2.1 DELIVERY INSPECTION

---

**CAUTION** Possible system damage can occur if you uncrate the instrument, install it or set it up. Keep the instrument in its packaging until your Coulter Representative uncrates it for installation and setup.

---

Your instrument is tested before it is shipped from the factory. International symbols and special handling instructions printed on the shipping cartons tell the carrier how to handle this electronic instrument.

Carefully inspect all cartons when they arrive. If you see any sign of mishandling or damage, file a claim with the carrier immediately. If the shipment is separately insured, file a claim with the insurance company.

## 2.2 SPECIAL REQUIREMENTS: HARDWARE

Install and operate this instrument in a conventional clinical laboratory environment. Since this instrument is part of the GEN•S System and units are interrelated, you must determine the system location and layout before your Coulter Representative arrives to install this instrument. Consider the following special requirements.

### Space and Accessibility

In addition to the space required for the individual components, consider:

- Comfortable working height.
- Access to perform service procedures.



## Ventilation

Position ventilation fans at least 25 cm (10 in.) away from walls or obstructions that could interfere with the flow of air.

## Drainage

---

**WARNING** Biohazardous contamination could occur from contact with the waste container and its associated tubing if not handled with care. Avoid skin contact. Clean up spills immediately. Dispose of the contents of the waste container in accordance with your local regulations and acceptable laboratory procedures.

---

The waste line of this instrument is connected to the waste line of the GEN•S System. For information about the drainage requirements for the GEN•S System, refer to the GEN•S System Reference Manual.

## 2.3 SPECIAL REQUIREMENTS: SOFTWARE

To set up the software on this instrument:

Ensure the proper date format is set up on the Workstation.

Power on the SlideMaker.



Select  on the Workstation Command Center.



Select  to access the SlideMaker Setup window.



Select . The Workstation installs the latest software on the SlideMaker.



Select  YES to confirm the download.

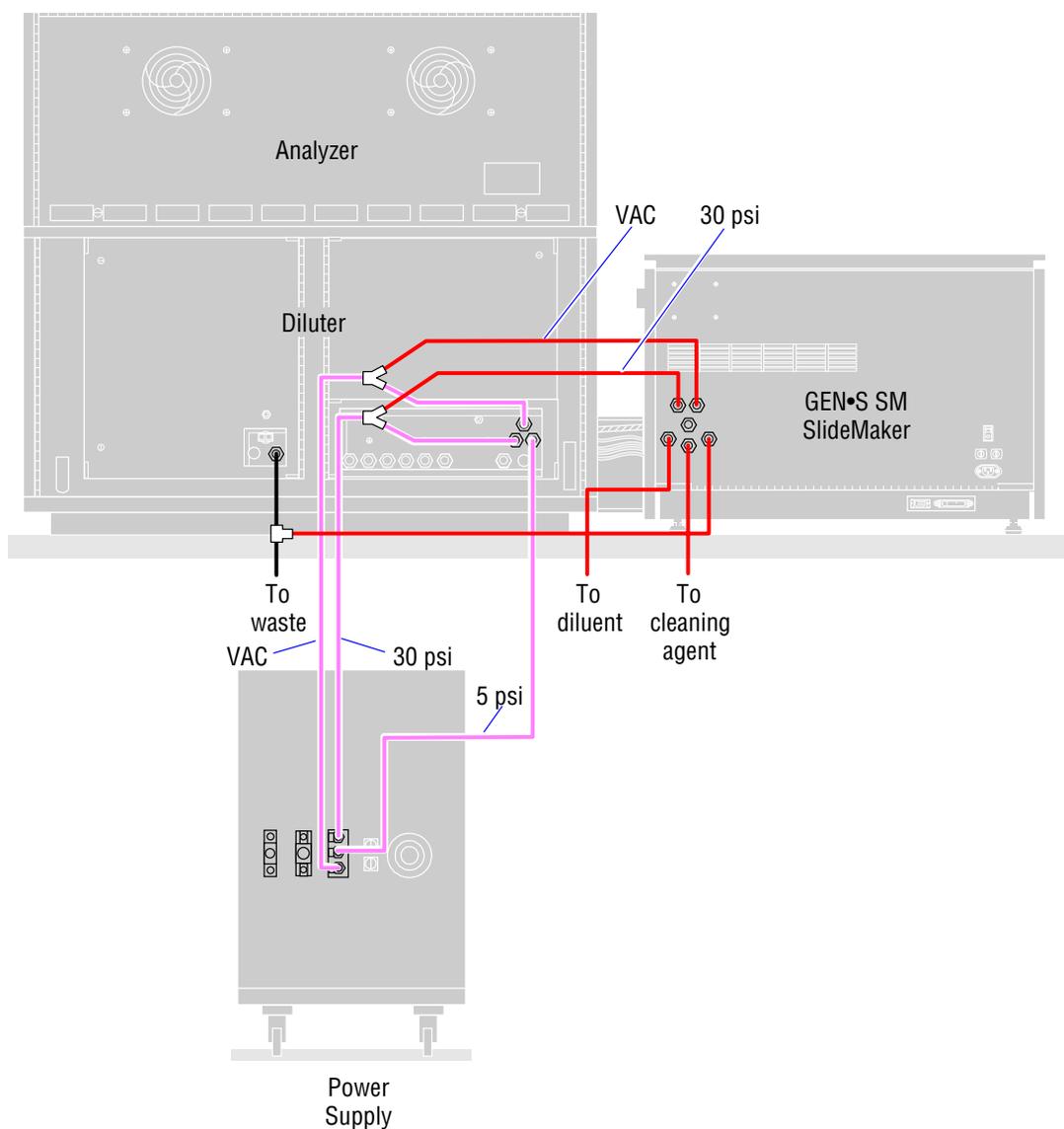
Reset the SlideMaker to initiate the download.

## 2.4 INTERUNIT CONNECTIONS

### Fluid, Pressure and Vacuum Connections

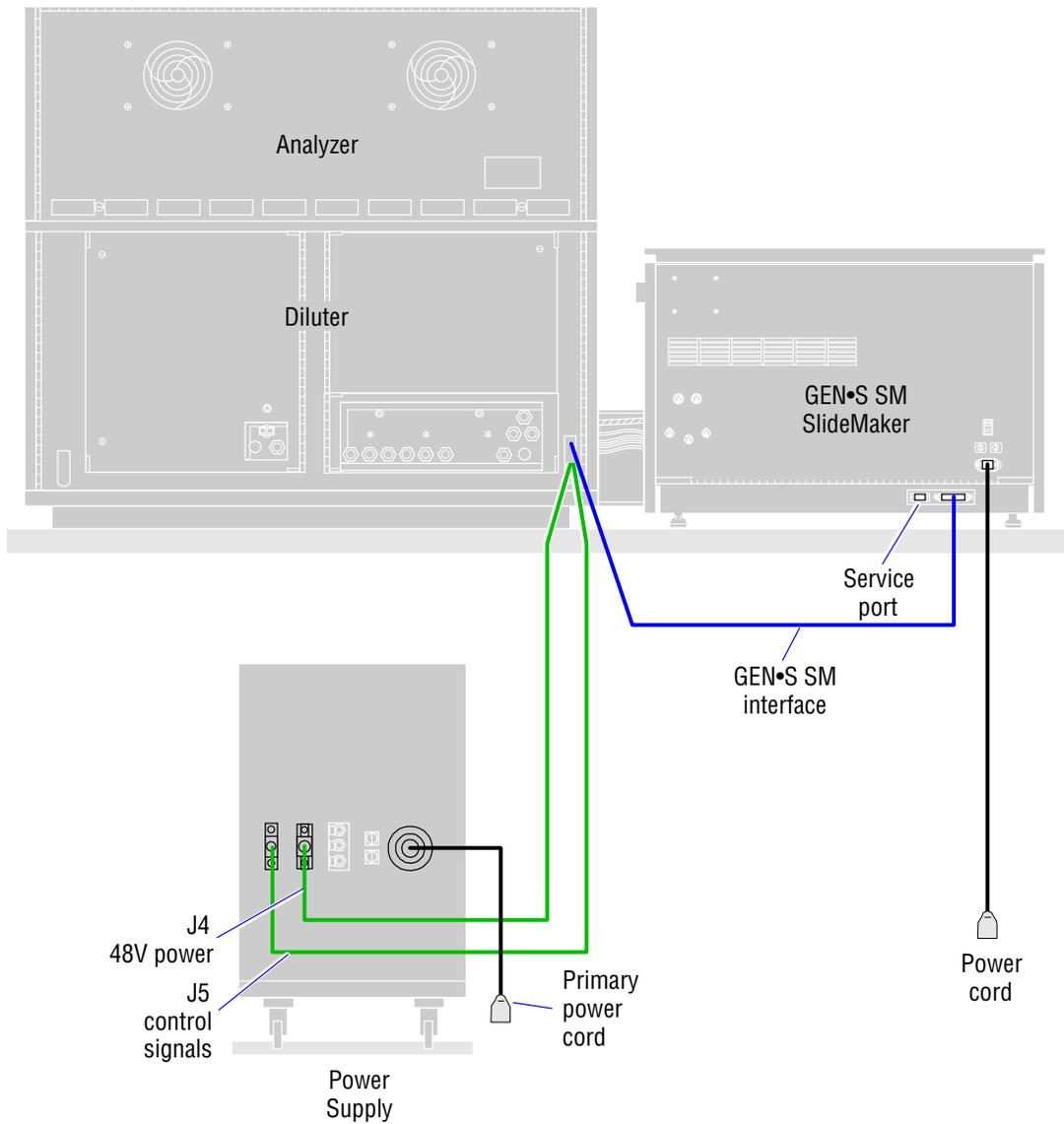
**CAUTION** Possible reagent siphoning effect and priming problems can occur if a reagent container is placed above the level of the Analyzer. Do not place reagent containers above the level of the instrument.

The following figure shows the connections for fluid (reagent and waste), pressure and vacuum.



### Power and Signal Cables

The following figure shows the interunit connections of the power and signal cables that are supplied with the instrument. Your Coulter Representative makes these connections when installing and qualifying your instrument for subsequent use.



**INSTALLATION**  
*INTERUNIT CONNECTIONS*

## 3.1 SLIDE AND SAMPLE FLOW

### Slide Request

The SlideMaker makes blood smears based on the criteria and rules set up for the sample on the Workstation. You, the operator, can also request a slide for a particular sample prior to running the sample by using the Make Slide field on the Add Test window.

### Slide Preparation

You load at least one slide cassette containing clean slides into the Slide Ejector module. A mechanism pushes the cassette to the front of this module. Two prongs, called pawls, push a slide out of the cassette. Grippers hold the slide on the smear truck that carries the slide to the shuttle.

### Sample Aspiration

The GEN•S System aspirates sample from the specimen tube. The GEN•S System uses the first sample aspiration for analysis. The GEN•S System makes a second aspiration of 250  $\mu\text{L}$  of sample from the vent side of the needle for the SlideMaker. If a partial aspiration is detected on the first sample aspiration, no second aspiration occurs.

Regulated vacuum pulls the sample into one of two, coiled sample reservoirs. An air bubble is inserted into the middle of the sample before it goes into the sample reservoir. While in the sample reservoir, the system moves the sample back and forth to keep it mixed.

The aspiration lines are rinsed and dried before the GEN•S System finishes its count cycle. Sample mixing at the SlideMaker ends when the count cycle ends.

### Slide Labeling

Blood smears can be made only on samples processed in the Automatic mode. Depending upon user-selected criteria, the sample smear process either starts immediately or only if selected flagging criteria occur on the sample's CBC or Diff results at the GEN•S System.

The slide on the shuttle moves to the label printer and receives a label with the user-defined sample information sent from the GEN•S System.

### Sample Dispensing

Priming of the Dispense module and its probe is done with the first 168  $\mu\text{L}$  of the 250  $\mu\text{L}$  aspirated sample. Then the shuttle moves the slide to the Dispense module to receive a 4  $\mu\text{L}$  aliquot of sample. This 4  $\mu\text{L}$  is taken from the final 62  $\mu\text{L}$  of the 250  $\mu\text{L}$  sample.

### Smear Production

The smear truck holds a clean, second slide at approximately a 45-degree angle and drags its edge over the slide with the sample to spread the blood sample. Then the second slide moves back over the first slide to make a wedge smear.

The pusher bars eject the slide with the smear onto the conveyor belt of the Dryer module. The second slide transfers to the shuttle to be used for the next sample.

### **Smear Drying**

Warmed air dries the smear as the conveyor belt moves the slide through the Dryer module at a preprogrammed speed.

### **Basket Filling and Unloading**

At the end of the Dryer module, the conveyor belt transfers the slide to a platform, called a platen. There, grippers hold the slide as the platen rotates to a vertical position. The platen lowers the slide and places it in an opening in the basket directly below. When a basket is full, it moves along a transport belt to a position where you can unload the basket. After unloading the basket, you must inspect the slides. Make sure the ID on the label is readable. If multiple slides exist with the same ID on the label, check the slide date and time of analysis for unique identification. Discard any slides that do not have labels or do not meet standard NCCLS slide characteristics.<sup>45</sup>

### **Next Sample**

To maintain optimum throughput, until the current sample is dispensed, the next aspirated sample goes to the second sample reservoir where it is mixed until needed.

## **3.2 CHOOSING SLIDES**

COULTER requires that you use the slides developed especially for the COULTER SlideMaker. COULTER slides have many features that will help ensure system reliability. The frosted areas prevent multiple slide adhesion while the finely ground edges and cleanliness are important for consistent smear quality.

### **Storage And Handling**

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**IMPORTANT** Improper slide handling can cause misleading results. In addition to following good laboratory practices, the operator must be trained in the proper handling of slides.

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Use the following guidelines for storing slides to minimize the risk of moisture contamination. Slides should be:

- Rotated in storage.
- Kept off concrete floors on a pallet.
- Kept away from doors and heating and air conditioning ducts.
- Used within six months of the date they were manufactured.

Allow slides and cover glass cases to come to room temperature in the lab before they are opened.

## 4.1 PHYSICAL SPECIFICATIONS

See the GEN•S System specifications for general specifications that apply to both the GEN•S System and the SlideMaker.

Specifications that apply only to the SlideMaker are listed here.

### Dimensions

Height 45.7 cm (18 in.)	Width 61.0 cm (27 in.)	Depth 61.0 cm (24 in.)	Weight 45.8 kg (100 lb)
-------------------------------	------------------------------	------------------------------	-------------------------------

### Power

#### Input

90-264 Vac      48-62 Hz

#### Consumption

350 W ( Btu) maximum

### Recommended Reagents

The GEN•S SM SlideMaker uses the diluent and cleaning agent from the GEN•S System:

- ISOTON® III diluent
- COULTER CLENZ® cleaning agent

### Sample Volume

#### Aspirated Volume

250  $\mu$ L maximum

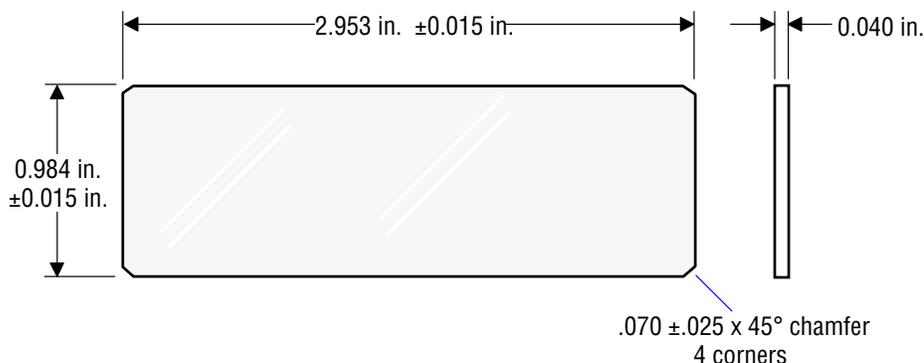
#### Dispensed Volume

4 $\mu$ L  $\pm$ 0.5  $\mu$ L

## 4.2 SLIDE SPECIFICATIONS

### Slide Dimensions

Use only Coulter slides. These slides are clean with finely ground edges and are packaged in lint-free, moisture-proof containers. Coulter slides are within these ranges:



### Other Slide Parameters

Parameter	Specification
Slide Material	Soda lime glass
Slide Flatness	<0.00030 in.
Surface Wettability	Contact angle <10 degrees
Edge Roughness	<200 peaks / in., RA < 8
Frosting Thickness	0.00125 in. ± 0.00025 in.

**Note:** Changes in slide length may require calibration of the SlideMaker.

The COULTER slide has two frosted areas at opposite ends of the same side of the slide. The frosted areas are a deposition coating and are not created by sandblasting or acid etching. This coating serves to minimize multislide adhesion during packaging, storage, and instrument operation when undesirable environmental conditions exist.

### Material

The material composing the slide should be clear transparent glass, free from imbedded foreign material, bubbles, blisters, striae, and internal cloudiness. The type of glass chosen for slide construction shall have strength, hardness, and brittleness characteristics, which will minimize slide cracking and breakage as well as the formation of ground glass residue and glass chips.

### Color and Optical Properties

The faces of the microscope slide are colorless when judged by the unaided eye. The slide may possess a slight greenish tint when viewed edgewise, but this coloration must not materially affect the color of light transmitted through the slide faces.

**Precleaning**

Slides are precleaned and when tested in accordance with sections 4.4.1.1 and 4.4.1.2 of NNN-S-450B<sup>45</sup> and demonstrate uniform dispersion of liquid and an absence of smears on both surfaces. The precleaned slides are free of all traces of moisture, cloudiness, detergent, and oily, waxy, or syrupy film.

**Boiling and Solubility**

The slides show no evidence of fogging, chipping, cracking, or formation of pink color when tested as specified in section 4.4.2 and 4.4.3 of NNN-S-450B.<sup>45</sup>

**Ribbon Specifications**

Width:	1.00 ± 0.005 in.
Length:	Sufficient to print at least 5,000 labels
Type:	Thermal transfer, 7.1 microns (max.) thick; carbon pigment with resin binder

### 4.3 PERFORMANCE CHARACTERISTICS

The performance characteristics for this instrument apply only to an instrument that has been properly maintained as indicated in the COULTER GEN•S System documentation. The following performance characteristics identify the quality of blood smears produced by the SlideMaker.

Precision and accuracy of blood smears prepared by the SlideMaker were evaluated at a clinical site as compared to the laboratory's routine smear preparation method, a modified wedge technique.

**Note:** It is recognized that the [manual microscopic] reference method depends on human expertise and can be influenced by the subjective nature of the test. The subjective nature of the reference method should be remembered when making comparisons with the automated technique [or other microscopic techniques].<sup>65</sup>

**Performance Characteristics****Precision**

Precision was measured through replicate testing at the clinical site. Ten (10) blood films were prepared from a normal whole-blood specimen using two methods:

- Automated analysis of the sample using the GEN•S SM SlideMaker in the CBC/Diff Mode.
- Manual preparation using the laboratory's current modified wedge technique.

One-hundred cell manual differentials were performed on each of the ten films by a laboratory technologist at the clinical site. All smears were read by the same technologist.

The table below shows differential results for ten replicate determinations of normal whole blood in K3 EDTA using the two slide preparation methods.

WBC Differential Precision, Normal Whole Blood

<b>Parameter</b>	<b>SlideMaker Mean</b>	<b>SlideMaker 1 SD</b>	<b>Manual Diff Mean</b>	<b>Manual Diff 1 SDSA</b>
NE%	74.1	3.3	71.0	4.5
LY%	19.3	3.6	20.9	4.2
MO%	4.7	2.3	6.2	2.6
EO%	1.5	1.1	1.4	1.4
BA%	0.4	0.7	0.5	1.0

**Accuracy**

SlideMaker accuracy was characterized using normal and abnormal specimens (approximately 50% normal:50% abnormal) at the clinical site. Manual differential results obtained using the laboratory's current smear preparation method were compared to manual differential results obtained using smears prepared by the SlideMaker. One-hundred cell manual differentials were examined for each method. Estimates of agreement were made by pair difference analysis and correlation.

WBC Differential Accuracy Analysis, Modified Wedge Technique vs. SlideMaker

<b>Parameter</b>	<b>N</b>	<b>Population Minimum</b>	<b>Population Maximum</b>	<b>Mean Difference</b>	<b>Correlation Coefficient</b>
NE%	104	6	98	+2.8	0.930
LY%	104	0	75	-2.3	0.929
MO%	104	0	37	-0.6	0.699
EO%	104	0	26	+0.2	0.811
BA%	104	0	17	-0.1	0.827

## 5.1 SLIDEMAKER SCREENS

### Main Menu Screen

Use this screen to access the functions you want to perform.

#### Routine Functions

<b>Press This Menu Item</b>	<b>To</b>
Advance Basket	Advance a slide basket one basket position.
Lock Cassette	Lock the slide cassette.
Unlock Cassette	Release the slide cassette.
System Settings	View SlideMaker settings, such as the slide counter and cycle counter.
Pneumatic/Power Supplies	View SlideMaker pneumatic and power supply levels.

<b>Printer Label Functions</b>	<b>To</b>
	Access functions to:
	Decrease printer intensity.
	Increase printer intensity.
	Save printer intensity.

<b>Routine Fluidics</b>	<b>To</b>
	Access functions to:
	Prime Reagent Reservoirs.
	Drain the SlideMaker.
	Rinse the SlideMaker vacuum accumulator.
	Prime the SlideMaker.
	Start up the SlideMaker.
	Shut down the SlideMaker.

#### Special Functions

<b>Press This Menu Item</b>	<b>To</b>
Reboot Printer	Reinitialize the SlideMaker printer.
Dryer Function Test	Access functions to test the dryer and heater motors.
Dryer Temperature	View the dryer temperature status.
Display Test	Test the SlideMaker display screen.
Keypad Test	Test the SlideMaker keypad.

#### Run Mode

<b>Press This Menu Item</b>	<b>To</b>
Run Mode	Access the RUN MODE screen where you can make slides and view errors.

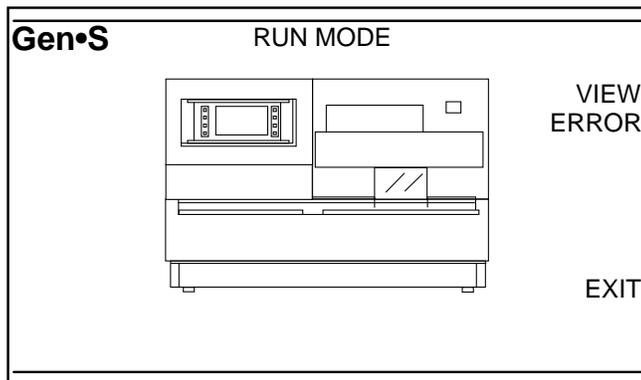
#### Special Cycles

<b>Press This Menu Item</b>	<b>To</b>
Bleach System	Flush the SlideMaker
Print Label	Test label printing

## Run Mode Screen

Press **RUN MODE** on the SlideMaker MAIN MENU screen to access this screen.

This screen appears similar to the following. The messages on the SlideMaker status line display at the bottom of this screen. For more information about messages, refer to the Message List.



## 5.2 SLIDEMAKER SETUP

### Setting Up SlideMaker

1. Ensure your Coulter Representative has enabled your SlideMaker.

2. Select  to display the System Setup window.

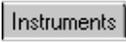
3. Select  to display the SlideMaker Setup window.

4. Select the instrument you want to set up.
5. Specify the smear dispense mode.
6. Specify your laboratory ID.
7. Specify if you want to print bar-code tube ID.
8. Specify the print layout for the slide label.

9. Select  to close the SlideMaker Setup window and return to the System Setup window. The next time the SlideMaker makes a slide it will use the current setup.

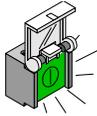
Do not select  unless your Coulter Representative has instructed you to do so. It is used to download SlideMaker software.

## Ensuring The SlideMaker Is Enabled

1. Select  to display the Communications window.
2. Select  to display the settings for the instruments attached to your Workstation.
3. Select the instrument with the a SlideMaker attached.
4. Check that  appears in the SlideMaker field.
5. Check that the serial number for the SlideMaker appears on the window.
6. the changes.

## Starting Up The SlideMaker

### Procedure

1. Check that the GEN•S has successfully completed startup and that the GEN•S status is READY.
2. Verify that the SlideMaker power is ON. If the power is OFF, press  to turn on the SlideMaker.
3. On the SlideMaker screen, press EXIT until you reach the MAIN MENU screen.
4. Press ROUTINE FUNCTIONS.
5. Press ROUTINE FLUIDICS.
6. Press RUN START UP. The SlideMaker drains and rinses the lines in preparation for making slides.
7. When startup is complete, verify that a PASS message is displayed on the GEN•S Daily Checks Workstation screen in the SlideMaker (SM) field.  
**Note:** If a FAIL message is displayed, rerun the SlideMaker startup. If the SlideMaker startup fails again, call your Coulter Representative.
8. Press RUN MODE to return to the RUN MODE screen.

## 5.3 USING SLIDES, CASSETTES AND BASKETS

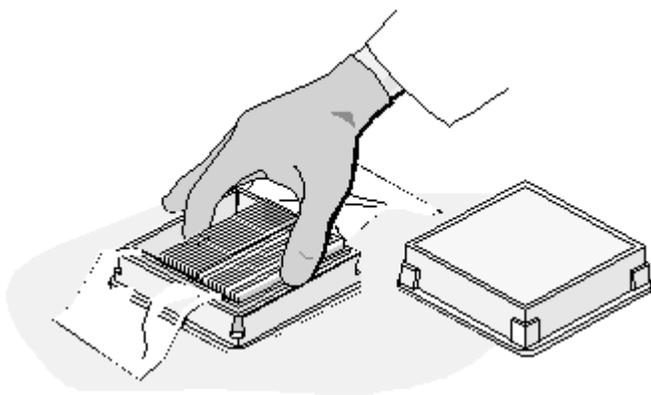
### Loading Slides Into A Cassette

#### Procedure

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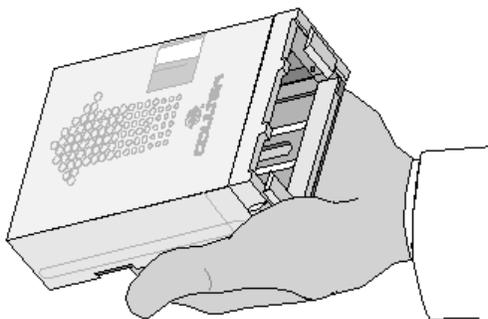
**CAUTION** Use of improper slides can damage the SlideMaker and affect the quality of the blood smear. Use only slides with the characteristics recommended by Coulter Corporation.

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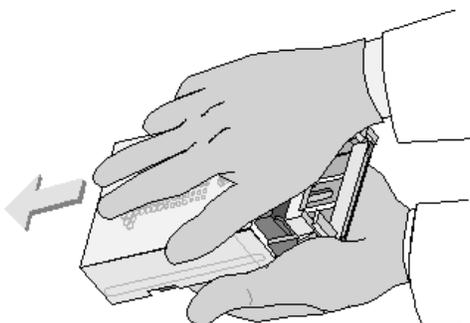


1. Open the box of slides and move the wrapping out of the way, then carefully place the box on a level surface.

Note: Do not use dirty or stuck-together slides.

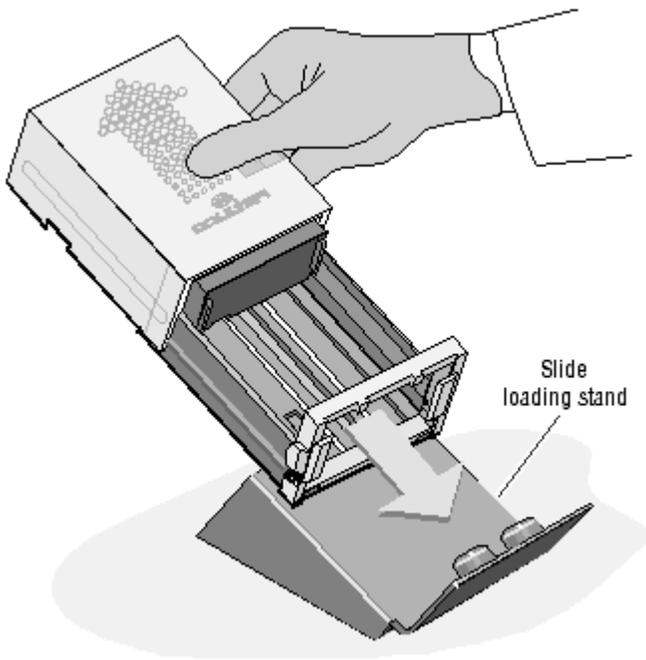


2. Hold the cassette in the palm of your hand with the arrow pointing forward.

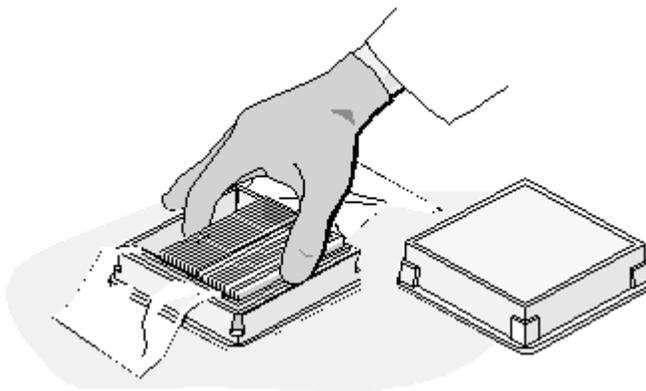


3. Hold the cover with two fingers and move it back until it locks.

4. Place the cassette on the slide loading stand.

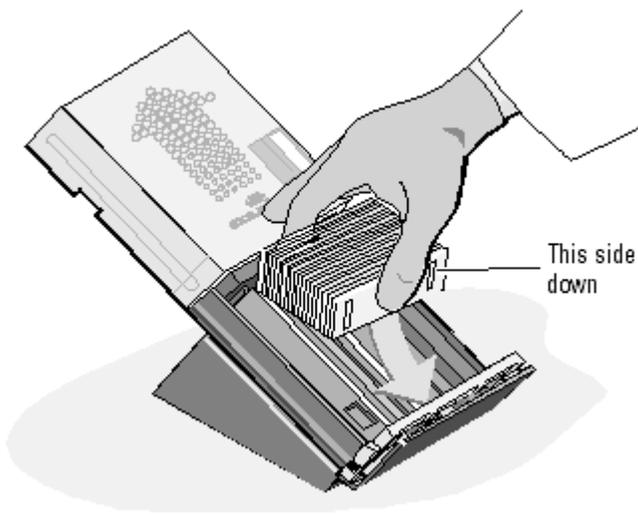


5. Check that none of the slides are broken and pick up the slides.



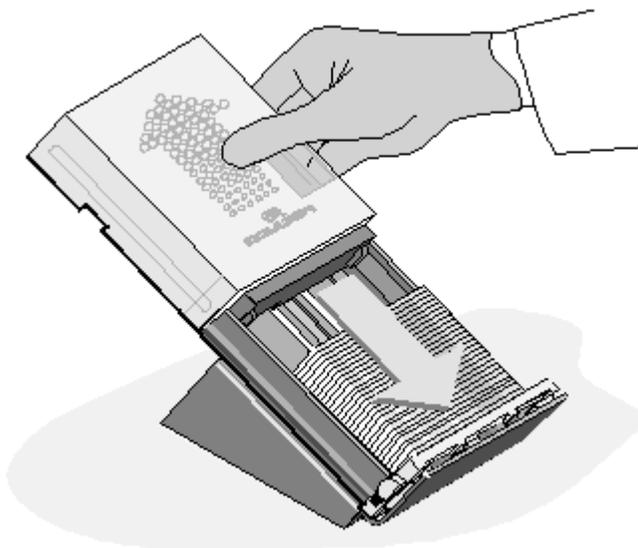
## OPERATING PROCEDURES

### USING SLIDES, CASSETTES AND BASKETS



6. Place the slides in the cassette with the frosted bars facing the front opening of the cassette.

**Note:** Inspect the slide at the top of the cassette and discard it if it is contaminated from handling



7. Slide the cover closed.
8. Tilt the cassette forward so the slides move into place at the front of the cassette and load the cassette into the SlideMaker.

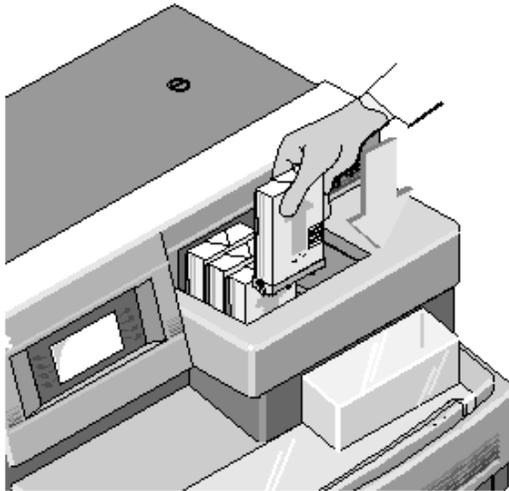
## Loading Slide Cassettes

### Procedure

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**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving

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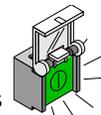
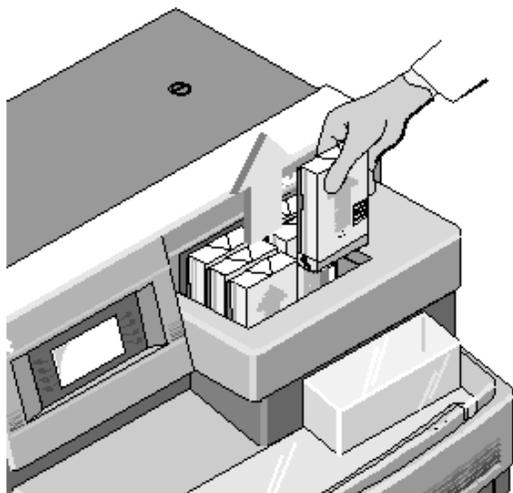


1. Position the cassette with the raised arrow pointing up and facing you.
2. Place up to four filled slide cassettes, one at a time, into the input queue in front of the cassette pusher.

## Removing Slide Cassettes

### Procedure

**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving



1. If necessary, press  to turn off the SlideMaker and release the current slide cassette.
2. Move the cassette backward and up from the output queue.
3. If necessary, check the cassette to make sure the slides inside it are not stuck together.
4. If a slide is jammed inside the shuttle area, remove and dispose of the slide.

## Locking A Slide Cassette

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the **MAIN MENU** screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **LOCK CASSETTE**.

The SlideMaker status line displays *LOCKING CASSETTE* while it locks the cassette in place.

When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.

5. Press **EXIT** until you reach the **MAIN MENU** screen.
6. Press **RUN MODE** to return to the **RUN MODE** screen.

## Unlocking A Slide Cassette

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press EXIT until you reach the MAIN MENU screen.
3. Press ROUTINE FUNCTIONS.
4. Press UNLOCK CASSETTE.

The SlideMaker status line displays *UNLOCKING CASSETTE* while it releases the cassette or as it releases the cassette.

When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.

5. Press EXIT until you reach the MAIN MENU screen.
6. Press RUN MODE to return to the RUN MODE screen.

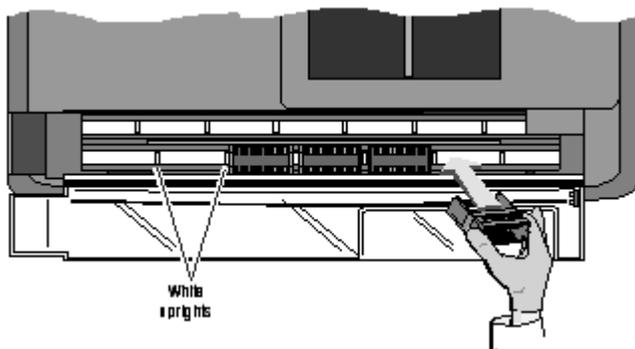
## Loading Baskets

### Procedure

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**WARNING** Risk of injury from movable part. Be careful when working with movable parts.

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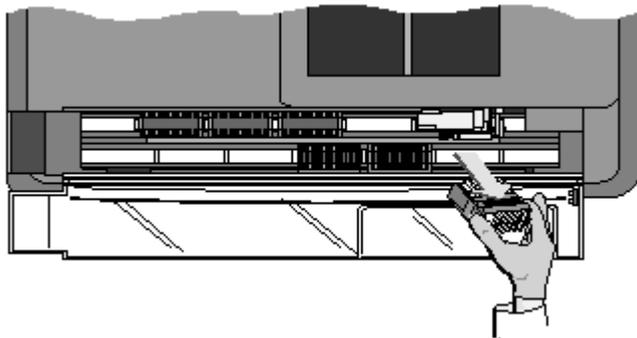


1. Open the plastic basket cover on the SlideMaker.
2. Hold the needed basket with two fingers, one finger on each end of the basket.
3. Place the empty basket in one of the empty positions on the conveyor belt. Position the basket in between two white uprights on the belt.
4. Load up to six baskets in the allowable positions on the conveyor belt.
5. Close the plastic basket cover on the SlideMaker.

## Unloading Baskets

### Procedure

The edges of the glass slides are sharp. They can cause cuts. Place your fingers only at the ends of the basket when unloading baskets with slides.



1. Open the plastic basket cover on the SlideMaker.  
**Note:** Once a basket has advanced to the slide loading position, do not manually remove it from this position. You can advance the basket, if necessary, but do not manually remove a basket from the slide loading position.
2. Hold the needed basket with two fingers, one finger on each end of the basket.  
**Note:** After a STAT sample, the basket might be only partially full.
3. Lift the basket up and out.
4. Close the plastic basket cover on the SlideMaker.
5. You can now stain these slides manually or with an automated stainer.

## 5.4 CHECKING SMEAR QUALITY

Smear quality may be affected by several factors, including the quality of the glass slide, the condition of the blood specimen, and the instrument's performance. A discussion of these factors follows.

### Slide Quality

BECKMAN COULTER slides have been manufactured to maximize compatibility with your SlideMaker. They are double-washed to ensure cleanliness and specially packaged to reduce humidity and debris. Our slides have also been designed with strategically placed frosted areas to help prevent multiple slides from sticking together. But because excessive humidity could cause even these slides to stick together, you should load the cassettes with only those slides needed for one day of SlideMaker operation. Be sure to store the slides in a low-humidity environment and bring them to ambient room temperature before you open the slide package. You should also take precaution to avoid touching the smearing surface of the slides when you are loading slides into the cassettes to avoid fingerprints, which could cause vacuoles in your smears. Lesser quality slides could result in excessive debris, multiple streaks, irregular vacuoles, or an increase in slide jams.

### Specimen Condition

Morphological artifacts on the smear could be the result of prolonged storage or inadequate mixing.

### Instrument Performance

Mechanical problems could result in smears that are too short, too thick, or too thin. Streaks on the smears could also be an indication of an instrument problem.

Discard any slides that do not have labels on them after processing by the SlideMaker.

## 5.5 SHUTDOWN

### Shutting Down The Slidemaker

#### Procedure

Use the extended shutdown procedure if you are not going to operate the SlideMaker for 48 hours or more. This will prevent the reagents from drying out and forming precipitate.

1. Check that the GEN•S status is *READY*.
2. On the SlideMaker screen, press **EXIT** until you reach the **MAIN MENU** screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **ROUTINE FLUIDICS**.
5. Press **RUN SHUT DOWN**. The SlideMaker fills the lines with cleaning agent.

### Extended Shutdown

#### Procedure

Use the extended shutdown procedure if you are not going to operate the SlideMaker for 48 hours or more. This will prevent the reagents from drying out and forming precipitate.

1. Clean the SlideMaker before shutting it down:
  - a. If the SlideMaker will remain in the laboratory, first shutdown the SlideMaker. Let the cleaning reagent remain in the instrument for at least 30 minutes.
  - b. If the SlideMaker will be transported, flush the SlideMaker.

**Attention** Do not remove the waste pickup tube.

2. Remove the diluent and cleaning reagent pickup tubes from their reagent containers and place the tubes in a container of deionized water.

**Note:** The SlideMaker reagent lines are connected to the same pickup tubes as the GEN•S System reagent lines.

3. Cycle deionized water through the reagent lines:
  - a. Press **RUN SHUT DOWN (MAIN MENU >> ROUTINE FUNCTIONS >> ROUTINE FLUIDICS >> RUN SHUT DOWN)** four times.

**OPERATING PROCEDURES**  
*SHUTDOWN*

- b. Press **RUN STARTUP** (**MAIN MENU** ▶ **ROUTINE FUNCTIONS** ▶ **ROUTINE FLUIDICS** ▶ **RUN STARTUP**) four times.

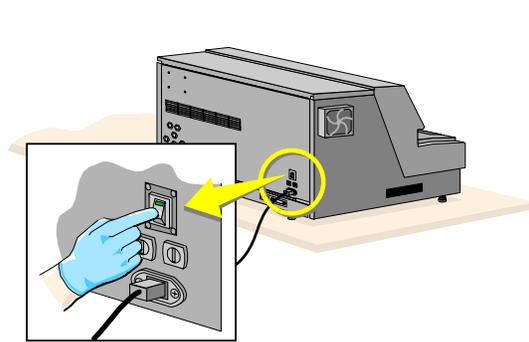
4. Press  to turn off the SlideMaker.

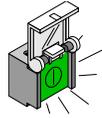
## 6.1 CLEANING PROCEDURES

### Cleaning And Replacing Air Filter

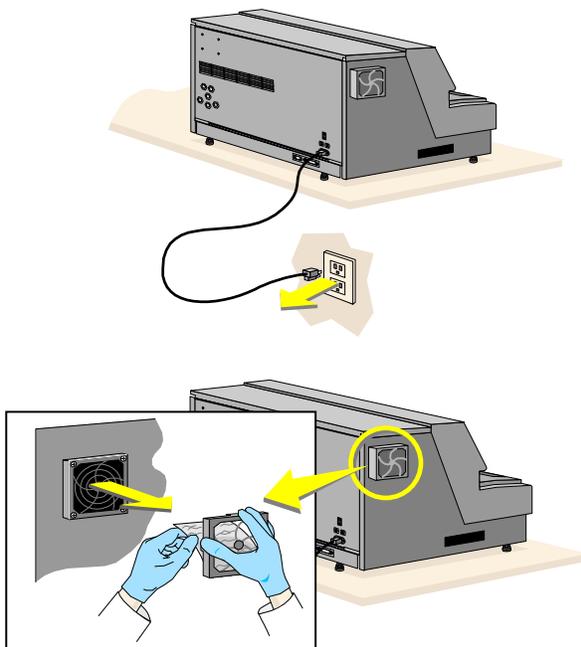
#### Procedure

**CAUTION** Risk of damage to the Power Supply. A dirty air filter can cause the Power Supply to overheat. Check the filter and clean as needed. If a SlideStainer is attached to your SlideMaker, call your Coulter Representative for assistance.

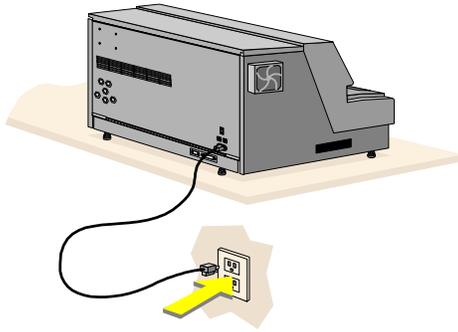


1. Press  to turn off the SlideMaker.
2. Turn off the power.

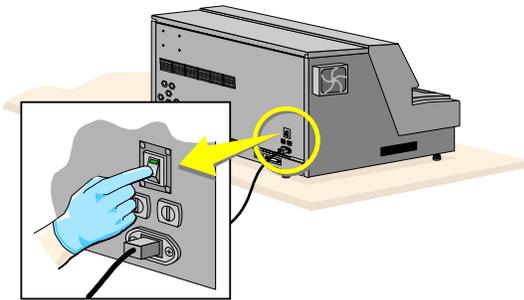
**WARNING** Risk of personal injury. A shock hazard exists if the power cord is connected. Unplug the primary power cord before performing these procedures.



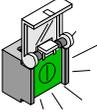
3. Unplug the power cord.
4. Remove the filter cover.
5. Pinch and pull out the filter.
6. Wash the filter in soap and water, rinse it and dry it completely.  
If the filter is torn or shredded, discard it and replace it with a new one. Order replacement filters from your Coulter Representative.
7. Return the filter to its original location.
8. Put the filter cover back on.



9. Plug in the power cord.



10. Turn on the power.

11. Press  to turn on the SlideMaker.

## Cleaning Blood Spills And Broken Slides

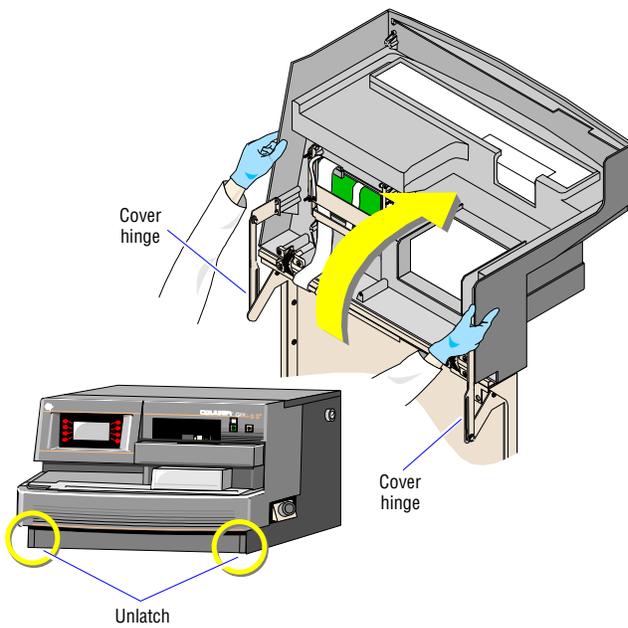
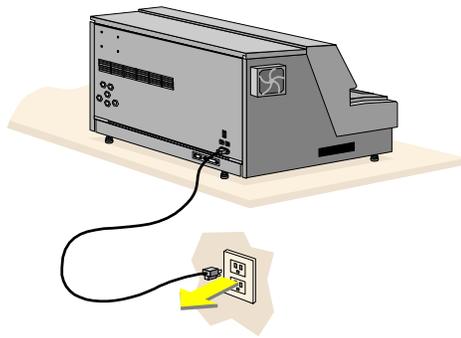
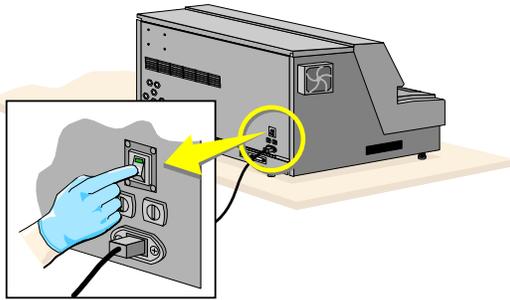
### Procedure

**CAUTION** Possible biohazardous condition. Clean up any blood spill or broken slide as quickly as possible. Handle with care. Avoid skin puncture. Dispose of all contaminated disposable cleaning materials and broken slides (sharps) in accordance with your local regulations and acceptable laboratory practices



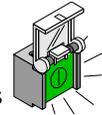
1. Use a spill control and decontamination kit containing the following items:
  - A cleaning solution capable of inactivating the Human Immunodeficiency Virus (HIV) and Hepatitis B (HBV). To make an acceptable cleaning (bleach) solution, mix:
    - ▶ Four parts water.
    - ▶ One part high-quality, fragrance-free bleach (5% sodium hypochlorite - available chlorine).
  - Sufficient absorbent materials to handle the largest potential spill (such as paper towels)
  - Latex or rubber gloves
  - Biohazard bag for waste

**WARNING** Risk of personal injury. A shock hazard exists if the power cord is connected. Unplug the primary power cord before performing these procedures.



2. If the spill or broken slide is inside the SlideMaker:



3. Press  to turn off the SlideMaker

4. Turn off the power

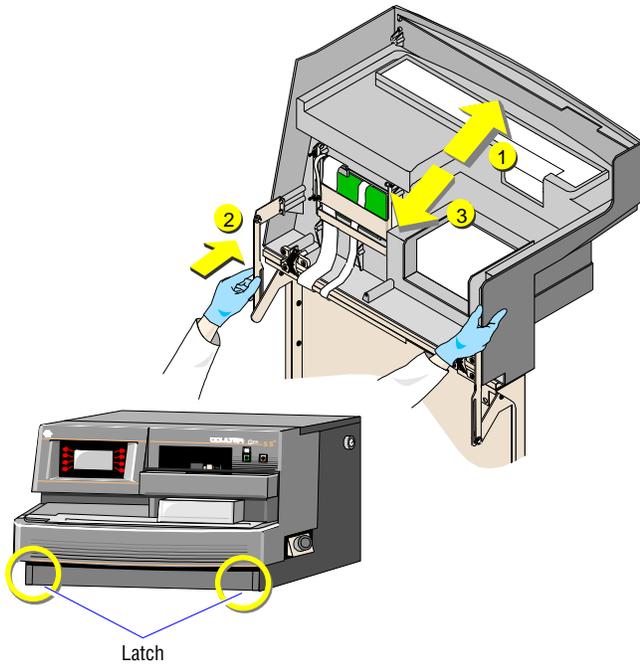
5. Unplug the power cord.

6. Unlatch the front cover and raise it up completely

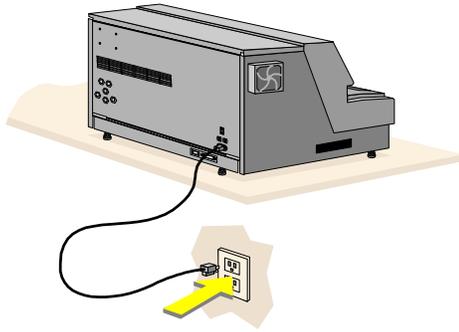
**CLEANING/REPLACEMENT PROCEDURES**  
*CLEANING PROCEDURES*



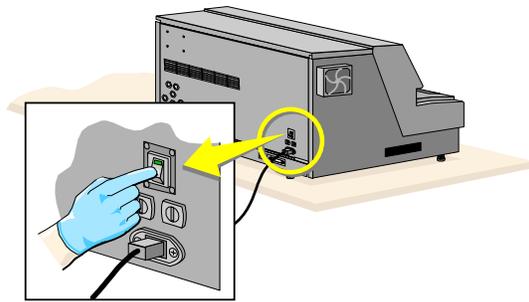
7. Clean up solid materials first by mechanical means (tongs or a brush).
8. Clean up any spilled blood with paper towels and place into a biomedical waste container.
9. Clean affected area with bleach solution.



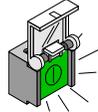
10. If the spill or broken slide was inside the SlideMaker close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.
11. Close the cover, ensuring the lower latches are engaged.



12. Plug in the power cord.



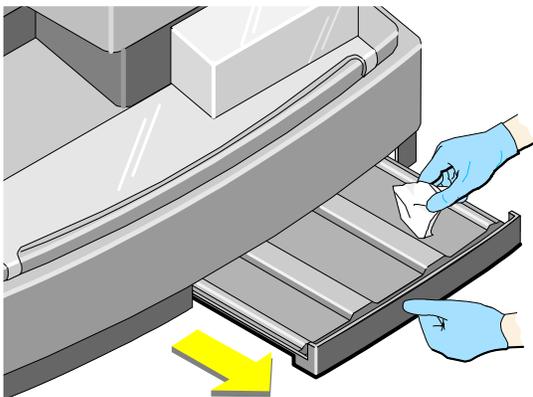
13. Turn on the power.

14. Press  to turn on the SlideMaker.

## Cleaning A Catch Tray

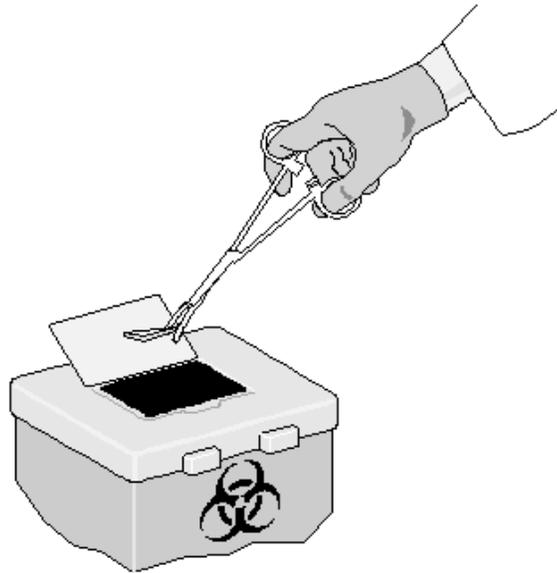
### Procedure

**CAUTION** Possible biohazardous condition. Handle with care. Avoid skin puncture. Dispose of all contaminated disposable cleaning materials and broken slides (sharps) in accordance with your local regulations and acceptable laboratory practices



1. Use a cleaning solution capable of inactivating the Human Immunodeficiency Virus (HIV) and Hepatitis B (HBV). To make an acceptable cleaning (bleach) solution, mix:
  - Four parts water.
  - One part high-quality, fragrance-free bleach (5% sodium hypochlorite - available chlorine).
2. Pull out the catch tray you want to clean.

**CLEANING/REPLACEMENT PROCEDURES**  
*CLEANING PROCEDURES*

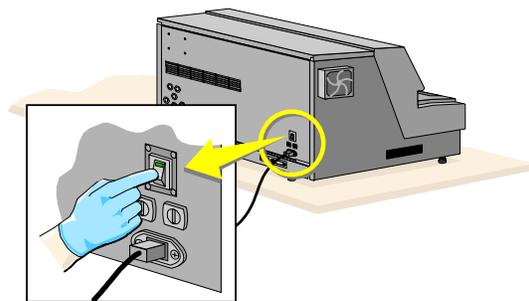


3. Clean up solid materials first by mechanical means (tongs or a brush) and place the materials into a biomedical waste container.
4. Clean up any spilled blood with paper towels and place into a biomedical waste container.
5. Clean the catch tray with bleach solution.
6. Visually inspect the area where you removed the catch tray. Slides can fall behind and off the catch tray.
7. If necessary, remove any slides or debris by mechanical means (tongs or a brush) and place the slides or debris into a biomedical waste container.
8. Return the cleaned tray to its original position.

## Cleaning The Dispense Probe And Rinse Cup

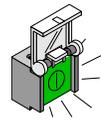
### Procedure

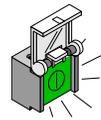
**CAUTION** Possible biohazardous condition. Handle with care. Avoid skin puncture. Dispose of all contaminated disposable cleaning materials and broken slides (sharps) in accordance with your local regulations and acceptable laboratory practices.



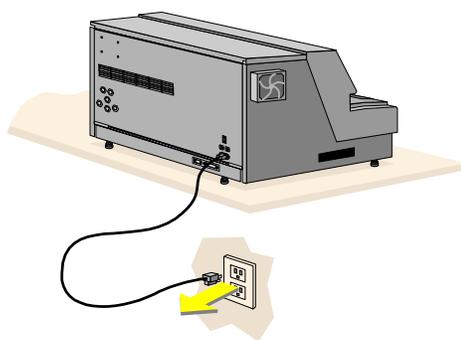
1. Use a cleaning solution capable of inactivating the Human Immunodeficiency Virus (HIV) and Hepatitis B (HBV). To make an acceptable cleaning (bleach) solution, mix:

- Four parts water.
- One part high-quality, fragrance-free bleach (5% sodium hypochlorite - available chlorine).



2. Press  to turn off the SlideMaker.
3. Turn off the power.

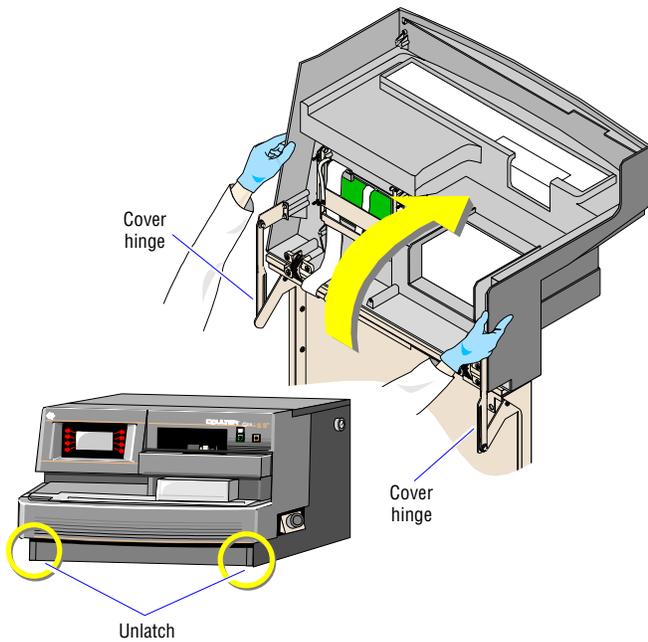
**WARNING** Risk of personal injury. A shock hazard exists if the power cord is connected. Unplug the primary power cord before performing these procedures.



4. Unplug the power cord.

**CLEANING/REPLACEMENT PROCEDURES**  
*CLEANING PROCEDURES*

5. Unlatch the front cover and raise it up completely

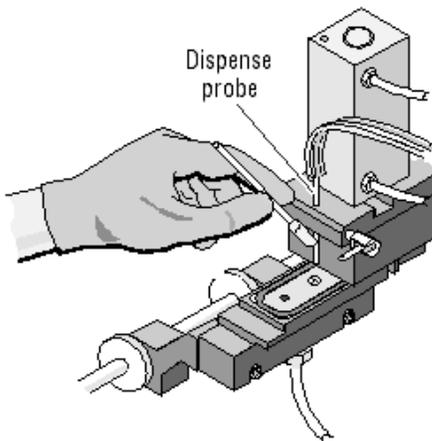


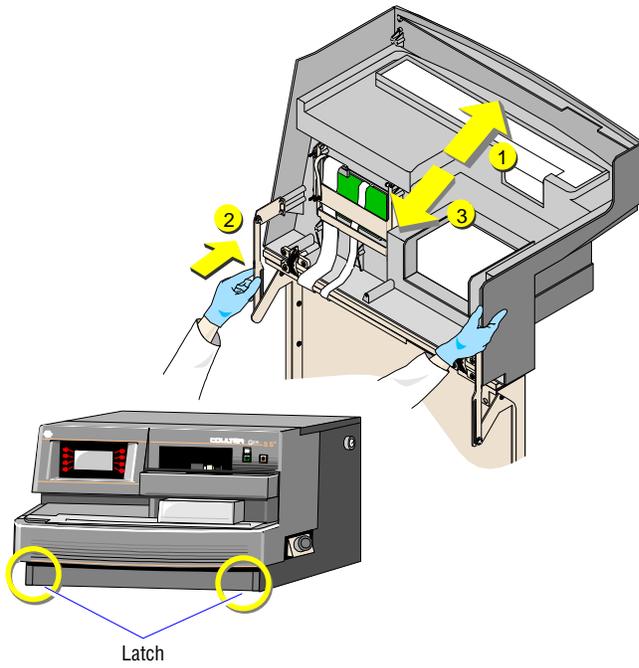
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**WARNING** Risk of injury from movable part. Be careful when working with movable parts

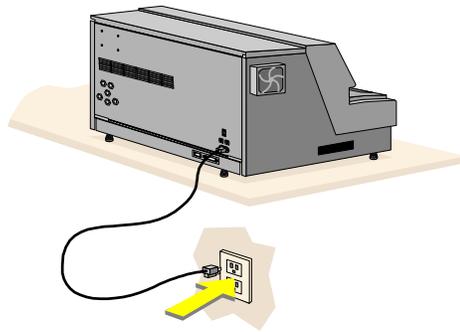
---

6. If necessary, manually move the smear truck and shuttle so they do not obstruct your view of the dispense probe.
7. Clean the dispense probe and rinse cup with a cotton swab moistened with the bleach solution.
8. Dip another cotton swab in water and wipe the same area..

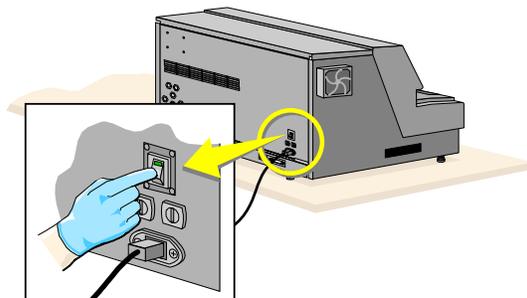




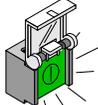
9. Close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.
  - c. Close the cover, ensuring the lower latches are engaged.



10. Plug in the power cord.



11. Turn on the power.

12. Press  to turn on the SlideMaker.

## Priming/backwashing Slidemaker

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is ready to process samples.
2. Press **EXIT** until you reach the **MAIN MENU** screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **ROUTINE FLUIDICS**.
5. Press **PRIME SYSTEM**.

The SlideMaker status line displays *BACKWASHING* while the SlideMaker backwashes the sample lines and rinses the rinse trough.

When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.

6. Press **EXIT** until you reach the **MAIN MENU** screen.
7. Press **RUN MODE** to return to the **RUN MODE** screen.

## Flushing The Slidemaker (Bleach System)

### Procedure

1. Prepare 750 mL of bleach solution in a container.
2. Place the reagent line labeled **DISINFECT** into the bleach container.
3. Press **EXIT** until you reach the **MAIN MENU** screen.
4. Press **SPECIAL CYCLES**.
5. Press **BLEACH SYSTEM** to decontaminate Diluter lines that are exposed to blood. This takes approximately 5 minutes.

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**CAUTION** System damage could occur if you leave the bleach solution for more than 15 minutes. Remove the bleach solution immediately after the system flush completes processing.

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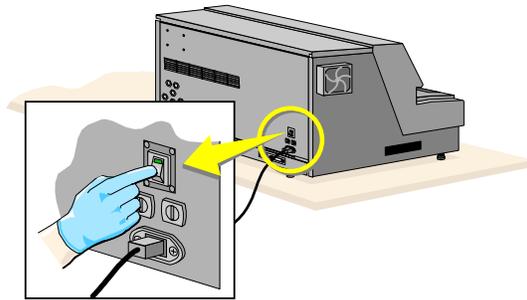


6. Remove the reagent line from the bleach container and place it in a 750 mL container of distilled water.
7. Press **BLEACH SYSTEM** to remove the bleach solution. This takes approximately 5 minutes.
8. Press **EXIT** until you reach the **MAIN MENU** screen.
9. Press **ROUTINE FUNCTIONS**.
10. Press **ROUTINE FLUIDICS**.
11. Press **RUN SHUT DOWN**.
12. Perform daily startup.

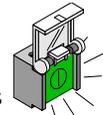
## 6.2 REPLACEMENT PROCEDURES

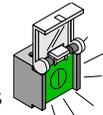
### Replacing Slidemaker Fuses

#### Procedure



1. If the spill or broken slide is inside the SlideMaker:

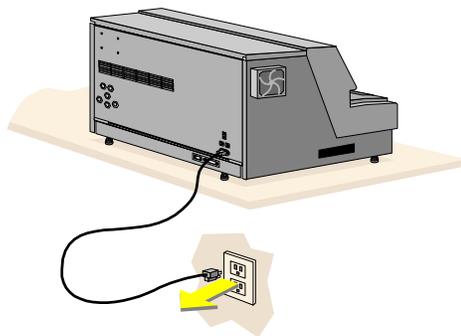


2. Press  to turn off the SlideMaker
3. Turn off the power

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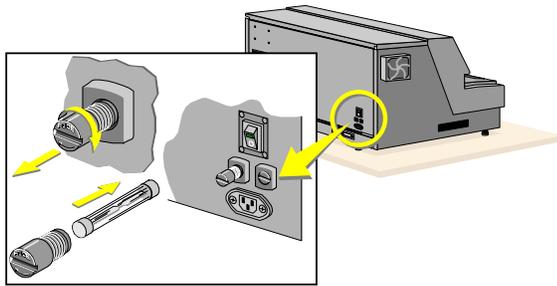
**WARNING** Risk of personal injury. A shock hazard exists if the power cord is connected. Unplug the primary power cord before performing these procedures.

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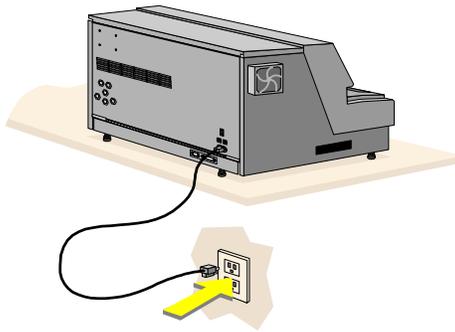


4. Unplug the power cord.

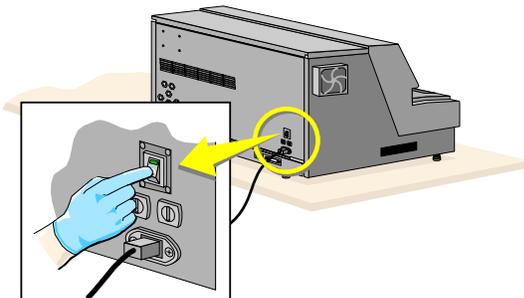
**CAUTION** Risk of fire hazard. If you replace a fuse with a new fuse of a different type or rating, a fire can occur. For protection against fire hazard, replace fuses with those of the same type and rating only



5. Unscrew the threaded fuse cap, and pull it out of its hole.
6. Remove the fuse from the cap and inspect it. If the fuse is burned out, replace it with a new one with the same type and rating.



7. Plug in the power cord.

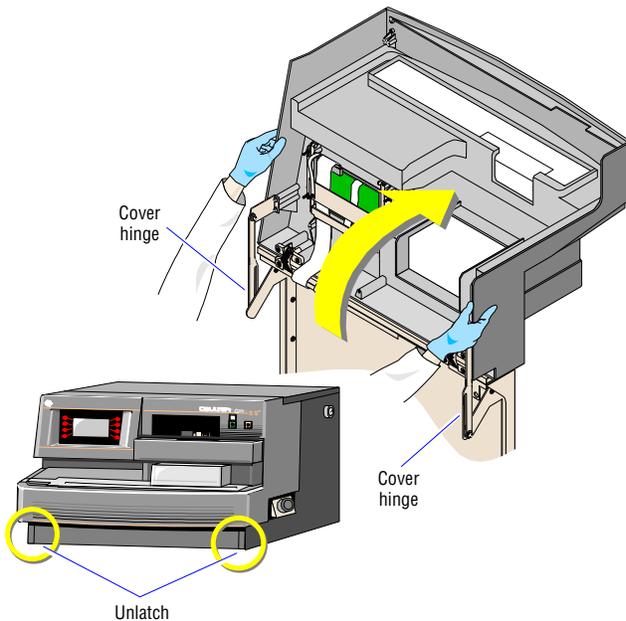


8. Turn on the power.

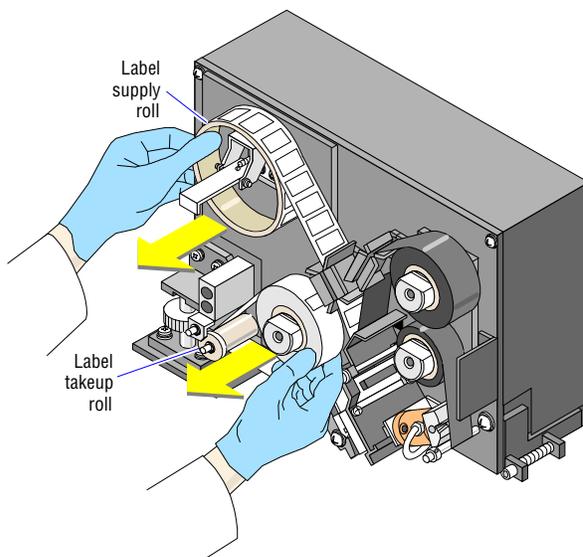
9. Press  to turn on the SlideMaker.

## Replacing The SlideMaker Label Roll

### Procedure

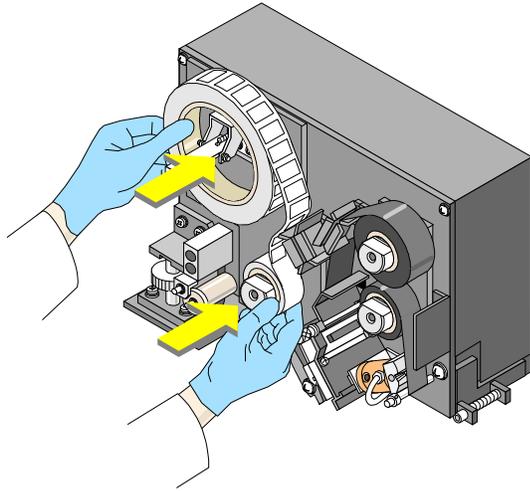


1. Press  to turn off the SlideMaker
2. Unlatch the front cover and raise it up completely

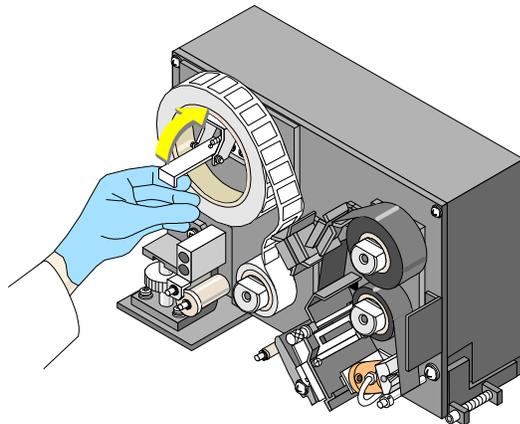


3. Remove the empty roll:
  - a. Open the clip on the label supply.
  - b. Remove the empty supply roll and the full take-up roll.
4. Open the package that contains the new supply roll and take-up roll.

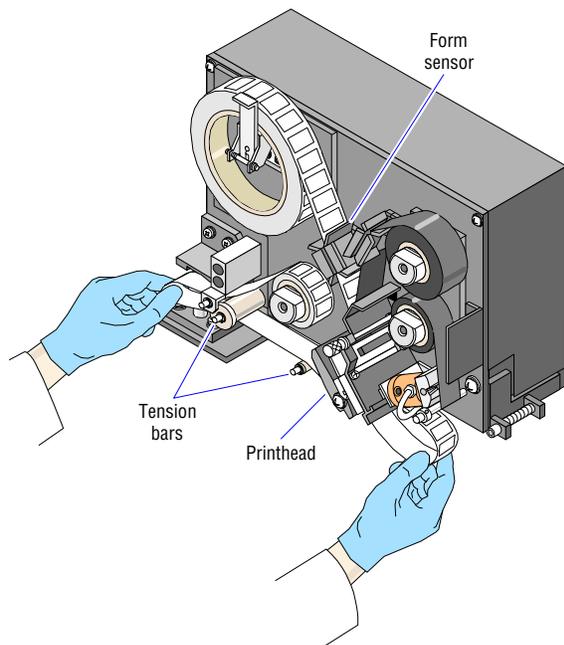
**CLEANING/REPLACEMENT PROCEDURES**  
*REPLACEMENT PROCEDURES*



5. Place the new roll.
  - a. Place the supply and the take-up rolls on their retainer spools.

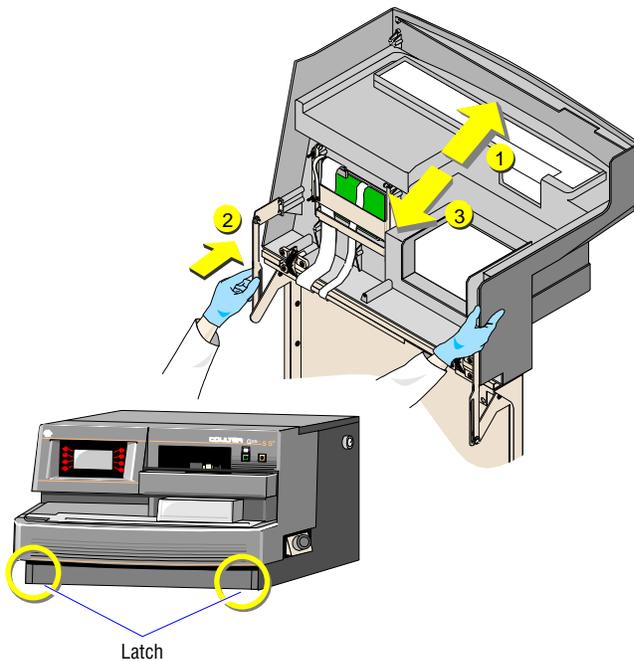


- b. Close the clip on the label supply.



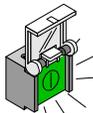
**Note:** The SlideMaker contains an arrow path to show the proper direction to thread the label tape.

- c. Thread the label tape through the form sensor, through the printer head, and around the two label tension bars.



- 6. Close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.
  - c. Close the cover, ensuring the lower latches are engaged.



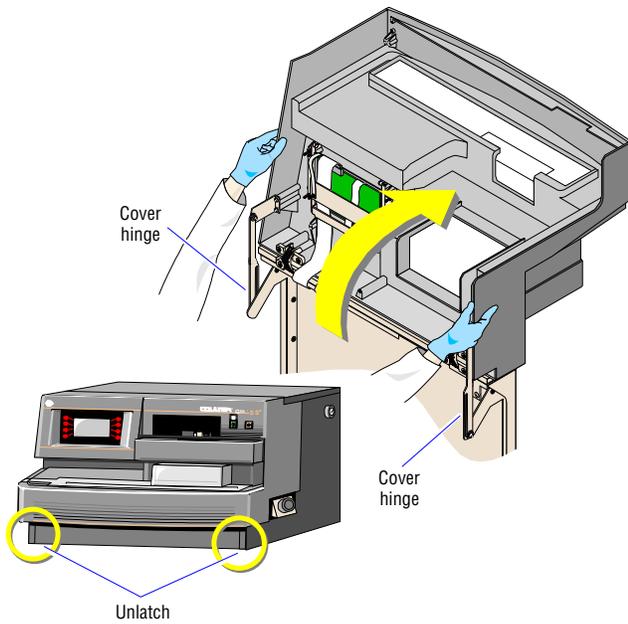
- 7. Press  to turn on the SlideMaker.

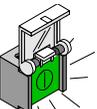
Print some test labels to ensure the new label roll is working properly. Turn on the power.

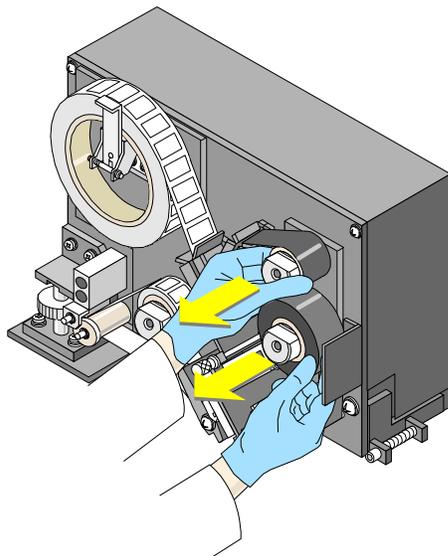
## Replacing The SlideMaker Printer Ribbon

### Procedure

1. **Note:** Replacing the printer ribbon is necessary after using approximately four rolls of labels.



1. Press  to turn off the SlideMaker
2. Unlatch the front cover and raise it up completely

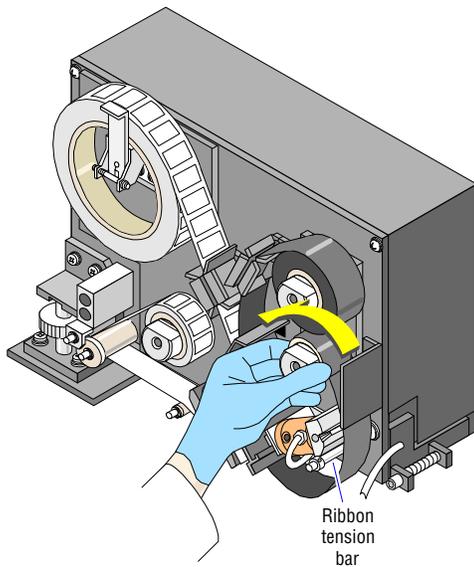


3. Remove the old printer ribbon.

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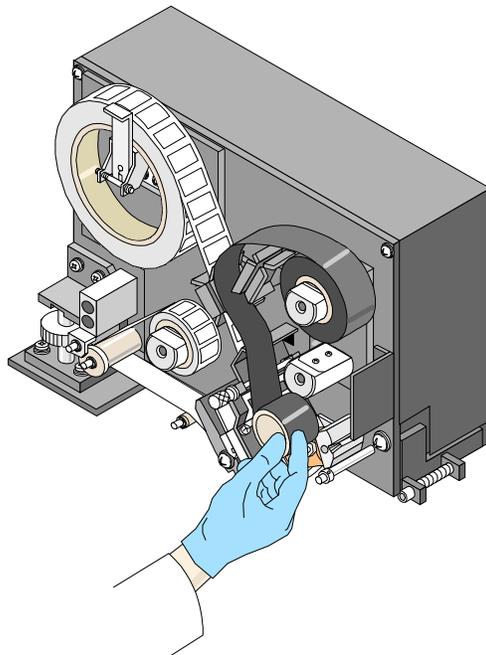
**IMPORTANT** Risk of breakage. The ribbon connecting the supply roll and take-up roll can break if you pull it too hard. Pull gently to separate the two rolls. If the connecting ribbon breaks, tape it to the take-up roll.

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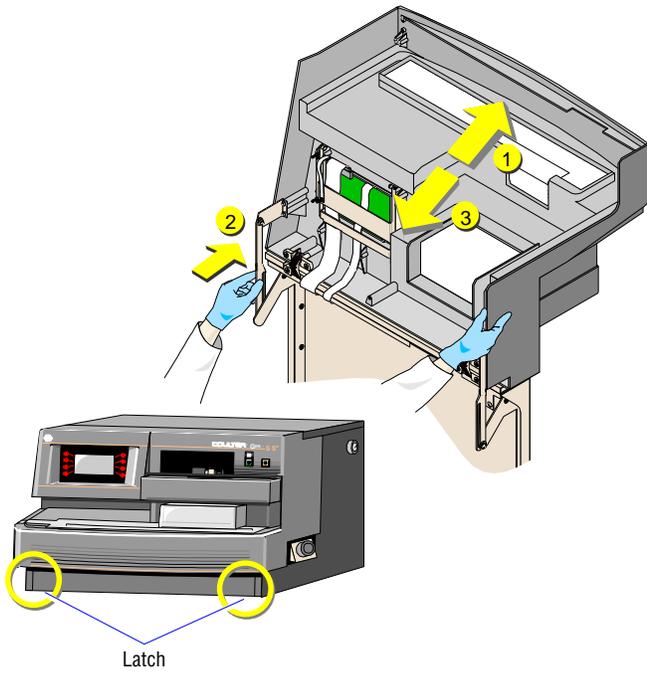
4. Open the new printer ribbon package.
5. While letting the take-up roll hang, thread the ribbon through the printer head.

Note: The SlideMaker contains an arrow path to show the proper direction to thread the printer ribbon.



6. Place the supply roll on its retainer spool.
  7. Place the take-up roll on its retainer.
  8. Thread the ribbon around the tension bar.
- Wind the ribbon until you see the ribbon reach the tension bar.

**CLEANING/REPLACEMENT PROCEDURES**  
*REPLACEMENT PROCEDURES*



9. Close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.
  - c. Close the cover, ensuring the lower latches are engaged.

10. Press  to turn on the SlideMaker.

## 7.1 OVERVIEW

Slide quality is often the source of problems with the SlideMaker. When slides jam frequently on the SlideMaker, check your slides. Checking the SlideMaker for possible slide jams is also helpful in detecting problems. Make sure to check the:

- Slide cassette
- Slide Ejector module
- Shuttle
- Dryer
- Smear truck
- Slide platen and elevator
- Pusher bars

Smear quality can be affected in several ways.

The SlideMaker screen allows you to perform several troubleshooting and general functions:

- Slide label problems
  - ▶ Increasing printer label intensity
  - ▶ Decreasing printer label intensity
  - ▶ Rebooting the printer
  - ▶ Saving printer label intensity
  - ▶ Testing label printing
- Fluidic problems
  - ▶ Draining the SlideMaker
  - ▶ Rinsing the SlideMaker vacuum accumulator
  - ▶ Priming/Backwashing the SlideMaker
  - ▶ Priming reagent reservoirs
  - ▶ Starting up the SlideMaker
  - ▶ Shutting down the SlideMaker
- Advancing a slide basket
- Checking pneumatic/power supplies
- Testing SlideMaker Keypad
- Testing SlideMaker Display

If you suspect a problem in any of these areas, you can attempt to perform these functions before calling your Coulter Representative. If requested to do so by a Coulter Representative, you can also use the reset switch on the SlideMaker.

## 7.2 SLIDEJAMS OR DEBRIS

### Checking The Dryer

#### Procedure

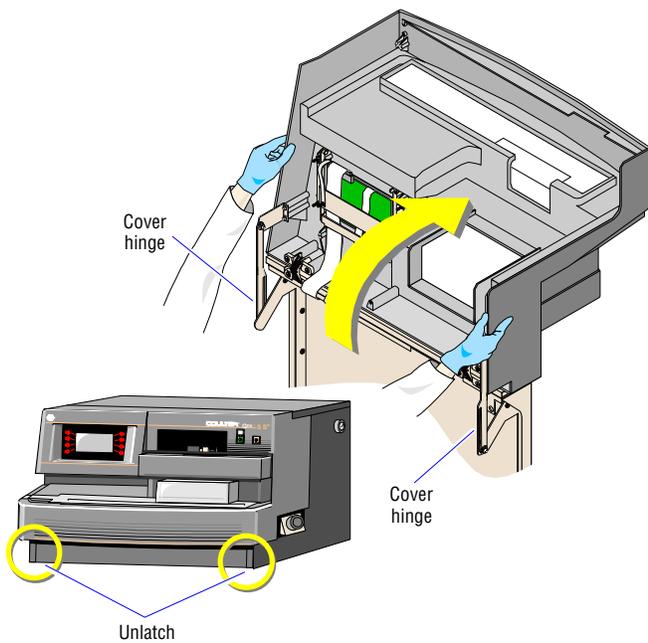
If slides are not coming out of the dryer properly,

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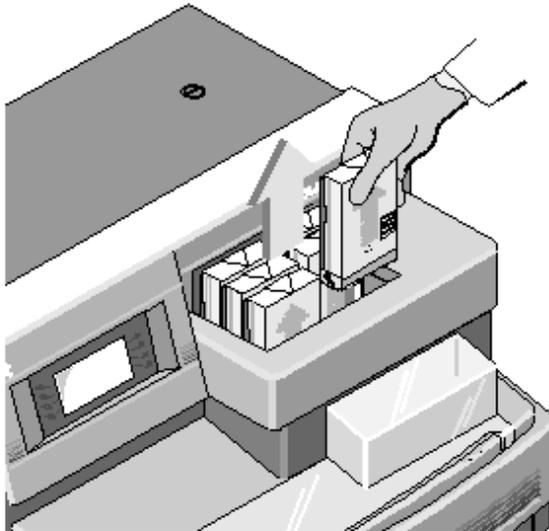
**WARNING** Possible biohazardous condition. Clean up any blood spill or broken slide as quickly as possible. Handle with care. Avoid skin puncture. Dispose of all contaminated disposable cleaning materials and broken slides (sharps) in accordance with your local regulations and acceptable laboratory practices.

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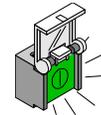
1. If you have not already done so, open the cover.

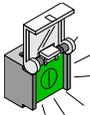


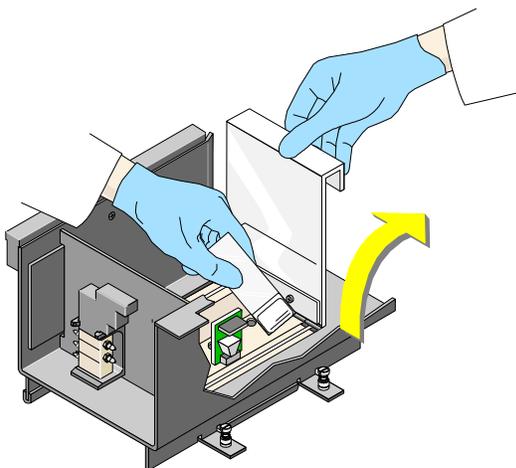
**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving



2. Remove all slide cassettes from the input and output queues.

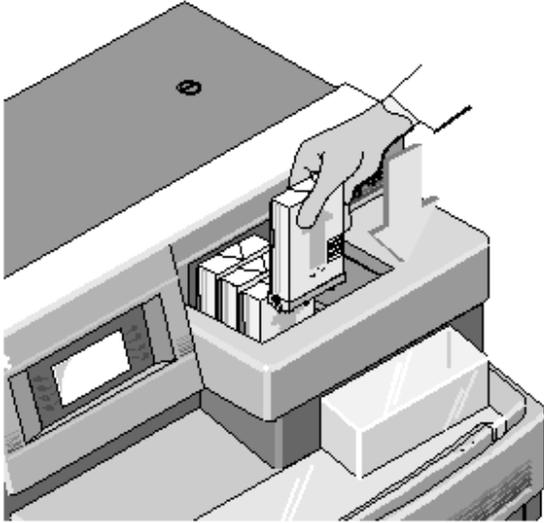


- a. If necessary, press  to turn off the SlideMaker and release the current slide cassette.
- b. Move the cassette backward and up from the output queue.
- c. If necessary, check the cassette to make sure the slides inside it are not stuck together.
- d. If a slide is jammed inside the shuttle area, remove and dispose of the slide.

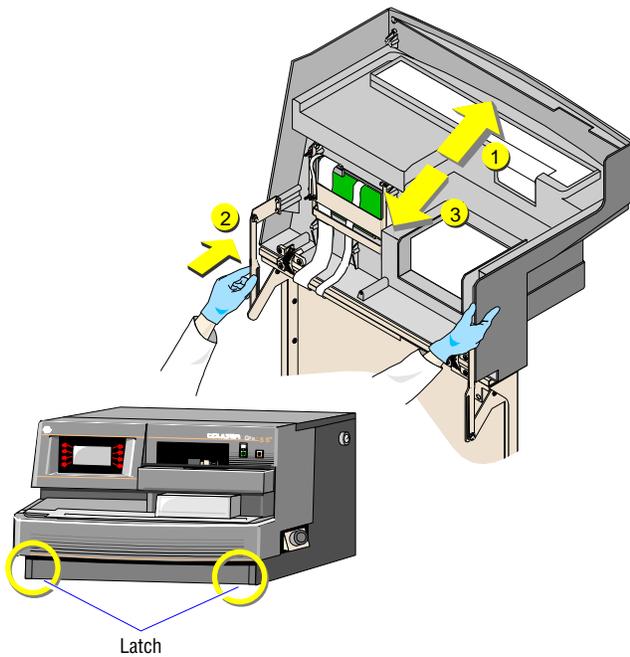


3. Lift the cover to the dryer area.
  - a. If a slide appears jammed in the dryer area, remove it with your hand and dispose of the slide.

**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving.



4. Return the full slide cassettes to the input queue.
  - a. Position the cassette with the raised arrow pointing up and facing you.
  - b. Place up to four filled slide cassettes, one at a time, into the input queue in front of the cassette pusher.



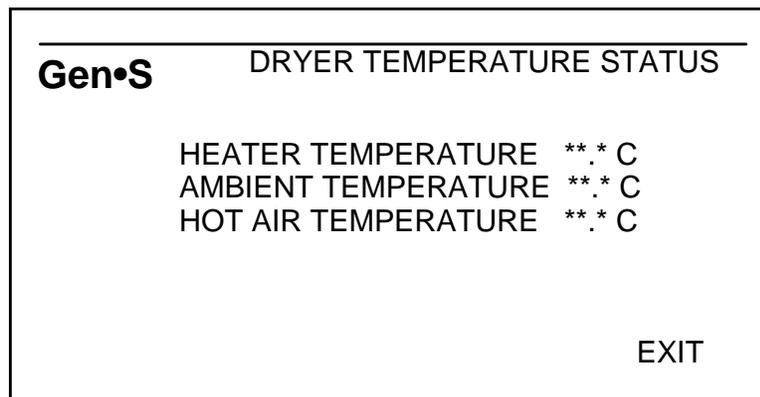
5. Close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.Close the cover, ensuring the lower latches are engaged.

If slides do not appear to be drying properly

1. Check the dryer temperature status.
2. Test the dryer motor and heater to ensure they are working properly.

## Checking The Dryer Temperature

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **SPECIAL FUNCTIONS**.
4. Press **DRYER TEMPERATURE**. The DRYER TEMPERATURE STATUS screen appears as follows.



SlideMaker displays heater, ambient (reference) and air temperatures. If the difference between the heater and ambient temperatures:

- Exceeds 25°C (68°F), the SlideMaker status line displays *TEMPERATURE EXCEEDED*. Make sure the ambient room temperature of your laboratory is within acceptable limits. If you change your room temperature and the problem persists, contact your Coulter Representative.
- Is less than 19°C (50°F), the SlideMaker status line displays *LOW TEMPERATURE*. Make sure the ambient room temperature of your laboratory is within acceptable limits. If you change your room temperature and the problem persists, contact your Coulter Representative.

If the difference between the hot air and ambient temperatures:

- Exceeds 12°C (68°F), the SlideMaker status line displays *TEMPERATURE EXCEEDED*. Make sure the ambient room temperature of your laboratory is within acceptable limits. If you change your room temperature and the problem persists, contact your Coulter Representative.
- Is less than 4°C (50°F), the SlideMaker status line displays *LOW TEMPERATURE*. Make sure the ambient room temperature of your laboratory is within acceptable limits. If you change your room temperature and the problem persists, contact your Coulter Representative.

5. Press **EXIT** until you reach the MAIN MENU screen.
6. Press **RUN MODE** to return to the RUN MODE screen.

## Testing The Slidemaker Dryer And Heater

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the **MAIN MENU** screen.
3. Press **SPECIAL FUNCTIONS**.
4. Press **DRYER FUNCTION TEST**.
5. Select the function you want to test:

<b>Press This</b>	<b>To</b>
<b>DRYER MOTOR ON</b>	Turn on the SlideMaker dryer motor. Verify that the belt is moving. The SlideMaker status line displays <i>DRYER MOTOR ON</i> . If the dryer motor fails to turn on, check for a jam in the dryer area.
<b>DRYER MOTOR OFF</b>	Turn off the SlideMaker dryer motor. Verify that the belt stops moving. The SlideMaker status line displays <i>DRYER MOTOR OFF</i> . If the dryer motor fails to turn off, turn the SlideMaker off and call your Coulter Representative.
<b>HEATER ON</b>	Turn on the SlideMaker heater. The SlideMaker status line displays <i>HEATER ON</i> . Check the Dryer Temperature screen to verify heater temperatures. If the heater fails to turn on, turn the SlideMaker off and call your Coulter Representative.
<b>HEATER OFF</b>	Turn off the SlideMaker heater. The SlideMaker status line displays <i>HEATER OFF</i> . Check the Dryer Temperature screen to verify heater temperatures. If the heater fails to turn off, turn the SlideMaker off and call your Coulter Representative.

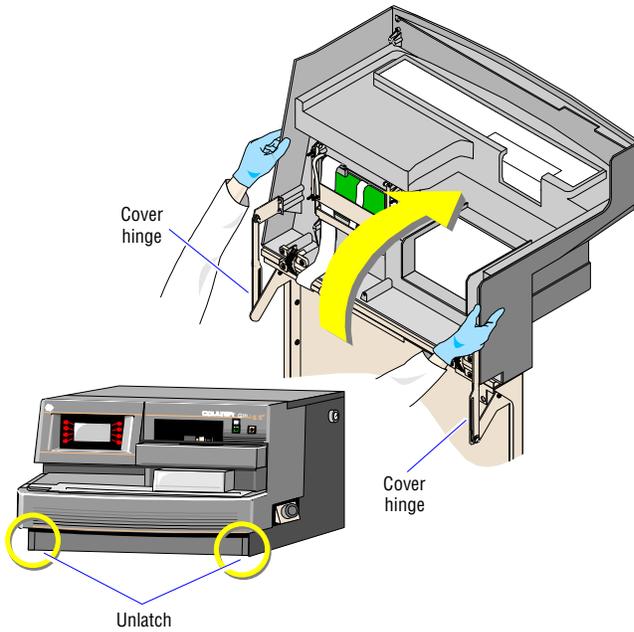
6. Press **EXIT** until you reach the **MAIN MENU** screen.
7. Press **RUN MODE** to return to the **RUN MODE** screen.

## Checking The Platen And Elevator

### Procedure

**WARNING** Risk of injury from movable part. Be careful when working with movable parts.

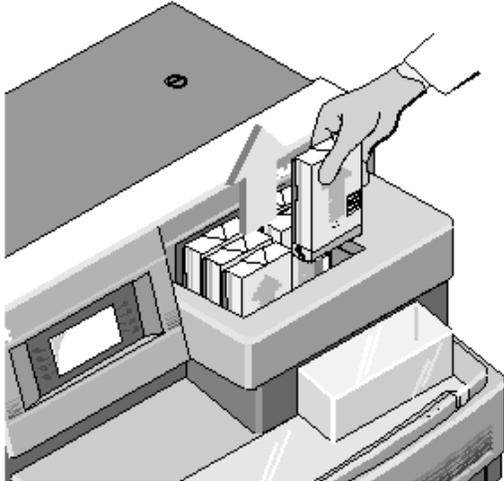
1. If you have not already done so, open the cover.



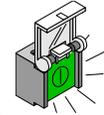
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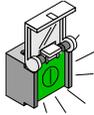
**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving.

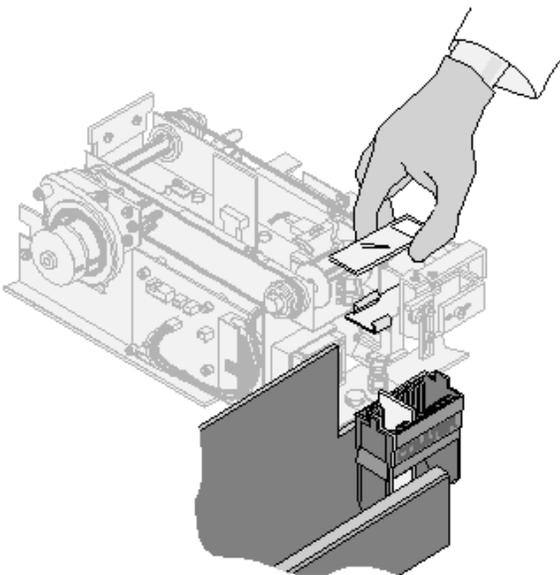
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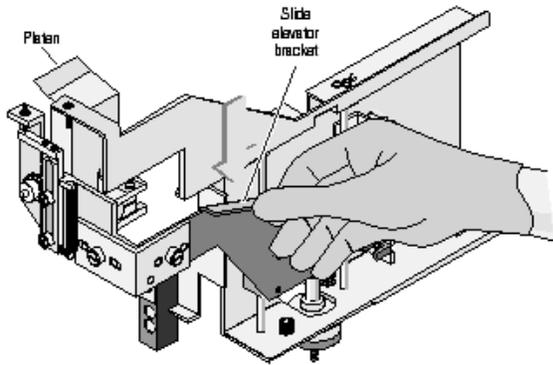


2. Remove all slide cassettes from the input and output queues.



- a. If necessary, press  to turn off the SlideMaker and release the current slide cassette.
  - b. Move the cassette backward and up from the output queue.
  - c. If necessary, check the cassette to make sure the slides inside it are not stuck together.
  - d. If a slide is jammed inside the shuttle area, remove and dispose of the slide. Remove slides, including jammed slides and debris, from shuttle, truck, pawls, and platen.
3. Remove slides, including jammed slides and debris, from shuttle, truck, pawls, and platen.



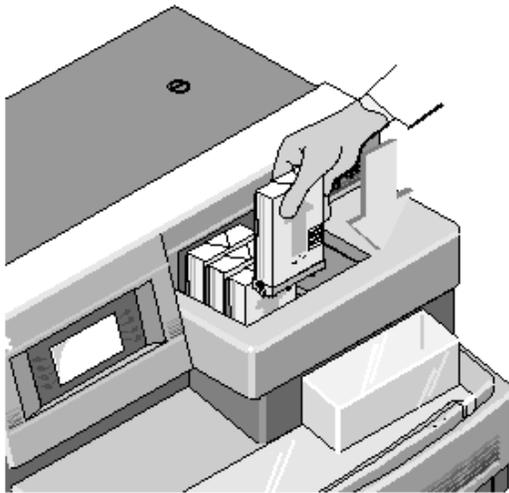


4. Manually move the platen by gently moving the elevator bar.

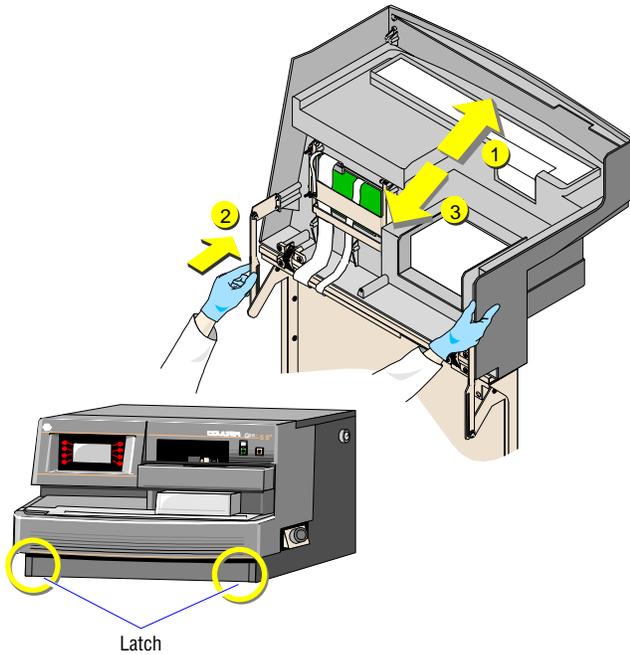
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**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving.

---



5. Return the full slide cassettes to the input queue.
  - a. Position the cassette with the raised arrow pointing up and facing you.
  - b. Place up to four filled slide cassettes, one at a time, into the input queue in front of the cassette pusher.

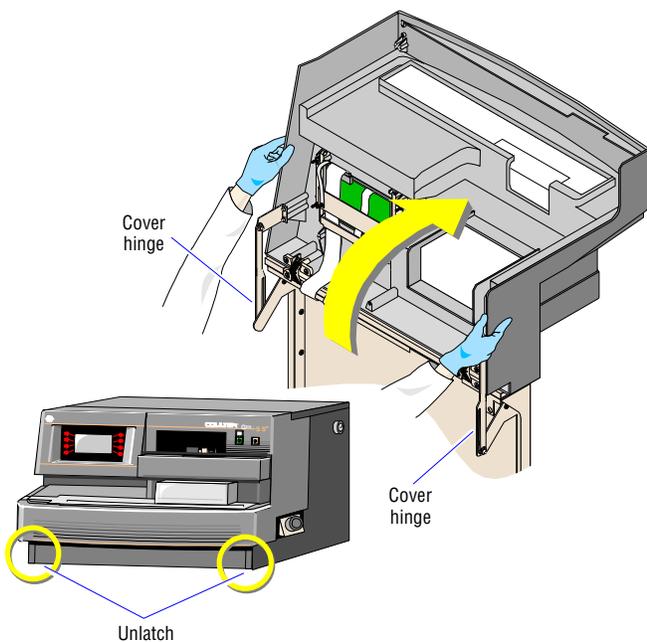


6. Close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.
  - c. Close the cover, ensuring the lower latches are engaged.

## Checking The Pusher Bars

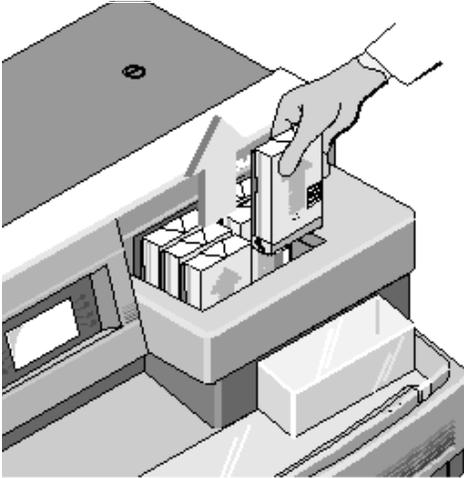
### Procedure

**WARNING** Risk of injury from movable part. Be careful when working with movable parts.

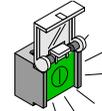


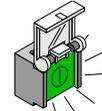
1. If you have not already done so, open the cover.

**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving



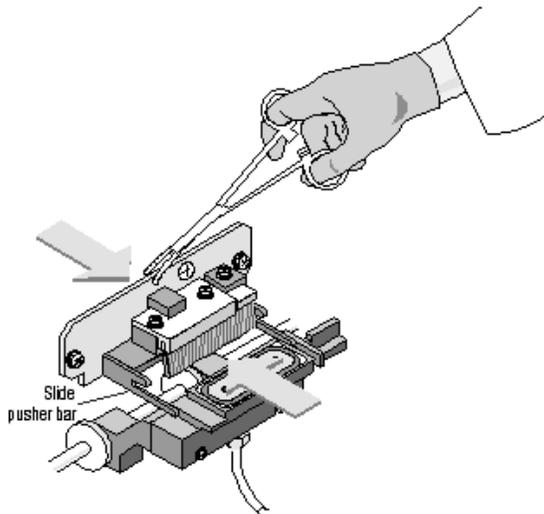
2. Remove all slide cassettes from the input and output queues.



- a. If necessary, press  to turn off the SlideMaker and release the current slide cassette.
- b. Move the cassette backward and up from the output queue.
- c. If necessary, check the cassette to make sure the slides inside it are not stuck together.
- d. If a slide is jammed inside the shuttle area, remove and dispose of the slide.

3. Remove slides, including jammed slides and debris, from shuttle, truck and pawls.
4. Remove any jammed slides or debris from the transfer area or under the dryer belts.
5. If necessary, manually move the truck so it does not obstruct your view of the pusher bars.

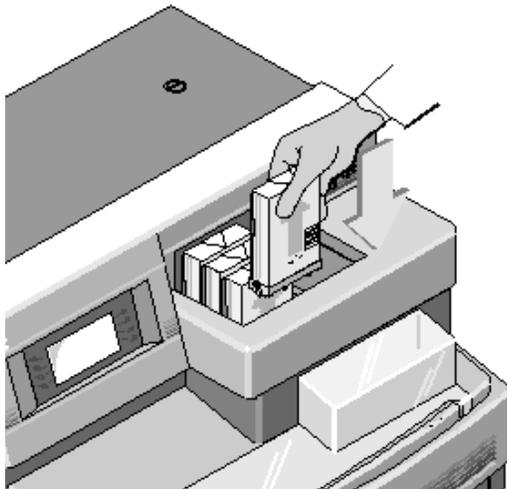
Manually move the pusher bars using your hand or a hemostat. Make sure to move the pusher bars all the way forward and backward.



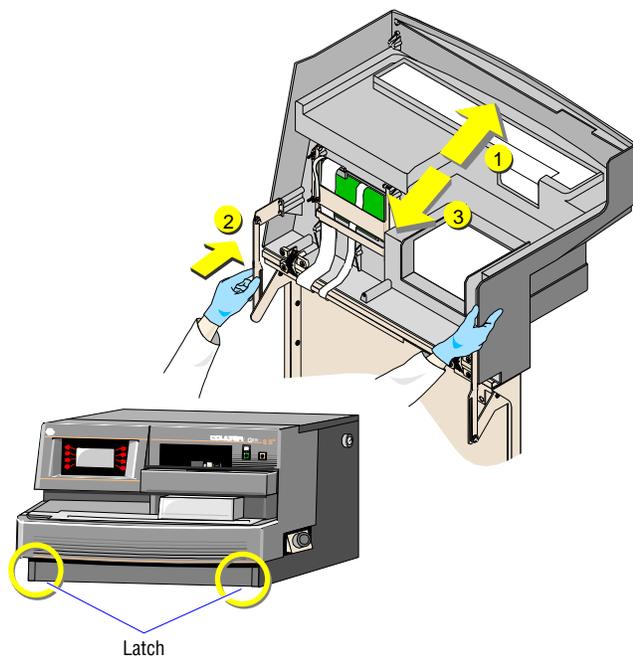
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**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving.

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6. Return the full slide cassettes to the input queue.
  - a. Position the cassette with the raised arrow pointing up and facing you.
  - b. Place up to four filled slide cassettes, one at a time, into the input queue in front of the cassette pusher.



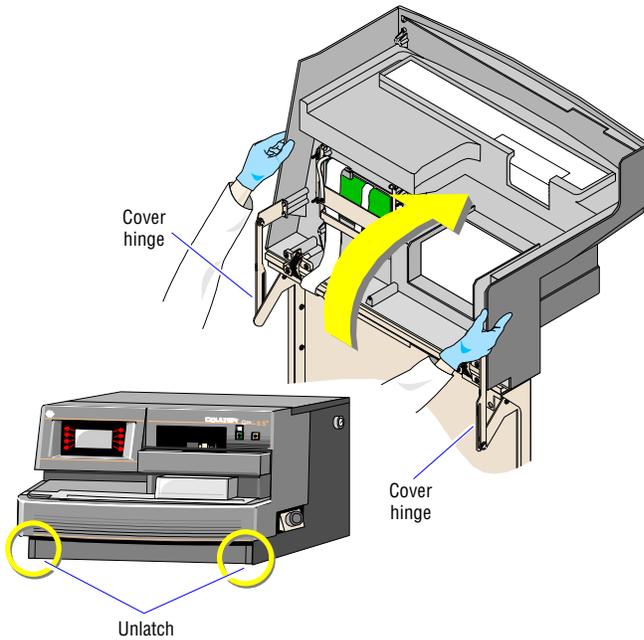
7. Close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.Close the cover, ensuring the lower latches are engaged.

## Checking The Shuttle

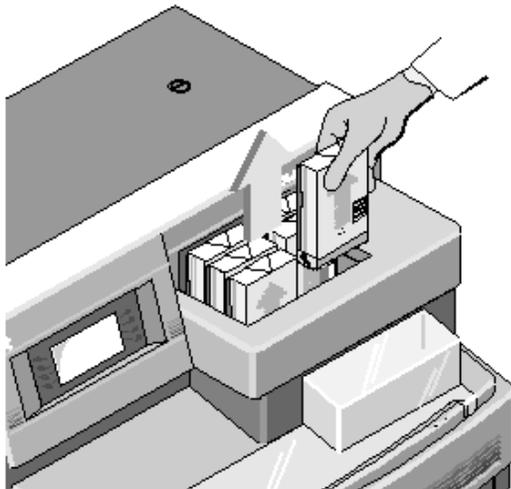
### Procedure

**WARNING** Risk of injury from movable part. Be careful when working with movable parts.

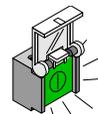
1. If you have not already done so, open the cover.

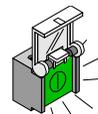


**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving.



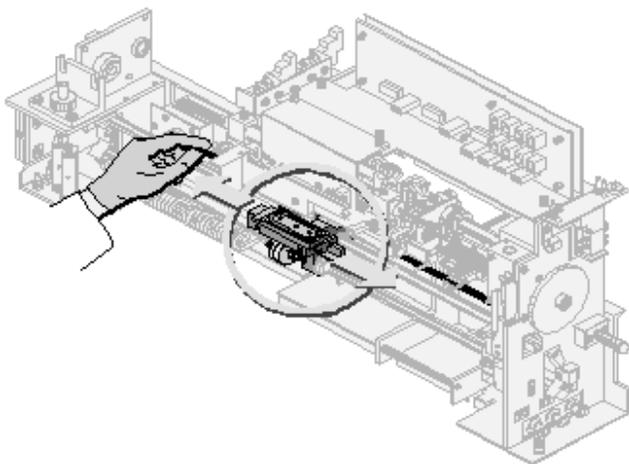
2. Remove all slide cassettes from the input and output queues.

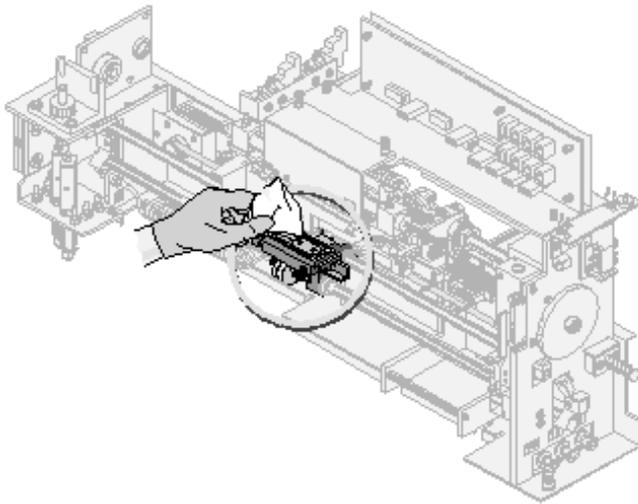


- a. If necessary, press  to turn off the SlideMaker and release the current slide cassette.
- b. Move the cassette backward and up from the output queue.
- c. If necessary, check the cassette to make sure the slides inside it are not stuck together.
- d. If a slide is jammed inside the shuttle area, remove and dispose of the slide.

3. Remove slides, including jammed slides and debris, from shuttle, truck and pawls.

Manually move the shuttle by gently sliding it or moving its belt inside instrument. Make sure to move the shuttle all the way along its path.



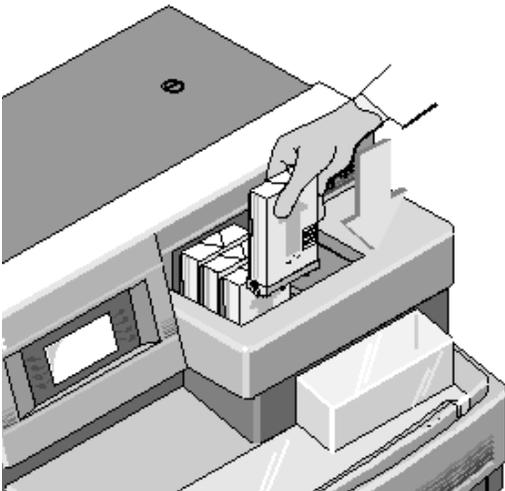


4. If you suspect a vacuum problem, debris may exist on the shuttle or on the slide. Use a lint-free tissue to wipe the shuttle and remove any debris.

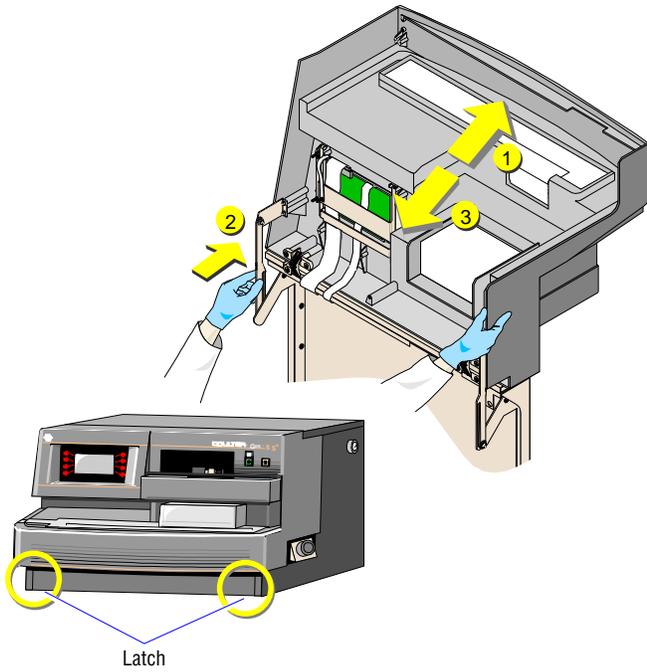
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**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving

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5. Return the full slide cassettes to the input queue.
  - a. Position the cassette with the raised arrow pointing up and facing you.
  - b. Place up to four filled slide cassettes, one at a time, into the input queue in front of the cassette pusher.

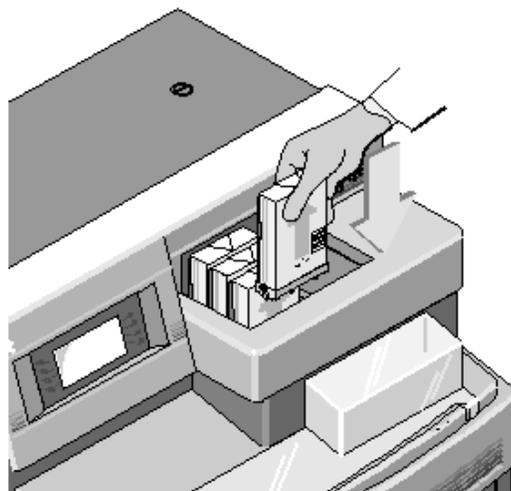
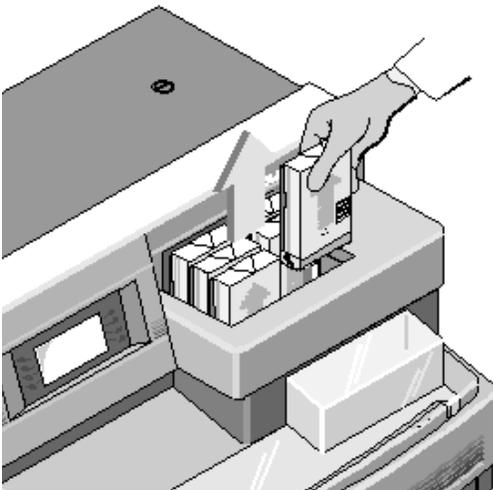


6. Close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.
  - c. Close the cover, ensuring the lower latches are engaged.

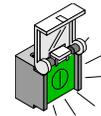
## Checking The Slide Cassette

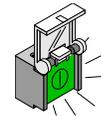
### Procedure

**WARNING** Risk of injury from movable part. Be careful when working with movable parts. Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving.



1. Remove all slide cassettes from the input and output queues.



- a. If necessary, press  to turn off the SlideMaker and release the current slide cassette.
- b. Move the cassette backward and up from the output queue.
- c. If necessary, check the cassette to make sure the slides inside it are not stuck together.
- d. If a slide is jammed inside the shuttle area, remove and dispose of the slide.

2. Remove any jammed slides from the cassette.

3. Replace the slides in the cassette.

4. Return the full slide cassettes to the input queue.

- a. Position the cassette with the raised arrow pointing up and facing you.
- b. Place up to four filled slide cassettes, one at a time, into the input queue in front of the cassette pusher.

5. **Note:** If your slides frequently jam in the cassette, call your Coulter Representative to adjust the slide opening.

## Checking The Slide Ejector Module

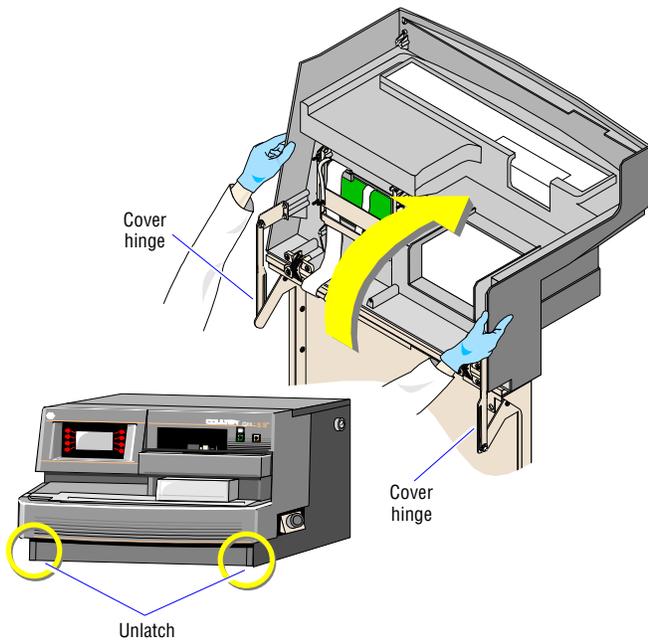
### Procedure

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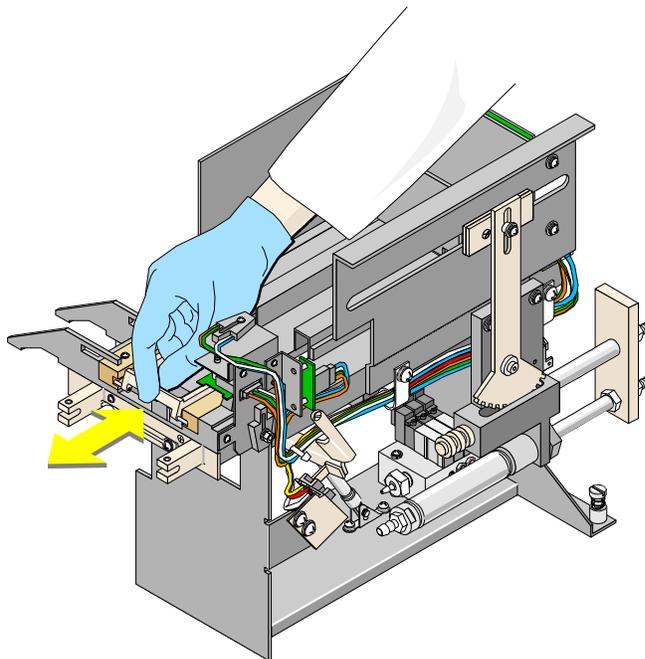
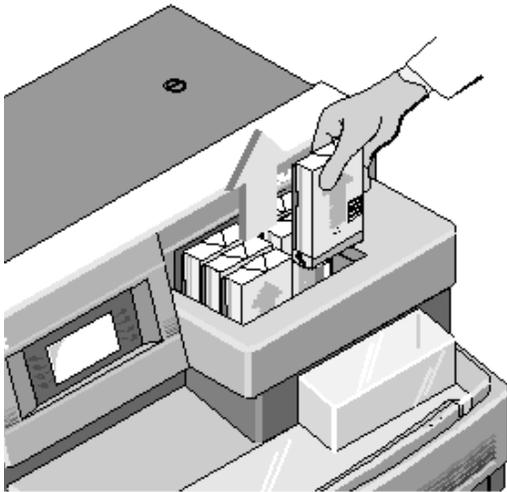
**WARNING** Risk of injury from movable part. Be careful when working with movable parts.

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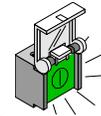
1. If you have not already done so, open the cover.

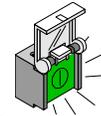


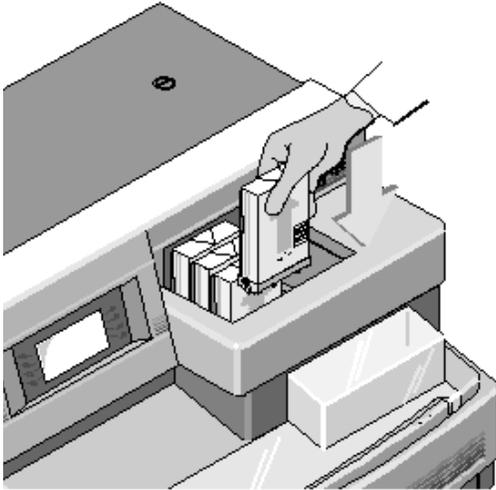
**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving.



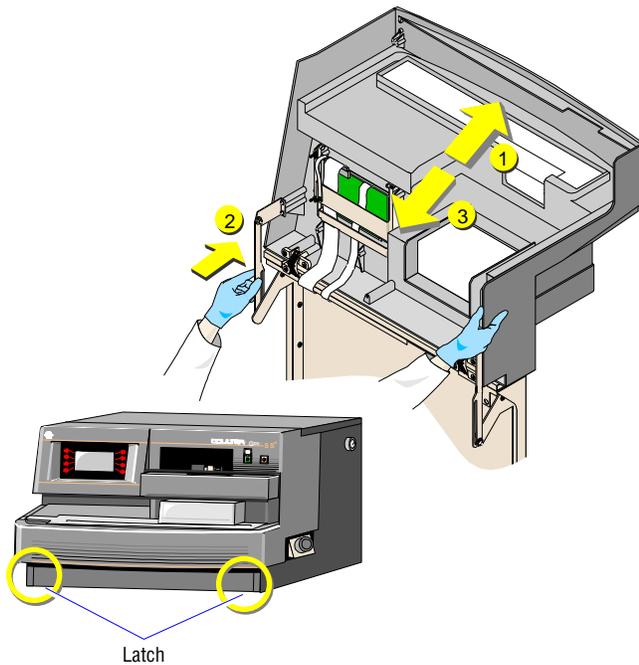
2. Remove all slide cassettes from the input and output queues.



- a. If necessary, press  to turn off the SlideMaker and release the current slide cassette.
  - b. Move the cassette backward and up from the output queue.
  - c. If necessary, check the cassette to make sure the slides inside it are not stuck together.
  - d. If a slide is jammed inside the shuttle area, remove and dispose of the slide.
  - e. Check the last slide cassette from the output queue and remove any jammed slides.
3. Remove any jammed slides or pieces of glass from the Slide Ejector module.
  4. Manually move the pawls forward and backward to ensure debris is not blocking it.



5. Return the full slide cassettes to the input queue.
  - a. Position the cassette with the raised arrow pointing up and facing you.
  - b. Place up to four filled slide cassettes, one at a time, into the input queue in front of the cassette pusher.



6. Close the cover.
  - a. Move the cover back slightly.
  - b. Disengage the hinges on both sides.
  - c. Close the cover, ensuring the lower latches are engaged.

## Checking The Truck

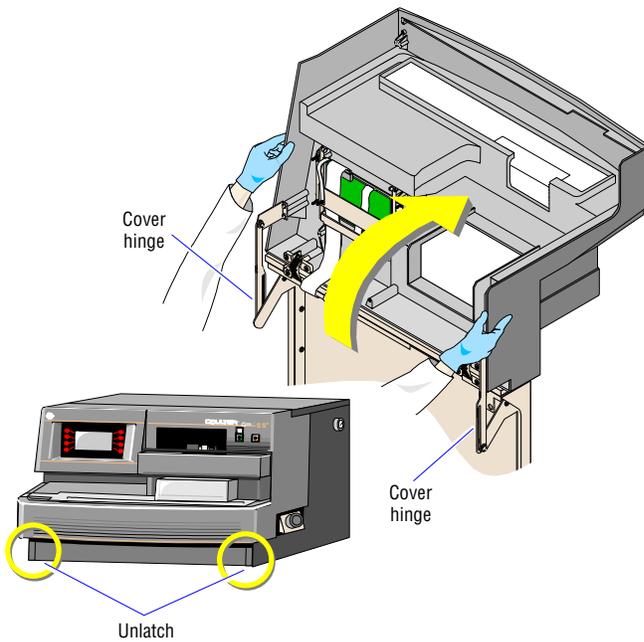
### Procedure

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**WARNING** Risk of injury from movable part. Be careful when working with movable parts.

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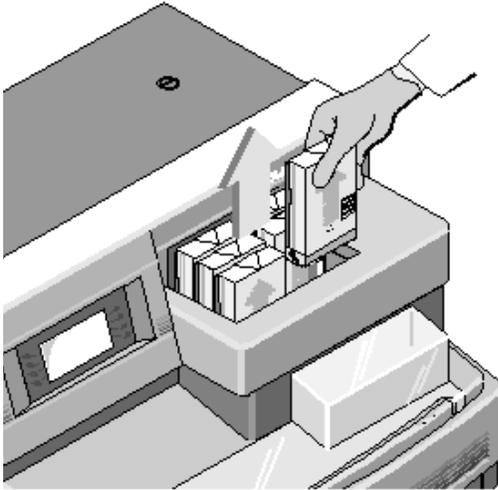
1. If you have not already done so, open the cover.



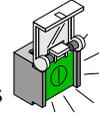
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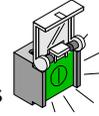
**WARNING** Risk of personal injury if you try to load or unload a slide cassette when a cassette is moving. Load or unload a slide cassette only when the slide cassette is not moving.

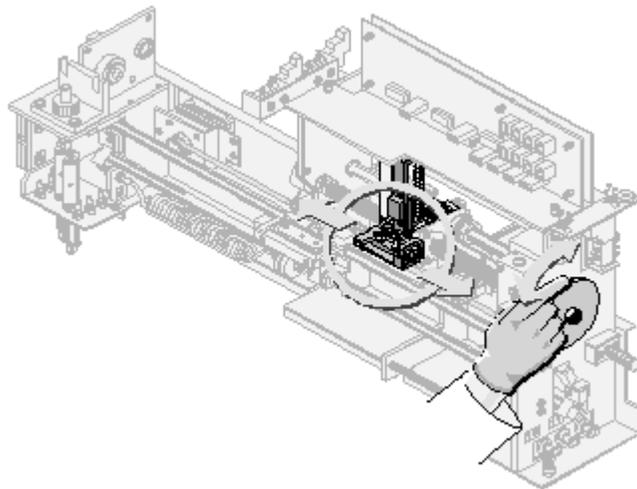
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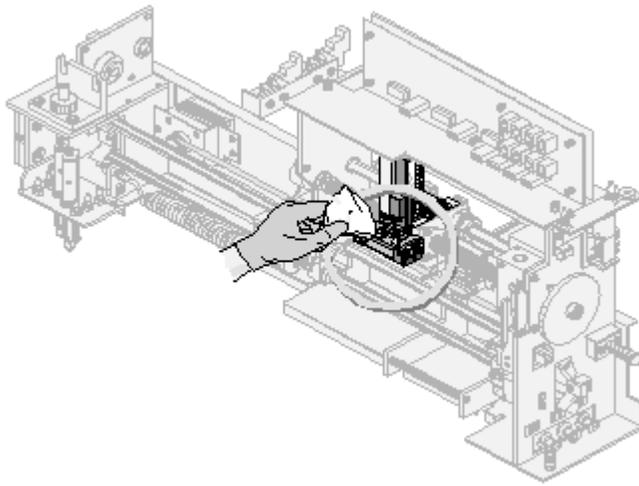
2. Remove all slide cassettes from the input and output queues.



- a. If necessary, press  to turn off the SlideMaker and release the current slide cassette.
- b. Move the cassette backward and up from the output queue.
- c. If necessary, check the cassette to make sure the slides inside it are not stuck together.
- d. If a slide is jammed inside the shuttle area, remove and dispose of the slide.
- e. Check the last slide cassette from the output queue and remove any jammed slides.



3. Remove slides, including jammed slides and debris, from shuttle, truck and pawls.
4. Manually move the truck by gently turning its gear on the right side of the instrument . Make sure to move the truck all the way along its path.



5. If you suspect a vacuum problem, debris may exist on the truck or on the slide. Use a lint-free tissue to wipe the truck and remove any debris.

## 7.3 SLIDE BASKET/CASSETTE

### Advancing A Slide Basket

#### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the **MAIN MENU** screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **ADVANCE BASKET**.

The SlideMaker advances a slide basket one basket position. The SlideMaker status line displays *ADVANCING BASKET* during operation, then *READY*.

**Note:** Once a basket has advanced to the slide loading position, do not manually remove it from this position. You can advance the basket, if necessary, but do not manually remove a basket from the slide loading position.

5. Press **EXIT** to return to the **MAIN MENU** screen.
6. Press **RUN MODE** to return to the **RUN MODE** screen.

### Unlocking A Slide Cassette

#### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the **MAIN MENU** screen.

3. Press **ROUTINE FUNCTIONS**.
4. Press **UNLOCK CASSETTE**.

The SlideMaker status line displays *UNLOCKING CASSETTE* while it releases the cassette or as it releases the cassette.

When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.

5. Press **EXIT** until you reach the **MAIN MENU** screen.
6. Press **RUN MODE** to return to the **RUN MODE** screen.

## 7.4 LABEL PRINTING

### Testing Label Printing

#### Procedure

1. Press **EXIT** until you reach the **MAIN MENU** screen.
2. Press **SPECIAL CYCLES**.
3. Press **PRINT LABEL**.



The SlideMaker status line displays *PRINTING LABEL* while the SlideMaker testing label is printing.

The SlideMaker prints test data on labels, applies the labels to slides and deposits the slides in slide baskets.

When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.

4. Press **EXIT** until you reach the **MAIN MENU** screen.
5. Press **RUN MODE** to return to the **RUN MODE** screen.

### Saving Printer Label Intensity As Default

#### Procedure

1. Ensure:

- SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
  3. Press **ROUTINE FUNCTIONS**.
  4. Press **PRINTER LABEL FUNCTIONS**.
  5. Specify the label intensity you want:

<b>Press This</b>	<b>To</b>
<b>DECREMENT INTENSITY</b>	Decrease the label intensity (make lighter). The minimum value is 1. After the value reaches 1, the label intensity jumps back to the maximum (32).
<b>INCREMENT INTENSITY</b>	Increase the label intensity (make darker). The maximum value is 32. After the value reaches 32, the label intensity jumps back to the minimum (1).
<b>SAVE PRINTER LABEL INTENSITY</b>	Save the intensity selection.

The SlideMaker uses the saved value as the new default for printer label intensity.

6. Press **EXIT** until you reach the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

## Rebooting The Slidemaker Printer

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **SPECIAL FUNCTIONS**.
4. Press **REBOOT PRINTER**.

The SlideMaker status line displays *REBOOTING PRINTER* while it reinitializes the Printer.

When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.

5. Press **EXIT** until you reach the MAIN MENU screen.
6. Press **RUN MODE** to return to the RUN MODE screen.

## Decreasing Slidemaker Printer Label Intensity

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.

2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **PRINTER LABEL FUNCTIONS**.
5. Press **DECREMENT INTENSITY** once for each level you want to decrease the label intensity (make lighter).

The minimum value is one. After the value reaches one, the label intensity jumps back to the maximum of 32.

The SlideMaker uses this printer label intensity until it is restarted. If you want to save this printer label intensity as the new default, press **SAVE PRINTER LABEL INTENSITY**.

6. Press **EXIT** until you reach the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

### **Increasing Slidemaker Printer Label Intensity**

#### **Procedure**

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **PRINTER LABEL FUNCTIONS**.
5. Press **INCREMENT INTENSITY** once for each level you want to increase the label intensity (make darker).

The minimum value is 1. After the value reaches 32, the label intensity jumps back to the minimum of 1.

The SlideMaker uses this printer label intensity until it is restarted. If you want to save this printer label intensity as the new default, press **SAVE PRINTER LABEL INTENSITY**.

6. Press **EXIT** until you reach the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

## **7.5 REAGENTS AND REAGENT RESERVOIRS**

### **Draining The Slidemaker**

#### **Procedure**

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **ROUTINE FUNCTIONS**.

4. Press **ROUTINE FLUIDICS**.

---

**CAUTION** Risk of contamination. Do not operate the Instrument if the waste level sensor is disconnected and waste is being dropped into the waste container. The waste container contains biohazardous material. Handle with care and avoid skin contact.

---

5. Press **DRAIN SYSTEM**. The SlideMaker status line displays *DRAINING SYSTEM* while the SlideMaker:
  - Drains its waste chamber into the GEN•S System waste container.
  - Lowers its dispense probe into the rinse cup.
  - Drains the diluent reservoir.
  - Dries the aspiration line.When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.
6. Press **EXIT** until you reach the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

## Rinsing The Slidemaker Vacuum Accumulator

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **ROUTINE FLUIDICS**.
5. Press **RINSE VACUUM ACCUMULATOR**. The SlideMaker status line displays *RINSING VACUUM ACCUMULATOR* while the SlideMaker drains the vacuum accumulator into the GEN•S waste container and rinses the vacuum accumulator.  
When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.
6. Press **EXIT** until you reach the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

## Priming/backwashing Slidemaker

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **ROUTINE FUNCTIONS**.

4. Press **ROUTINE FLUIDICS**.
5. Press **PRIME SYSTEM**.  
The SlideMaker status line displays *BACKWASHING* while the SlideMaker backwashes the sample lines and rinses the rinse trough.  
When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.
6. Press **EXIT** until you reach the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

## Priming Reagent Reservoirs

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **ROUTINE FLUIDICS**.
5. Press **PRIME REAGENT RESERVOIRS**.  
The SlideMaker status line displays *PRIMING REAGENT RESERVOIRS* while the SlideMaker:
  - Drains waste from SlideMaker waste chamber into GEN•S System waste container.
  - Fills the SlideMaker diluent reservoirs.When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.
6. Press **EXIT** until you reach the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

## 7.6 HARDWARE

### Checking Pneumatic/power Supplies

#### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **ROUTINE FUNCTIONS**.
4. Press **PNEUMATIC/POWER SUPPLIES**.

SlideMaker displays the pneumatic supply levels and the electrical power supply voltages along with the acceptable ranges.

If the pneumatic supply levels are outside the acceptable ranges, adjust the regulators as indicated below:

<b>For This</b>	<b>Use This</b>
5 PSI	5 psi adjustment regulator on the right side of the SlideMaker.
30 PSI	30 psi adjustment control on the GEN•S System Power Supply.
RAW VAC	The RAW VAC comes from the GEN•S System Power Supply. It can only be adjusted by your Coulter Representative.
REG VAC1 (17.5 Hg)	VAC1 regulator on the left side of the SlideMaker.
REG VAC2 (6.5 Hg)	VAC2 regulator on the left side of the SlideMaker.

If the power supply voltages are outside their acceptable ranges, contact your Coulter Representative.

5. Press **EXIT** until you reach the MAIN MENU screen.
6. Press **RUN MODE** to return to the RUN MODE screen.

## Testing The Slidemaker Keypad

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **SPECIAL FUNCTIONS**.
4. Press **KEYPAD TEST**.
5. Press a key on the keypad. A row of # symbols appears on the screen, indicating which key was pressed. Repeat as needed for other keys.  
If a key fails to function properly, call your Coulter Representative.
6. Press any key three times to exit to the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

## Testing The Slidemaker Display

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **SPECIAL FUNCTIONS**.

4. Press **DISPLAY TEST** and watch as the SlideMaker tests the screen by flashing off and on in a checkerboard pattern. A diagonal line flashes, followed by characters that fill the screen, then each element of the screen turns on and off.
5. Press **EXIT** until you reach the MAIN MENU screen.
6. Press **RUN MODE** to return to the RUN MODE screen.

## Testing The Slidemaker Dryer And Heater

### Procedure

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **SPECIAL FUNCTIONS**.
4. Press **DRYER FUNCTION TEST**.
5. Select the function you want to test:

<b>Press This</b>	<b>To</b>
<b>DRYER MOTOR ON</b>	Turn on the SlideMaker dryer motor. Verify that the belt is moving. The SlideMaker status line displays <i>DRYER MOTOR ON</i> . If the dryer motor fails to turn on, check for a jam in the dryer area.
<b>DRYER MOTOR OFF</b>	Turn off the SlideMaker dryer motor. Verify that the belt stops moving. The SlideMaker status line displays <i>DRYER MOTOR OFF</i> . If the dryer motor fails to turn off, turn the SlideMaker off and call your Coulter Representative.
<b>HEATER ON</b>	Turn on the SlideMaker heater. The SlideMaker status line displays <i>HEATER ON</i> . Check the Dryer Temperature screen to verify heater temperatures. If the heater fails to turn on, turn the SlideMaker off and call your Coulter Representative.
<b>HEATER OFF</b>	Turn off the SlideMaker heater. The SlideMaker status line displays <i>HEATER OFF</i> . Check the Dryer Temperature screen to verify heater temperatures. If the heater fails to turn off, turn the SlideMaker off and call your Coulter Representative.

6. Press **EXIT** until you reach the MAIN MENU screen.
7. Press **RUN MODE** to return to the RUN MODE screen.

## 7.7 SOFTWARE

### Viewing Slidemaker Settings

#### Procedure

1. Ensure:
  - SlideMaker is either making or ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** to access the MAIN MENU screen.

3. Press **ROUTINE FUNCTIONS**.
4. Press **SYSTEM SETTINGS**. The SYSTEM SETTINGS screen appears as follows.

Gen•S		SYSTEM SETTINGS	
SOFTWARE A VERSION	*****		
SOFTWARE B VERSION	*****		
TABLE A VERSION	*****		
TABLE B VERSION	*****		
PRINTER REVISION	*****		
SLIDE COUNTER	*****		
CYCLE COUNTER	*****		
UNIT SERIAL NUMBER	*****		
			EXIT

- SlideMaker software version for each microprocessor
  - SlideMaker table versions for fluidics and screen display
  - SlideMaker printer revision
  - Slide counter - initialized to one, increments by one for each slide prepared; cannot be reset
  - Cycle counter - initialized to one, increments by one each blood that is aspirated; cannot be reset
  - Unit serial number - from Workstation
5. Press **EXIT** until you reach the MAIN MENU screen.
  6. Press **RUN MODE** to return to the RUN MODE screen.

## Viewing Slidemaker Errors On The Slidemaker

### Procedure

**Note:** The SlideMaker stores the last 10 messages in a log on the SlideMaker. The SlideMaker also sends all SlideMaker messages to the Workstation. The Workstation stores the messages in the SlideMaker history log.

1. Ensure:
  - SlideMaker is either making or ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **VIEW ERROR** on the RUN MODE screen.
  - The screen title changes to ERROR DISPLAY and the SlideMaker status line displays the last SlideMaker error message that occurred.
3. Use   to view the next/previous message.

If you need more information, select the message in the Message List.
4. Press **EXIT** to return to the RUN MODE screen.

## Resetting Subsystem

### Procedure

If you encounter a problem while running the GEN•S System, you may need to reset the system to establish a safe condition. If you reset the GEN•S System while the SlideMaker is running, both instruments will be reset. If the problem you encounter concerns only the SlideMaker, you can follow this procedure to reset it separately.

1. Ensure:
  - SlideMaker is ready to make smears.
  - GEN•S System is either processing or ready to process samples.
2. Press **EXIT** until you reach the MAIN MENU screen.
3. Press **SPECIAL FUNCTIONS**.
4. Press **RESET SUBSYSTEM**.

The SlideMaker status line displays *RESETTING SUBSYSTEM* while the SlideMaker:

  - Checks for correct vacuum and pressure levels.
  - Checks sensor status.
  - Exercises Shuttle path and moves the Shuttle to the smear position.
  - Moves the Smear Truck to its proper position.
  - Ensures an empty slot exists in the slide basket.
  - Initializes the SlideMaker printer (if necessary).
  - Ejects any slides on the Shuttle onto the Dryer.
  - Drains SlideMaker waste chamber into the GEN•S waste container.
  - Fills SlideMaker diluent reservoirs.
  - Rinses and dries sample pathways and checks fluid detector operation.

When the SlideMaker completes this processing, *READY* appears on the SlideMaker status line.
5. Press **EXIT** until you reach the MAIN MENU screen.
6. Press **RUN MODE** to return to the RUN MODE screen.

## 7.8 TABLES OF SLIDEMAKER MESSAGES

Table 7.1 Miscellaneous System Messages

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
N/A	No	SlideMaker Log <i>SlideMaker Communication Problem</i>	No	N/A	Ready	<ul style="list-style-type: none"> <li>The SlideMaker is off.</li> <li>The SlideMaker is disconnected.</li> </ul>	<ol style="list-style-type: none"> <li>Verify the SlideMaker is connected and on.</li> <li>Reset the SlideMaker.</li> <li>If the message persists, call your Coulter Representative.</li> </ol>	
N/A	No	Event Log <i>SlideMaker Did Not Respond. RESET SlideMaker. Verify Connections.</i>			N/A	<ul style="list-style-type: none"> <li>The SlideMaker is off.</li> <li>The SlideMaker is disconnected.</li> </ul>	<ol style="list-style-type: none"> <li>Verify the SlideMaker is connected and on.</li> <li>Reset the SlideMaker.</li> <li>If the message persists, call your Coulter Representative.</li> </ol>	
N/A	No	SlideMaker Log <i>SlideMaker Download Successful.</i>	No	N/A	Ready	N/A	N/A	
N/A	No	Event Log <i>SlideMaker Download Unsuccessful. Turn Off/on SlideMaker, Then Re-initiate Download.</i>		If AutoStop is OFF 	If AutoStop is ON 	N/A	Download initiated by customer failed.	<ol style="list-style-type: none"> <li>Turn the SlideMaker off and then on.</li> <li>Reinitiate the download.</li> <li>If the message persists, call your Coulter Representative.</li> </ol>
N/A	No	Event Log <i>SlideMaker Needs To Download The New Software. Please Start Download Procedure From The SlideMaker Setup Screen.</i>		If AutoStop is OFF 	If AutoStop is ON 	Ready	Revision level mismatch.	Initiate download.
N/A	N/A	SlideMaker Log <i>Unknown Error Code Received From SlideMaker: &lt;Error Code&gt;.</i>	N/A		No known problems identified, so continues operation.	Workstation received an unknown error code from the SlideMaker	<p>If the message persists:</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn the SlideMaker off and then on.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <b>Note:</b> You may not be able to retrieve all the slides. If the dryer belts had stopped motion, review the slides that were within the dryer area as they may have excessive heat damage.</li> <li>Call your Coulter Representative.</li> </ol>	

**Table 7.1 Miscellaneous System Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY		
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action
AUTO SLIDE	No	SlideMaker Log SlideMaker Automatically Made A Slide Using Default Parameters.			SlideMaker automatically created a slide using default parameters.	<ul style="list-style-type: none"> <li>Analytical Station performed an Auto Clear cycle.</li> <li>Delay in the Workstation.</li> </ul>	No action necessary.
BUSY	No	N/A SlideMaker Is BUSY.	No	N/A	<ul style="list-style-type: none"> <li>SlideMaker is running a sample.</li> <li>SlideMaker is in the Service mode.</li> </ul>	<ul style="list-style-type: none"> <li>SlideMaker is running a sample.</li> <li>SlideMaker is in the Service mode.</li> </ul>	No action necessary
MAIN COVER OPEN (SENSOR 53)	Yes if busy No if idle	SlideMaker Log SlideMaker Main Cover Open (Sensor 53). Please Close The Cover And Press The RESET Button.		If AutoStop is OFF  If AutoStop is ON 	<p>If in the Service mode, the SlideMaker continues operating normally.</p> <p>If in the Normal mode:</p> <ol style="list-style-type: none"> <li>Any servo operation in progress continues.</li> <li>The Label Printer continues (if operating).</li> <li>Any sample already aspirated is processed until its smear is dried and deposited in a slide basket. Two slides may be completed before the SlideMaker stops.</li> <li>No new samples are aspirated.</li> <li>If the Printer is out of labels or ribbon, CL4 is retracted, releasing the printhead, so you can insert the new label or ribbon roll.</li> </ol> <p><b>Note:</b> The printhead is closed again when, with the cover closed, you reset the SlideMaker.</p>	<ol style="list-style-type: none"> <li>Operator opened the main cover.</li> <li>Main cover interlock (SEN53) is obstructed or defective.</li> </ol>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>If the cover appears closed, open the cover and close it again.</li> <li>Reset the SlideMaker to resume normal operation.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Ensure SEN53 is unobstructed.</li> <li>Close the cover and reset the SlideMaker.</li> </ol> </li> <li>If the message still persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <b>Note:</b> You may not be able to retrieve all the slides.</li> <li>Close the cover and call your Coulter Representative.</li> </ol>
NOT READY	No	N/A SlideMaker Is NOT READY Or Not Enabled.	No	N/A	<ul style="list-style-type: none"> <li>SlideMaker is not enabled for making slides.</li> <li>SlideMaker is waiting to initialize.</li> </ul>	<ul style="list-style-type: none"> <li>SlideMaker is not enabled for making slides.</li> <li>SlideMaker is waiting to initialize.</li> </ul>	<ol style="list-style-type: none"> <li>If the SlideMaker is waiting to initialize, wait until initialization has completed.</li> <li>If the Slide Maker is not enabled for making slides, enable the SlideMaker at the Workstation. Refer to the Online Help procedure, Ensuring the SlideMaker Is Enabled.s</li> </ol>
READY	No	N/A SlideMaker Is READY.	No	N/A	Ready	N/A	No action necessary.

Table 7.1 Miscellaneous System Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY		
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action
WARNING RESET PRESSED	Yes	Reset button pressed	N/A	N/A	<ol style="list-style-type: none"> <li>The reset request is held pending until the end of the current cycle or until 120 seconds have elapsed since the last aspiration. During the pending state the reset request message is displayed and the reset light is lit.</li> <li>When the reset command is executed, the message is removed and the reset light goes out.</li> </ol>	Operator pressed reset button.	No action necessary.

**Table 7.2 Basket Error Messages**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>BASKET (ALL BASKETS FULL)</i>	Yes	SlideMaker Log <i>SlideMaker: No Empty Basket Available.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The Dryer module continues to operate until a slide is ready to exit from the module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p>After a slide is deposited in a slide basket, the slide baskets are advanced to prepare for the next slide. Not detecting an open position after testing <b>all</b> the basket positions could indicate:</p> <ul style="list-style-type: none"> <li>All the slide baskets are full.</li> <li>The basket index sensor, SEN37, is not working correctly.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm</p> <ol style="list-style-type: none"> <li>If all the slide baskets are full, replace the full baskets with empty baskets.</li> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Inspect the area under the smear truck for a fallen slide and retrieve if possible.</li> <li>Close the cover and call your Coulter Representative</li> </ol>
<i>BASKET (CORNERS FULL)</i>	Yes	SlideMaker Log <i>SlideMaker Basket Track Full.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The Dryer module continues to operate until a slide is ready to exit from the module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p><b>Note:</b> This condition can also generate a <i>SlideMaker: Transfer Of Basket Between Belts Not Possible</i> error at the Workstation.</p> <ul style="list-style-type: none"> <li>Each of the four corners of the Basket Queue module has a slide basket so a slide basket cannot be transferred from one track to the other.</li> <li>Only one track is moving and the end of that track has a slide basket.</li> <li>One of these basket or belt position sensors is blocked: <ul style="list-style-type: none"> <li>Rear belt position, SEN31</li> <li>Front belt position, SEN32</li> <li>Basket present rear right, SEN33</li> <li>Basket present front right, SEN34</li> <li>Basket present rear left, SEN35</li> <li>Basket present front left, SEN36</li> </ul> </li> <li>SEN31, SEN32, SEN33, SEN34, SEN35 or SEN36 failed, indicating a corner has a slide basket when it does not.</li> <li>The track belts are misaligned; a basket is not actually at the corner.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm</p> <ol style="list-style-type: none"> <li>If all four corners are occupied, or if the slide basket position at the end of a track is occupied, remove the filled slide baskets.</li> <li>If the corners of the Basket Queue module are not occupied: <ol style="list-style-type: none"> <li>Wait until the dryer belts stop moving.</li> <li>Reset the SlideMaker. <p><b>Note:</b> Depending on how long the dryer was off, there may be a delay before the dryer reaches full temperature and completely dries the slides.</p> </li> </ol> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>

Table 7.2 Basket Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>BASKET (CORNERS FULL)</i>	Yes	SlideMaker Log <i>SlideMaker: Transfer Of Basket Between Belts Not Possible.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The Dryer module continues to operate until a slide is ready to exit from the module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p><b>Note:</b> This condition can also generate a <i>SlideMaker Basket Track Full.</i> error at the Workstation.</p> <ul style="list-style-type: none"> <li>Each of the four corners of the Basket Queue module has a slide basket so a slide basket cannot be transferred from one track to the other.</li> <li>One of these basket or belt position sensors is blocked: <ul style="list-style-type: none"> <li>Rear belt position, SEN31</li> <li>Front belt position, SEN32</li> <li>Basket present rear right, SEN33</li> <li>Basket present front right, SEN34</li> <li>Basket present rear left, SEN35</li> <li>Basket present front left, SEN36</li> </ul> </li> <li>SEN31, SEN32, SEN33, SEN34, SEN35 or SEN36 failed, indicating a corner has a slide basket when it does not.</li> <li>The track belts are misaligned; a basket is not actually at the corner.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm</p> <ol style="list-style-type: none"> <li>If all four corners of the Basket Queue module are occupied, remove the filled slide baskets.</li> <li>If the corners of the Basket Queue module are not occupied: <ol style="list-style-type: none"> <li>Wait until the dryer belts stop moving.</li> <li>Reset the SlideMaker. <p><b>Note:</b> Depending on how long the dryer was off, there may be a delay before the dryer reaches full temperature and completely dries the slides.</p> </li> </ol> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>
<i>BASKET (MOVE POSITION)</i>	Yes	SlideMaker Log <i>SlideMaker Basket Move Position Failure.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The Dryer module continues to operate until a slide is ready to exit from the module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p>The slide basket did not reach the desired position after the number of steps required. This could indicate:</p> <ul style="list-style-type: none"> <li>The slide basket is jammed.</li> <li>The rear belt position, SEN31, or the front belt position, SEN32, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm</p> <ol style="list-style-type: none"> <li>Remove the jammed slide basket.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and inspect the area under the smear truck for a fallen slide and retrieve if possible.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.2 Basket Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>BASKET (MOVE TIMEOUT)</i>	Yes	SlideMaker Log <i>SlideMaker Basket Move Timeout.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The Dryer module continues to operate until a slide is ready to exit from the module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p>The slide basket exceeded the maximum time allotted to finish its motion. This could indicate:</p> <ul style="list-style-type: none"> <li>An obstruction in the Basket Queue module.</li> <li>Stepper motor MF3 or MF4 failed.</li> <li>One of these basket or belt position sensors failed. <ul style="list-style-type: none"> <li>Rear belt position, SEN31</li> <li>Front belt position, SEN32</li> <li>Basket present rear right, SEN33</li> <li>Basket present front right, SEN34</li> <li>Basket present rear left, SEN35</li> <li>Basket present front left, SEN36</li> </ul> </li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm</p> <ol style="list-style-type: none"> <li>Inspect both tracks in the Basket Queue module for obstructions.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and inspect the area under the smear truck for a fallen slide and retrieve if possible.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>
<i>BASKET (TRACK JAM)</i>	Yes	SlideMaker Log <i>SlideMaker Basket Transfer Timeout.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The Dryer module continues to operate until a slide is ready to exit from the module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<ul style="list-style-type: none"> <li>A jam prevented completion of the slide basket transfer.</li> <li>When you turned the SlideMaker on, a basket was in a corner but not at a belt position sensor.</li> <li>One of the sensors monitoring the extension and retraction of the cylinder that transfers the slide baskets from one track to the other is blocked. <p>Extension is detected by the corner sensor opposite the slide basket. The corner sensors are:</p> <ul style="list-style-type: none"> <li>Basket present rear right, SEN33</li> <li>Basket present front right, SEN34</li> <li>Basket present rear left, SEN35</li> <li>Basket present front left, SEN36</li> </ul> <p>Retraction is detected by sensors on the cylinders:</p> <ul style="list-style-type: none"> <li>Left crossover home, SEN39</li> <li>Right crossover home, SEN40</li> </ul> </li> <li>SEN33, SEN34, SEN35, SEN36, SEN39, or SEN40 failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm</p> <ol style="list-style-type: none"> <li>Wait until the dryer belts stop moving.</li> <li>Remove any jammed slide baskets.</li> <li>Reset the SlideMaker. <p><b>Note:</b> Depending on how long the dryer was off, there may be a delay before the dryer reaches full temperature and completely dries the slides.</p> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>

Table 7.2 Basket Error Messages (Continued)

SLIDEMAKER		WORKSTATION	RECOVERY		
View Error Screen Message	Alarm	Log Message and Icons on Command Center	SlideMaker Status	Probable Cause	Corrective Action
BASKET COVER OPEN (SENSOR 54)	No	SlideMaker Log SlideMaker Basket Cover Open (Sensor 54). Close Cover And Press RESET Button To Resume.  	If in the Service mode, the SlideMaker continues operating normally. If in the Normal mode: <ul style="list-style-type: none"> <li>The Basket Queue module continues operating, but at a slow speed.</li> <li>All other operations continue normally.</li> </ul>	<ol style="list-style-type: none"> <li>Operator opened the basket cover or left the basket cover open.</li> <li>Basket cover interlock (SEN54) is obstructed or malfunctioning.</li> </ol>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>If the cover appears closed, open the cover and close it again.</li> <li>Reset the SlideMaker to resume normal operation.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Ensure SEN54 is unobstructed.</li> <li>Close the cover.</li> </ol> </li> <li>If the message still persists, call your Coulter Representative.</li> </ol>

**Table 7.3 Cassette Error Messages**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>CASSETTE (CYLINDER SENSORS)</i>	Yes	SlideMaker Log <i>SlideMaker Cassette Output Queue Is Obstructed Or Sensor Failed.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The sensors for the output cassette transfer mechanism (the mechanism that advances the slide cassettes in the Cassette Output Queue module) indicate that the cylinder is both extended and retracted at the same time because:</p> <ul style="list-style-type: none"> <li>The output cassette retracted sensor, SEN15, or the output cassette extended sensor, SEN16, is blocked.</li> <li>SEN15 or SEN16 failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>Remove all the slide cassettes from the Cassette Input Queue and Cassette Output Queue modules.</li> <li>Manually push the output cassette transfer mechanism back to the retracted position.</li> <li>Put a full slide cassette in the Cassette Input Queue module.</li> <li>Turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>CASSETTE (EXTEND TIMEOUT)</i>	Yes	SlideMaker Log <i>SlideMaker Cassette Transfer To Output Queue Timeout.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The upper cassette transfer mechanism (the mechanism that advances the empty cassette from the Cassette Input Queue module to the Cassette Output Queue module) did not extend within the allowable time, or the sensor did not detect its extension because:</p> <ul style="list-style-type: none"> <li>The upper cassette transfer mechanism is jammed.</li> <li>The cylinder, CL9, failed.</li> <li>The cassette transit sensor, SEN30, is blocked or failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>Remove all the slide cassettes from the Cassette Input Queue and Cassette Output Queue modules.</li> <li>Manually push the upper cassette transfer mechanism back to the retracted position.</li> <li>Put a full slide cassette in the Cassette Input Queue module.</li> <li>Turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>CASSETTE (LOCK SENSOR)</i>	Yes	SlideMaker Log <i>SlideMaker Cassette Lock Sensor Failure.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The cassette locked sensor, SEN21, and cassette unlocked sensor, SEN22, indicate that the cassette is both locked and unlocked at the same time because:</p> <ul style="list-style-type: none"> <li>SEN21 or SEN22 failed.</li> <li>SEN21 or SEN22 is blocked (not a likely cause).</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>Remove and reinstall the slide cassette that is in the slide ejector station.</li> <li>Turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.3 Cassette Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
CASSETTE (LOCKED, SENSOR 21)	Yes	SlideMaker Log SlideMaker Cassette Locked (Sensor 21). 1		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>A timeout occurred in attempting to unlock the slide cassette at the slide ejection station. A locked empty slide cassette cannot be transferred to the Cassette Output Queue module.</p> <ul style="list-style-type: none"> <li>The locking mechanism did not unlock the slide cassette.</li> <li>The cassette locked sensor, SEN21, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>Remove and reinstall the slide cassette that is in the slide ejector station.</li> <li>Turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
CASSETTE (NO CASSETTE)	Yes	SlideMaker Log If No Cassette Is Present In The Input Queue Then Add Loaded Cassette.				<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<ul style="list-style-type: none"> <li>No slide cassette is available at the Cassette Input Queue module.</li> <li>The cassette present sensor, SEN26, indicates no slide cassette is present, but a slide cassette is present.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>If the Cassette Input Queue module is empty: <ol style="list-style-type: none"> <li>Place a full slide cassette in the Cassette Input Queue module.</li> <li>Reset the SlideMaker.</li> </ol> </li> <li>If a full slide cassette is in the Cassette Input Queue module: <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>At the MAIN MENU, select <b>ROUTINE FUNCTIONS » UNLOCK CASSETTE</b> to unlock the cassette.</li> <li>Remove and reinstall the slide cassette that is in the slide ejector station.</li> <li>Reset the SlideMaker.</li> </ol> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.:</li> </ol> </li> </ol>
CASSETTE (NOT LOCKED, SENSOR 22)	Yes	SlideMaker Log SlideMaker Cassette Not Locked (Sensor 22).		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>A timeout occurred in attempting to lock a slide cassette in place for drawing slides. Slide cannot be ejected from an unlocked slide cassette.</p> <ul style="list-style-type: none"> <li>The locking mechanism did not lock the slide cassette in place.</li> <li>The cassette unlocked sensor, SEN22, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>Remove and reinstall the slide cassette that is in the slide ejector station.</li> <li>Turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.3 Cassette Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>CASSETTE (OUTPUT QUEUE FULL)</i>	Yes	SlideMaker Log <i>SlideMaker Cassette Output Queue Full.</i>			<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The output cassette transfer mechanism (the mechanism that advances the slide cassettes in the Cassette Output Queue module) did not advance to its retracted state, or the sensor did not detect its advancement, because:</p> <ul style="list-style-type: none"> <li>The Cassette Output Queue module is full.</li> <li>The cylinder, CL7, failed.</li> <li>The output cassette retracted sensor, SEN15, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>If the Cassette Output Queue module is full: <ol style="list-style-type: none"> <li>Remove the empty slide cassettes.</li> <li>Reset the SlideMaker to resume normal operation.</li> </ol> </li> <li>If the Cassette Output Queue module is not full: <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Reset the SlideMaker.</li> </ol> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	
<i>CASSETTE (RETRACT TIMEOUT)</i>	Yes	SlideMaker Log <i>SlideMaker Cassette Transfer Retract Timeout.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The upper cassette transfer mechanism (the mechanism that advances the empty cassette from the Cassette Input Queue module to the Cassette Output Queue module) did not retract within the allowable time, or the sensor did not detect its retraction because:</p> <ul style="list-style-type: none"> <li>The upper cassette transfer mechanism is jammed.</li> <li>The cylinder, CL9, failed.</li> <li>The cassette transfer home sensor, SEN8, is blocked or failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>Remove all the slide cassettes from the Cassette Input Queue and Cassette Output Queue modules.</li> <li>Manually push the upper cassette transfer mechanism back to the retracted position.</li> <li>Put a full slide cassette in the Cassette Input Queue module.</li> <li>Turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>CASSETTE (TRANSFER SENSORS)</i>	Yes	SlideMaker Log <i>SlideMaker Cassette Transfer Sensor Failure.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The sensors associated with the upper cassette transfer mechanism (the mechanism that advances the empty cassette from the Cassette Input Queue module to the Cassette Output Queue module) indicate that the mechanism is extended and retracted at the same time because:</p> <ul style="list-style-type: none"> <li>The cassette transfer home sensor, SEN8, or the cassette transit sensor, SEN30, is blocked.</li> <li>SEN8 or SEN30 failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>Remove all the slide cassettes from the Cassette Input Queue and Cassette Output Queue modules.</li> <li>Manually push the upper cassette transfer mechanism back to the retracted position.</li> <li>Put a full slide cassette in the Cassette Input Queue module.</li> <li>Turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.3 Cassette Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
CASSETTE (TRANSFER TIMEOUT)	Yes	SlideMaker Log SlideMaker Cassette Output Queue Cylinder Did Not Retract On Time.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The cylinder in the output cassette transfer mechanism (the mechanism that advances the slide cassettes in the Cassette Output Queue module) did not extend in time, or the sensor did not detect its extension, because:</p> <ul style="list-style-type: none"> <li>The cylinder, CL7, failed.</li> <li>The output cassette extended sensor, SEN16, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>Remove all the slide cassettes from the Cassette Input Queue and Cassette Output Queue modules.</li> <li>Manually push the output cassette transfer mechanism back to the retracted position.</li> <li>Put a full slide cassette in the Cassette Input Queue module.</li> <li>Turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.4 Communication Error Messages**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>COMMUNICATION (ANALYZER BUSY)</i>	Yes	SlideMaker Log <i>SlideMaker Reports Analytical Station Not Ready.</i>			1. The SlideMaker waits until the Analytical Station is idle to retry the operation. 2. Completed smears are dried and deposited in a slide basket, except if a reset was requested.	The operator requested an operation requiring the Analytical Station to be in the <i>READY</i> state, while the Analytical Station was not ready. Such requests include reset, shutdown, and startup.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Wait until the requested operation is completed and the Analyzer and SlideMaker screens display <i>READY</i> . 2. Press <b>START/CONT</b> to restart the GEN•S System. 3. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.	
<i>COMMUNICATION (ANALYZER CRC)</i>	Yes	SlideMaker Log <i>SlideMaker To Analytical Station Communication Lost (CRC Check Failed).</i>		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. If this error occurred after a sample was ready to be dispensed onto the slide, a smear is made for that sample. 3. Any other sample in a reservoir is discarded. 4. Completed smears are dried and deposited in a slide basket.	Three consecutive messages from the SlideMaker to the Analytical Station were not acknowledged.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Check if the Analytical Station is working correctly. If necessary, reset the Analyzer. 2. If the message persists, wait until the last slide in the Dryer module is deposited in a slide basket, then reset the SlideMaker. 3. If the message still persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>COMMUNICATION (ANALYZER TIMEOUT)</i>	No	SlideMaker Log <i>SlideMaker To Analytical Station Communication Timeout.</i>		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. If this error occurred after a sample was ready to be dispensed onto the slide, a smear is made for that sample. 3. Any other sample in a reservoir is discarded. 4. Completed smears are dried and deposited in a slide basket.	No response from the Analytical Station.	1. Check the Analytical Station is working correctly. If necessary, reset the Analyzer. 2. If the message persists, wait until the last slide in the Dryer module is deposited in a slide basket, then reset the SlideMaker. 3. If the message still persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>COMMUNICATION (FLASH MEMORY)</i>	Yes	SlideMaker Log <i>SlideMaker FLASH MEMORY Communication Failure. FATAL ERROR.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops. A fatal error occurred during: • Download from the Workstation. The flash memory has unknown or unreliable information. • Service mode changes to the flash memory contents.	Erase error, write error or verify memory error when placing parameters in the flash memory.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Turn off the SlideMaker. 2. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. <b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact. 3. Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <b>Note:</b> You may not be able to retrieve all the slides. 4. Close the cover and call your Coulter Representative.

Table 7.4 Communication Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>COMMUNICATION (ID MISMATCH)</i>	No	SlideMaker Log <i>SlideMaker Sample ID Mismatch. Sample Discarded &lt;Sample ID&gt;.</i>		If AutoStop is OFF 	If AutoStop is ON 	1. The sample which could not be matched with the correct ID is discarded. 2. The SlideMaker continues operating normally.	Sample ID from Analyzer does not match sample ID from Workstation.	1. Check the identification of the sample. 2. Rerun the specimen or prepare a slide manually.
<i>COMMUNICATION (PC CRC)</i>	Yes	N/A	No	N/A	1. The sample for which the communication error occurred is discarded. 2. No new samples are aspirated. 3. Completed smears are dried and deposited in a slide basket.	Three consecutive messages from the Workstation to the SlideMaker failed the CRC verification.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Check if the Workstation is working correctly. If necessary, shutdown and restart the Workstation. 2. If the message persists, wait until the last slide in the Dryer module is deposited in a slide basket, then reset the SlideMaker. 3. If the message still persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.	
<i>COMMUNICATION (PC TIMEOUT)</i>	Yes	SlideMaker Log <i>SlideMaker To Workstation Communication Timeout.</i>		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. Any sample in a reservoir is discarded. 3. Completed smears are dried and deposited in a slide basket.	1. No response from the Workstation. 2. Handshake signals absent when information is required.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Check if the Workstation is working correctly. If necessary, shutdown and restart the Workstation. 2. If the message persists, wait until the last slide in the Dryer module is deposited in a slide basket, then reset the SlideMaker. 3. If the message still persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>COMMUNICATION (PROC A/B)</i>	Yes	SlideMaker Log <i>SlideMaker Inter Processor Communication Failure. Reset The SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. If a sample was in a reservoir before this error occurred, a smear is made for that sample. 3. Completed smears are dried and deposited in a slide basket.	Unrecognizable or unexpected messages.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Wait until the last slide in the Dryer module is deposited in a slide basket. 2. Reset the SlideMaker. 3. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.

**Table 7.4 Communication Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>COMMUNICATION (RAM ERROR)</i>	Yes	SlideMaker Log <i>SlideMaker BATTERY BACKED RAM Failure. Turn Off/On SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	Failure in reading or writing the parameters to the battery-backed RAM.	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:             <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.                 <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.5 Dispense Error Messages

SLIDEMAKER		WORKSTATION			RECOVERY		
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action
<i>DISPENSE (INCOMPLETE ASPIRATION)</i>	Yes	SlideMaker Log <i>SlideMaker Incomplete Aspiration.</i>	 For the first two incomplete aspirations in a row. 	For the third incomplete aspiration in a row. 	The incomplete sample is discarded. If three consecutive incomplete aspirations occur: 1. No new samples are aspirated. 2. Completed smears are dried and deposited in a slide basket. 3. The SlideMaker stops and an error is sent to the Workstation.	Blood is not sensed by the correct fluid detector during aspiration because: <ul style="list-style-type: none"> <li>The blood is too viscous and did not reach the detector in time.</li> <li>The specimen tube has insufficient blood sample.</li> <li>The vacuum for advancing the blood is insufficient.</li> <li>The fluid detector failed.</li> <li>A solenoid failed.</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>If this message only appears for one sample, check the specimen condition and volume.</li> <li>If this message appears for three consecutive samples: <ol style="list-style-type: none"> <li>Ensure the last three specimen tubes had enough blood. (The SlideMaker needs 250 µL).</li> <li>If there is sufficient blood in the specimen tubes, clean the aspiration lines: <ol style="list-style-type: none"> <li>From the MAIN MENU, select <b>ROUTINE FUNCTIONS</b> &gt;&gt; <b>ROUTINE FLUIDICS</b> &gt;&gt; <b>RUN SHUT DOWN</b> to flush the lines with cleaning agent.</li> <li>From the MAIN MENU, select <b>ROUTINE FUNCTIONS</b> &gt;&gt; <b>ROUTINE FLUIDICS</b> &gt;&gt; <b>RUN START UP</b> to rinse the lines with diluent.</li> </ol> </li> </ol> </li> <li>Resume normal operation. If the message persists: <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>DISPENSE (PROBE NOT DOWN, SEN 12)</i>	Yes	SlideMaker Log <i>SlideMaker Dispense Probe Not Down (Sensor 12).</i>	 If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. Any sample in a reservoir is not processed. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	The dispense probe must be down to discard the front part of the blood, to deposit a drop on the slide, and to backwash. The dispense probe is not down at the correct times in the cycle, or the sensor does not detect the probe is down, because: <ul style="list-style-type: none"> <li>The dispense probe is stuck.</li> <li>The mechanism that pushes the dispense probe down is not receiving sufficient pressure.</li> <li>Probe down sensor, SEN12, failed.</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact. <ol style="list-style-type: none"> <li>If a slide is on the shuttle or has fallen, remove the slide.</li> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.5 Dispense Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>DISPENSE (PROBE NOT UP, SENSOR 11)</i>	Yes	SlideMaker Log <i>SlideMaker Dispense Probe Not Up (Sensor 11).</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The dispense probe must be up for the shuttle to bring a slide to the dispense position.</p> <p>The dispense probe is not up at the correct time in the cycle, or the sensor did not detect the probe is up, because:</p> <ul style="list-style-type: none"> <li>The dispense probe is stuck.</li> <li>The mechanism that lifts the dispense probe is not receiving sufficient pressure.</li> <li>The probe up sensor, SEN11, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>If a slide is on the shuttle or has fallen, remove the slide.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>DISPENSE (SENSORS)</i>	Yes	SlideMaker Log <i>SlideMaker Dispense Probe Sensor Failure.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The probe up sensor, SEN11, and the probe down sensor, SEN12, indicate the dispense probe is both up and down at the same time because:</p> <ul style="list-style-type: none"> <li>SEN11 or SEN12 is blocked.</li> <li>SEN11 or SEN12 failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker and open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>If a slide is on the shuttle or has fallen, remove the slide.</li> <li>Check the area below the smear truck for fallen slides and retrieve if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.6 Dryer Error Messages

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
DRYER (EXTEND, SENSOR 10)	Yes	SlideMaker Log SlideMaker Reports Slide Dryer Transfer Did Not Extend (Sensor 10).		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The slide pusher bars (the mechanism that transfers the slide from the shuttle to the Dryer module) did not extend to transfer the slide, or the sensor did not detect the extension. This could indicate:</p> <ul style="list-style-type: none"> <li>The slide pusher bars mechanism is jammed.</li> <li>The shuttle and the slide pusher bars are misaligned.</li> <li>The slide pusher bars mechanism is defective.</li> <li>The slide transfer extended sensor, SEN10, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>If a slide is on the shuttle or has fallen, remove the slide.</li> <li>Close the cover and reset the Slidemaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
DRYER (HIGH TEMPERATURE)	Yes	SlideMaker Log SlideMaker Dryer Temperature Too High.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>The dryer heater is turned off.</li> <li>Completed smears are deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<ul style="list-style-type: none"> <li>Error in one of these three temperature sensors and/or the servo loop: <ul style="list-style-type: none"> <li>Ambient temperature thermistor on the System card.</li> </ul> </li> <li>Heatsink temperature sensor in the heatsink assembly in the Dryer module. Hot air path temperature sensor on the Temperature Sensor card in the Dryer module. Short circuit in dryer controller</li> <li>A/D converter failure.</li> <li>Dryer module fan failure.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Remove the slides from the pusher bars area, Dryer module, and platen, and place the slides in a basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides. Review the slides that were within the dryer area as they may have excessive heat damage.</p> </li> <li>Close the cover and turn on the SlideMaker. <p><b>Note:</b> Depending on how long the dryer was off, there may be a delay before the dryer reaches full temperature and completely dries the slides.</p> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>

Table 7.6 Dryer Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>DRYER (LOW TEMPERATURE)</i>	No	SlideMaker Log <i>SlideMaker Dryer Temperature Too Low. Turn Off/On SlideMaker.</i>			Warning only. The SlideMaker continues operating normally. As each slide enters the Dryer module, the SlideMaker evaluates the dryer temperature and sends this warning if the temperature is low.	<ul style="list-style-type: none"> <li>Dryer heater failure; error in one of these three temperature sensors and/or the servo loop: <ul style="list-style-type: none"> <li>Ambient temperature thermistor on the System card.</li> </ul> </li> <li>Heatsink temperature sensor in the heatsink assembly in the Dryer module. Hot air path temperature sensor on the Temperature Sensor card in the Dryer module. Power supply failure or short circuit</li> <li>A/D converter failure.</li> <li>Fan failure</li> </ul>	<ol style="list-style-type: none"> <li>This is a warning. Check if the slides exiting the Dryer module are dry. If they are not, set the Slide Basket aside to dry before staining the slides.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	
<i>DRYER (NO SLIDE IN BASKET)</i>	Yes	SlideMaker Log <i>SlideMaker: Slide Fell From Platen.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The Dryer module continues to operate until a slide is ready to exit from the module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p>The gripper detected a slide when the slide exited the Dryer module, but neither the basket index sensor, SEN37, nor the vertical slide sensor, SEN41, detected a slide in the slide basket. This could indicate:</p> <ul style="list-style-type: none"> <li>The slide fell from the Slide Elevator module into the slide basket at an angle which did not interrupt the beam of the basket index sensor.</li> <li>The basket index sensor, SEN37, and the vertical slide sensor, SEN41, are misaligned.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Retrieve the slide that fell, and place it in a slide basket for staining.</li> <li>Open the cover and inspect the area under the smear truck for a fallen slide. Retrieve the slide if possible.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.6 Dryer Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
DRYER (PLATEN)	Yes	SlideMaker Log SlideMaker Platen: No Slide.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p>The slide was lost sometime between when the dryer exit sensor, SEN49, detected its trailing edge, and when the gripper overextended sensor, SEN46, detected it was not present on the platen.</p> <ul style="list-style-type: none"> <li>The slide did not fall on the platen.</li> <li>The gripper overextended sensor, SEN46, is blocked.</li> <li>The gripper overextended sensor, SEN46, failed.</li> </ul> <p><b>Note:</b> If SEN46 is blocked or defective, the slide could be stuck on the platen.</p>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm</p> <ol style="list-style-type: none"> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Remove the slides from the pusher bars area, Dryer module, and platen, and place the slides in a basket for staining. <b>Note:</b> You may not be able to retrieve all the slides.</li> <li>Check the gripper overextended sensor, SEN46, for blockage.</li> <li>If the platen is empty, check the area below the platen and in the rear track of the Basket Queue module for a fallen slide. Retrieve and place the fallen slide in a slide basket for staining.</li> <li>Close the cover and reset the SlideMaker. <b>Note:</b> Depending on how long the dryer was off, there may be a delay before the dryer reaches full temperature and completely dries the slides.</li> <li>If the message persists:             <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <b>Note:</b> You may not be able to retrieve all the slides.</li> <li>Close the cover and call your Coulter Representative.</li> </ol>

**Table 7.6 Dryer Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
DRYER (PLATEN SENSORS)	Yes	SlideMaker Log SlideMaker Elevator Sensors Failure.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p>The platen elevator up sensor, SEN44, or the platen elevator down sensor, SEN45, indicate that the elevator is both at its highpoint and at its low point at the same time because:</p> <ul style="list-style-type: none"> <li>SEN44 or SEN45 is blocked.</li> <li>SEN44 or SEN45 failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Check SEN44 and SEN45 for blockage.</li> <li>Remove the slides from the pusher bars area, Dryer module, and platen, and place the slides in a basket for staining. <b>Note:</b> You may not be able to retrieve all the slides.</li> <li>Close the cover and reset the SlideMaker. <b>Note:</b> Depending on how long the dryer was off, there may be a delay before the dryer reaches full temperature and completely dries the slides.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <b>Note:</b> You may not be able to retrieve all the slides.</li> <li>Close the cover and call your Coulter Representative.</li> </ol>

Table 7.6 Dryer Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>DRYER (PLATEN TIMEOUT)</i>	Yes	SlideMaker Log SlideMaker Elevator Platen Timeout.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed</li> <li>The last completed smear is transferred to the Dryer module.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p>The elevator should take a fixed number of steps go from the low point to the high point, or from the high point to the low point. Exceeding this number of steps (by a certain margin) could indicate:</p> <ul style="list-style-type: none"> <li>Interference in the elevator's path.</li> <li>The platen elevator up sensor, SEN44, or the platen elevator down sensor, SEN45, is blocked.</li> <li>SEN44 or SEN45 failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Open the cover and check the Slide Elevator module: <ol style="list-style-type: none"> <li>Check the platen and the elevator for jammed slides or any other interference in the elevator's path.</li> <li>Check the platen elevator up sensor, SEN44, and the platen elevator down sensor, SEN45, for blockage.</li> </ol> </li> <li>Remove the slides from the pusher bars area, Dryer module, and platen, and place the slides in a basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and reset the SlideMaker. <p><b>Note:</b> Depending on how long the dryer was off, there may be a delay before the dryer reaches full temperature and completely dries the slides.</p> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>
<i>DRYER (RETRACT, SENSOR 9)</i>	Yes	SlideMaker Log SlideMaker Slide Dryer Transfer Did Not Retract (Sensor 9).		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The slide pusher bars (the mechanism that transfers the slide from the shuttle to the Dryer module) did not retract after transferring the slide, or the sensor did not detect the retraction. This could indicate:</p> <ul style="list-style-type: none"> <li>The slide pusher bars mechanism is defective.</li> <li>The slide transfer retracted sensor, SEN9, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>If a slide is on the shuttle or has fallen, remove the slide.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.6 Dryer Error Messages (Continued)**

SLIDEMAKER		WORKSTATION		RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center		SlideMaker Status	Probable Cause	Corrective Action	
<i>DRYER (SENSORS)</i>	Yes	SlideMaker Log <i>SlideMaker Slide Transfer Sensors Obstructed Or Failed.</i>	 If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears within the Dryer module are dried and deposited in a slide basket.</li> <li>The slide on the shuttle may not have been transferred to the Dryer module.</li> <li>The SlideMaker stops.</li> </ol>	<p>The sensors indicate that the slide pusher bars are both retracted and extended at the same time because:</p> <ul style="list-style-type: none"> <li>The slide transfer retracted sensor, SEN9, or the slide transfer extended sensor, SEN10, is blocked.</li> <li>The slide transfer retracted sensor, SEN9, or the slide transfer extended sensor, SEN10, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>If a slide is on the shuttle or has fallen, remove the slide.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>DRYER (SLIDE LOST)</i>	Yes	SlideMaker Log <i>This Is A Warning Only. A Slide Entered The Dryer Area And Has Not Made It Out Of The Dryer.</i>	 		<p>Warning only. The SlideMaker continues operating normally.</p>	<ul style="list-style-type: none"> <li>The operator manually removed a slide from the dryer.</li> <li>The slide pusher bars did not transfer the slide from the shuttle to the dryer belts.</li> <li>The dryer motor is not operating correctly.</li> <li>The dryer exit sensor, SEN49, failed.</li> <li>One or both of the dryer conveyer belts broke and the slides fell somewhere within the Dryer module or between the shuttle and the Dryer module.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>If an operator manually removed a slide from the Dryer module, ignore this warning.</li> <li>If no-one manually removed a slide from the Dryer module: <ol style="list-style-type: none"> <li>Open the cover.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Ensure the dryer belts are moving.</li> <li>Check inside the dryer for fallen slides. Retrieve and inspect any fallen slides for possible heat damage.</li> <li>Check the entrance to the Dryer module for fallen slides. Retrieve and place any fallen slides in a slide basket for staining.</li> <li>Close the cover and reset the SlideMaker.</li> </ol> <ol style="list-style-type: none"> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.7 Ejector Error Messages

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>EJECTOR (REGISTER X RETRACT ERROR)</i>	Yes	SlideMaker Log <i>SlideMaker Slide Ejector (Register Retract) Failure.</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>The slide pusher is retracted.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Any further sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The register X cylinder did not retract or did not retract far enough to engage the register X (cleared) sensor, SEN17, or SEN17 did not detect the retraction. This could indicate:</p> <ul style="list-style-type: none"> <li>The register mechanism is jammed or binding</li> <li>Register X (cleared) sensor, SEN17, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> <li>At the MAIN MENU, select <b>ROUTINE FUNCTIONS &gt;&gt; UNLOCK CASSETTE</b> to unlock the cassette.</li> <li>Remove the slide cassette that is in the slide ejector station.</li> <li>Manually remove any slides from the slide ejector mechanism.</li> <li>Close the cover.</li> <li>Reinstall the slide cassette in the Cassette Input Queue module.</li> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>EJECTOR (RETRACT, SENSOR 23)</i>	Yes	SlideMaker Log <i>SlideMaker Slide Ejector Did Not Retract (Sensor 23).</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>The slide pusher is left extended.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Any further sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The slide pusher did not retract, or the sensor did not detect the retraction. This could indicate:</p> <ul style="list-style-type: none"> <li>The slide pusher is jammed</li> <li>The motor is defective</li> <li>The slide pusher retracted sensor, SEN23, is blocked or failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> <li>At the MAIN MENU, select <b>ROUTINE FUNCTIONS &gt;&gt; UNLOCK CASSETTE</b> to unlock the cassette.</li> <li>Remove the slide cassette that is in the slide ejector station.</li> <li>Manually remove any slides from the slide ejector mechanism.</li> <li>Close the cover.</li> <li>Reinstall the slide cassette in the Cassette Input Queue module.</li> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.7 Ejector Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>EJECTOR (RETRY ERROR)</i>	Yes	SlideMaker Log SlideMaker Slide Ejector (Retry) Failure.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>The slide pusher is left retracted.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Any further sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The slide pusher attempts to dispense a slide twice before generating this error: the first attempt at high speed, the second at low.</p> <ul style="list-style-type: none"> <li>The slide pusher is jammed. Slides may be stuck together due to humidity or a broken slide may be preventing a slide from being dispensed.</li> <li>The slide pusher extended sensor, SEN24, is blocked or failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> <li>At the MAIN MENU, select <b>ROUTINE FUNCTIONS &gt;&gt; UNLOCK CASSETTE</b> to unlock the cassette.</li> <li>Remove the slide cassette that is in the slide ejector station.</li> <li>Manually remove any slides from the slide ejector mechanism.</li> <li>Close the cover.</li> <li>Reinstall the slide cassette in the Cassette Input Queue module.</li> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>EJECTOR (SENSOR ERROR)</i>	Yes	SlideMaker Log SlideMaker Reports Slide Ejector Sensor Failure.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>The slide pusher is left in the last known good position.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Any further sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The slide pusher retracted sensor, SEN23, and the slide pusher extended sensor, SEN24, indicate that the slide pusher is both retracted and extended because:</p> <ul style="list-style-type: none"> <li>The slide pusher retracted sensor, SEN23, or the slide pusher extended sensor, SEN24, is blocked.</li> <li>SEN23 or SEN24 failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> <li>At the MAIN MENU, select <b>ROUTINE FUNCTIONS &gt;&gt; UNLOCK CASSETTE</b> to unlock the cassette.</li> <li>Remove the slide cassette that is in the slide ejector station.</li> <li>Manually remove any slides from the slide ejector mechanism.</li> <li>Close the cover.</li> <li>Reinstall the slide cassette in the Cassette Input Queue module.</li> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.7 Ejector Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>EJECTOR (SLIDE NOT X REGISTERED)</i>	Yes	SlideMaker Log SlideMaker Slide Ejector (Register Extend) Failure.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>The slide pusher is left extended.</li> <li>If the smear truck cannot pick up a slide to make a smear, the sample is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Any further sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>The X-register mechanism did not push the slide to the left wall or the slide registered sensor, SEN25, did not sense the slide at the left wall because:</p> <ul style="list-style-type: none"> <li>The X-register mechanism is jammed.</li> <li>The slide is broken, and is too short to push the flag into the slide registered sensor, SEN25.</li> <li>The flag for SEN25 is stuck.</li> <li>The Z-register arm is not forceful enough to prevent the X-register arm from pushing the slide past the sensor flag spring for SEN25.</li> <li>The slide registered sensor, SEN25, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> <li>At the MAIN MENU, select <b>ROUTINE FUNCTIONS &gt;&gt; UNLOCK CASSETTE</b> to unlock the cassette.</li> <li>Remove the slide cassette that is in the slide ejector station.</li> <li>Manually remove any slides from the slide ejector mechanism.</li> <li>Close the cover.</li> <li>Reinstall the slide cassette in the Cassette Input Queue module.</li> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.8 Fluidics Error Messages**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>FLUIDICS (CALIBRATE)</i>	Yes	SlideMaker Log SlideMaker Fluid Detector Calibration Is Required. Reset the SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity except when in Service mode.	At initialization time, the table containing the calibration value (gain) for the fluid detectors contains invalid values.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.  1. Reset the SlideMaker. 2. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. 3. Call your Coulter Representative.
<i>FLUIDICS (DETECTOR 1)</i>	Yes	SlideMaker Log SlideMaker Fluid Detector 1 Failure. Reset the SlideMaker.		For the first two failures during blood flow 	For the third failure in a row during blood flow, or the first failure during backwash 	The sample is discarded. If three consecutive failures occur during aspiration, or if this failure occurs during backwash:  1. No new samples are aspirated. 2. A smear may be made on one of the samples in a reservoir. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	<ul style="list-style-type: none"> <li>Fluid detector FD1 is defective.</li> <li>A fluidics problem</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.  1. Reset the SlideMaker. 2. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>FLUIDICS (DETECTOR 2)</i>	Yes	SlideMaker Log SlideMaker Fluid Detector 2 Failure. Reset the SlideMaker.		For the first two failures during blood flow 	For the third failure in a row during blood flow, or the first failure during backwash 	The sample is discarded. If three consecutive failures occur during aspiration, or if this failure occurs during backwash:  1. No new samples are aspirated. 2. A smear may be made on one of the samples in a reservoir. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	<ul style="list-style-type: none"> <li>Fluid detector FD2 is defective.</li> <li>A fluidics problem</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.  1. Reset the SlideMaker. 2. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>FLUIDICS (DETECTOR 3)</i>	Yes	SlideMaker Log SlideMaker Fluid Detector 3 Failure. Reset the SlideMaker.		For the first two failures during blood flow 	For the third failure in a row during blood flow, or the first failure during backwash 	The sample is discarded. If three consecutive failures occur during aspiration, or if this failure occurs during backwash:  1. No new samples are aspirated. 2. A smear may be made on one of the samples in a reservoir. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	<ul style="list-style-type: none"> <li>Fluid detector FD3 is defective.</li> <li>A fluidics problem</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.  1. Reset the SlideMaker. 2. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.

Table 7.8 Fluidics Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
FLUIDICS (DETECTOR 4)	Yes	SlideMaker Log SlideMaker Fluid Detector 4 Failure. Reset the SlideMaker.		For the first two failures during blood flow 	For the third failure in a row during blood flow, or the first failure during backwash 	The sample is discarded. If three consecutive failures occur during aspiration, or if this failure occurs during backwash: 1. No new samples are aspirated. 2. A smear may be made on one of the samples in a reservoir. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	<ul style="list-style-type: none"> <li>Fluid detector FD4 is defective.</li> <li>A fluidics problem</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
FLUIDICS (DETECTOR 5)	Yes	SlideMaker Log SlideMaker Fluid Detector 5 Failure. Reset the SlideMaker.		For the first two failures during blood flow 	For the third failure in a row during blood flow, or the first failure during backwash 	The sample is discarded. If three consecutive failures occur during aspiration, or if this failure occurs during backwash: 1. No new samples are aspirated. 2. A smear may be made on one of the samples in a reservoir. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	<ul style="list-style-type: none"> <li>Fluid detector FD5 is defective.</li> <li>A fluidics problem</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
FLUIDICS (DETECTOR 6)	Yes	SlideMaker Log SlideMaker Fluid Detector 6 Failure. Reset the SlideMaker.		For the first two failures during blood flow 	For the third failure in a row during blood flow, or the first failure during backwash 	The sample is discarded. If three consecutive failures occur during aspiration, or if this failure occurs during backwash: 1. No new samples are aspirated. 2. A smear may be made on one of the samples in a reservoir. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	<ul style="list-style-type: none"> <li>Fluid detector FD6 is defective.</li> <li>A fluidics problem</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
FLUIDICS (DETECTOR 7)	Yes	SlideMaker Log SlideMaker Fluid Detector 7 Failure. Reset the SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. A smear may be made on one of the samples in a reservoir. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	<ul style="list-style-type: none"> <li>Fluid detector FD7 is defective.</li> <li>A fluidics problem</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.8 Fluidics Error Messages (Continued)**

SLIDEMAKER		WORKSTATION		RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center		SlideMaker Status	Probable Cause	Corrective Action	
<i>FLUIDICS (DETECTOR 8)</i>	Yes	SlideMaker Log <i>SlideMaker Fluid Detector 8 Failure.</i> <i>Reset the SlideMaker.</i>	 If AutoStop is OFF	 If AutoStop is ON	<ol style="list-style-type: none"> <li>1. No new samples are aspirated.</li> <li>2. A smear may be made on one of the samples in a reservoir.</li> <li>3. Completed smears are dried and deposited in a slide basket.</li> <li>4. The SlideMaker stops.</li> </ol>	<ul style="list-style-type: none"> <li>• Fluid detector FD8 is defective.</li> <li>• A fluidics problem</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>1. Reset the SlideMaker.</li> <li>2. If the message persists:             <ol style="list-style-type: none"> <li>a. Turn off the SlideMaker.</li> <li>b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>c. Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.9 Pneumatics Error Messages

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>PNEUMATICS (5 PSI SUPPLY)</i>	Yes	SlideMaker Log <i>SlideMaker 5 PSI Out Of Range Or Not Present. Turn Off/On SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>5 psi regulator is misadjusted. If it was set too high, it could have ruptured the diaphragm.</li> <li>Pressure leak, most likely from a disconnected line.</li> <li>Pneumatic Supply Monitor, 5-Psi card failure</li> <li>A/D converter error or failure</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Check the 5 psi:               <ol style="list-style-type: none"> <li>From the MAIN MENU, select <b>ROUTINE FUNCTIONS</b> &gt;&gt; <b>PNEUMATIC/POWER SUPPLIES</b>.</li> <li>While monitoring the 5-psi reading on the screen, adjust the 5-psi regulator, REG1.</li> <li>If the message persists, check for a 5-psi leak.</li> </ol> </li> <li>If the message persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker and open the cover.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> </ol> <ol style="list-style-type: none"> <li>If the message still persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.               <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>

**Table 7.9 Pneumatics Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>PNEUMATICS (30 PSI SUPPLY)</i>	Yes	SlideMaker Log <i>SlideMaker 30 PSI Out Of Range Or Not Present. Turn Off/On SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>30 psi out of range: either loss of pressure or excessive pressure from the pneumatic pump (PM1) in the Analytical Station's Power Supply. <ul style="list-style-type: none"> <li>Loss of pressure occurs if the 30 psi line to the SlideMaker is disconnected or if the pneumatic pump fails.</li> <li>Excessive pressure occurs if the 30 psi regulator (RG1) in the Power Supply is set too high or if the diaphragm in RG1 is ruptured.</li> </ul> </li> <li>Pneumatic Supply Monitor, 30-Psi card failure</li> <li>A/D converter error or failure</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Check the 30 psi: <ol style="list-style-type: none"> <li>From the MAIN MENU, select <b>ROUTINE FUNCTIONS</b> → <b>PNEUMATIC/POWER SUPPLIES</b>.</li> <li>While monitoring the 30- psi reading on the screen, check for a 30-psi leak.</li> </ol> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker and open the cover.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> </ol> <ol style="list-style-type: none"> <li>If the message still persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>

Table 7.9 Pneumatics Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>PNEUMATICS (LOW VACUUM 1)</i>	Yes	SlideMaker Log <i>SlideMaker Low Vacuum Out Of Range Or Not Present. Turn Off/On SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>• 17.5 in. Hg vacuum misadjusted</li> <li>• Vacuum leak</li> <li>• Pneumatic Supply Monitor, 17.5-in. Hg card failure</li> <li>• A/D converter failure or error</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Check the 17.5 in. Hg vacuum:               <ol style="list-style-type: none"> <li>From the MAIN MENU, select <b>ROUTINE FUNCTIONS</b> → <b>PNEUMATIC/POWER SUPPLIES</b>.</li> <li>While monitoring the 17.5-in. Hg vacuum reading on the screen, adjust the 17.5-in. Hg vacuum regulator, REG1.</li> <li>If the message persists, check for a vacuum leak.</li> </ol> </li> <li>If the message persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker and open the cover.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> </ol> <ol style="list-style-type: none"> <li>If the message still persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.               <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>

Table 7.9 Pneumatics Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>PNEUMATICS (LOW VACUUM 2)</i>	Yes	SlideMaker Log <i>SlideMaker Low Vacuum Out Of Range Or Not Present. Turn Off/On SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>6.5 in. Hg vacuum misadjusted</li> <li>Vacuum leak</li> <li>Pneumatic Supply Monitor, 6.5-in. Hg card failure</li> <li>A/D converter failure or error</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Check the 6.5 in. Hg vacuum: <ol style="list-style-type: none"> <li>From the MAIN MENU, select <b>ROUTINE FUNCTIONS</b> → <b>PNEUMATIC/POWER SUPPLIES</b>.</li> <li>While monitoring the 6.5-in. Hg vacuum reading on the screen, adjust the 6.5-in. Hg vacuum regulator, REG2.</li> <li>If the message persists, check for a vacuum leak.</li> </ol> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker and open the cover.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> </ol> <ol style="list-style-type: none"> <li>If the message still persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>

Table 7.9 Pneumatics Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>PNEUMATICS (NO HIGH VACUUM)</i>	Yes	SlideMaker Log <i>SlideMaker High Vacuum Out Of Tolerance Or Not Present.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity	<ul style="list-style-type: none"> <li>Vacuum leak</li> <li>Loss of vacuum from the pneumatic pump (PM1) in the Analytical Station's Power Supply</li> <li>Pneumatic Supply Monitor, Vacuum card failure</li> <li>A/D converter failure or error</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Check the high, unregulated vacuum:               <ol style="list-style-type: none"> <li>From the MAIN MENU, select <b>ROUTINE FUNCTIONS</b> &gt;&gt; <b>PNEUMATIC/POWER SUPPLIES</b>.</li> <li>While monitoring the high vacuum reading on the screen, check for a high vacuum leak.</li> </ol> </li> <li>If the message persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker and open the cover.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> </ol> <ol style="list-style-type: none"> <li>If the message still persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> </ol> </li> </ol> <hr/> <p><b>WARNING</b> Risk of contamination. The prepared smears contain biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.               <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol>

**Table 7.9 Pneumatics Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>PNEUMATICS (VACUUM ACCUMULATOR FULL OF LIQUID)</i>	Yes	SlideMaker Log <i>SlideMaker Vacuum Accumulator Full Of Liquid</i>		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is discarded.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity and the Dryer module heater is turned off.</li> </ol>	<p>This error should not occur during normal operation because the vacuum accumulator is emptied during the Startup cycle and any time the SlideMaker is turned off and on.</p> <p>To clear this error:</p> <ol style="list-style-type: none"> <li>The Analyzer grants the SlideMaker permission to empty the vacuum accumulator.</li> <li>The SlideMaker empties the vacuum accumulator until the vacuum reservoir sensor, SEN51, indicates the reservoir is not full or until 30 seconds has elapsed.</li> </ol> <p><b>Note:</b> The vacuum accumulator is then completely emptied over a fixed time period.</p> <p>If the 30 second timeout occurs, it could indicate:</p> <ul style="list-style-type: none"> <li>The vacuum reservoir sensor, SEN51, is defective.</li> <li>The vacuum accumulator drain solenoid, SOL63, is defective.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>If AutoStop is OFF, press <b>STOP</b> on the Diluter keypad to stop the GEN•S System.</li> <li>After the Diluter goes to an idle state, wait until the SlideMaker empties the vacuum accumulator and the SlideMaker screen displays <i>READY</i>.</li> <li>Press <b>START/CONT</b> on the GEN•S System to resume normal operation.</li> <li>If the message persists <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.10 Power Error Messages

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
POWER (2.5V SUPPLY)	Yes	SlideMaker Log SlideMaker 2.5V Supply Out Of Tolerance Or Not Present. Turn Off/On SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>Power supply failure or short circuit</li> <li>A/D converter error</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:                             <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.                                     <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>
POWER (5V SUPPLY) <b>Note:</b> If event severe, this message may not appear.	No	SlideMaker Log SlideMaker 5V Supply Out Of Tolerance Or Not Present. Turn Off/On SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	<ul style="list-style-type: none"> <li>If the 5 V supply is out of tolerance but &gt;4.5 V minimum reset threshold, the SlideMaker stops all mechanical activity and displays a message.</li> <li>If the 5 V supply is less than the minimum reset thresholds, the SlideMaker presents no signs of operation to the operator.</li> </ul>	<ul style="list-style-type: none"> <li>Power supply failure or short circuit</li> <li>A/D converter failure</li> </ul>	<ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:                             <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.                                     <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.10 Power Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>POWER (10V REFERENCE)</i>	Yes	SlideMaker Log <i>SlideMaker 10V Supply Out Of Tolerance Or Not Present. Turn Off/On SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>Power supply failure or short circuit</li> <li>A/D converter error</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.                   <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>
<i>POWER (-15V SUPPLY)</i>	Yes	SlideMaker Log <i>SlideMaker -15V Supply Out Of Tolerance Or Not Present. Turn Off/On SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>Power supply failure or short circuit</li> <li>A/D converter error</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.                   <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.10 Power Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
POWER (15V SUPPLY)	Yes	SlideMaker Log SlideMaker 15V Supply Out Of Tolerance Or Not Present. Turn Off/On SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>Power supply failure or short circuit</li> <li>A/D converter error</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:                             <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.                                     <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>
POWER (24V SUPPLY)	Yes	SlideMaker Log SlideMaker 24V Supply Out Of Tolerance Or Not Present. Turn Off/On SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	<ul style="list-style-type: none"> <li>Power supply failure or short circuit</li> <li>A/D converter error</li> </ul>	<p><b>Note:</b> If the alarm sounds, press any key on the SlideMaker screen to reset it.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:                             <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining.                                     <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.10 Power Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>POWER (PROCESSOR A)</i>	Yes	SlideMaker Log SlideMaker Reports Processor 'A' VPP Failure. Turn Off/On SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	Power supply failure or short circuit	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Open the cover.</li> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>
<i>POWER (PROCESSOR B)</i>	Yes	SlideMaker Log SlideMaker Reports Processor 'B' VPP Failure. Turn Off/On SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	Power supply failure or short circuit	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <hr/> <ol style="list-style-type: none"> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Open the cover and remove the slides from the pusher bars area, Dryer module, and platen, and place them in a slide basket for staining. <p><b>Note:</b> You may not be able to retrieve all the slides.</p> </li> <li>Close the cover and call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.11 Printer Error Messages

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>PRINTER (CRC)</i>	Yes	SlideMaker Log SlideMaker Label Printer Communication Lost (CRC Check).		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. If a sample's label is not printed, the sample is not used. 3. Completed smears are dried and deposited in a slide basket.	Three consecutive failures to communicate with the Label Printer.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Wait until the last slide in the Dryer module is deposited in a slide basket. 2. Turn the SlideMaker off and then on. 3. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>PRINTER (FAILURE)</i>	Yes	SlideMaker Log SlideMaker Label Printer Failure. Turn Off/On SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. If a sample's label is not printed, the sample is not used. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	Label Printer module detected a failure in operation.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Wait until the last slide in the Dryer module is deposited in a slide basket. 2. Turn the SlideMaker off and then on. 3. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>PRINTER (INITIALIZATION)</i>	Yes	SlideMaker Log SlideMaker Label Printer Initialization Failure. Reset The SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	Problem with the Label Printer module at initialization due to: • Memory checksum failure. • RAM memory failure.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Reset the SlideMaker. 2. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>PRINTER (MISSING LABEL)</i>	No	SlideMaker Log SlideMaker Label Printer Is Missing Label.				Warning only. The SlideMaker continues operating normally.	Label missing on label roll.	No action required.
<i>PRINTER (MOTOR FAILED)</i>	Yes	SlideMaker Log SlideMaker Label Printer Motor Failure. Turn Off/On SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. If a sample's label is not printed, the sample is not used. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops all mechanical activity.	Label printer motor did not move as required. To place a label on the slide, the shuttle moves in step with the label dispenser in the Label Printer module. If the label dispenser does not move, a timeout is exceeded and this message is generated.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Wait until the last slide in the Dryer module is deposited in a slide basket. 2. Turn the SlideMaker off and then on. 3. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.

**Table 7.11 Printer Error Messages (Continued)**

SLIDEMAKER		WORKSTATION				RECOVERY		
View Error Screen Message	Alarm	Log Message and Icons on Command Center				SlideMaker Status	Probable Cause	Corrective Action
<i>PRINTER (NO COMMUNICATION)</i>	No	SlideMaker Log Label Printer Communication Timeout. If necessary reset the SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If a sample's label is not printed, the sample is not used.</li> <li>Completed smears are dried and deposited in a slide basket.</li> </ol>	No response from the Label Printer module, or handshake signals are absent for too long.	<ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn the SlideMaker off and then on.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>PRINTER (OUT OF LABELS)</i>	Yes	SlideMaker Log SlideMaker Label Printer Out Of Labels. Refer to the Online Help For The Procedure.				<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed to a smear. <b>Note:</b> The Label Printer module has up to two labels available when it senses the roll is out of labels.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity.</li> </ol>	Label Printer module detected two successive missing labels. <ul style="list-style-type: none"> <li>The label roll is empty.</li> <li>Labels are missing from the label roll.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover and check the label roll: <ul style="list-style-type: none"> <li>If the label roll is missing a few labels, move the label dispenser until more labels are available.</li> <li>If the label roll is empty, replace the roll. Refer to the Replacing the SlideMaker Label Roll procedure in the Online Help system.</li> </ul> </li> <li>Close the cover and reset the SlideMaker to resume normal operation.</li> </ol>
<i>PRINTER (OUT OF RIBBON)</i>	Yes	SlideMaker Log SlideMaker Label Printer Out Of Ribbon. Refer to the Online Help For The Procedure.				<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed to a smear. <b>Note:</b> The Label Printer module still has printing capacity for up to two labels when it senses the ribbon is out.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity.</li> </ol>	Label Printer module detected that ribbon is out.	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover and replace the printer ribbon. Refer to the Replacing the SlideMaker Printer Ribbon procedure in the Online Help system.</li> <li>Close the cover and reset the SlideMaker to resume normal operation.</li> </ol>
<i>PRINTER (TEMPERATURE)</i>	Yes	SlideMaker Log SlideMaker Label Printer Temperature Exceeded. Turn Off SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>If a sample's label is not printed, the sample is not used.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity.</li> </ol>	Elevated printhead temperature.	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn the SlideMaker off, wait approximately 30 minutes, then turn the SlideMaker on.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.11 Printer Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
PRINTER (TOP OF FORM)	Yes	SlideMaker Log SlideMaker Label Printer Top Of Form Not Detected.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity.</li> </ol>	<ul style="list-style-type: none"> <li>Top-of-form is not within allowable distance. Most likely caused by labels jammed in the top-of-form sensor.</li> <li>Three consecutive labels not found during initialization of the Printer.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the Slidemaker and open the cover,</li> <li>Check the top-of-form sensor and remove any labels stuck on the sensor.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:               <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.12 Reagent Error Messages**

SLIDEMAKER		WORKSTATION			RECOVERY		
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action
<i>REAGENT (OUT OF DILUENT)</i>	No	SlideMaker Log <i>Analytical Station Out Of Diluent. Replace Diluent Container, Prime The Slidemaker With Diluent.</i>	N/A		<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed to a smear.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker is ready.</li> </ol>	Analytical Station detected empty diluent container.	<ol style="list-style-type: none"> <li>Replace the reagent container. Follow the Replacing Reagent Containers procedure in the Online Help system for the message that appears on the Analytical Station.</li> <li>If the message persists, prime the SlideMaker with diluent.</li> </ol>
<i>REAGENT (REAGENT TANK NOT FULL)</i>	Yes	SlideMaker Log <i>SlideMaker Reagent Tank Not Full.</i>		If AutoStop is OFF  If AutoStop is ON 	<p>If this error appears when the reagent tank is pulling diluent:</p> <ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed.</li> <li>Backwashing may fail (depending on amount of diluent in the tank).</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity because the SlideMaker cannot run without diluent.</li> </ol> <p>If this error appears when the reagent tank is pulling cleaning agent:</p> <ul style="list-style-type: none"> <li>All operations except shutdown continue normally.</li> <li>Shutdown cannot be done until the reagent tank can fill with cleaning agent.</li> </ul>	After trying to fill the reagent tank for 15 seconds, the reagent full sensor, SEN47, indicates the tank is not full because: <ul style="list-style-type: none"> <li>No reagent is being pulled into the tank.</li> <li><b>Note:</b> Since the diluent and cleaning agent share the same reservoir, the reservoir sensor only reports on the level of the reagent in the reservoir, not on the kind of reagent.</li> <li>The reagent full sensor, SEN47, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Ensure the reagent lines are connected to the reagent containers.</li> <li>If the message occurs during a Startup or a normal operating cycle, the diluent supply is low.               <ol style="list-style-type: none"> <li>Replace the diluent container. Follow the Replacing Reagent Containers procedure in the Online Help system for the message that appears on the Analytical Station.</li> <li>Do a SlideMaker Startup cycle to prime the diluent lines. Select <b>MAIN MENU &gt;&gt; ROUTINE FUNCTIONS &gt;&gt; ROUTINE FLUIDICS &gt;&gt; RUN START UP.</b></li> </ol> </li> <li>If the message occurs during a Shutdown cycle, the cleaning agent is low.               <ol style="list-style-type: none"> <li>Replace the cleaning agent container. Follow the Replacing Reagent Containers procedure in the Online Help system for the message that appears on the Analytical Station.</li> <li>Do a SlideMaker Shutdown cycle to prime the cleaning agent lines. Select <b>MAIN MENU &gt;&gt; ROUTINE FUNCTIONS &gt;&gt; ROUTINE FLUIDICS &gt;&gt; RUN SHUT DOWN.</b></li> </ol> </li> <li>If the message persists, call your Coulter Representative.</li> </ol>
<i>REAGENT (WASTE FULL)</i>	No	SlideMaker Log <i>Analytical Station Waste Full. Empty Or Replace Waste Container.</i>	N/A		<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is processed to a smear.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker is ready.</li> </ol>	Analytical Station detected full waste container.	Replace the waste container at the Analytical Station. Follow the Replacing Waste Container procedure in the Online Help system for the message that appears on the Analytical Station.

Table 7.13 Shuttle Error Messages

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
SHUTTLE (CALIBRATE)	Yes	SlideMaker Log SlideMaker Shuttle Calibration Required.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity, except for Service mode.	At initialization, either the shuttle has never been calibrated (a new flash memory chip) or the values are lost.	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> <li></li> </ol>
SHUTTLE (DISPENSE, SENSOR 7)	Yes	SlideMaker Log SlideMaker Shuttle Not At Dispense Position (Sensor 7).		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<ul style="list-style-type: none"> <li>A jam in the shuttle prevents the shuttle from reaching the dispense position.</li> <li>The dispense position sensor, SEN7, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the slide on the shuttle and remove the slide if it is labeled or has blood on it.</li> <li>Remove any slides that have fallen or are jamming the shuttle.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
SHUTTLE (PRINTER, SENSOR 5)	Yes	SlideMaker Log SlideMaker Shuttle Not At Label Printer Position (Sensor 5).		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<ul style="list-style-type: none"> <li>A jam in the shuttle prevents the shuttle from reaching the printer position.</li> <li>The printer position sensor, SEN5, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the slide on the shuttle and remove the slide if it is labeled or has blood on it.</li> <li>Remove any slides that have fallen or are jamming the shuttle.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.13 Shuttle Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>SHUTTLE (SENSORS)</i>	Yes	SlideMaker Log SlideMaker Shuttle Position Sensors Failure. Turn the SlideMaker Off/On.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>More than one shuttle position sensor (printer position sensor, SEN5; dispense position sensor, SEN7; or smear position sensor, SEN6) is active at a time because:</p> <ul style="list-style-type: none"> <li>A sensor is blocked.</li> <li>A sensor failed.</li> </ul> <p>The most likely condition is that when the shuttle is near the printer position or the dispense position, the shuttle belt swings through the smear position sensor.</p>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn the SlideMaker off and then on.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>SHUTTLE (SMEAR, SENSOR 6)</i>	Yes	SlideMaker Log SlideMaker Shuttle Not At Smear Position (Sensor 6).		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<ul style="list-style-type: none"> <li>A jam in the shuttle prevents the shuttle from reaching the home (smear) position.</li> <li>The smear position sensor, SEN6, failed.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the slide on the shuttle and remove the slide if it is labeled or has blood on it.</li> <li>Remove any slides that have fallen or are jamming the shuttle.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
<i>SHUTTLE (VACUUM, SENSOR 4)</i>	Yes	SlideMaker Log SlideMaker Shuttle Bed Vacuum Failure (Sensor 4).		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is not processed.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	<p>Failure to detect vacuum when passing a slide from the smear truck to the shuttle could indicate:</p> <ul style="list-style-type: none"> <li>An improperly placed slide or debris on the shuttle prevents the necessary seal.</li> <li>The shuttle vacuum sensor, SEN4, is defective.</li> <li>The shuttle vacuum supply solenoid is defective.</li> </ul> <p>Failure to release the vacuum to transfer the slide to the Dryer module could indicate the shuttle vacuum supply solenoid is defective.</p>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>If a slide is on the shuttle, remove the slide. If the slide is a labeled smear, set it aside for staining.</li> <li>Carefully wipe the shuttle with a lint-free tissue.</li> <li>Remove any fallen slides.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

Table 7.14 Truck Error Messages

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
<i>TRUCK (CALIBRATE)</i>	Yes	SlideMaker Log <i>SlideMaker Truck Calibration Required.</i> <i>Reset the SlideMaker.</i>		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity except when in the Service mode.	The servo calibration values for the pick and wick locations are missing at initialization.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Reset the SlideMaker. 2. If the message persists: a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. 3. Call your Coulter Representative.
<i>TRUCK (CLEARANCE POSITION)</i>	Yes	SlideMaker Log <i>SlideMaker Truck Clearance Position Timeout.</i>		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. Any sample in a reservoir is discarded. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops all mechanical activity.	When traveling to the clearance position, the smear truck ended at a position greater than ±0.050 in. of the desired position. The first time this occurs, the smear truck tries again. If it fails on the second attempt, this error is generated. Cause unknown.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Wait until the last slide in the Dryer module is deposited in a slide basket. 2. Open the cover. <b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact. 3. Check the slide on the shuttle and remove that slide if it is labeled or has blood on it. 4. Check the area below the smear truck for fallen slides and retrieve the slides if possible. 5. Close the cover and reset the SlideMaker. 6. If the message persists a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative.
<i>TRUCK (NOT DOWN ERROR)</i>	Yes	SlideMaker Log <i>SlideMaker Reports Slide Truck Down Position Error.</i>		If AutoStop is OFF 	If AutoStop is ON 	1. No new samples are aspirated. 2. Any sample in a reservoir is discarded. 3. Completed smears are dried and deposited in a slide basket. 4. The SlideMaker stops.	The truck position is checked when the slide is placed on the shuttle. This error is generated if the truck lift down sensor, SEN19, does not indicate the truck lift is up. • Truck lift cylinder failed • Truck lift down sensor, SEN19, failed	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. 1. Wait until the last slide in the Dryer module is deposited in a slide basket. 2. Open the cover. <b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact. 3. Check the slide on the shuttle and remove that slide if it is labeled or has blood on it. 4. Check the area below the smear truck for fallen slides and retrieve the slides if possible. 5. Close the cover and reset the SlideMaker. 6. If the message persists a. Turn off the SlideMaker. b. If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. c. Call your Coulter Representative

**Table 7.14 Truck Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY	
View Error Screen Message	Alarm	Log Message and Icons on Command Center	SlideMaker Status	Probable Cause	Corrective Action	
<i>TRUCK (FORWARD, SENSOR 2)</i>	Yes	SlideMaker Log SlideMaker Truck Forward Motion (Sensor 2). Reset the SlideMaker.  If AutoStop is OFF  If AutoStop is ON 	The SlideMaker stops all mechanical activity.	At servo initialization: <ul style="list-style-type: none"> <li>Servo is jammed or binding</li> <li>Encoder failed</li> <li>Servo motor failed.</li> <li>Servo forward limit sensor, SEN2, failed.</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	
<i>TRUCK (INDEX NOT FOUND)</i>	Yes	SlideMaker Log SlideMaker Truck Index Position Not Found. Reset the SlideMaker.  If AutoStop is OFF  If AutoStop is ON 	The SlideMaker stops all mechanical activity.	At initialization, both polarities of the encoder are tried in an effort to find the index position. This error is generated if trying both polarities of the encoder does not find the index position, possibly indicating: <ul style="list-style-type: none"> <li>An encoder failed.</li> <li>The servo motor failed.</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	
<i>TRUCK (INITIALIZATION)</i>	Yes	SlideMaker Log SlideMaker Truck Initialization Failure.  If AutoStop is OFF  If AutoStop is ON 	The SlideMaker stops all mechanical activity.	When initializing the servo, three successive attempts were made to perform a hardware and software initialization of the servo controller chip and all three attempts failed. This could indicate the System Control card failed.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	
<i>TRUCK (INVALID COMMAND)</i>	Yes	SlideMaker Log SlideMaker Truck Received An Invalid Command.  If AutoStop is OFF  If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>The sample in the reservoir is not used.</li> </ol> <b>Note:</b> Unused samples are discarded following reset. <ol style="list-style-type: none"> <li>Completed smears are dried and deposited in a slide basket.</li> </ol>	An invalid command was sent by processor "A" to the servo controller. This indicates an error in: <ul style="list-style-type: none"> <li>Processor "A."</li> <li>Outputs of processor "A."</li> <li>Servo controller.</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact. <ol style="list-style-type: none"> <li>Check the slide on the shuttle and remove that slide if it is labeled or has blood on it.</li> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Check the smear truck for a slide. <ol style="list-style-type: none"> <li>If the smear truck is holding a slide: <ol style="list-style-type: none"> <li>Turn off the SlideMaker. The smear truck drops the slide.</li> <li>Retrieve the fallen slide.</li> <li>Close the cover and turn on the SlideMaker.</li> </ol> </li> <li>If the smear truck is empty, close the cover and reset the SlideMaker.</li> </ol> </li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	

Table 7.14 Truck Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY	
View Error Screen Message	Alarm	Log Message and Icons on Command Center	SlideMaker Status	Probable Cause	Corrective Action	
<i>TRUCK (LIMIT SENSOR)</i>	Yes	SlideMaker Log <i>SlideMaker Truck Sensor Failure. Reset the SlideMaker.</i>  If AutoStop is OFF  If AutoStop is ON 	The SlideMaker stops all mechanical activity.	When either the servo reverse or the servo forward limit sensor was reached, the other sensor also indicated it was blocked, probably indicating: <ul style="list-style-type: none"> <li>Servo reverse limit sensor, SEN1, failed.</li> <li>Servo forward limit sensor, SEN2, failed.</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	
<i>TRUCK (NOT UP ERROR)</i>	Yes	SlideMaker Log <i>SlideMaker Reports Slide Truck Up Position Failure.</i>  If AutoStop is OFF  If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is discarded.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	The truck position is checked after the slide is placed on the shuttle. This error is generated if the truck lift up sensor, SEN18, does not indicate the truck lift is up. <ul style="list-style-type: none"> <li>Truck lift cylinder failed</li> <li>Truck lift up sensor, SEN18, failed</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact. <ol style="list-style-type: none"> <li>Check the slide on the shuttle and remove that slide if it is labeled or has blood on it.</li> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative</li> </ol> </li> </ol>	
<i>TRUCK (PICK POSITION)</i>	Yes	SlideMaker Log <i>SlideMaker Truck Pick Position Timeout.</i>  If AutoStop is OFF  If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is discarded.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity.</li> </ol>	When traveling to the pick position, the smear truck ended at a position greater than ±0.050 in. of the desired position. The first time this occurs, the smear truck moves to the clearance position and tries again. If it fails on the second attempt, this error is generated. Cause unknown.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact. <ol style="list-style-type: none"> <li>Check the slide on the shuttle. Discard that slide if it is labeled or has blood on it.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	

**Table 7.14 Truck Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY	
View Error Screen Message	Alarm	Log Message and Icons on Command Center	SlideMaker Status	Probable Cause	Corrective Action	
<i>TRUCK (PLACEMENT POSITION)</i>	Yes	SlideMaker Log <i>SlideMaker Truck Placement Position Timeout.</i>  If AutoStop is OFF  If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is discarded.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity.</li> </ol>	When traveling to the placement position, the smear truck ended at a position greater than $\pm 0.050$ in. of the desired position. The first time this occurs, the smear truck moves to the clearance position and tries again. If it fails on the second attempt, this error is generated. Cause unknown.	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the slide on the shuttle and remove that slide if it is labeled or has blood on it.</li> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	
<i>TRUCK (POSITION, SENSORS 58,59,60)</i>	Yes	SlideMaker Log <i>SlideMaker Truck At Improper Position (Sensors 58, 59, 60).</i>  If AutoStop is OFF  If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>The sample in the reservoir is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> </ol>	The actual position of the servo differs from the desired position more than $\pm 0.25$ in. This can be caused by: <ul style="list-style-type: none"> <li>Interference with servo motion.</li> <li>Encoder failure.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the slide on the shuttle and discard that slide if it is labeled or has blood on it.</li> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Check the smear truck for a slide. <ol style="list-style-type: none"> <li>If the smear truck is holding a slide: <ol style="list-style-type: none"> <li>Turn off the SlideMaker. The smear truck drops the slide.</li> <li>Retrieve the fallen slide.</li> <li>Close the cover and turn on the SlideMaker.</li> </ol> </li> <li>If the smear truck is empty, close the cover and reset the SlideMaker.</li> </ol> </li> <li>If the message persists <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	

Table 7.14 Truck Error Messages (Continued)

SLIDEMAKER		WORKSTATION			RECOVERY			
View Error Screen Message	Alarm	Log Message and Icons on Command Center			SlideMaker Status	Probable Cause	Corrective Action	
TRUCK (REVERSE, SENSOR 1)	Yes	SlideMaker Log SlideMaker Truck Reverse Motion (Sensor 1). Reset the SlideMaker.		If AutoStop is OFF 	If AutoStop is ON 	The SlideMaker stops all mechanical activity.	At servo initialization: <ul style="list-style-type: none"> <li>Servo is jammed or binding</li> <li>Encoder failed</li> <li>Servo motor failed.</li> <li>Servo reverse limit sensor, SEN1, failed.</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
TRUCK (SENSOR ERROR)	Yes	SlideMaker Log SlideMaker Reports Slide Truck Sensor Failure.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is discarded.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops.</li> </ol>	The truck lift up sensor, SEN18, and the truck lift down sensor, SEN19, indicate the smear truck is both up and down. SEN18 or SEN19 failed.	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Reset the SlideMaker.</li> <li>If the message persists: <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>
TRUCK (TIMEOUT)	Yes	SlideMaker Log SlideMaker Truck Operation Timeout.		If AutoStop is OFF 	If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>The sample in the reservoir is not used. <b>Note:</b> Unused samples are discarded following reset.</li> <li>Completed smears are dried and deposited in a slide basket.</li> </ol>	Every servo operation has a 6 second timeout value that is greater than the time required to perform the operation. If the operation is not completed within the allocated time, a timeout error occurs. This could indicate the servo motor: <ul style="list-style-type: none"> <li>Slipped.</li> <li>Jammed.</li> <li>Failed.</li> </ul>	<b>Note:</b> Press any key on the SlideMaker screen to reset the alarm. <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Open the cover. <b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</li> <li>Check the slide on the shuttle and remove that slide if it is labeled or has blood on it.</li> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>

**Table 7.14 Truck Error Messages (Continued)**

SLIDEMAKER		WORKSTATION			RECOVERY	
View Error Screen Message	Alarm	Log Message and Icons on Command Center	SlideMaker Status	Probable Cause	Corrective Action	
<i>TRUCK (VACUUM, SENSOR 3)</i>	Yes	SlideMaker Log SlideMaker Truck Vacuum Out Of Tolerance (Sensor 3). Turn Off/On SlideMaker.  If AutoStop is OFF  If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is discarded.</li> <li>Completed smears are dried and deposited in a slide basket.</li> </ol>	<ul style="list-style-type: none"> <li>The smear truck is not properly located over a slide.</li> <li>Vacuum has not been applied.</li> <li>Vacuum is too low.</li> <li>The truck vacuum sensor, SEN3, failed.</li> <li>Debris is impeding the establishment of vacuum.</li> </ul>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket.</li> <li>Turn off the SlideMaker and open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Remove the slide cassette from the slide ejector station</li> <li>Remove any glass slides in the slide ejector mechanism.</li> <li>Remove any slide on the shuttle and wipe the shuttle with a clean tissue to remove any debris.</li> <li>Check the area below the smear truck for fallen slides and retrieve the slides if possible.</li> <li>Place the slide cassette back in the Cassette Input Queue module.</li> <li>Close the cover and turn on the SlideMaker.</li> <li>If the message persists:             <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List. Call your Coulter Representative.</li> </ol> </li> </ol>	
<i>TRUCK (WICK POSITION)</i>	Yes	SlideMaker Log SlideMaker Truck Wick Position Timeout.  If AutoStop is OFF  If AutoStop is ON 	<ol style="list-style-type: none"> <li>No new samples are aspirated.</li> <li>Any sample in a reservoir is discarded.</li> <li>Completed smears are dried and deposited in a slide basket.</li> <li>The SlideMaker stops all mechanical activity.</li> </ol>	<p>When traveling to the wick position, the smear truck ended at a position greater than ±0.050 in. of the desired position. Cause unknown.</p>	<p><b>Note:</b> Press any key on the SlideMaker screen to reset the alarm.</p> <ol style="list-style-type: none"> <li>Wait until the last slide in the Dryer module is deposited in a slide basket</li> <li>Open the cover.</li> </ol> <hr/> <p><b>WARNING</b> Risk of personal injury and contamination. The slide processing areas may contain prepared smears and/or broken glass with biohazardous material. Handle with care and avoid skin contact.</p> <ol style="list-style-type: none"> <li>Check the slide on the shuttle and remove that slide if it is labeled or has blood on it.</li> <li>Check the area below the smear truck for fallen slides and retrieve if possible.</li> <li>Close the cover and reset the SlideMaker.</li> <li>If the message persists             <ol style="list-style-type: none"> <li>Turn off the SlideMaker.</li> <li>If AutoStop is ON, turn AutoStop OFF to resume GEN•S System operation. Samples that require slides appear in the Slide List.</li> <li>Call your Coulter Representative.</li> </ol> </li> </ol>	

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# COULTER GEN•S SYSTEM HARD-COPY DOCUMENTATION

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- Host Transmission  
PN 4237306 Specifications for transmitting to a host computer
- Reference  
PN 4237221 Use and Function • Installation • Operation Principles • Specifications/Characteristics • Precautions/Hazards • References • Glossary • Index  
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The Getting Started booklet and the Host Transmission manual come with your GEN•S System.

The information in the Reference manual, Operator's Guide, Special Procedures and Troubleshooting manual and the SlideMaker Operator's Guide comes from the Online Help System. Each of these hard-copy documents comes with a Master Index.

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