

Magnus 400 II and Magnus 400 II Quantum

Platesetters

Safety Precautions for Operators

English

Internal 731-01210A-EN Rev A

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Introduction

Read this safety document carefully before operating or maintaining the Kodak® Magnus™ 400 II and Kodak Magnus 400 II Quantum platesetters and/or the Magnus 400 II and Magnus 400 II Quantum with multi-cassette unit II (MCU II).

These products are Class 1 laser products, according to IEC60825-1 and USA 21 CFR 1040. This implies that there is no hazardous laser radiation, providing that the operator and service safety precautions are followed.

Symbols Used in This Manual



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



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



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

Laser Safety at a Glance—Avoiding Exposure Hazards



WARNING: The laser beam and radiation are hazardous and may be visible and/or invisible to the eye.

- Keep all external doors and internal protective barriers of the platesetter complete, undamaged and intact.
- Never defeat the laser or any other interlock switch.
- Never leave any object between the laser head and the drum.
- Do not open any internal doors or panels. Do not use any tools.
- Do not operate the platesetter if there is any doubt regarding the previous points. Contact your service engineer.

Extensive measures were taken in the design and manufacturing of the platesetter to eliminate the hazards for the operator and service personnel.

Carefully follow the instructions in this document to ensure your safety and the safety of others when operating or maintaining the platesetter.

Device Views

Platesetter



Figure 1: Manual loader platesetter—front view



Figure 2: Platesetter rear view

Platesetter With MCU II



Figure 3: Platesetter with MCU II



Figure 4: MCU II with loader door opened



Figure 5: MCU II left side door opened

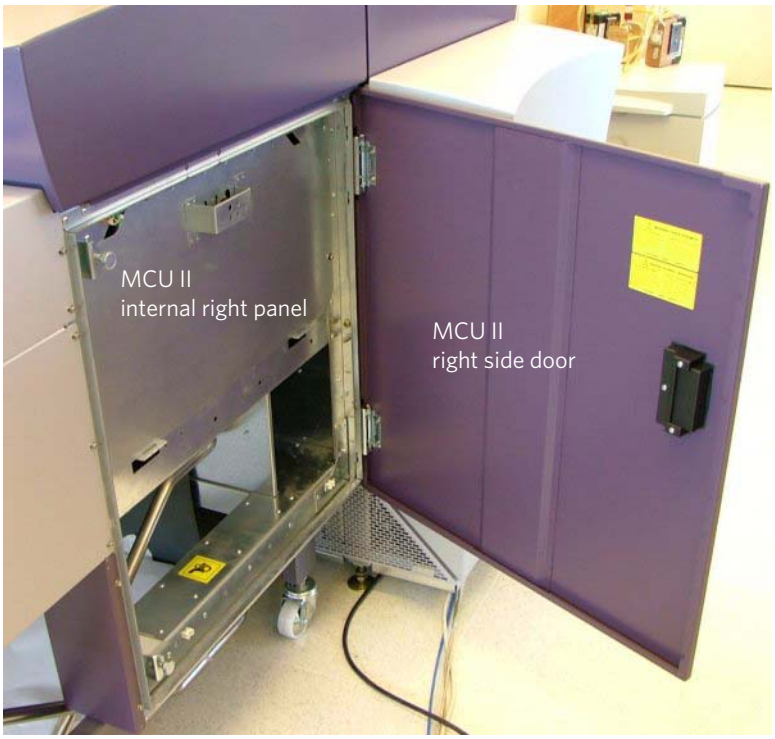


Figure 6: MCU II right side door open

Platesetter With Punch Conveyor



Figure 7: Platesetter with punch conveyor

Power and Electrical Elements and Safety

Installation Safety Precautions

Installation must be done only by authorized service personnel.

The Magnus 400 II and Magnus 400 II Quantum platesetters are installed and serviced exclusively by specialized technicians. These technicians are trained, authorized, and certified in the proper procedures for working with, and adjusting the laser system, and working with the mechanical, cooling, and electrical systems of the platesetter.



WARNING: Do not connect the platesetter to the power supply before the platesetter is installed by authorized service personnel.



WARNING: Only certified service personnel are allowed to service the Magnus 400 II and Magnus 400 II Quantum platesetters.



WARNING: Only certified service personnel are allowed to attach the MCU II to the Magnus 400 II and Magnus 400 II Quantum platesetters.
Only certified service personnel are allowed to dismantle the MCU II from the Magnus 400 II and Magnus 400 II Quantum platesetters.

Electrical and Pneumatic Connections



WARNING: Do not change the power supply installed by the service engineer. Do not alter any electric wiring. Do not alter the pneumatic tubes.



WARNING: The safety interlock does not disconnect hazardous electrical voltage from parts and wires inside the platesetter. These parts require tools to access.

Stop Motors Button

The MCU II is equipped with one Stop Motors button (red with yellow base) that is located inside the device. See Figure 8. This button is intended to assist the service engineer by disconnecting power from motors and pneumatic actuators to halt the motion of mechanical movements even though the motors' defeater is actuated.

Attention: Due to drum inertia, it takes considerable time for the drum to slow down and stop revolving.

The Stop Motors button stops the mechanical movements in the platesetter and in the MCU II.

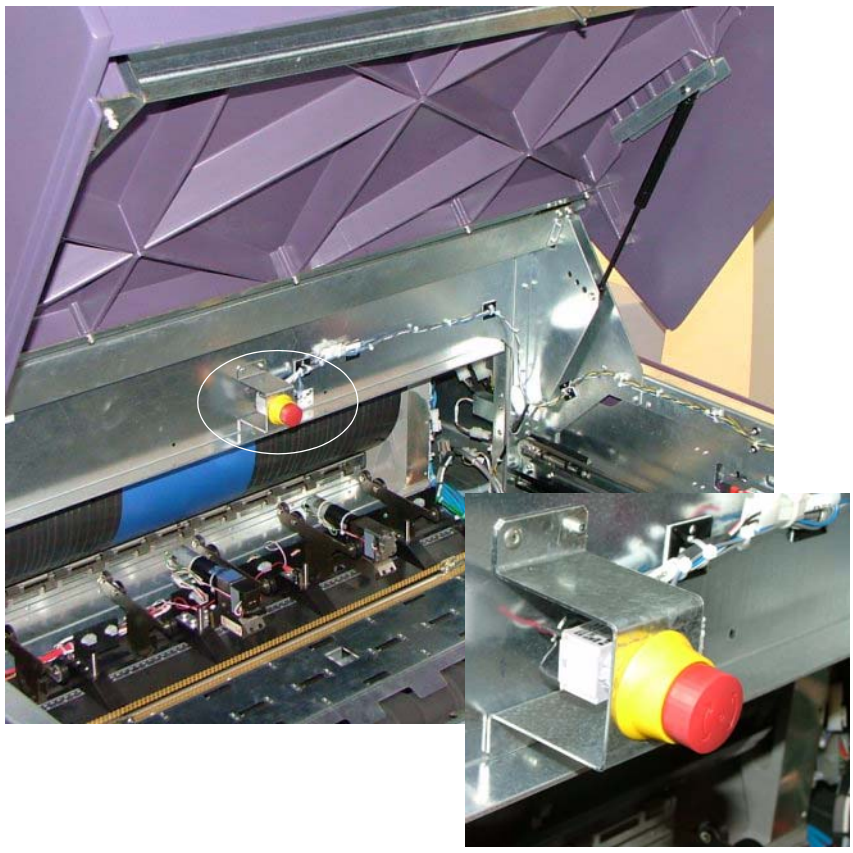


Figure 8: Stop Motors button on the MCU II

Pressing the Stop Motors button stops the mechanical movements and the pneumatic components of the MCU II. It also disconnects power to all the motors, even though the motors' defeater is actuated.

WARNING: The Stop Motors button does not disconnect the main power, nor does it disconnect laser or electrical hazards.

WARNING: When the Stop Motors button is pressed, it may take more than a minute for the rotating drum to stop due to drum inertia.

WARNING: When the Stop Motors button is pressed, it may take a few seconds for the pneumatic components to come to a complete standstill.

When the Stop Motors button is released, the motors should not be reactivated unless the command has been re-sent from the workstation. For the Magnus 400 II and Magnus 400 II Quantum platesetters, this attribute is provided by the software.

WARNING: If a motor reactivates after the Stop Motors button was released and a command to renew operation was not sent from the workstation, the output device must be shut down until it is repaired.

Disconnecting From the Main Power Supply

The platesetter is equipped with a main circuit breaker**,** located on the distribution box (D-box) on the lower-rear panel of the platesetter; and two identical (yellow) On/Standby buttons located on both sides of the rear panel of the platesetter.

Special circuit breakers for the drum power and drum vacuum pump are located near the main power circuit breaker**.**



WARNING: Total disconnection from the main power supply can only be achieved by deactivating the main power circuit breaker (set to 0), or by unplugging the main power cable from power outlet.

Disconnecting From the Pneumatic Air Pressure

Turning off the air pressure is done by turning off the air supply. The Magnus 400 II and Magnus 400 II Quantum platesetters receive pneumatic air pressure through a valve from the filtration unit located on the wall. Turn the valve to shut off the air pressure.

Lithium Battery

The platesetter contains a lithium battery. The operator must not replace the battery; only a qualified service person must replace it.



WARNING: There is danger of explosion if the battery is incorrectly replaced.

Laser Elements and Radiation

On Magnus 400 II (LDA) platesetters, the LDA laser source generates the laser radiation, which is carried via the optical fibers to the fiber welding box, and then from the fiber welding box via the optical fibers to the laser head. The laser head radiates the laser radiation toward the drum.

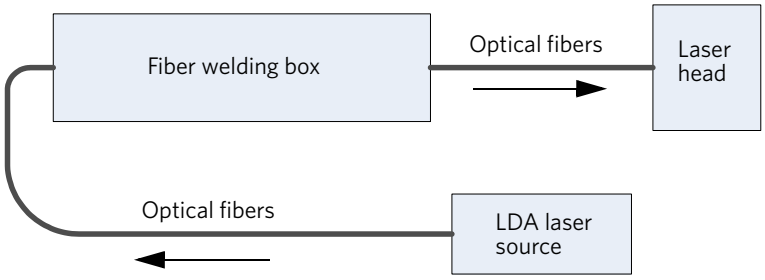


Figure 9: LDA laser system

On Magnus 400 II Quantum platesetters, the thermal imaging head generates the laser radiation and radiates it toward the drum.

On both the Magnus 400 II and Magnus 400 II Quantum platesetters, the following means provide protection from the laser radiation:

- Enclosures
- Safety interlocks

WARNING: Use of controls or adjustments, or performance of procedures other than those specified in this guide may result in hazardous radiation exposure.

The platesetters are equipped with a highly hazardous laser system that exposes the media. However, the platesetters as a whole are Class 1 laser products, according to IEC60825-1 and USA 21 CFR 1040. This implies that the operator and service engineer cannot access hazardous laser radiation, providing that the operator and service safety precautions are followed.

WARNING: It may take approximately three seconds for the laser interlock system to shut off the laser sources. Therefore, when opening a door, do not rush to access inside the platesetter.

WARNING: Never open the platesetter's side doors unless the rear door has been opened first and has activated the interlock system. Failure to adhere to this rule may cause exposure to hazardous laser radiation and permanent eye damage.

WARNING: The laser beam and radiation of the platesetters include invisible and/or visible (red) laser radiation that are hazardous to the eyes and skin.

WARNING: The write laser beam and radiation is invisible and hazardous to the eyes and skin. In the presence of flammable material, the invisible laser beam is also a fire hazard. Even brief exposure of the eyes to the invisible laser radiation or beam, or its reflections from shiny or matte objects may cause permanent loss or permanent degradation of eyesight.



WARNING: The focus laser (present in Magnus 400 II Quantum platesetters only), is visible (red) and is hazardous to the eyes. Even brief exposure of the eyes to the focus laser visible laser radiation or beam, or its reflections from shiny objects may cause permanent loss or permanent degradation of eyesight.



WARNING: Whenever in doubt, the platesetter should never be operated until it is checked and approved for operation by an authorized service engineer.



WARNING: If you must enter the room where the platesetter is located when the platesetter is turned on, and you suspect that any of the precautions in the following sections—*Laser Elements on Magnus 400 II (LDA) Platesetters*, *Magnus 400 II Quantum Thermal Imaging Laser Head* on page 11, and *Laser Elements and Radiation Protection* on page 12 have been violated, then you must disconnect the power supply to the platesetter before entering the room.

Laser Elements on Magnus 400 II (LDA) Platesetters

Laser Source

The LDA laser source is located behind the left side door behind the internal barrier. The platesetter must never be activated unless the laser source is in its proper location and the laser source door and barrier are closed and properly fastened and no optical fibers emerge from its enclosure.



WARNING: Do not access the LDA laser source.

Optical Fibers and Fiber Welding Box

Laser radiation is generated in the LDA laser source, which contains 48 individual emitters. The laser radiation is conducted via a bundle of optical fibers (encased in black plastic tubing) to the fiber welding box, and then from the fiber welding box via the optical fibers (again, encased in black plastic tubing) to the laser head.



DANGER: If the platesetter is turned on and an optical fiber extends from the enclosure, or if a fiber is damaged inside or outside the platesetter, and even when the doors are closed, invisible laser radiation of up to a watt at a wavelength of 810–860 nm may be present. Even brief exposure of the eyes to the invisible laser radiation or beam, or its reflection from shiny or matte objects may cause degradation or permanent loss of eyesight.



WARNING: You must never, under any circumstances, move, pull, or handle the optical fibers and their protective tubing.



WARNING: You must never access or open the laser fiber welding box.

Laser Head

The optical fibers conduct the laser radiation to the laser head.



DANGER: The laser head must never be activated if it is removed from its position on the guide beam. In addition, the laser head must never be activated when it is not in its proper position facing the drum, and with all the internal protective barriers assembled and all the doors closed.



DANGER: Up to several tens of watts of invisible laser radiation at a wavelength of 810–860 nm may be present at the output of the laser head. This laser radiation is hazardous to the eyes and skin. Even brief exposure of the eyes to this radiation or to its reflection from shiny or matte objects can cause permanent degradation or permanent loss of eyesight.



WARNING: Never place any object in the path of the laser beam between the laser head and the drum.

Magnus 400 II Quantum Thermal Imaging Laser Head

The Magnus 400 II Quantum platesetter has a highly hazardous thermal imaging laser head inside that exposes the media. The laser imaging head uses two separate laser emitters:

- Invisible write laser
- Visible (red) auto focus laser



DANGER: Even brief exposure of the eyes to the laser radiation or beam or its reflections from shiny or matte objects may cause permanent loss or permanent degradation of eyesight.

The write laser beam is invisible to the eye (Class IV, approximately 830 nm).

The write laser interlocks are never to be defeated, either by operator or service personnel.

The auto focus laser is visible (red) (Class IIIB, approximately 670 nm).

The auto focus laser interlock may be defeated by an authorized service engineer only, while following all safety instructions listed in the service safety documentation.



DANGER: While an interlock is being defeated, avoid exposure to the auto focus laser beam or its reflections. If the laser beam is reflected into the eyes, either directly or indirectly, it can cause permanent eye damage.



WARNING: Do not operate the Kodak thermal imaging head outside the platesetter or with any doors or panels open, nor defeat any of the laser safety mechanisms. The laser output or reflections from shiny or matte objects can cause severe and permanent eye and skin damage and are a fire hazard in the presence of flammable materials.

Laser Elements and Radiation Protection

Enclosures

Together with the laser interlock system, the platesetter enclosure is designed to protect anyone in the platesetter vicinity from exposure to the laser radiation by enclosing the laser radiation within the platesetter. The enclosure includes the external doors and panels, and the internal protective barriers. The internal barriers that may be dismantled by a service engineer have warning labels on them indicating that the barrier must be in place. The internal protective barriers prevent the laser radiation from escaping through the platesetter loading/unloading openings, through the ventilation openings, and through the gaps between the external doors and panels. This protection depends upon the completeness and correct assembly of the outer enclosure and the internal protective barriers.



DANGER: If the platesetter is on and the enclosure is damaged or incomplete, and even with the external doors closed, invisible laser radiation of up to several watts may be present. This radiation is hazardous to the eyes or skin. Even brief exposure of the eyes to this radiation or its reflection from shiny or matte objects can cause permanent degradation or permanent loss of eyesight.



WARNING: You must never, under any circumstances, dismantle any external door or panel, or internal protective barrier from the platesetter.



WARNING: After performing any service activity and before turning on the platesetter, the service engineer must check and ensure that all external and internal enclosures and doors are complete, not broken or cracked, and properly assembled to the platesetter.



WARNING: You must never open any door, barrier, or panel that requires the use of a tool—for example, side doors when the rear door is closed, laser source protective barrier, distribution box, or the computer located behind the right door.



WARNING: You must never use tools on or in the platesetter.



CAUTION: The opening of the front and rear doors is controlled by a spring-loaded mechanism. Keep your head away from the doors when you open them.

Safety Interlocks

Safety interlocks provide the main protection against the severe laser and mechanical hazards that are involved with the platesetter, providing that you carefully follow all the safety precautions detailed in this guide.



WARNING: The safety interlock does not disconnect hazardous electrical voltage from parts and wires inside the platesetter. These parts require tools to access.



WARNING: It may take approximately three seconds for the laser interlock system to shut off the laser sources. Therefore, when opening a door, do not rush to access inside the platesetter.



WARNING: Never open the platesetter's side doors unless the rear door has been opened first and has activated the interlock system. Failure to adhere to this rule may cause exposure to hazardous laser radiation and permanent eye damage.

Interlock switches are designed to disconnect power from the laser system, drum motor, and other motors when:

- The platesetter front door, rear door, side doors, or the MCU II front door is opened.
- The platesetter rear or front panels are removed.
- The MCU II is disassembled from the platesetter.
- The left or right internal MCU II side panels are removed



WARNING: The operator is not, under any circumstances, allowed to defeat any interlock switch.

- Authorized service personnel must never defeat the write laser interlocks, but are allowed to defeat the focus laser (on Magnus 400 II Quantum platesetters), and actuate the motors' interlock defeater (located below the platesetter rear door) while adhering to the appropriate safety instructions.

Interlock Functions and Locations

The following table provides information about the safety measures and controls included in the platesetter. You must not defeat any interlock switch, actuate any of the defeat switches, or use tools on the platesetter.

Table 1: Platesetter laser and motor interlock switch locations

Platesetter Enclosure	Number of Laser and Motor Interlock Switches	Notes
Magnus 400 II		
Front door	2	
Front panel	1	
Rear door	2	
Rear door	1	Defeater switch (on right side) to enable motors in platesetter and MCU II
Rear panel	1	
Left side door	1	
Right side door	1	
Magnus 400 II Quantum		
Front door	2	
Front panel	1	
Rear door	2	
Rear door	1	Defeater switch (on right side) to enable motors in platesetter and MCU II
Rear door	1	Defeater switch (on left side) to enable focus laser *only* if the motors' defeater switch is also actuated
Rear panel	1	
Left side door	1	
Right side door	1	

Table 2: MCU II laser and motor interlock switch locations

Platesetter Enclosure	Number of Laser and Motor Interlock Switches	Notes
MCU II		
Left internal panel	1	
Right internal panel	1	
Front door	1	Large interlock switch that enables opening of door and disables laser and motors
Front door	1	Red button with yellow base that disables motors by canceling the defeater switch action (See *Remote Support* on page 23.)
Loader door	1	Magnetic motor interlock switch



DANGER: If a door or panel is open and the interlock switch is defeated, or if the interlock system failed, severe mechanical hazards and invisible laser radiation of up to several tens of watts may be present. The laser radiation is hazardous to the eyes and skin. Even brief exposure of the eyes to this radiation or its reflection from shiny or matte objects can cause permanent degradation or permanent loss of eyesight.

Note: The write laser interlock system is equipped with a buzzer. If a failure is detected in the operation of the write laser interlock system, the buzzer is activated, and the write laser is shut off. In any case, not every possible failure can be detected, especially failure of a single interlock switch.



WARNING: It may take up to two seconds for the laser interlock system to shut off the laser sources. Therefore, when opening a door, do not rush to access inside the platesetter.



WARNING: If the buzzer is activated, shut down the platesetter and do not operate it again until it has been checked and approved for operation by an authorized service engineer.

Drum

The Magnus 400 II and Magnus 400 II Quantum platesetters contain a drum that revolves inside the platesetter. The plates are loaded, wrapped onto the drum, exposed and unloaded.

On the Magnus 400 II platesetter, the drum normally revolves at 1300 revolutions per minute, while on the Magnus 400 II Quantum platesetter, the drum normally revolves at 500 revolutions per minute. If an object hits the rotating drum, the object may damage the safety system, optical fibers, or laser head, or force the front and rear doors to open, or penetrate the platesetter enclosures.

Opening the platesetter's front and rear doors and the MCU II front door is initiated from the Magnus Controller software. This activates solenoids that release the door locks, enabling the operator to open the door. By this time, the drum must be almost stationary.



WARNING: If after a door is unlocked, it takes more than three seconds for the drum to become completely stationary, the machine must be repaired. Shut down the machine and call your service engineer.

Because the revolving drum may cause serious personal injury to the operator, service engineer, or anyone in the vicinity, you must adhere to the following precautions:



WARNING: Do not insert your fingers or hands anywhere near the drum because they may get caught in the narrow gaps in the drum area.



WARNING: Be sure not to leave any object, tool, or part inside or on the platesetter enclosure. If an object gets lodged, it may cause damage to the platesetter safety systems and endanger operator and service personnel.



WARNING: You must never, under any circumstances, defeat any interlock switch.



WARNING: If the service engineer has defeated the motors' interlock and a door is open, do not stand in front of or behind the platesetter—at any distance. Do not touch any moving part while it is in motion.



WARNING: If you need to open the panel for releasing stuck plates or other maintenance, remove any piece of clothing or any object that may get caught in the revolving drum or other moving parts. Remove ties, roll up long sleeves, remove jewelry, and gather long hair.

Handling Plates and Cassette Trays

Loading and Unloading Plates

When the platesetter is ready to expose a plate, the plate is automatically loaded. After the plate is exposed, it is automatically unloaded from the plate exit at the rear of the platesetter.



WARNING: Since the plate is automatically unloaded from the plate exit, do not stand too close to this exit.



CAUTION: The plate edges are sharp and should not be handled with bare hands. Wear gloves if you must handle the plate.



CAUTION: Do not touch the plate after it is placed in the MCU II. Close the cassette tray and loader door on the MCU II to enable automatic plate loading.



CAUTION: Be careful that your fingers do not get caught when closing the cassette tray. If your fingers are placed inside the MCU II, near the cassette trays, make sure that no one is moving the cassette trays from the other side. This may cause injury to your fingers or palm.

When working with the MCU II, you may need to lift a box of 50 plates. The plates are heavy.



WARNING: Make sure to lift the plates in a manner that will not cause injury to your back.

Removing Stuck Plates

Special precautions are required when removing a plate that is stuck inside the platesetter.

WARNING: Before removing a plate, turn off the main power circuit breaker on the distribution box (D-box), and secure it in the off position with the safety bar.



Figure 10: Securing the safety bar on the D-box main power circuit breaker

WARNING: Before removing a plate, remove objects or clothing that might get caught in the revolving drum or other moving parts, such as ties and jewelry. Fold long sleeves and gather long hair.

Release the entire plate as one piece; do not attempt to cut the plate.

Fluid Cooling System

The Magnus 400 II Quantum platesetter is equipped with a cooling system that cools the laser thermal head. The system uses a water-based coolant. The cooling system has no operator-serviceable parts. The cooling system is sealed and no coolant leakage should occur. If coolant leakage does occur, shut down the platesetter and call your service engineer.



DANGER: If the coolant leaks and the platesetter is not shut down, electrical shock hazard and fire hazard are present.

Universal Debris Removal Cabinet

The Universal Debris Removal Cabinet (UDRC) that is connected to the platesetter is part of the Magnus 400 II and Magnus 400 II Quantum configuration. The UDRC contains a filtering device that extracts dust, fumes, contaminants, and solvent vapors that accumulate inside the platesetter during normal operation and need to be removed.

The filter may be replaced *only* by the service engineer.



WARNING: The filtering device has been constructed according to recognized technical safety regulations. Nevertheless, danger to the life of the operator or third parties or damage to property can occur if the filter is not handled properly.

Punch Conveyor

Only qualified service engineers are authorized to install the punch conveyor.

WARNING: Before operating the punch conveyor, make sure that all four punch conveyor wheels are securely locked.

WARNING: When standing close to, or doing maintenance on the punch conveyor, remove objects or clothing that might get caught in the conveyor belts, such as ties and jewelry. Fold long sleeves and gather long hair.

CAUTION: Some of the edges of the punch conveyor are not smooth. Be careful not to cut your fingers or hands while working with this device.

The punch conveyor connects to Magnus 400 II ContinuousLoad (CL) platesetters, and has a six-punch configuration capacity. The punch conveyor is powered by two 24-V DC supply lines coming from the platesetter. One of the supply lines powers the punch conveyor motors and is interlocked, stopping the motors when a door or panel in the platesetter is open.



Figure 11: Punch conveyor with cover off and optional slider

WARNING: The punch conveyor has exposed hazardous moving parts. Keep fingers and other body parts away.

WARNING: To prevent motor operation and plate movement when removing a stuck plate or slugs, or when cleaning or performing maintenance on the punch conveyor, always keep a platesetter door open. This will disconnect the 24-V DC line that powers the punch conveyor motors.

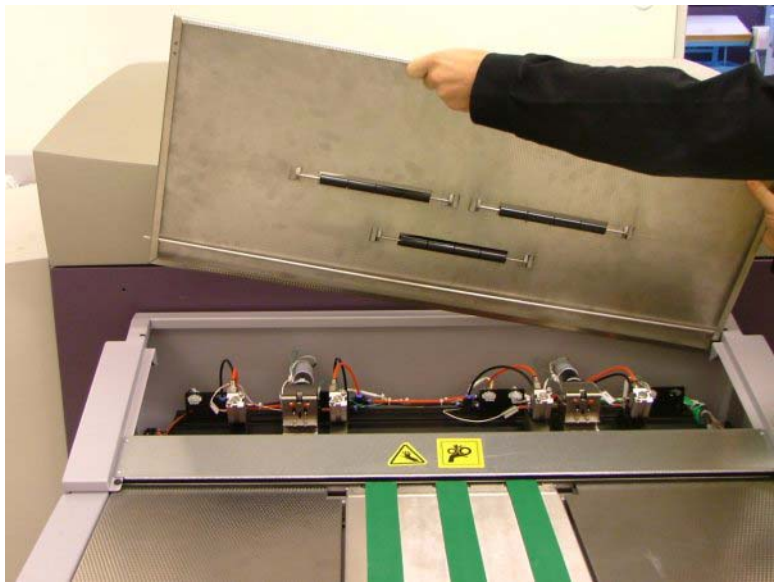


Figure 12: Removing the punch cover

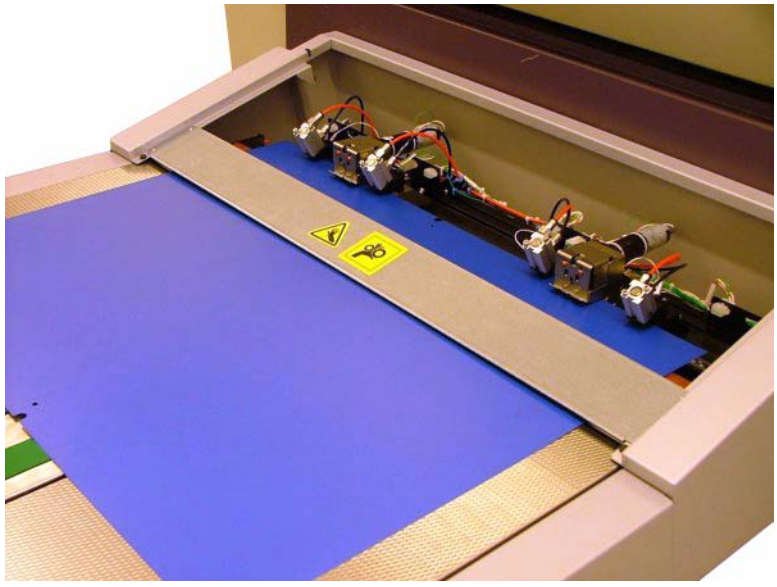


Figure 13: Plate moving toward the punches with the punch cover removed

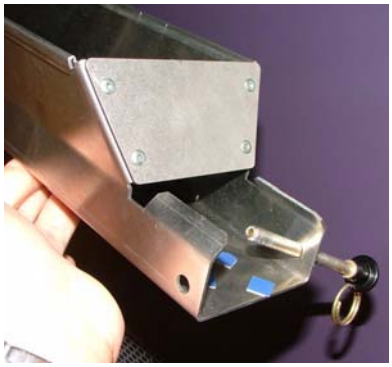
WARNING: The punch cover is heavy. To avoid injury to the fingers or hands, when removing a stuck plate or performing any other maintenance in the area under the punch cover, use both hands to lift up the punch cover, remove it from the punch conveyor and set it aside. Reinstall the punch cover after completing the task.

CAUTION: When the punch cover is removed, plates moving toward the punches (see Figure 13 on page 21) may be hazardous to fingers and hands. To prevent plate movement, always keep a platesetter door open.

The punch conveyor includes a slug bin that is located under the punch conveyor unit.



Slug bin



Slug pin released



Removing slugs

Figure 14: Punch conveyor slug bin

CAUTION: When removing slugs, be careful not to bump your head, or to cut or bruise your fingers or hands.

Remote Support

A service representative can control the platesetter from a remote location to provide support. If an interlock is defeated while the platesetter is operated from a remote location, the service engineer or a Kodak-certified operator on-site may be exposed to hazardous motor and/or focus laser radiation. Therefore, it is important to coordinate remote support between the remote service representative and the on-site service engineer or Kodak-certified operator.

Although the platesetter can be operated via a remote location under any of the following three conditions, the first method is considered unsafe and is forbidden:

- Doors, panels, or hoods that have no interlocks are open. This is an unsafe method of remotely operating the platesetter, and you must avoid it.



WARNING: It is strictly forbidden to remotely operate the platesetter if any doors, panels, or hoods of the platesetter (or the Magnus 400 II with MCU II, including the Magnus 400 II Quantum) that have no interlocks are open.

- All doors, panels, and hoods of the platesetter (or Magnus 400 II with MCU II including the Magnus 400 II Quantum) are closed. This is the safest method of remotely operating the platesetter.
- Doors, panels, and hoods that have interlocks are open and the mechanical interlock is defeated only by the service engineer or by the Kodak-certified operator. This is a potentially unsafe method of remotely operating the platesetter, and it should be employed only when strictly adhering to all information and warnings in the following remote-support-related sections:



WARNING: The remote service representative must contact the local site by telephone before beginning to operate the platesetter from a remote location.

Interlock Defeat Permissions

	Write Laser Interlock Defeat	Focus Laser Interlock Defeat	Mechanical Interlock Defeat
Service engineer	Not allowed	Allowed	Allowed
Kodak-certified operator	Not allowed	Not allowed	Allowed
Operator	Not allowed	Not allowed	Not allowed

Note: ThermoFlex® Hybrid platesetters and Magnus 400 LDA platesetters contain only *write* lasers; they do not contain focus lasers.



WARNING: Only a service engineer or a Kodak-certified operator who has undergone specialist training regarding safety interlocks is permitted to defeat the mechanical interlock (by inserting one red, rectangular dedicated defeater into the platesetter's mechanical defeater switch).



WARNING: Only a service engineer who is located at the site and is adhering to service safety instructions, is allowed to defeat the focus laser interlock.



WARNING: No one is allowed to defeat the write laser interlock.

Activating Remote Control

The service representative must request permission from the local site before the platesetter can be remotely operated.
The following request message appears on the local monitor (at the site):

```
Machine Name\User Name is requesting to control your session
remotely. Do you accept the request?
```

The request message has a time-out of 30 seconds. If the service engineer or Kodak-certified operator does not accept the request within 30 seconds, it is automatically canceled.



WARNING: Before accepting a request to operate the platesetter from a remote location, the service engineer and/or Kodak-certified operator must make sure that the following conditions are met:

- No person can be potentially exposed to either mechanical or laser hazards.
- Constant telephone contact is maintained between the remote service representative and the service engineer or Kodak-certified operator.



WARNING: Never defeat the laser interlock.

Terminating Remote Control

Remote control of the platesetter can be terminated (disconnected) by any of the following methods:

- By pressing an Emergency Stop button (if one exists on the platesetter)
- By removing the red rectangular dedicated defeater from the platesetter's mechanical defeater switch
- By pressing the Stop Motors button or one of the two On/Off yellow buttons (if either of these exist on the platesetter).
- By turning the main power circuit breaker to off
- Via the remote service representative's computer
- Via the local computer by double-clicking the remote support icon on the local desktop and confirming that you want to terminate the session



Warning Labels and Locations

WARNING: The warning labels are provided for operator and service personnel safety. Always comply with the warnings.

The following pages show the warning labels and their locations.

Make sure that the warning labels are in good condition; notify your service engineer if a label needs to be replaced.

The machine supplied to you should have the warning labels provided in your local language.

WARNING: Notify your service engineer if your local language is not provided on the warning labels.

Platesetter, MCU II, and Punch Conveyor Warning Labels



Label 1: 382-00888A



Label 1: 382-00889A



Label 2: 382-00956A



Label 3: 382-01051A



Label 3: 382-01052A

Note: Label 3 applies to Magnus 400 II Quantum platesetters *only*.



Label 4: 382-01068A



Label 4: 382-01069A

Note: Label 4 applies to Magnus 400 II Quantum platesetters *only*.



Label 5: 382-00980A



Label 5: 382-00981A

Note: Label 5 applies to Magnus 400 II (LDA) platesetters *only*.



Label 8: 382-00905A



Label 8: 382-00906A

Note: Label 8 applies to Magnus 400 II (LDA) platesetters *only*.



Label 9: 382-00922A



Label 9: 382-00923A

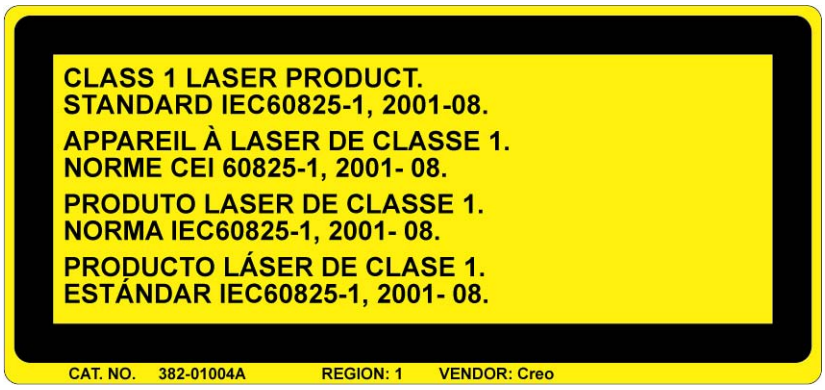
Note: Label 9 applies to Magnus 400 II (LDA) platesetters *only*.



Label 10: 382-00939A



Label 10: 382-00940A



Label 12: 382-01004A



Label 15: 382-00968A

Note: Label 15 applies to Magnus 400 II (LDA) platesetters *only*.



Label 16: 382-01016A



Label 19: 382-01028A



382-01117A

Note: Label 382-01117A applies to Magnus 400 II (LDA) platesetters *only*.



374A7B678



374A9C009



374A7B951



382-01209A

Platesetter Warning Label Locations

WARNING: Some of the figures show protective panels and internal protective barriers removed. The operator must never dismantle any barrier or panel if a tool is required to do so.

Magnus 400 II

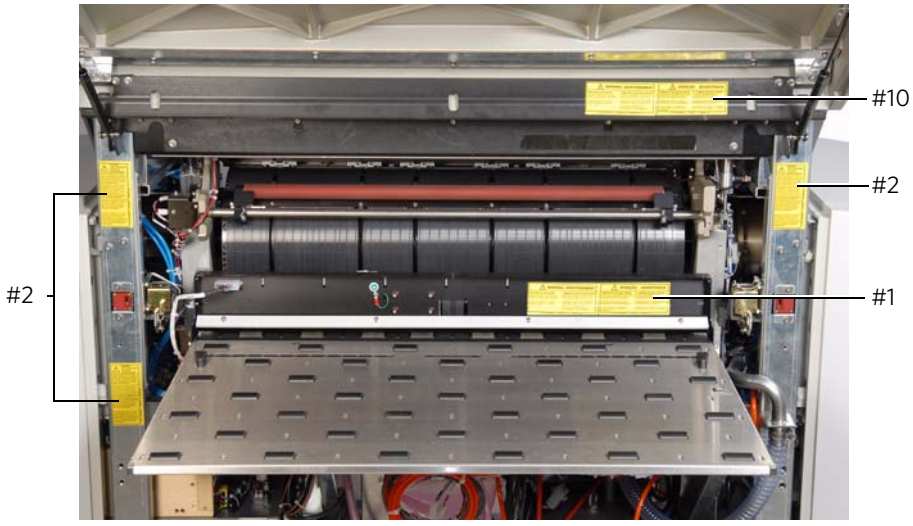


Figure 15: Front view, doors open, panels removed, with loading tray

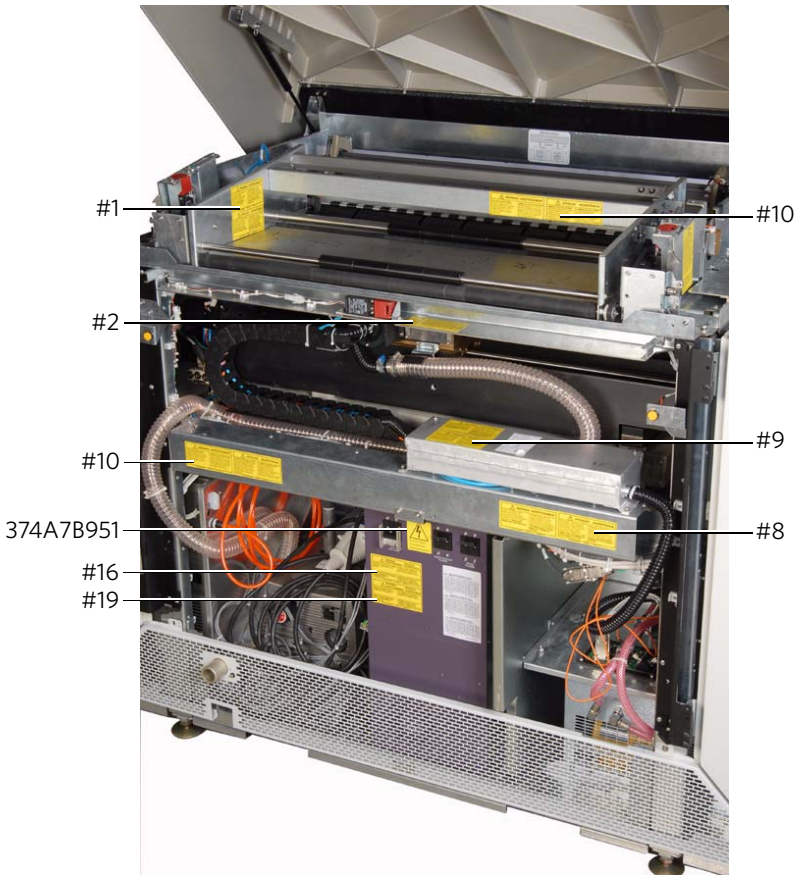


Figure 16: Rear view, doors open, panels removed, with unloading tray

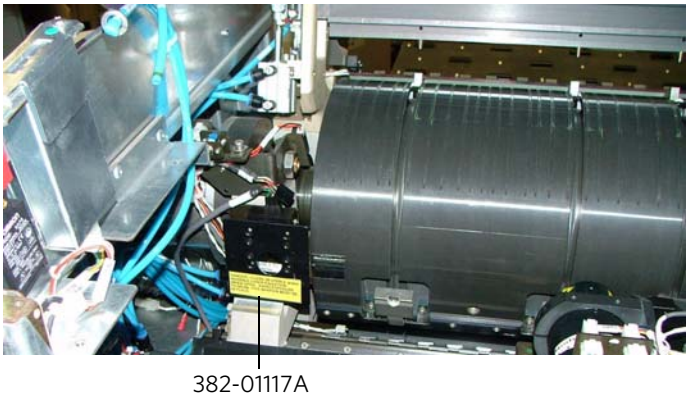
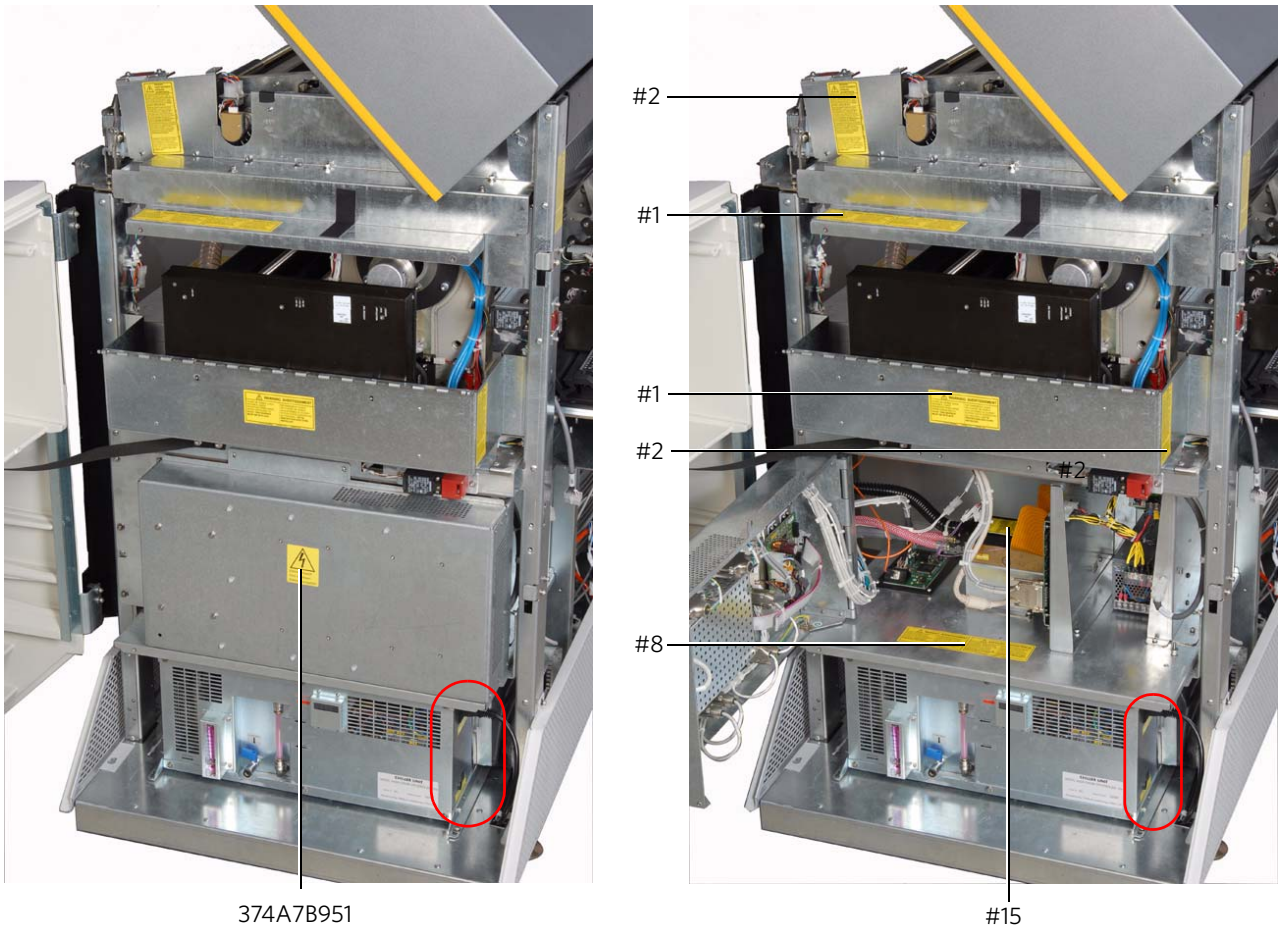


Figure 17: Rear view, doors open, panels removed, without unloading tray

Note: Figure 17 applies to Magnus 400 II (LDA) platesetters *only*.



Figure 18: Rear view, rear panel closed



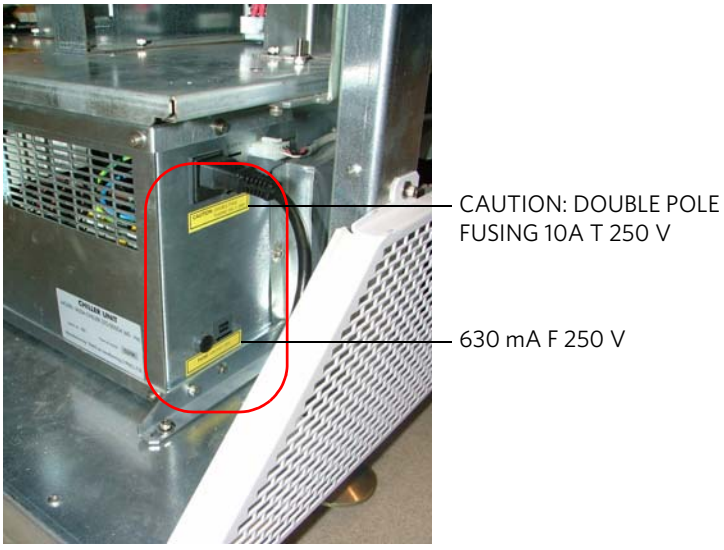


Figure 19: Magnus 400 II—left side door open with labels on chiller marked

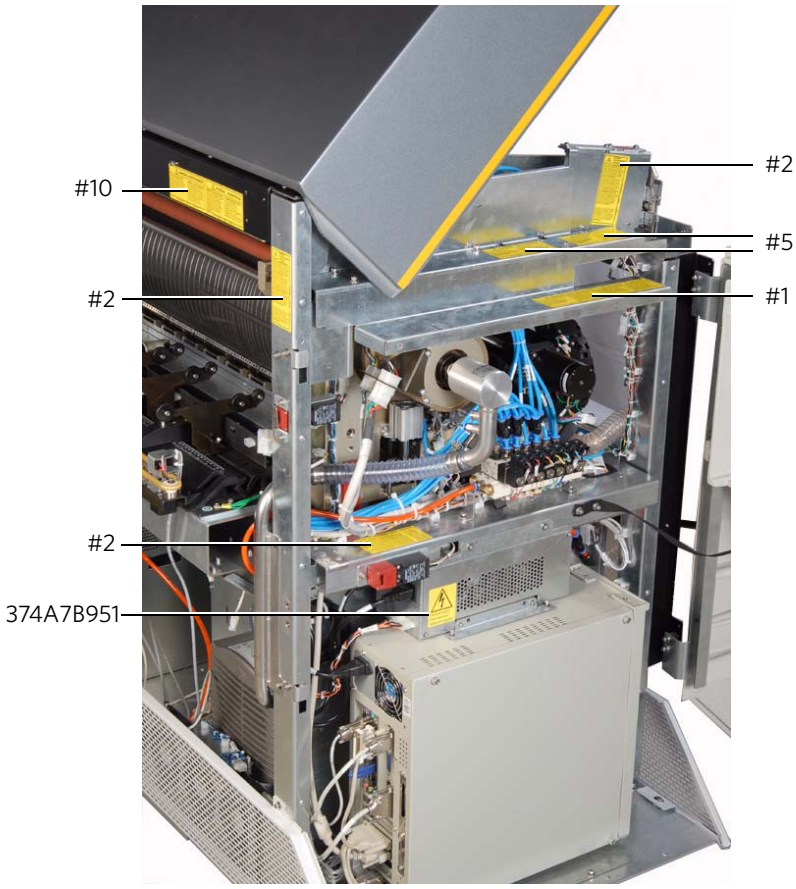


Figure 20: Magnus 400 II—right side door open

Magnus 400 II Quantum

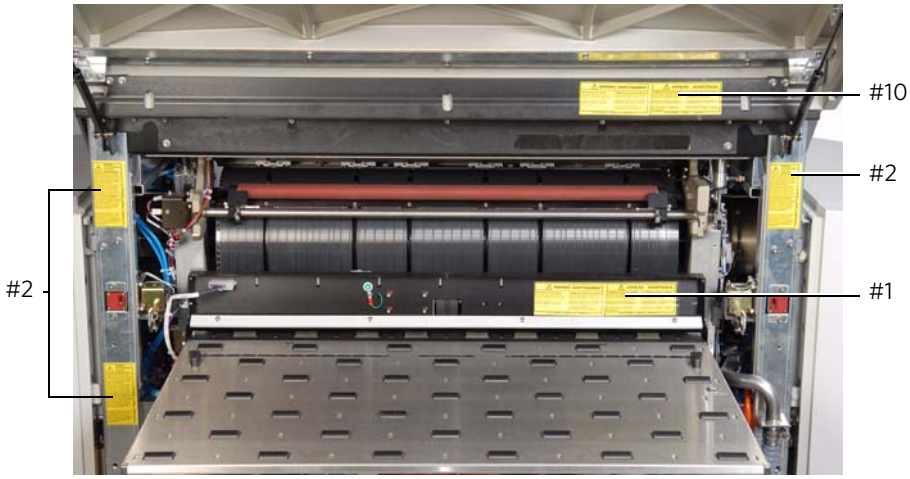


Figure 21: Front view, doors open, panels removed, with loading tray

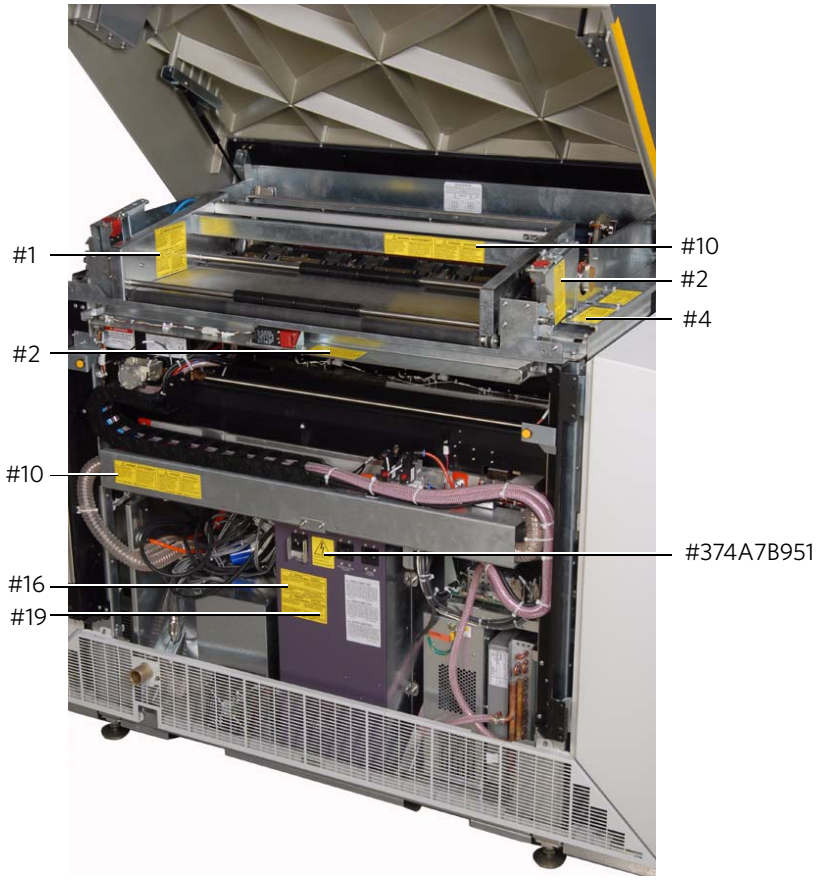


Figure 22: Rear view, doors open, panels removed, with unloading tray



Figure 23: Rear view, rear panel closed

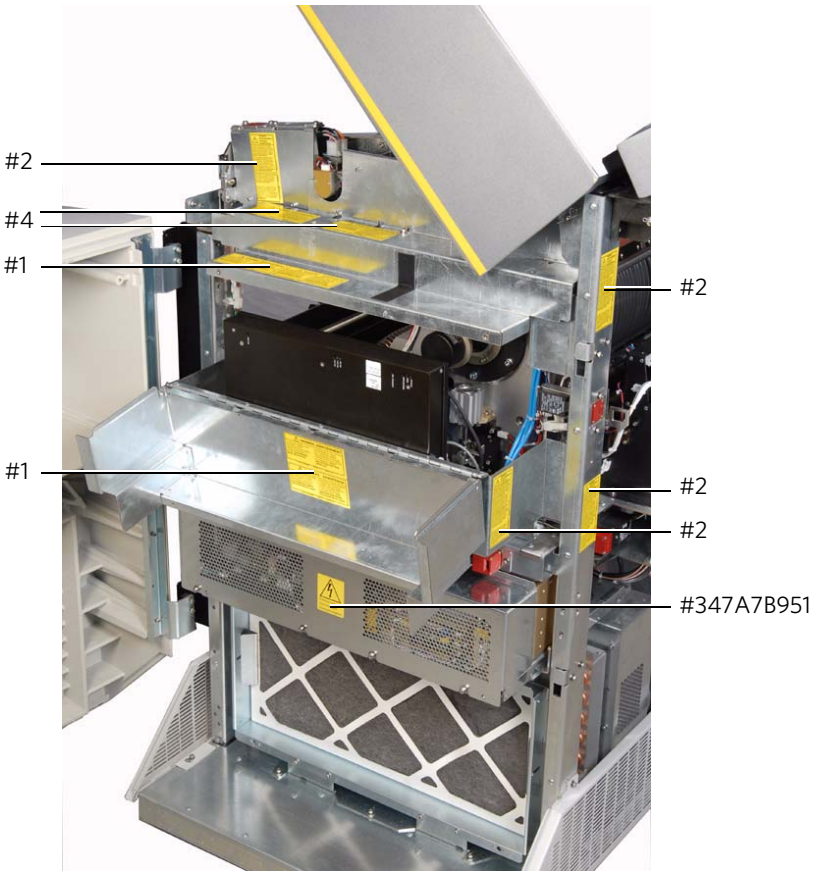


Figure 24: Magnus 400 II Quantum—left side door open

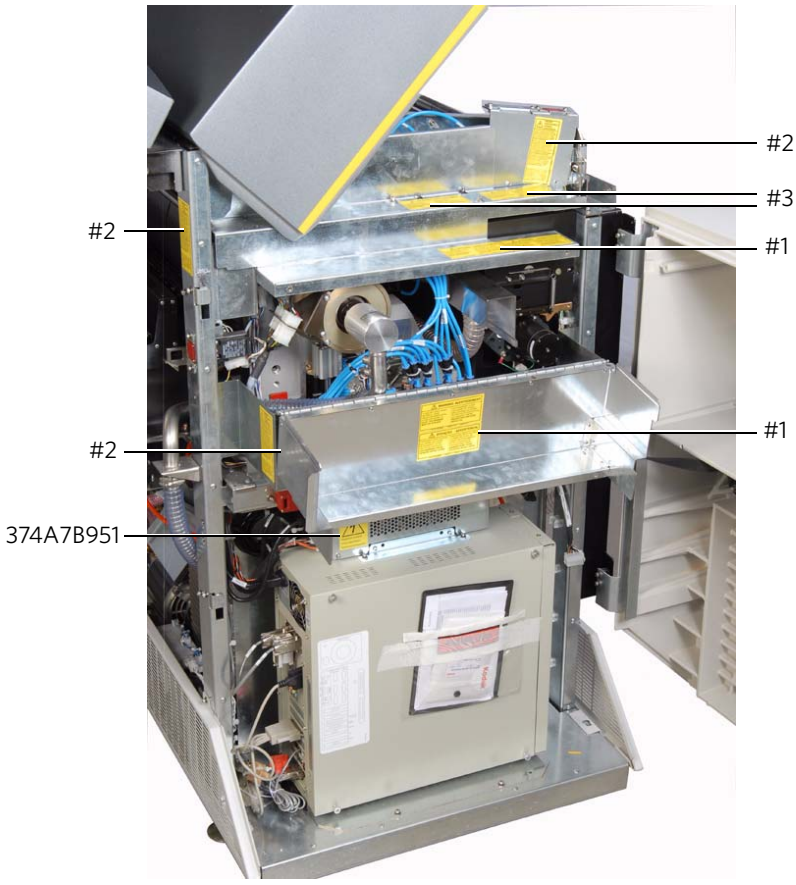


Figure 25: Magnus 400 II Quantum—right side door open

MCU II Warning Label Locations

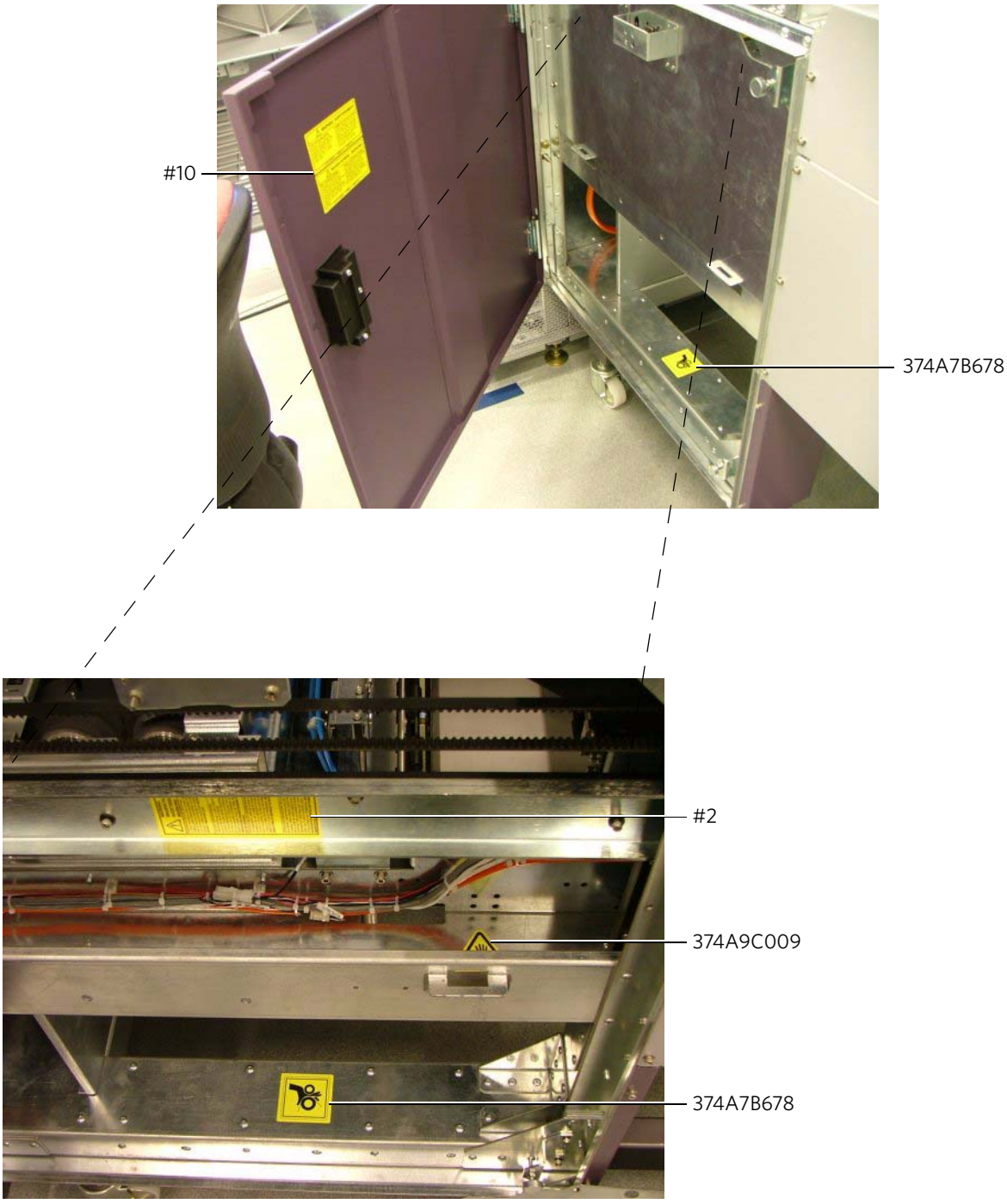


Figure 26: MCU II front and left side doors open, internal left panel removed

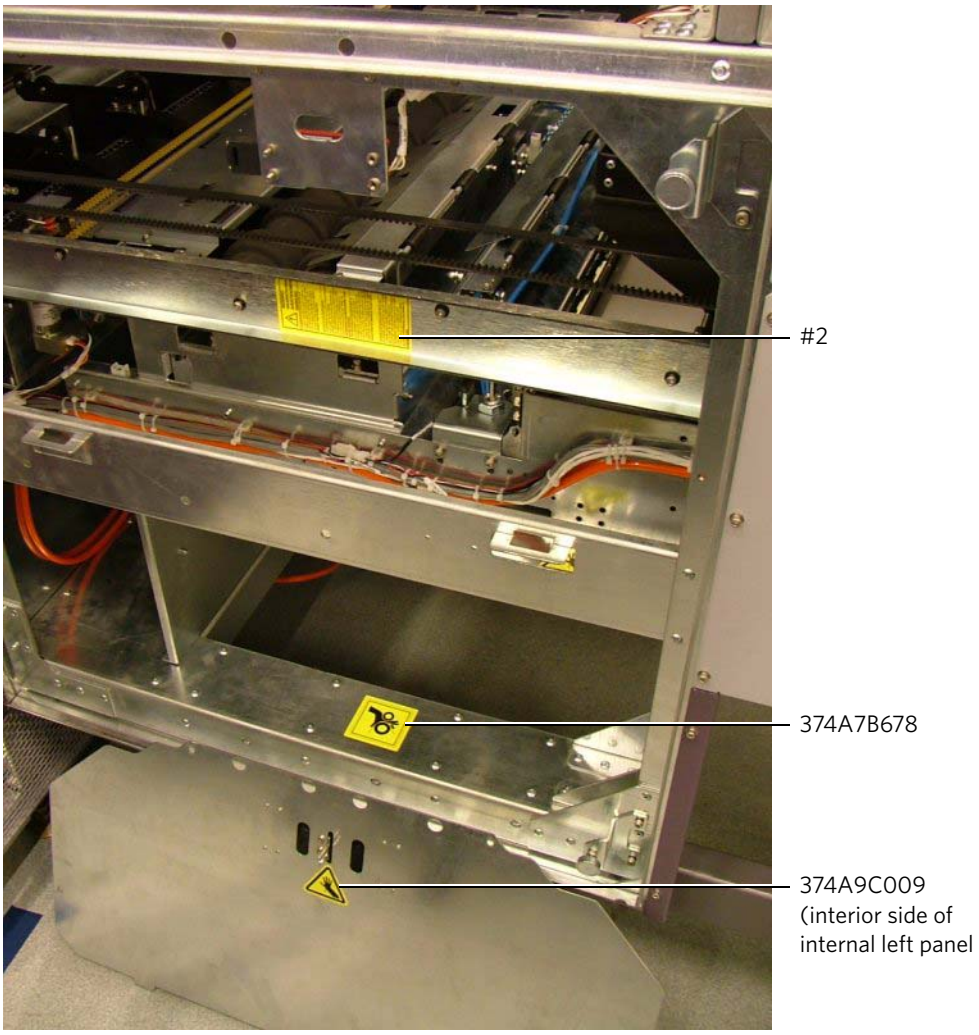


Figure 27: MCU II front and left side doors open, internal left panel removed (with view of label on the interior side of the internal left panel)

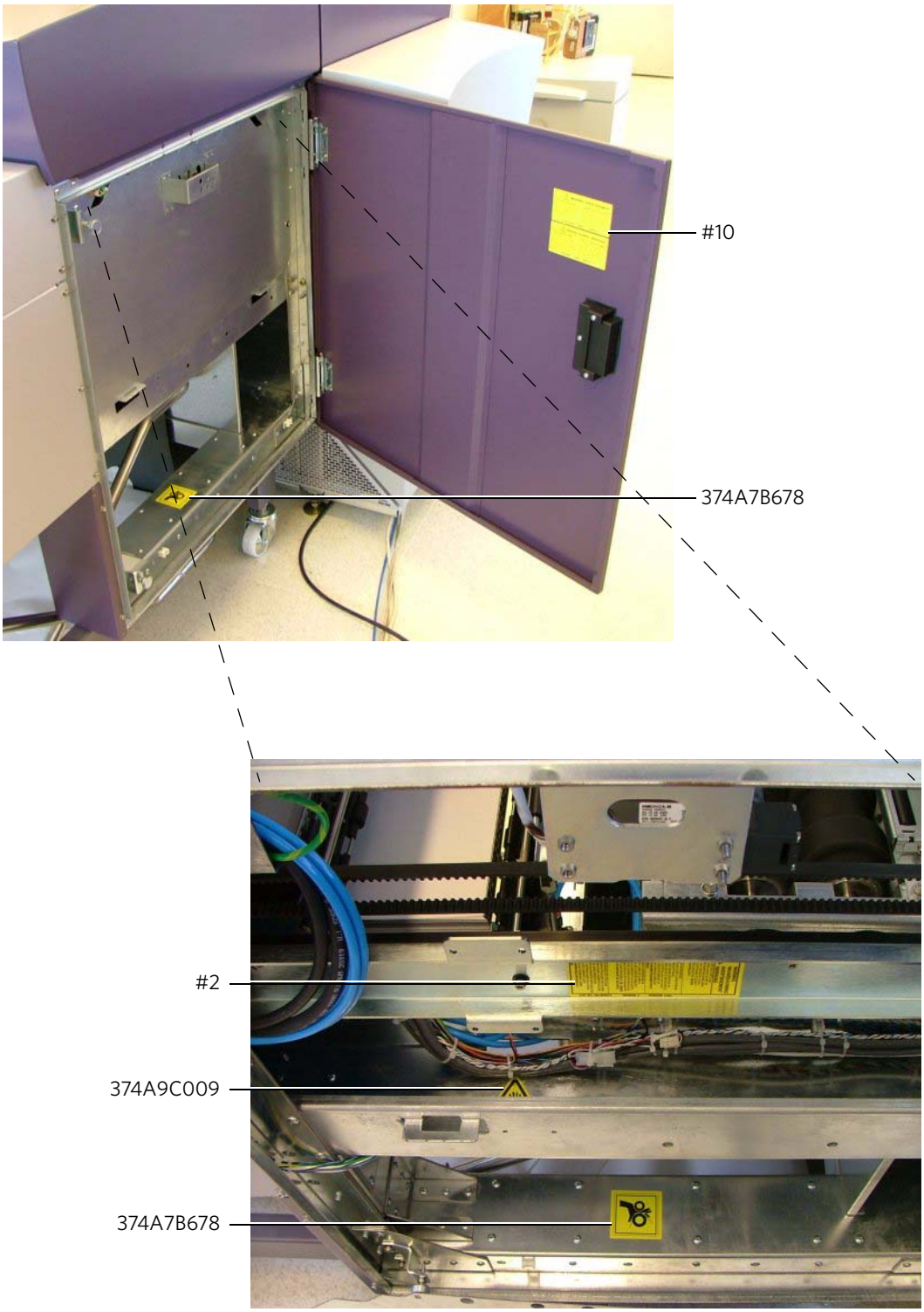


Figure 28: MCU II front and right side doors open, internal right panel removed

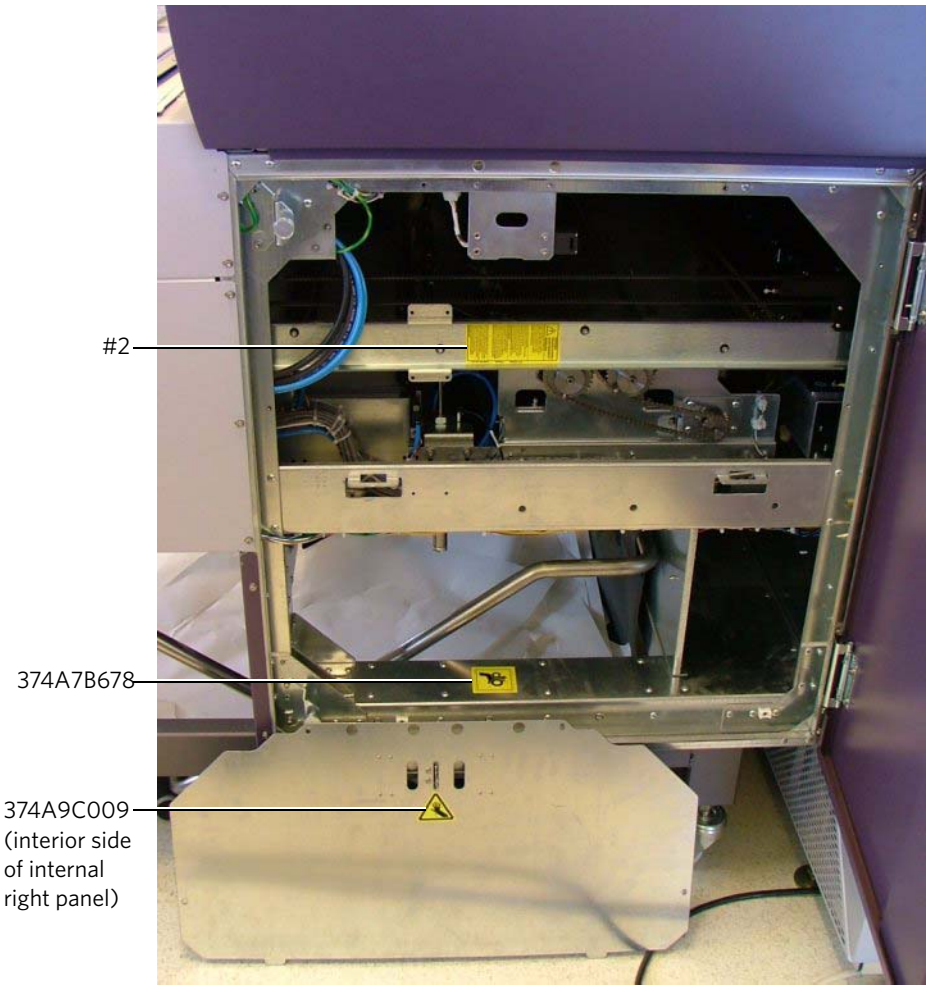


Figure 29: MCU II front and right side doors open, internal right panel removed (with view of label on the interior side of the internal right panel)

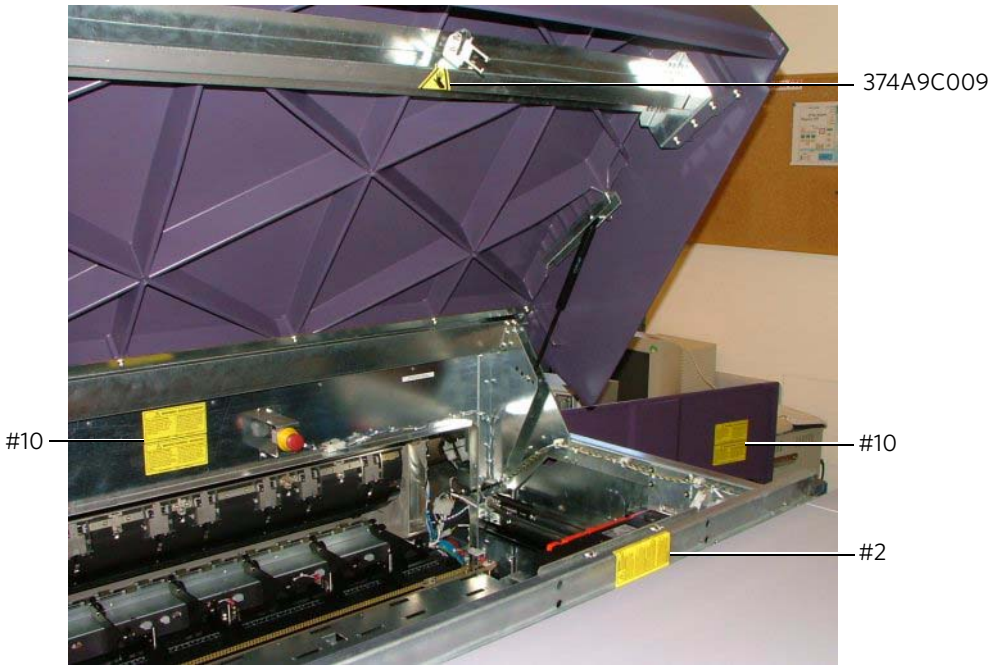


Figure 30: MCU II, front and right doors open

Punch Conveyor Warning Label Locations

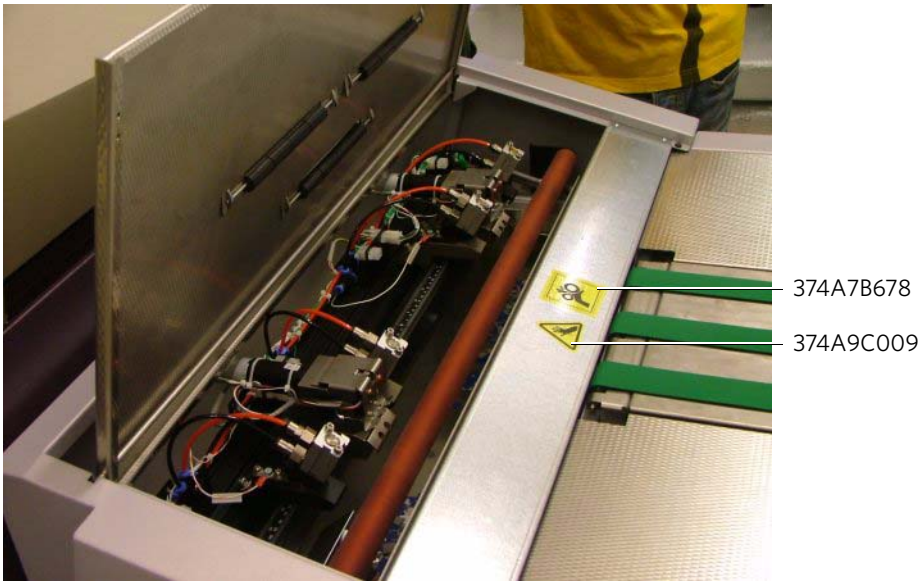


Figure 31: Punch conveyor with cover open

Kodak

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