Safety Precautions for Service Engineers

English

ThermoFlex Mid II

731-00431A-EN Rev C

www.creo.com

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D478,608	5,420,702	5,699,740	6,016,752	6,191,882	6,407,849	6,587,211
4,558,302	5,420,722	5,708,736	6,043,865	6,204,874	6,409,331	6,589,710
4,743,091	5,459,505	5,713,287	6,060,208	6,205,364	6,414,755	6,590,635
4,992,864	5,473,733	5,742,743	6,063,528	6,208,369	6,422,801	6,593,064
5,049,901	5,481,379	5,764,374	6,063,546	6,214,276	6,425,565	6,601,888
5,113,249	5,488,906	5,771,794	6,072,518	6,217,965	6,430,136	6,605,407
5,132,723	5,508,828	5,785,309	6,090,529	6,252,241	6,435,091	6,609,459
5,155,782	5,509,561	5,802,034	6,093,447	6,252,522	6,441,914	6,611,363
5,157,516	5,517,359	5,813,346	6,096,461	6,255,033	6,443,571	6,618,187
5,177,724	5,519,852	5,818,498	6,098,544	6,260,482	6,450,092	6,628,435
5,208,818	5,576,754	5,854,883	6,107,011	6,266,080	6,456,396	6,632,584
5,208,888	5,579,115	5,861,904	6,112,663	6,266,134	6,471,335	6,637,329
5,247,174	5,583,551	5,861,992	6,115,056	6,267,054	6,476,342	6,637,860
5,249,067	5,592,309	5,875,288	6,116,160	6,268,948	6,476,931	6,640,713
5,283,140	5,594,556	5,894,342	6,121,996	6,270,204	6,477,955	6,641,772
5,291,273	5,600,448	5,900,981	6,130,702	6,283,589	6,493,064	6,641,978
5,305,091	5,608,822	5,934,196	6,134,393	6,295,076	6,494,965	6,646,669
5,323,248	5,615,282	5,946,426	6,136,509	6,299,572	6,503,691	6,648,468
5,325,217	5,625,397	5,947,028	6,137,580	6,318,266	6,509,903	6,652,088
5,339,176	5,625,766	5,958,647	6,147,789	6,328,408	6,511,163	6,654,147
5,343,059	5,636,330	5,966,504	6,158,345	6,336,708	6,520,084	6,660,997
5,355,446	5,649,220	5,969,872	6,159,659	6,340,817	6,530,317	6,661,561
5,359,451	5,650,076	5,973,801	6,164,637	6,352,816	6,541,181	6,665,048
5,359,458	5,652,804	5,986,819	6,165,658	6,353,216	6,544,336	6,665,121
5,367,360	5,680,129	5,995,475	6,180,325	6,366,339	6,545,772	6,670,986
5,384,648	5,691,823	5,996,499	6,181,362	6,371,026	6,550,388	6,684,783
5,384,899	5,691,828	5,998,067	6,181,439	6,377,739	6,564,018	6,704,123
5,412,491	5,696,393	6,003,442	6,186,068	6,387,597	6,567,713	

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Introduction

Read the following safety precautions carefully before installing, operating, servicing or maintaining the ThermoFlex Mid II platesetter.



Note: ThermoFlex Mid II in this document refers to both the ThermoFlex Mid II and ThermoFlex Mid II With Magnetic Drum option, unless otherwise specified.

Extensive care was taken in the design and manufacturing of the platesetter to eliminate hazards to operators and service personnel. Follow the instructions in this chapter to ensure your safety and the safety of others when installing and servicing the platesetter.

This product is a **Class 1** laser product, according to International Safety Standard IEC60825-1 and USA regulation 21 CFR 1040. This implies that there is no hazardous laser radiation, providing that the user and service safety precautions are followed.



Note: For operator safety instructions, see *ThermoFlex Mid II Safety Precautions for User*, part number 731-00308A-EN

Symbols Used in This Manual



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



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



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



Note: A note provides additional information that you may need to consider.

Before Beginning Service

Never perform service on the platesetter until you complete the following precautions:

- Post the following sign close to the keyboard and close to the platesetter: CAUTION: machine in service–do not operate.
- Remove any clothing or objects that may get caught in a moving part of the platesetter. For example, remove ties, roll up long sleeves, remove rings and bracelets, and gather long hair.
- Remove jewelry, wristwatches, and any reflective objects from your hands, wrists and shirt. Use non-reflective tools. This reduces the risk of hazardous laser reflection in case of a failure in the laser interlock system or in a protective barrier.

General Safety Precautions

- Read the ThermoFlex Mid II Safety Precautions for User—an indispensable part of the service safety instructions.
- Many service procedures can be performed when the entire platesetter or some of its assemblies are switched off. Whenever possible, perform service when the platesetter is off.
- When the platesetter is off, use the metal bar near the main switch to prevent you or others from accidentally switching the platesetter on.
- Two yellow on/off buttons are located on the back panel on both sides of the plate exit. These buttons are *not* emergency stop buttons. Stopping the revolving drum by pressing these buttons takes about 60 seconds.



WARNING: It takes the drum about 60 seconds to stop rotating when you push a yellow on/off button or when you activate the main power circuit breaker.

- Keep all external doors and internal protective barriers of the platesetter complete and undamaged.

- Never bypass the laser interlock switches.



WARNING: The laser beam and radiation are hazardous, but are invisible to the eye.

- Avoid bypassing motor interlocks unless absolutely necessary.



Note: The drum rotation interlock is not bypassable.



CAUTION: If you must bypass the motor interlocks, use only the dedicated cheaters. Bypassing the interlock by any other means is forbidden.

- If you must handle an optical fiber or a laser diode, follow the specific service instructions for these components and do so with extreme caution. You must open a door or panel that contains an interlock to ensure that no laser radiation is present.
- Never cut or damage the optical fibers' protective tubing.
- Never allow an otical fiber to extend from the outer enclosure or even from the laser box (l-box).
- Never leave any object between the optical head and the drum.
- If there is any doubt regarding the proper function of the laser interlock system, or if you suspect that the platesetter protective cover or barrier is broken, cracked or otherwise damaged, turn off the platesetter. Do not turn the platesetter on until you have checked and fixed the problem.
- The opening of the two upper service door is controlled by a spring loaded mechanism. Make sure that your head is not near the door when opening the door.
- The horizontal slide cover (loading table) is heavy. Take care that your fingers are not hit between the closing slide cover and the machine frame.
- When removing panels, ELV wiring is exposed in the E-Box and in single fault, there may still be 300V present on the drum motor wires.



WARNING: Before removing panels, disconnect the platesetter from the electrical power supply.

Power and Electrical Safety Precautions

Many service procedures can be performed when the entire platesetter or some of its assemblies are switched off. Whenever possible, turn off the platesetter before performing service.

Electrical Safety Precautions

Electrical Safety is provided by electrical earthing of the device, electrical enclosures (earthed metal boxes that require a tool for opening), and double insulation of wires that carry hazardous voltages.



DANGER: The electrical hazards in the device are not neutralized by interlocks.

The electrical enclosures may have warning labels with the symbol of lightning in a triangular border (refer to label 374A7B951).



WARNING: Wires may be singly insulated near connectors. Do not touch singly insulated wires.

The device must be earthed.



WARNING: Do not alter the internal earthing means.

Power Line

The total power consumed by your system depends on the specific site configuration. Remember to allow sufficient margin for system expansion when calculating the required electrical capacity.

ThermoFlex Mid II platesetter connections:

- Connector (male and female) supplied by the customer
- One 3Ph outlet—208V/120 Vac ±10%, 3 phase (Star) + neutral + GND, 20A.
  Frequency—50/60 ±2%
- For line power of 230 Vac—step-down transformer from 346/200, 380/220, 400/230 or 415/240 to 208/120V (3Ph) + neutral + GND, part number 160-00001 must be used. The correct wire (tape) must be connected inside the transformer, depending upon the actual line voltage measured at the site.
- To protect the transformer, a 3-pole circuit breaker must be provided in the power line that feeds the transformer. The circuit breaker must be rated: 10KA IEC 947.2, 230/400 VAC, 16A, tripping curve D or K.



WARNING: There is a hazard of fatal electric shock if a safety ground is not provided!



WARNING: The E-box fuse holder incorporates Double Pole / Neutral Fusing



Note: For Norway only, equipment is suitable for use on an IT power system, which must include the external transformer as part of the entire system.

UDRC connection for the ThermoFlex Mid II:



Note: See the UDRC Site Preparation Guide.

Other electrical connections for the ThermoFlex Mid II:

- Two power supply connections for the workflow workstation and ThermoFlex Controller monitor—120V +6% -10% or 230V ±10%, 16A
- Additional isolated single-phase outlet for service purposes

Disconnection from Mains Supply

The platesetter has circuit breakers that disconnect power from the entire platesetter, or from one of its assemblies.

Description	Location
Main power switch	distribution box
Drum motor power	distribution box
Drum vacuum pump power	distribution box
L-box power	L-box cover

Table 1: Circuit breakers and their locations.



WARNING: Complete disconnection from the mains supply can only be achieved by setting the switch of the main power circuit breaker to **0** or by unplugging the main power cable from the wall power outlet.

Precautions to take when servicing boards or power supply:

- Turn off the power by setting the main power switch on the distribution box to 0.
- Use the metal bar near the main switch to prevent you or others from accidentally switching on the power
- Wear an anti-static wrist band
- Do not touch any unit with bare hands
- Verify that you are using the correct test point

Lithium Battery

The CPU board in the platesetter contains a Lithium battery.



WARNING: Danger of explosion if battery is incorrectly replaced.

The battery **must not** be replaced by the user. Only qualified service personnel, are allowed to replace the battery.

Precautions to take when replacing the battery:

- Turn off the power by setting the main power switch on the distribution box to 0
- Use the metal bar near the main switch to prevent you from accidentally switching on the power
- Follow the battery manufacturer's instructions
- Replace the battery with the same or equivalent type recommended by the manufacturer
- Never short the battery terminals
- Install the new battery in the correct polarity
- Dispose of the used battery according to the manufacturer's instructions

Drum Safety Precautions

The ThermoFlex Mid II platesetter drum revolves at approximately **200** revolutions per minute. If an object hits the rotating drum, the object may get dislodged inside the platesetter and cause damage (including damage to the safety system, optical head or optical fibers), or damage the platesetter enclosure.



WARNING: Do not leave any loose object, tool or part inside or on the platesetter enclosure. A loose object inside the enclosure may be hit by the rotating drum and casue a safety hazard.

The plates are loaded onto the drum and unloaded from the drum manually. Special safety precautions prevent rotation of the drum while the operator is loading or unloading media.

To prevent the operator or service engineer from accessing the drum while the drum is revolving, the following doors and covers are equipped with solenoids that lock the doors and covers in a closed position. After a command is issued from the workstation, only when the drum has stopped revolving, the solonoids unlock these covers.

- Loading table
- Front panel
- Service door



WARNING: When you open the loading table, front panel, or service door from the workstation, if the drum is not completely stationary within 3 seconds after the door is unlocked, you must repair the device.



WARNING: If you bypass the motor interlocks, all motors, except the drum motor, can work.



WARNING: Stopping the drum by pressing one of the two yellow on/off buttons causes the drum to stop rotating after about one minute.

The platesetter may be equipped with a magnetic drum. A strong magnetic force exists close to the magnetic drum that enables plates to stay attached to the revolving drum.



CAUTION: A strong magnetic field exists close to the drum. Remove your wristwatch and any other metal objects before getting close to the drum.



WARNING: Make sure that no parts or tools become attached to the drum by the magnetic force.

Precautions to take when accessing the drum area:

- Before performing service, remove any piece of clothing or 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.
- Before performing service, remove any jewelry or metal object that may become attached to the magnetic drum.
- If you must insert your fingers or hands anywhere near the drum, take care not to get them caught in the narrow gaps in the drum area

Safety Interlocks

Safety interlock switches provide protection against the severe laser and mechanical hazards, provided that you follow all the safety precautions in this document.

The interlock switches are located on the loading table, the service door, the right and left side doors, and the front and rear panels of the platesetter (see Table 2). When any of the doors, loading table, or panels are opened, the interlock switches disconnect power from the laser system, drum motor and other motors (but not from the fans and the vacuum pump).

Location	Function	Description	Serviceman Bypass
Front panel	disable lasers and motors	2 interlock switches	no
Loading table	disable lasers and motors	1 interlock switch	no
Left door	disable lasers and motors	1 interlock switch	no
Right door	disable lasers and motors	1 interlock switch	no
Service door	disable lasers and motors	2 interlock switches	no
Service door	enables all motors, except the drum motor	1 bypass switch	yes
Rear upper panel	disable lasers and motors	1 interlock switch	no
Rear lower panel	disable lasers and motors	1 interlock switch	no

Table 2: Interlock types and locations

Laser Interlocks

The laser interlock system is equipped with a buzzer. If a failure is detected in the operation of the laser interlock system, the buzzer is activated and the laser is shut off. However, not every possible failure in the interlock system can be detected.



DANGER: The service engineer is forbidden under any circumstances to bypass any of the laser interlock switches.



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



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



WARNING: If there is any doubt regarding the proper function of the laser interlock system, or if you suspect that the platesetter protective cover or barrier is broken, cracked or otherwise damaged, turn off the platesetter. Do not turn the platesetter on until you have checked and fixed the problem.

Motor Interlocks

The service engineer is allowed to bypass the motors , except for the drum motor, with the intended bypass switch located on the service door.

Bypass interlock switches only after taking appropriate safety measures.



Important: If you must bypass the motor interlocks, use only the dedicated cheaters (part number 290B2P411) that are supplied for ThermoFlex service. Use of any other interlock cheater is unsafe and forbidden.

Laser Safety Precautions



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

The platesetter is equipped with a highly hazardous multi-beam laser system that exposes the media. However, the platesetter as a whole is a Class 1 laser product, according to International Safety Standard IEC60825-1 and USA regulation 21 CFR 1040. This implies that the operator and service engineer cannot access hazardous laser radiation, providing that the safety precautions are followed.



WARNING: The laser beam and radiation are invisible to the eye, but are highly hazardous.



WARNING: The laser beam and radiation of the platesetter are invisible and are hazardous to the eye and skin. In the presence of flammable material, the laser beam is also a fire hazard! 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.

General Laser Precautions



WARNING: Never bypass the laser interlock switches.



WARNING: In the presence of flammable material, the laser beam is also a fire hazard.



WARNING: If there is any doubt regarding the proper function of the laser interlock system, or if you suspect that the platesetter protective cover or barrier is broken, cracked or otherwise damaged, turn off the platesetter. Do not turn the platesetter on until you have checked and fixed the problem.



WARNING: If you must enter the room where the platesetter is located when the platesetter is on, and you suspect that any of the following precautions were somehow violated, then you must disconnect the power supply to the platesetter before entering the room.

Enclosures

Together with the Laser interlock system, the enclosures are designed to protect anyone near the platesetter from exposure to laser radiation by enclosing the radiation within the platesetter. Enclosures include the external doors and panels, and internal protective barriers. The internal barriers prevent laser radiation from escaping through the loading/ unloading openings and through the ventilation openings on the side doors and panels. This protection depends on the completeness and correct assembly of the outer enclosure and internal protective barriers.



WARNING: After performing any service activity and before switching **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.



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

Laser Box

The laser box on the left side of the platesetter contains the laser diodes that generate the hazardous laser radiation. Each laser diode is connected to an optical fiber that conducts the laser radiation. The fibers form a bundle of fibers that is routed inside a plastic tube out of the laser box and towards the laser plotting head.



WARNING: Never activate the platesetter when the laser box is not in its proper location, and the laser box door closed and properly fastened.



WARNING: Never activate the platesetter unless you make sure that all the laser fibers are properly connected and routed, and no optical fibers emerge from the laser box, or from the plastic tube.

Precautions to take when servicing the laser box or replacing a faulty laser diode:

- Shut down the circuit breaker on the outer cover of the laser box.
- A door or panel with an interlock must be open while you are handling the laser box or diodes to ensure that no laser radiation is present.
- Always use the static electricity discharge tool (located inside the laser box) before servicing inside the laser box or working with the laser diodes.
- Follow the specific service instructions for these components and do so with extreme caution.
- Before operating the platesetter, verify that all optical fibers are complete, not cut or broken, and not abruptly bent.
- When closing the laser box door, make sure you do not damage any of the fibers.
- Do not cut or damage the optical fibers' plastic tubing.
- Never allow an optical fiber to extend fromt he laser box, nor from the plastic tubing.

Optical Fiber Bundle

The optical fiber bundle, routed inside the plastic tubing, conducts the hazardous laser radiation from the laser box to the laser head.

The optical fibers inside the plastic tubing must be complete, not cut or broken, and not abruptly bent.

Precautions to take when handling an optical fiber bundle:

- Do not cut or damage the optical fibers' plastic tubing.
- Never allow an optical fiber, even if not cut, to extend from the plastic tubing.



DANGER: If the platesetter is on and an optical fiber extends from the enclosure, or if a fiber is damaged inside or outside the laser box or the plastic tube, and even when the doors are closed, invisible laser radiation of up to a watt at a wavelength of 810-860 nanometers may be present. Even brief exposure of the eye to this radiation or its reflection from shiny or matte objects can cause permanent degradation or permanent loss of eyesight!

Laser Head

Several tens of watts of hazardous invisible laser radiation at a wavelength of 810-860 nonometers may be present at the output of 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.



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



DANGER: Several tens of watts of invisible laser radiation at a wavelength of 810-860 nanometer may be present at the output of the Laser head. This laser radiation is hazardous to the eye and skin. Even brief exposure of the eye to this radiation or to its reflection from shiny or matte objects can cause permanent degradation or permanent loss of eyesight!

Debris Removal System

The Debris removal system, a separate component connected to the platesetter, is part of the ThermoFlex Mid II configuration. The Debris removal system contains a filtering device that extracts dust, fumes, contaminants and solvent vapors that appear within the platesetter during normal operation and need to be removed.



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



WARNING: Please refer to the Debris Removal System Manufacturer's Operating and Safety Instructions.

Appendix 1: Warning Labels

The following pages show the laser and other warning labels, and their locations.

Note: When a language other than English is spoken, stick the translated labels (supplies with the platesetter) in the relevant locations.

The warning labels are provided for user and service personnel safety. Do not fail to comply with the warnings!



Label 1: 382-00888A



Label 1: 382-00889A



Label 2: 382-00956A



Label 5: 382-00980A



Label 5: 382-00981A



Label 8: 382-00905A



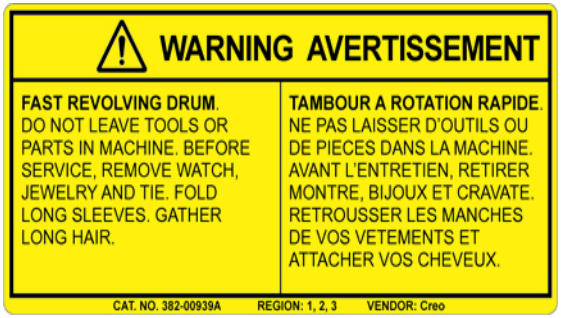
Label 8: 382-00906A



Label 9: 382-00922A



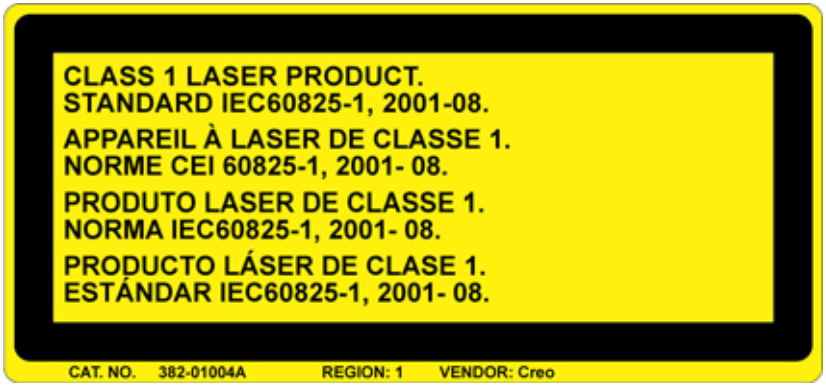
Label 9: 382-00923A



Label 10: 382-00939A



Label 10: 382-00940A



Label 12: 382-01004A



Label 16: 382-01016A



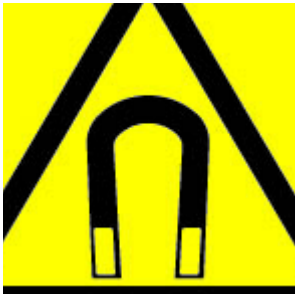
Label 19: 382-01028A



374A7B951



374A63678



382-00744A



382-001146A



382-01210A



382-01209A

Appendix 2: Warning Label Locations

See the following figures for locations of warning labels on the ThermoFlex Mid II platesetter.

Make sure that all warning labels are in good order. Renew warning labels if needed.

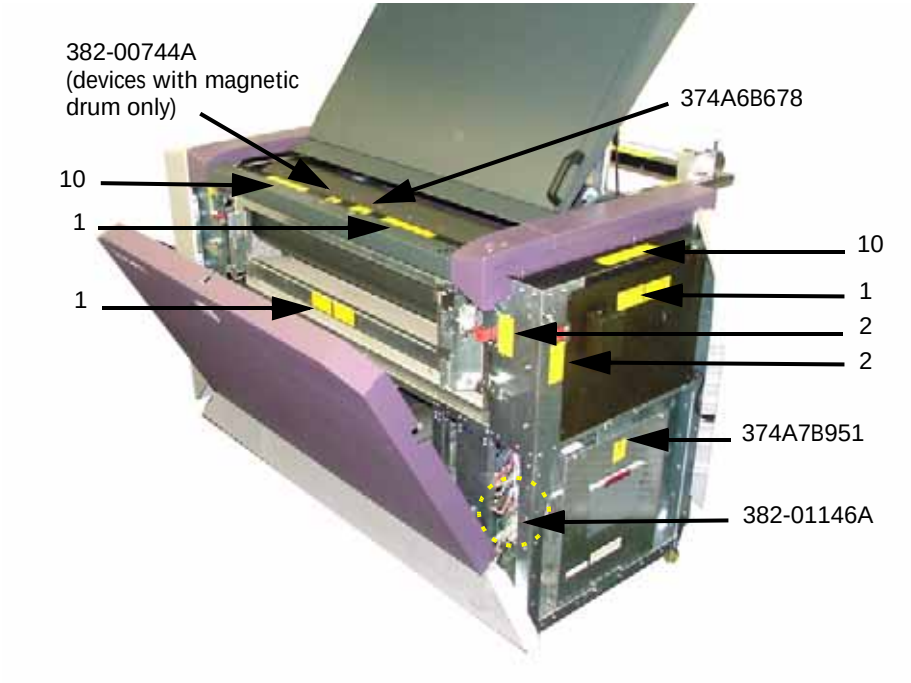


Figure 1: Front panel , right side door, and service door open



Figure 2: Operator panel removed

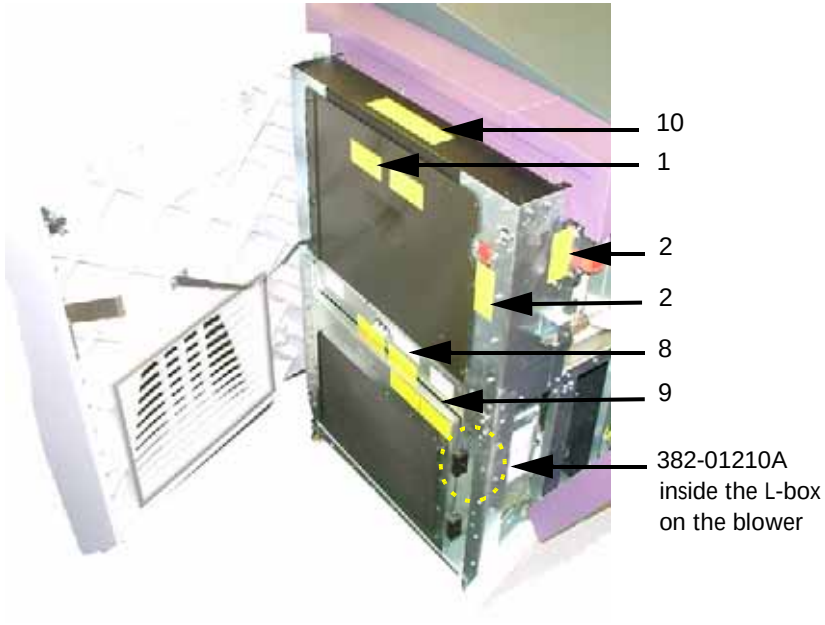


Figure 3: Left side door open

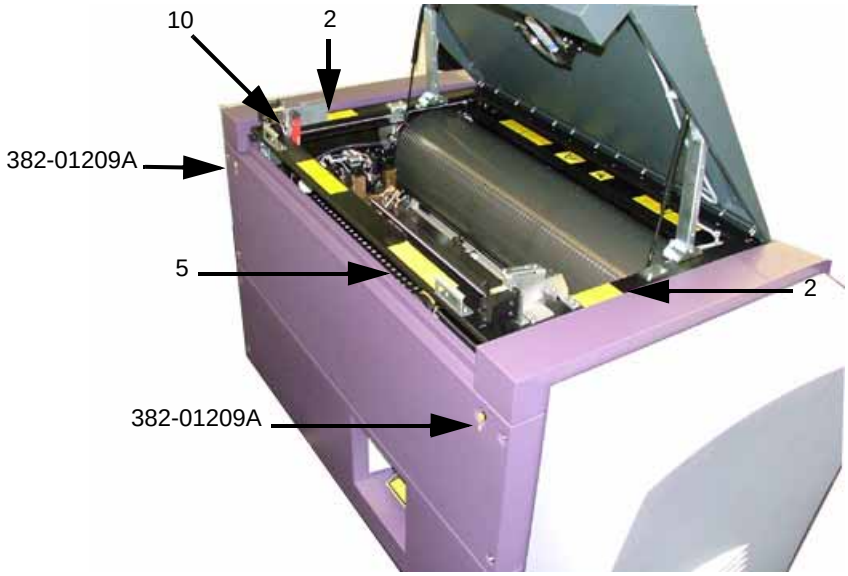


Figure 4: Rear view with the service door open

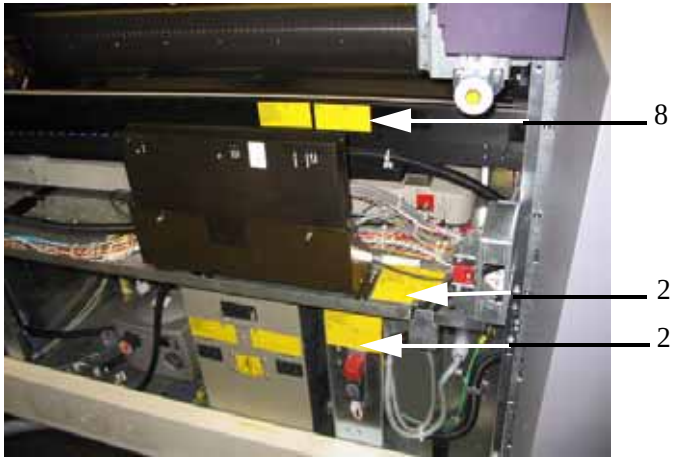


Figure 5: Rear panel removed

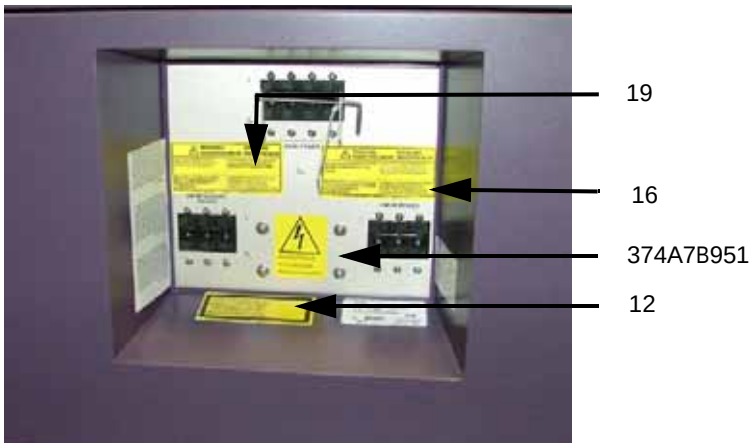


Figure 6: Distribution box