Safety Precautions for Engineer

English

Lotem 800 II Family

653-00194A

www.creo.com

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This product is covered by one or more of the following U.S. patents:

RE37,376	5,283,140	5,517,359	5,699,740	5,969,872	6,134,393	6,283,589
4,456,924	5,291,273	5,519,852	5,708,736	5,973,801	6,136,509	6,295,076
4,500,919	5,323,248	5,526,143	5,713,287	5,986,819	6,137,580	6,299,572
4,558,302	5,325,217	5,532,728	5,742,743	5,995,475	6,147,789	6,318,266
4,743,091	5,339,176	5,561,691	5,764,374	5,996,499	6,158,345	6,340,817
4,992,864	5,343,059	5,568,595	5,764,381	5,998,067	6,159,659	6,352,816
5,049,901	5,355,446	5,576,754	5,771,794	6,003,442	6,164,637	6,353,216
5,079,721	5,359,451	5,579,115	5,785,309	6,014,471	6,180,325	6,366,339
5,081,617	5,359,458	5,592,309	5,802,034	6,016,752	6,181,362	6,371,026
5,103,407	5,367,360	5,594,556	5,813,346	6,031,932	6,181,439	6,377,739
5,111,308	5,384,648	5,600,448	5,818,498	6,043,865	6,186,068	6,387,597
5,113,249	5,384,899	5,608,822	5,854,883	6,060,208	6,189,452	6,396,422
5,122,871	5,412,491	5,615,282	5,861,904	6,063,528	6,191,882	6,396,618
5,124,547	5,412,737	5,625,766	5,861,992	6,063,546	6,204,874	6,407,849
5,132,723	5,420,702	5,636,330	5,875,288	6,072,518	6,208,369	6,414,755
5,150,225	5,420,722	5,649,220	5,894,342	6,090,529	6,214,276	6,422,801
5,153,769	5,459,505	5,650,076	5,900,981	6,096,461	6,217,965	6,435,091
5,155,782	5,473,733	5,652,804	5,934,196	6,098,544	6,252,522	
5,157,516	5,481,379	5,680,129	5,942,137	6,107,011	6,260,482	
5,208,818	5,488,906	5,691,823	5,946,426	6,112,663	6,266,080	
5,208,888	5,497,252	5,691,828	5,947,028	6,115,056	6,266,134	
5,247,174	5,508,828	5,696,393	5,958,647	6,121,996	6,267,054	
5,249,067	5,509,561	5,699,174	5,966,504	6,130,702	6,268,948	

Creo Inc.
3700 Gilmore Way
Burnaby, B.C., Canada
V5G 4M1
Tel: 1-604-451-2700
Fax: 1-604-437-9891

http://www.creo.com

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Introduction

Read the following safety chapter carefully before installing, operating, servicing or maintaining the Lotem 800 II Family platesetter.

Read the user laser and safety precautions for the Lotem 800 II platesetter, an indispensable part of the service engineer's precautions. Please see *Lotem 800 II Family Safety Precautions for User,* 399Z3P854A.

This product is a **Class 1** laser product, according to IEC825-1 and USA 21 CFR 1040. This implies that there is no hazardous laser radiation, providing that the user and service safety precautions are followed.

Lotem 800 II Family safety at a glance - how to avoid exposure hazards?



WARNING ! The laser beam and radiation are invisible to the eye.

1. Never operate or electrically connect the Laser Thermal Head unless it is properly installed inside the platesetter.
2. Keep all external doors and internal protective barriers of the platesetter complete, unharmed and intact !
3. Never defeat the Write Laser interlock switches ! Motor or focus interlock switches may be defeated following safety instructions!
4. Never leave any object between the Laser Thermal Head and the drum.
5. Do not operate the platesetter if there is any doubt regarding the above.

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

Follow the instructions in this chapter to ensure your safety and the safety of others when installing and servicing the platesetter. These instructions are also required for the user's safety.

General Safety Precautions

1. Whenever servicing the platesetter, post the following sign close to the keyboard and close to the platesetter: **CAUTION**: machine in service – do not operate. This sign will caution people from operating the platesetter while it is being serviced.
2. Many service procedures can be performed when the entire platesetter or some of its assemblies are switched off. Service the platesetter when **off** whenever possible (see *Disconnection from Mains Supply* further on).
3. Never operate or electrically connect the Laser Thermal Head unless it is properly installed inside the platesetter.
4. **The service engineer is not allowed under any circumstances to defeat any Write Laser interlock** !
5. While taking appropriate precautions, the service engineer is allowed to defeat the Laser focus and Motor interlock switches. Do so **only** when no alternative service option is possible.
6. Three readily accessible yellow pushbuttons are provided for disconnecting power from the mechanical hazards existing in the platesetter. Two yellow On/Off pushbuttons are located on the external front side, on both sides of the platesetter; these disconnect power from the platesetter units, but **not** from the fans.

   Another pushbutton is centrally located below the upper front door; it activates the motor interlocks, even if the interlock is defeated. When the pushbutton is pushed, power is disconnected from the motors, including the drum motor.



WARNING ! Injury hazard! The drum will **not stop** immediately when the yellow on/off pushbutton is pressed or the main power circuit breaker is activated.

7. Prior to service, remove any piece of clothing or object that may get caught in the revolving drum or in any other moving part of the platesetter. For example, remove ties, roll up long sleeves, remove rings and bracelets, and gather long hair.
8. Remove jewelry, wristwatches and reflective objects from your hands, wrists and shirt, and use non-reflective tools. This measure reduces the chance of hazardous laser reflection if a failure occurs in the Laser interlock system or in a protective barrier.

9. If there is any doubt regarding the proper functioning of the Laser interlock system, or whenever you suspect that the platesetter protective cover or barrier is broken, cracked or otherwise damaged, you must turn the platesetter **off and not turn it on** again until it is checked and found to be **OK**.

Installation and Service Personnel

Installation or service must be performed only by authorized service personnel.

The Lotem 800 II platesetter is 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, vacuum, and electrical systems of the platesetter.



WARNING ! Only certified service personnel are allowed to install or service the Lotem 800 II platesetter.

Installation

Power Line and Safety Ground

Refer to the *Lotem 800 II Family Site Preparation Guidelines,* 399Z3R876A, also located on Tech Planet.

For platesetter - line voltage 208V/120V ±10%, 3 phase (Star) 20A, 50/60 Hz ±2%; for Brisque and PC Controller - 120V ±10% or 230V ±10%; frequency - 50/60HZ ±2%.

Only for customers with line power of 230V - a step-down transformer is used, from 346/200, 380/220, 400/230 or 415/240 to 208/120V (3 phase).



NOTE: To protect the transformer, a 4 pole (3 phase and neutral) circuit breaker must be provided in the power line that feeds the step-down transformer. The circuit breaker must be rated: 10KA IEC 947.2, 230/400 VAC, 16A, tripping curve D (such as, Cat no. 24688 by Merlin Gerin).



WARNING ! Hazard of fire and electric shock if circuit breaker is missing!

NOTE: The power line connection **MUST** include 5 pins: 3 Phases, Neutral and safety Ground. Where the step down transformer is used, the 3 phases, Neutral and Safety Ground are provided through the step-down transformer.

DANGER ! Hazard of fatal electric shock if safety ground path is interrupted!

Disconnection from Mains Supply

The Distribution box at the lower front panel of platesetter has three (3) circuit breakers - main power (in the center), drum power and drum vacuum pump circuit breakers. An Additional circuit breaker is on the Electronic box inner cover. Two yellow On/Off pushbuttons are located on both sides of the front panel.

- Before dismantling any board or power supply, shut down the **Main power circuit breaker** on the Distribution box or the E-box circuit breaker (if only the E-box is opened).
- Whenever adjusting or checking an electrical board/unit, verify that you are using the correct test point. Do not touch any unit with bare hands.

WARNING ! Total disconnection from the mains supply can only be achieved by deactivating the Main power circuit breaker (set to “0”), or by unplugging the 5 pin Main power cable from the 3 phase power supply.

Non-English Warning Labels

Where a language other than English is spoken, the service engineer must stick the translated warning labels (attached to the platesetter) according to the country of installation, in the designated locations. The translated labels have the letter ‘K’ in the catalog number.

Basic & Laser Safety Precautions

The basic and laser safety precautions section includes the following topics:

- Thermal Imaging Head
- Enclosures
- Safety Interlocks
- Warning labels

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

DANGER ! The above **CAUTION** note must be included in this manual according to USA 21CFR regulations. However, the hazards involved include not moderate, but **SERIOUS** bodily injury - especially to the eye!

The platesetter is equipped with a **highly hazardous laser system** that exposes the media. However, the platesetter as a whole is a **Class 1 laser product**, according to IEC825-1 and the USA 21 CFR 1040. This implies that the operator and service engineer cannot access hazardous laser radiation, providing that the user and service safety precautions are followed.

WARNING ! The laser beam and radiation of the platesetter contain invisible and visible components, both 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 !**

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 on, and you suspect that any of the following precautions was somehow violated, then you must **disconnect** the power supply to the platesetter before entering the room !

Thermal Imaging Head & Focus Laser Alignments

The Lotem 800 II has a **highly hazardous Laser Thermal Imaging Head inside** that exposes the media. The Imaging Head uses two separate laser emitters:

- invisible write laser
- visible (red) auto focus laser

Write Laser

The **write laser** beam is invisible to the eye (class IV, approx.830 nm).



DANGER! Do not operate Thermal Imaging Head outside the platesetter or with any doors or panels open, nor bypass any of the laser safety mechanisms. The laser output can cause severe and permanent eye and skin damage and is a fire hazard in the presence of flammable materials.

The **write laser** interlocks are never to be defeated either by operator or service personnel!

Auto Focus laser

The **auto focus laser** is visible (red) (class IIIB, approx. 670 nm).



DANGER ! Do not look directly or indirectly into the auto focus laser. The laser radiation can cause permanent eye damage if reflected directly or indirectly into the eye.

The **focus laser** interlock may be defeated by authorized service personnel **only**. Defeat method and safety precautions are as follows:

1. Only authorized service engineers are allowed to defeat the platesetter interlocks. Focus laser defeat is allowed for focus alignment **only**.
2. Use both defeater 1 and 2 together to defeat the Focus laser interlock.
   - Defeater 1 defeats the mechanical interlock system. Avoid mechanical hazards.
   - Defeater 2 defeats the focus laser interlock system, provided that defeater 1 is also activated.

3. To avoid exposure to the focus laser during focus alignment, the service engineer must ensure, prior to insertion of defeater 2, that the focus laser beam originated from the laser head will not be hazardously reflected by any object. It should **only** hit the plate placed on the drum directly. To ensure this, the service engineer must:
   - Make sure that a plate is properly wrapped on the drum and held by grippers.
   - The carriage and the drum are static and oriented so that the beam hits the plate in the middle of the plate, far from the grippers and the plate edges.
4. The service engineer must stand so the beam path between the head and the drum is concealed by the head enclosure. That is, he should stay behind the laser head either watching the alignment LED's located in the head or the monitor screen.
5. Beware of mechanical hazards when the mechanic interlock is defeated.
6. The service engineer must ensure that anyone else staying in the room while the platesetter's interlocks are defeated also follows these safety instructions.



DANGER ! The service engineer must never leave the platesetter while interlocks are defeated!

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 protective barriers prevent the laser radiation from escaping through the platesetter loading/ unloading openings and through the ventilation openings on the side doors or lower panels. This protection depends upon the completeness and correct assembly of the outer enclosure and the internal protective barriers.

CAUTION ! The opening of the two upper doors is controlled by a spring loaded mechanism. Make sure your head is **not near** the door when opening the door.

WARNING ! After performing any service activity and before switching the platesetter on, the service engineer must check and ensure that all external and internal enclosures 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 doors closed, then visible or 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 !**

Safety Interlocks

Interlock switches are designed to disconnect power from **both** the Write and Auto Focus Laser sources and from mechanically hazardous parts when one of the doors is opened or the rear upper panel is removed.

WARNING ! The service engineer is forbidden under **any** circumstances to **defeat** any of the Write Laser interlock switches.

All doors (upper and side doors) and the upper rear panel have interlock switches that disable the laser sources and the motors.

The upper doors have 2 interlock switches each. The side doors have one interlock switch each. The upper rear panel also has only one interlock switch. In order not to rely on the reliability of a single switch, **the serviceman is required to keep one of the upper doors open if a side door or the rear panel is open**.

The service engineer is allowed to defeat the motors and auto focus laser interlock switches, only after taking appropriate safety measures.



WARNING ! If you must defeat the focus or motor interlocks, you are **not allowed** to use any other means except the dedicated cheaters (Creo No. 290B8L064) that are supplied for the use of the *Lotem 800 II / Lotem 800 Quantum* service. Use of any other interlock cheater is **unsafe** and **forbidden**.



CAUTION ! The service engineer is also allowed to defeat the cassette inlet opening magnetic interlock switch and the two paper door interlock switches, using an intended magnet or defeater respectively.

Interlock Functions and Locations

Interlock Location	Interlock Function	Number of interlock and defeater Switches	Serviceman only Defeat Allowances
Upper rear door	Disable Lasers and Motors	2 interlock switches 1 defeat switch	Defeat switch only - to operate motors
Upper front door	Disable Lasers and Motors	2 interlock switches	None
Upper rear panel	Disable Lasers and Motors	1 interlock switch. 1 defeat switch	Defeat switch only - to operate Focus Laser if upper door defeater is defeated too
Left door	Disable Lasers and Motors	1 interlock switch	None
Right door	Disable Lasers and Motors	1 interlock switch	None
Cassette inlet opening	Disable motors only	1 defeatable interlock magnetic switch	Interlock magnetic switch - to operate motors
Left and Right side paper doors	Disable paper disposal motor only	1 defeatable interlock switch at each paper door	Interlock switch - to operate paper disposal motor

NOTE: In the above table, front side refers to the loading side of the platesetter. Rear side refers to unloading side of the platesetter. Upper doors may also be referred to as upper covers.

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.

DANGER ! If a door or panel is open and if interlock switch is defeated, or if the interlock system failed, then severe **mechanical hazards** and visible and/or 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 laser radiation or its reflection from shiny or matte objects can cause permanent degradation or permanent loss of eyesight !**

WARNING ! It may take up to two seconds for the Laser interlock system to shut off the laser sources. Therefore, when opening a door or a panel or stop defeating an interlock switch, do not rush to access inside the platesetter !

DANGER ! Never leave the platesetter while an interlock switch is defeated!

Warning Labels

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

NOTE: The catalog numbers for English labels contain the letter A; all other languages contain the letter K instead. For example, cat. no. 374A8L697 is the English label; cat. no. 374K8L697 is for all other languages. The following labels show the English catalog numbers.
Some labels have the same text but the label shape or size is different. Therefore these labels have different catalog numbers.

DANGER

HAZARDOUS MOVING PARTS AND VISIBLE AND/OR INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION.

ONLY MECHANICAL AND FOCUS LASER INTERLOCKS MAY BE DEFEATED AND BY SERVICE ENGINEER ONLY.

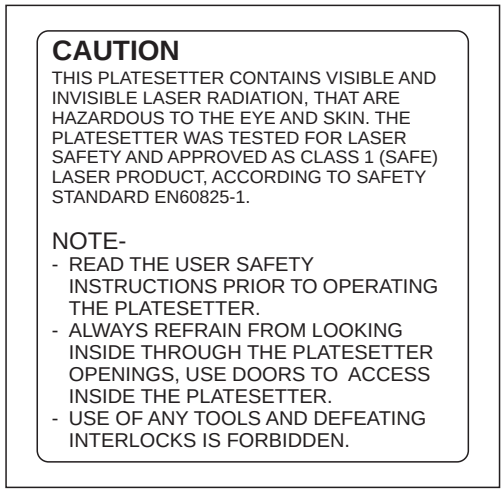
K6B001



K6B002



K6B003



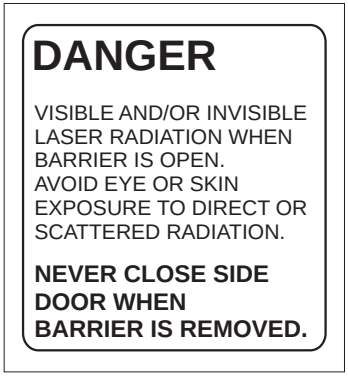
K6B006



K6B009



K6B011



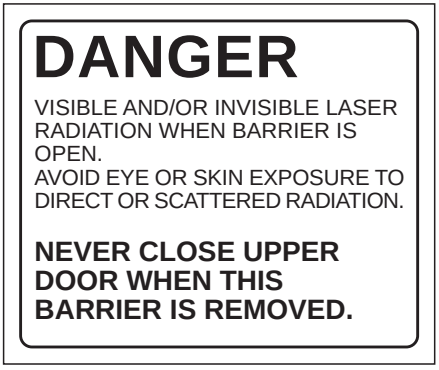
K6B012



K6B013



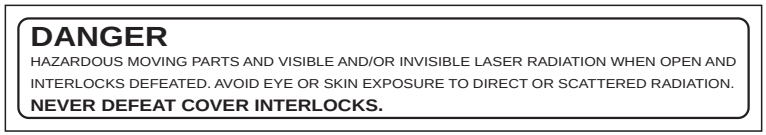
K6B014



K6B015



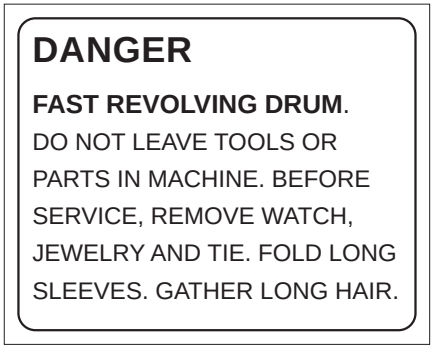
K6B016



K6B891



K7L412A



K7L413



K2G957



K8L535



374A7B951 (374A30170)



374A9C009

DANGER
INVISIBLE LASER RADIATION. **KEEP THIS BARRIER IN PLACE**

374A7L667

SEE INSTALLATION INSTRUCTIONS BEFORE CONNECTING TO THE SUPPLY

K1F658

See the following figures for locations of warning labels. Make sure that all warning labels are in good order; renew warning labels if needed.

NOTE: When a language other than English is spoken, the service engineer must stick the translated labels (attached to the platesetter), in the designated locations. Translated labels have the letter 'K' in their catalog numbers.

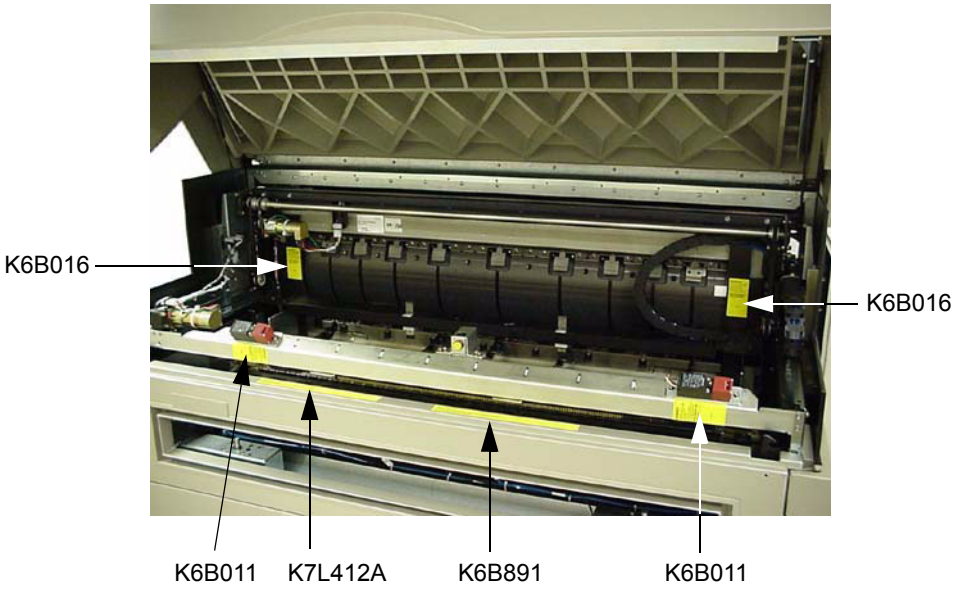


Figure 1. Front top cover open

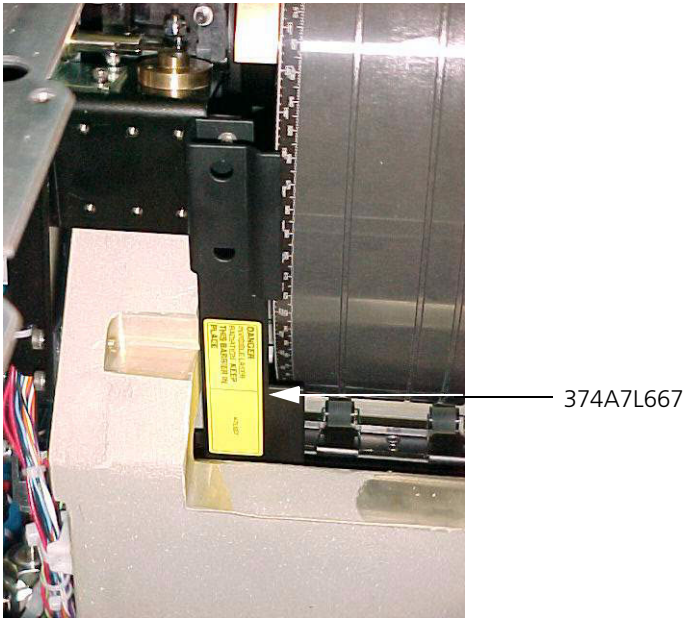


Figure 2. Drum, left side

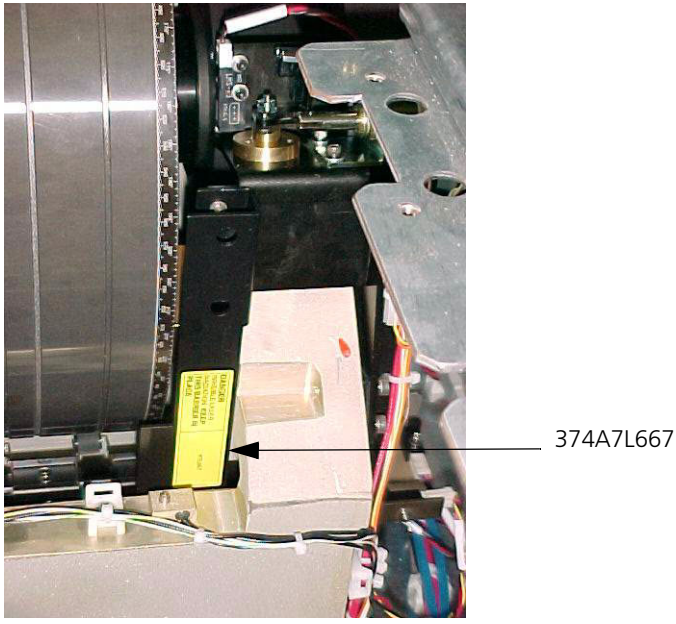


Figure 3. Drum, right side

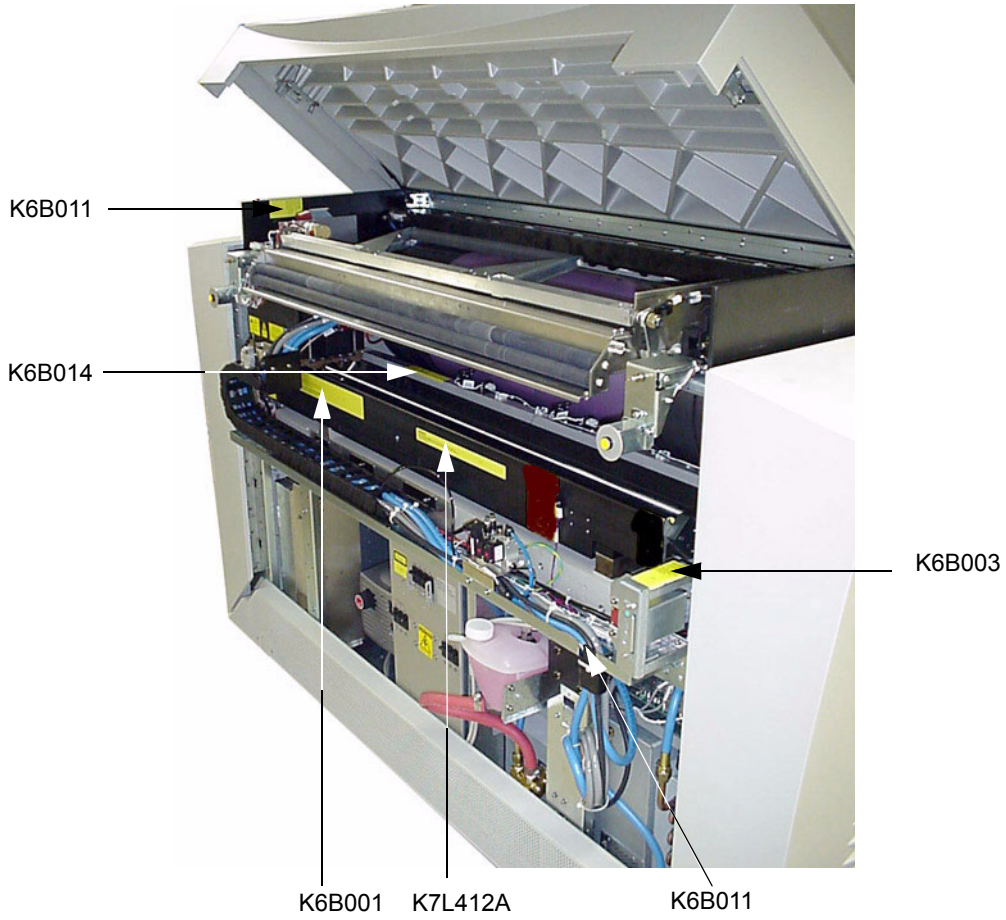


Figure 4. Rear top cover open, rear panel removed

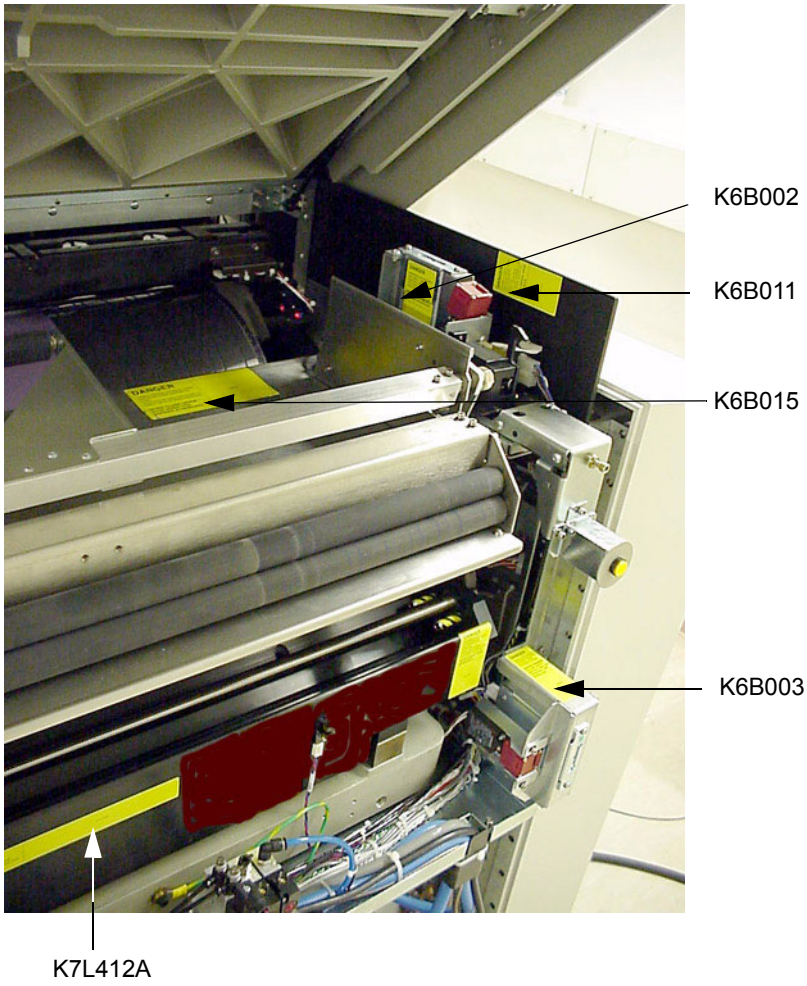


Figure 5. Rear top cover open, panel removed, right side

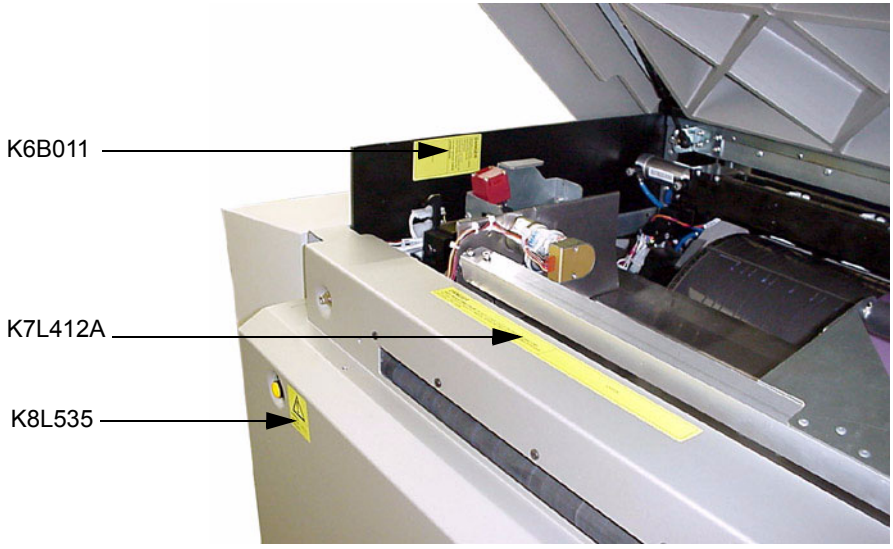


Figure 6. Rear top cover open, left side

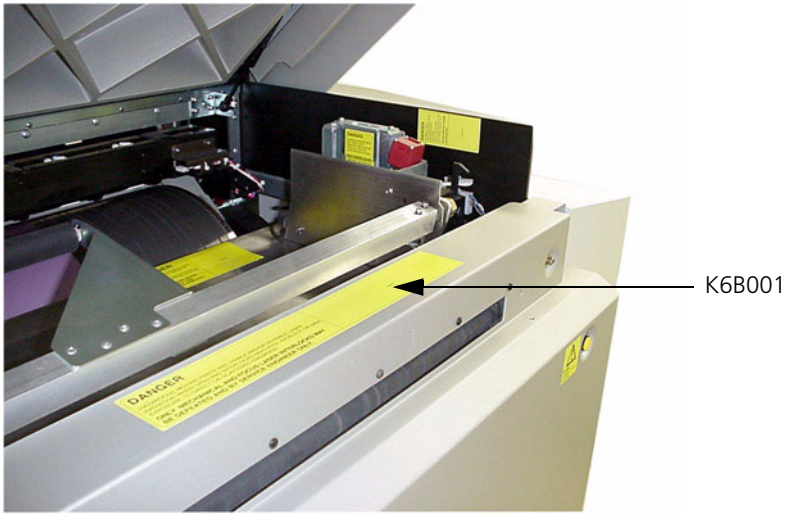


Figure 7. Rear top cover open, right side

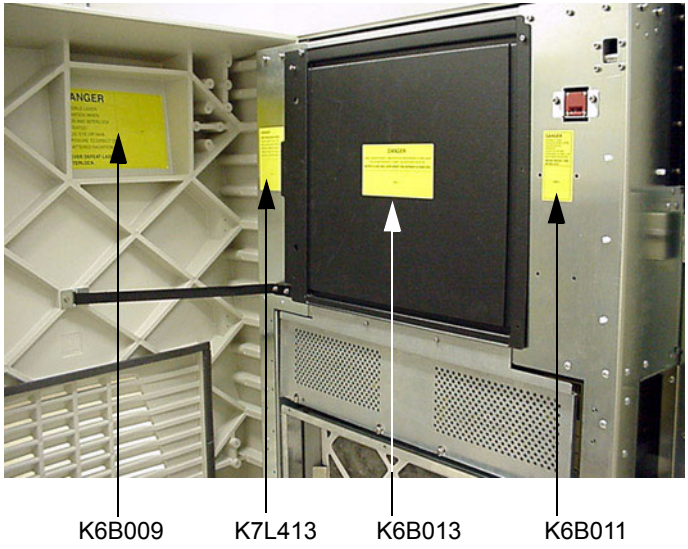


Figure 8. Left side door open

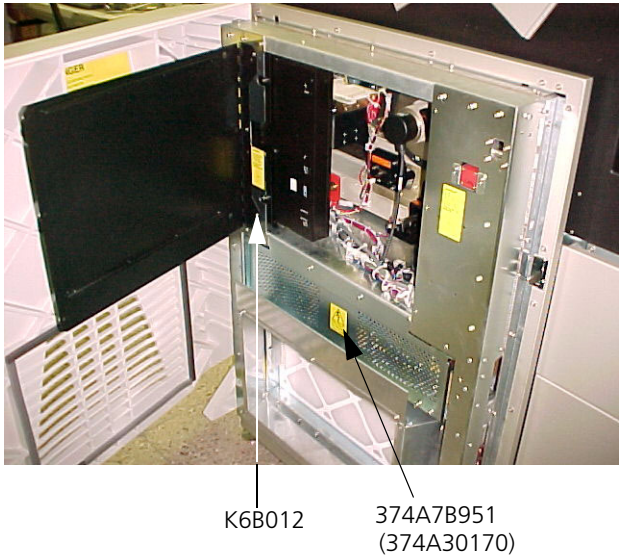


Figure 9. Left side door open, internal barrier removed



Figure 10. Right side door open



Figure 11. Right side door open, internal barrier removed

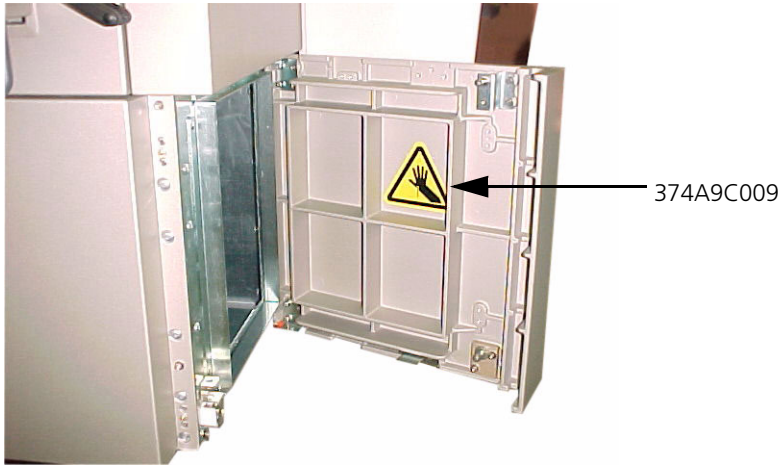


Figure 12: Paper disposal bin; right door

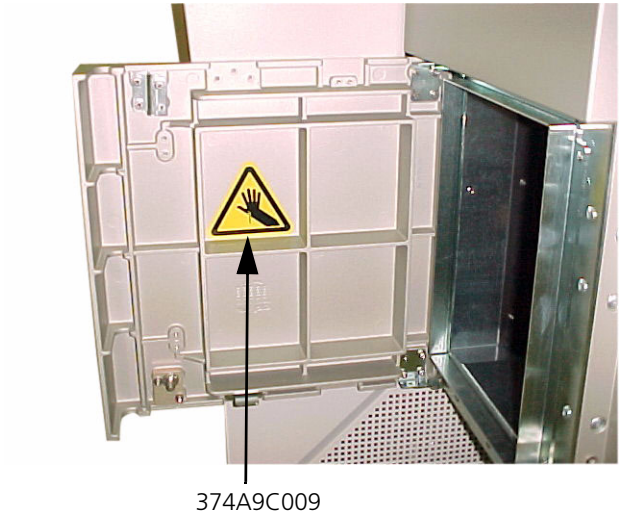


Figure 13. Paper disposal bin; left door

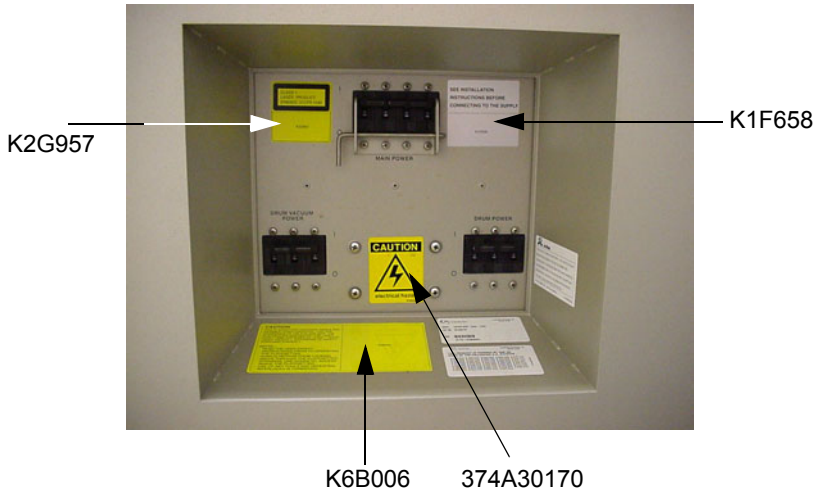


Figure 14. Distribution box

Drum Safety Precautions

The Lotem 800 II platesetter contains a drum that revolves inside the platesetter. Special safety precautions that include solenoids and interlock system are implemented in order to prevent rotation of the drum while the user opens the upper doors.

The upper doors opening is initiated from the platesetter Controller. This activates the solenoids that release the upper door locks, thus enabling the user to open the door. By this time, the drum must be almost stationary.



WARNING ! If, after the door is unlocked, it takes **more than 5 seconds** for the drum to become completely stationary, the machine must be repaired.



WARNING ! If you defeated the upper rear door defeater, all motors, including the drum motor, can rotate. Removing the defeater or pushing one of the 3 yellow pushbuttons will **NOT** stop the drum within 5 seconds!



DANGER ! The drum will rotate at high speed for a few minutes after defeat is canceled or the yellow pushbutton is pressed!

The drum revolves at approximately **350** 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 and laser thermal head), or force the upper doors to open, or penetrate through the doors.

Since serious personal injury to the operator, service engineer or anyone in the vicinity may occur by the revolving **drum**, the following cautions must be observed.



WARNING ! Be sure not to leave any object, tool or part inside or on the platesetter enclosure. The object may get dislodged, get caught in the revolving drum or other moving parts, penetrate through the enclosure and injure a person standing nearby.



WARNING ! Because of the potential danger of loose parts inside the platesetter, be sure to replace, reconnect or adjust any drum component according to the exact correct procedure.



WARNING ! Before servicing, 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.

Vacuum Pump

The vacuum pump connected to the platesetter is part of the Lotem 800 II configuration. The vacuum pump 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 property can occur if the filter is not handled and disposed of properly. The service engineer must follow the instructions in the Creo Technical Information Center (Tech Planet) when replacing and disposing the filter.

Fluid Cooling System

The platesetter is equipped with a cooling system which cools the Laser Thermal Head. The system uses a water based coolant. The coolant system has no user serviceable parts. The Laser Thermal Head has hazardous and low voltages inside.The cooling system is sealed and no coolant leakage should occur. If coolant leakage inside the head does occur, it may cause electrical shock and fire hazards.

The cooling system pump has an Overpressure Safety Valve that does not allow pressure to build great than 65 psi, in order to avoid any coolant leakage. Prior to shipment, the pump valves are tested for opening (release of pressure) point between the range of 60-65 psi. After this test, the pump is labeled accordingly. If the pump is replaced, the service engineer must check for presence of the test label. The service engineer must also follow procedure WI-7254 found in the Creo Technical Information Center (Tech Planet).



DANGER ! Electrical shock hazard and fire hazard if the cooling system leaks and the platesetter is not shut off.

Paper Disposal Bin

CAUTION: Do not attempt to remove any plate that has inadvertently arrived in the paper disposal bin. Your hands may be severely cut.

Lithium Battery

The platesetter contains a Lithium battery in the CPU board. The battery should be replaced only by qualified service personnel, and must **not** be replaced by the user.

WARNING ! Hazard of explosion if battery is incorrectly replaced

- Replace only with the same or equivalent type recommended by the manufacturer.
- Follow the manufacturer’s safety instructions provided with the battery.
- Dispose the used batteries according to the manufacturer's instructions.