Safety Precautions for User

English

MCU for Lotem 800

399Z1R097A

www.creo.com

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RE37376	5249067	5481379	5691823	5942137	6112663	6266134
4456924	5283140	5488906	5691828	5946426	6115056	6267054
4500919	5291273	5497252	5696393	5947028	6121996	6268948
4558302	5296935	5508828	5699174	5958647	6130702	6283589
4743091	5313278	5509561	5699740	5966504	6134393	6295076
4992864	5323248	5517359	5708736	5969872	6136509	
5049901	5325217	5519852	5713287	5973801	6137580	
5079721	5331439	5526143	5739819	5986819	6147789	
5081617	5333064	5532728	5742743	5995475	6158345	
5103407	5339176	5561691	5764374	5996499	6159659	
5111308	5343059	5568595	5764381	5998067	6164637	
5113249	5355446	5576754	5771794	6003442	6180325	
5122871	5359451	5579115	5785309	6014471	6181362	
5124547	5359458	5592309	5802034	6016752	6181439	
5132723	5367360	5594556	5813346	6031932	6186068	
5150225	5367388	5600448	5818498	6043865	6189452	
5153769	5384648	5608822	5854883	6060208	6191882	
5155782	5384899	5615282	5861904	6063528	6204874	
5157516	5412491	5625766	5861992	6063546	6208369	
5177724	5412737	5636330	5864651	6072518	6214276	
5208818	5420702	5649220	5875288	6090529	6217965	
5208888	5420722	5650076	5894342	6096461	6252522	
5247174	5459505	5652804	5900981	6098544	6260482	
5247352	5473733	5680129	5934196	6107011	6266080	

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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.

Introduction

Read the following safety document carefully before operating or maintaining the MCU for Lotem 800.

The MCU for Lotem 800 includes inside five (5) cassettes and a forceful cassette elevator. Each cassette contains up to 100 plates of 0.3 mm thickness.

The operator requests a cassette by pressing one of the 5 intended pushbuttons on the front of the MCU or via the PC. The operator then opens the operator drawer and loads plates to the chosen cassette.

Upon a request from the workstation, the MCU feeds the suitable cassette into the Lotem 800 platesetter via the bridge.

In case of MCU malfunction, the operator may remove the bridge cover and load plates manually to the cassette engaged to the platesetter through the uncovered bridge.



WARNING: Carefully follow the instructions in this document to ensure your safety and the safety of others when operating or maintaining the MCU for Lotem 800.



WARNING: Never defeat any interlock switch!



WARNING: You are not allowed to dismantle enclosure parts or to use a tool.

Installation Safety Precautions

Installation must be done only by authorized service personnel.



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

Disconnection from Mains Supply

Shutting the MCU OFF is done by the ON/OFF switch at the front side of the MCU. However this will not disconnect the MCU from the 208 V ac supply. You must switch the Lotem 800 platesetter main circuit breaker to "0" to achieve disconnection of the MCU from the supply.

Disconnection from Pneumatic Air Pressure

Switching the air pressure off is done by switching off the air supply. The MCU receives pneumatic air pressure from the platesetter.

Basic Safety Precautions

The basic safety precautions section includes the following topics:

- Enclosure
- Safety Interlocks & Emergency Switches
- Warning Labels

When working with the MCU, beware of hazardous moving parts and of electrical hazards: The internal cassettes elevator, the cassettes moving in the bridge by pneumatic pistons are all hazardous moving parts. The MCU is fed from DC voltages and from 208 volts circuits from the Lotem 800 platesetter.

1. To load cassettes, open the operator drawer but only when the control light on the panel is on.
2. You are not allowed to open any door or any external barrier of the MCU.
3. You are not allowed to use any tool.
4. You are allowed to open ONLY the bridge cover, while taking precautions against the hazardous movement of the heavy cassette in the bridge: The cassette moves in the bridge forcefully, unexpectedly and quickly. Wait 10 seconds after the cover is completely off the bridge before accessing the bridge for manual plate loading into the cassette!
5. You are **not** allowed to cheat the bridge cover or any other interlock switches.
6. Whenever the MCU or Lotem are working, the bridge cover has to be assembled and its four screws tightened close.
7. The MCU emergency stop buttons switch off the MCU only, the Lotem 800 machines will not be switched off.



WARNING: Correct switching of the MCU "ON" requires that the ON/OFF switch on the MCU front panel is set to ON, and the ON/Reset button is than pressed. The ON/Reset button will than light up. **If the ON/Reset button lights up without the ON/Reset button being pressed, the MCU is faulty and not safe - You must SHUT OFF the MCU and call service!**



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

Enclosures



WARNING: You are forbidden, under any circumstances, to dismantle any external door or panel, or internal protective barrier from the MCU, except for the bridge cover!



WARNING: You are forbidden to open any door or panel that requires a tool to open.

Safety Interlocks & Emergency Switches

Safety interlock switches are provided to disconnect pneumatic power from the cassette moving piston and 208 V supply from the elevator motor. This occurs when opening the **bridge cover** (or when raising the bridge from a horizontal position by the service engineer).

When the **front operator door** is open, the elevator motor is disconnected and will not move.

Opening the **bridge cover** will also disconnect movement of the plate loading system in the Lotem 800 platesetter.

Emergency Pushbuttons (red buttons with yellow surrounding- *see Figure 1 on page 10*)- pushing either of them will disconnect pneumatic power from the cassette moving piston and 208 V supply from the elevator motor.

For the location and function of each interlock switch see the below table and figures.

DANGER: The user is not, under any circumstances, allowed to defeat any interlock switch.

Interlock Functions and Locations

Interlock Location	Interlock Function	Number of Interlock Switches
Fig. 3 - Both bridge sides	Disconnect cassette and elevator	2
Fig. 4 -Lotem panel	Disconnect cassette, elevator and Lotem loading mechanism	2
Operator drawer	Disconnect elevator	2
Bridge (if raised)	Disconnect cassette and elevator	1

WARNING: It may take up to 10 seconds for the interlock or emergency switch system to shut off the.cassette pneumatic movements.

DANGER: If an interlocked door or panel is open and the interlock switch is defeated, or if the interlock system failed, then hazardous movements of the cassettes and elevator can occur**!**

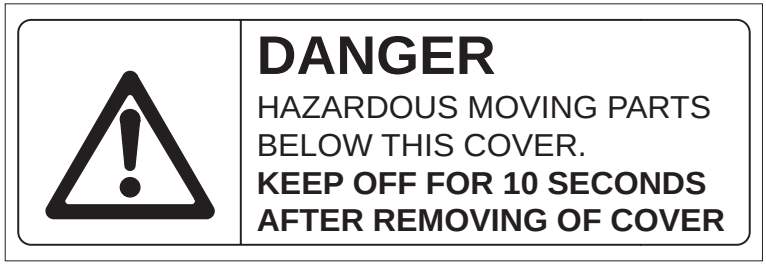
Warning Labels

The following pages show those warning labels located in areas accessible to the user, and their locations.

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

Note: When a language other than English is spoken, the service engineer should stick the translated labels (attached to the MCU) in the relevant locations.

The warning labels are provided for yours and other persons safety. Do not fail to comply with the warnings!



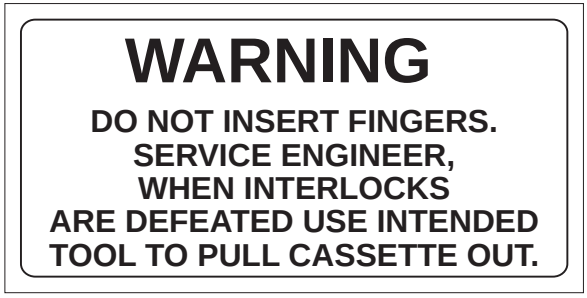
K6B854



374A7B951 (374A30170)



374A00011



K6B617



374A6A985

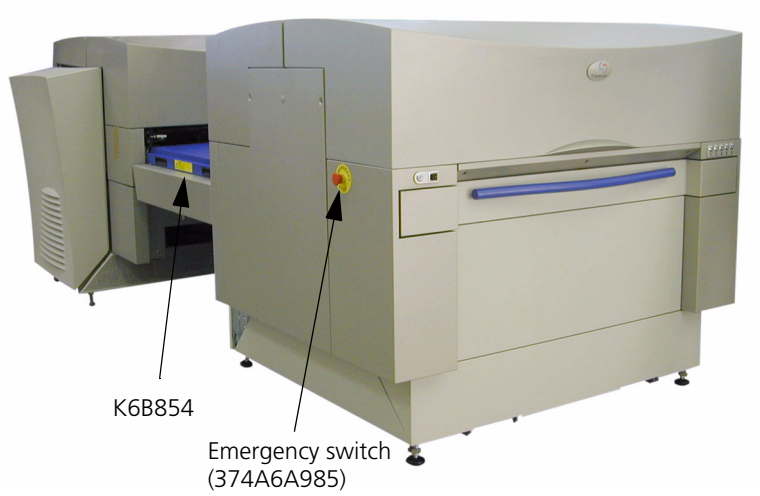


Figure 1: MCU and Lotem 800 - front view

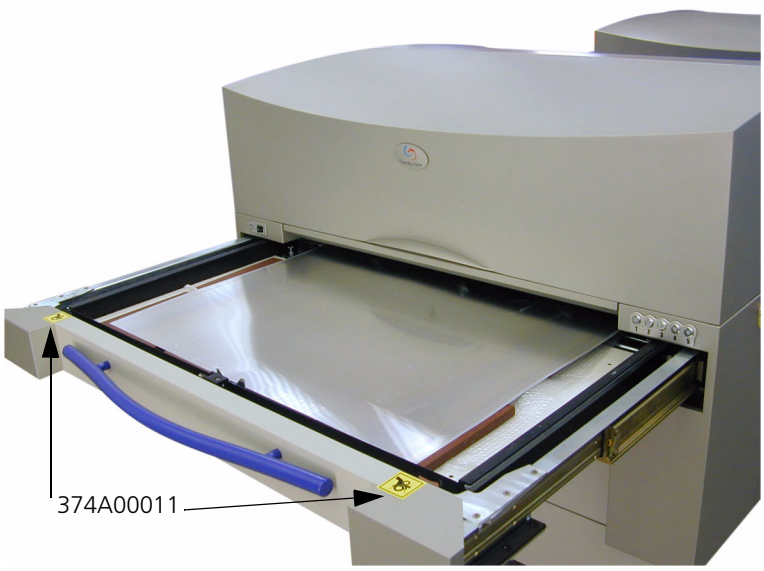


Figure 2: MCU front view, drawer out

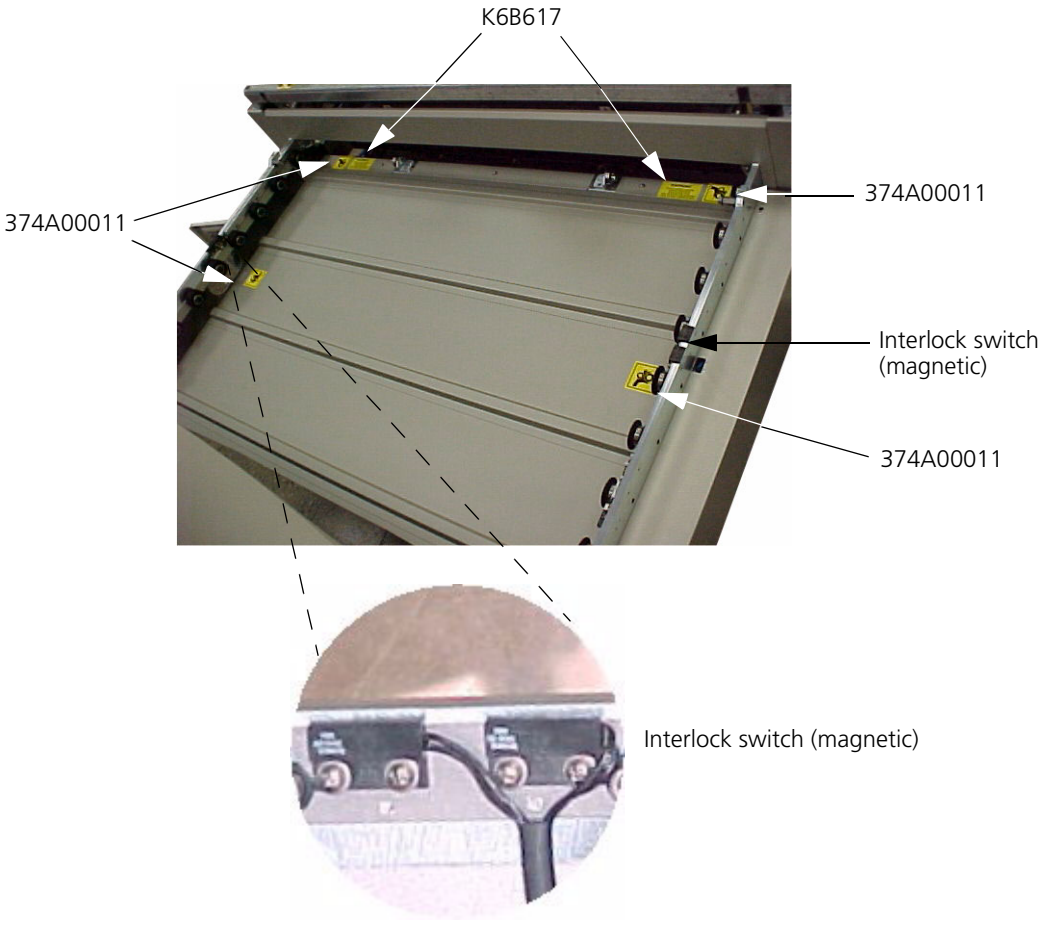


Figure 3: Bridge without cover

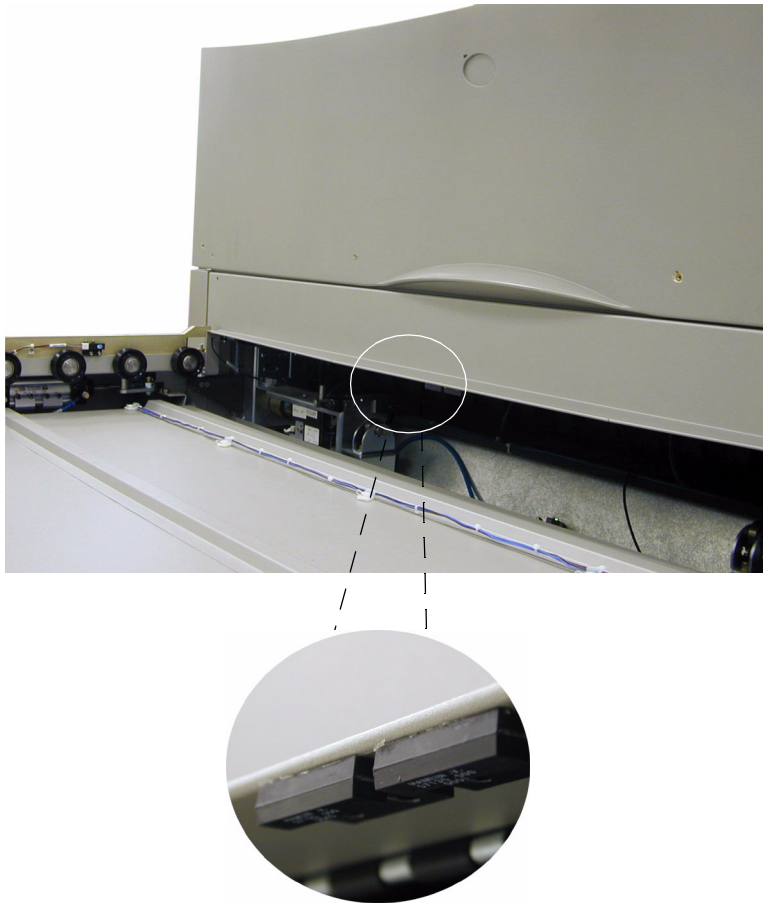


Figure 4: Platesetter front view, interlock switches

Handling Plates

- When loading plates through the user drawer, make sure not to lean on the drawer, this may cause the drawer to slide into the MCU.
- Make sure your clothing, ties, and sleeves are not entangled in the drawer.
- Pull /Push the user drawer **only** with the purple handle.
- Use gloves when handling plates.
- Open the bridge cover for manual plates loading into the engaged cassette only in cases where the cassette is not released from the Lotem.
- Remove any piece of clothing or object that may get caught in moving parts. Remove ties, roll up long sleeves, remove jewelry and gather long hair.

Removing Stuck Media

Special precautions are required when removing media (plates) that got stuck inside the MCU.



WARNING: The operator is only allowed to remove media struck inside the bride, the platesetter or in between the bridge and platesetter. The operator is **strictly forbidden** to remove media stuck inside the MCU!



WARNING: Before removing media that got stuck, switch off the **On/Off** switch located on the MCU front side.



WARNING: When you open the bridge cover for releasing stuck media or other maintenance, remove any piece of clothing or object that may get caught in moving parts. Remove ties, roll up long sleeves, remove jewelry and gather long hair.



WARNING: If the cassette is not engaged to the platesetter, but is stuck on the bridge, **do not** release or push the cassette - you must switch the machine power and air pressure **off** and call for service.

Danger Areas

The following figures show locations of hazardous areas:

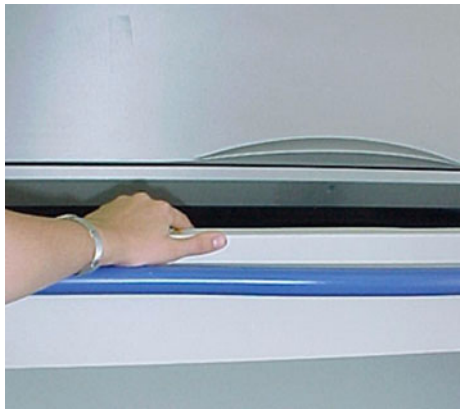
- **Do not** put your hand on the user door rail.



- When the bridge cover is removed, **do not** lean on or touch the bridge rail.



- **Do not** put hands on the user door.



- Push / pull the operator drawer using the purple handle



Electrical & 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 settings or connections.