Addendum to Safety Precautions for Engineers

English

ThermoFlex Mid II Hybrid With Offset Option

761-00032A-EN

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Important Notes About Safe Operation



WARNING: Before servicing the Kodak® ThermoFlex® Mid II Hybrid platesetter with Offset option, you *must* read this guide and understand it.
You must read:

- ThermoFlex Mid II Hybrid With Offset Option addendum to Safety Precautions for Users
- ThermoFlex Mid II safety precautions for engineers

When servicing the ThermoFlex Mid II platesetter, you *must* follow *all* of the safety precautions and recommended procedures. This guide must be accessible to anyone who services the ThermoFlex Mid II platesetter.
Your failure to read, understand, and follow the information in this guide may result in a dangerous situation and the risk of serious personal injury or damage to the platesetter.

Introduction

The ThermoFlex Mid II Hybrid platesetter with Offset option images both offset and flexo plates.



Note: The term "offset plates" refers to aluminum plates.

This document is an addendum to the ThermoFlex Mid II Safety Precautions for Engineers document. This addendum describes the differences that are unique to the ThermoFlex Mid II Hybrid platesetter with Offset option. The differences relate to the following components:

- Registration pins
- Registration pins holder (with interlock)
- Side-to-side optical detector
- Laser head position
- Plate loading and unloading roller

Registration Pins, Pin Holder, and Interlock

The Offset option enables you to image offset plates on a ThermoFlex Mid II Hybrid platesetter, in addition to flexo plates. You can image one or two plates simultaneously and no plate clamping is required. You manually load prepunched offset plates onto the drum using registration pins as reference guides.

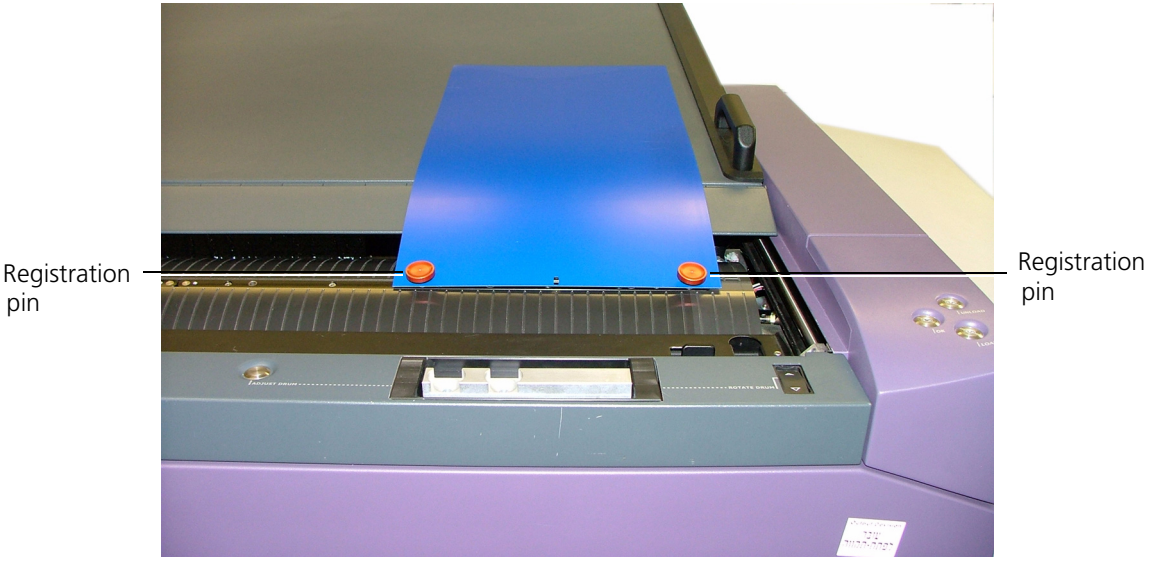


Figure 1: Plate on drum with two registration pins

After you load the plate, you secure it with tape on the leading and trailing edges, and then return the registration pins to the pin holder.

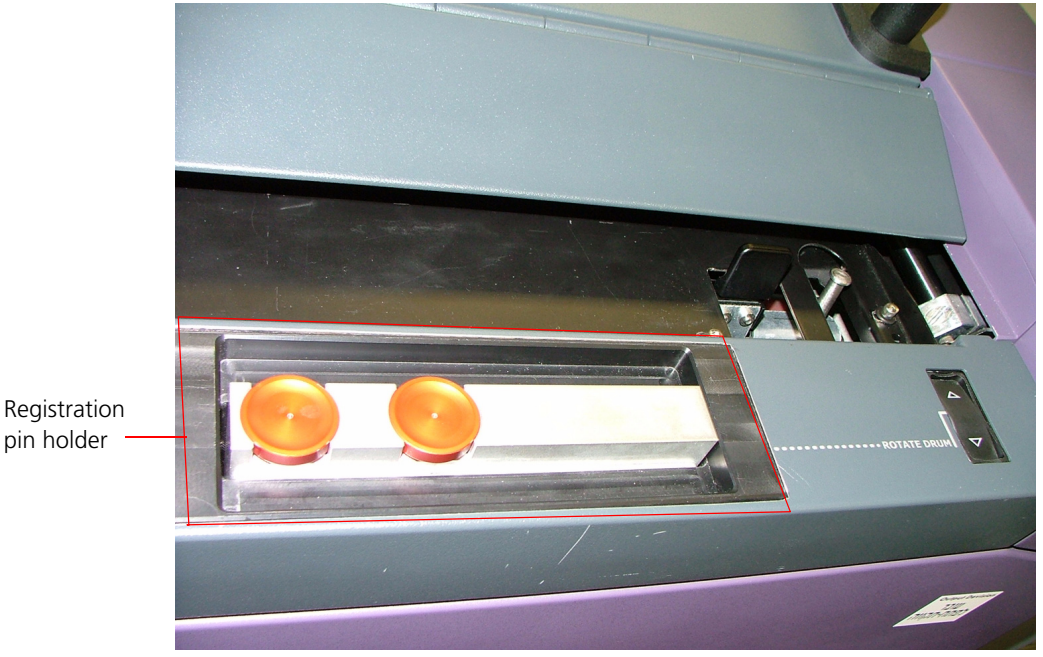


Figure 2: Registration pin holder

Note: The registration pins are available in various shapes (either circular or square head) depending on the customer's punch configuration.

The pin holder is connected to the mechanical interlock system. If any of the registration pins are not returned to the pin holder, the interlock microswitch activates. When the interlock microswitch is activated, the motors cannot operate and exposure cannot begin.

If any registration pins are not in the pin holder, when you either start up the platesetter or open the loading table, an error message and an open interlock indication appear.

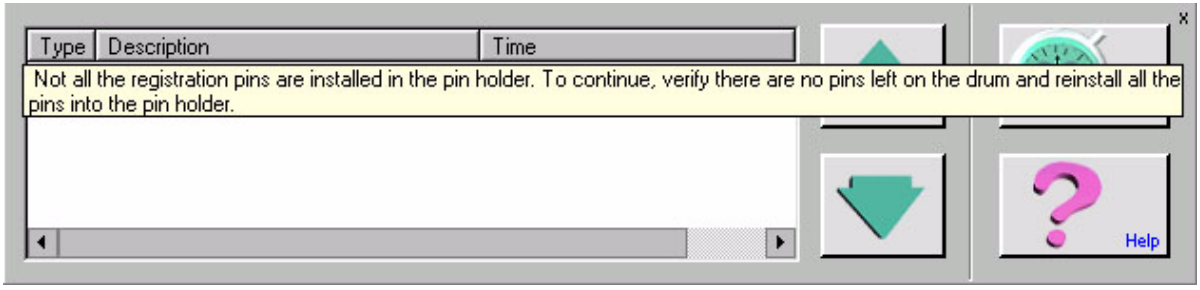


Figure 3: Error message reporting that not all the registration pins are in the pin holder

WARNING: Never attempt to operate the platesetter if any of the registration pins are missing from the pin holder. If a pin flies off the rotating drum or collides with the laser head, it can cause laser and/or mechanical hazards.

The ThermoFlex Mid II Hybrid platesetter with Offset option has numerous safety mechanisms to ensure that registration pins cannot be left in the drum where they can damage the platesetter and as a result, potentially injure the operator. These precautions include:

- The registration pin holder is connected to the mechanical interlock system.
- The side-to-side detector detects whether a pin is in the drum.
- The laser head moves to home position when the loading table or service door is opened, and upon startup.

However, it is imperative to visually confirm that no registration pin remains in the drum before you close the loading table.

To deal with a registration pin that has fallen into the platesetter's interior:

1. To open the front panel, press the Open Front Panel button, and then open the panel.



Figure 4: Open Front Panel button

2. Locate the missing registration pin, and remove it from the platesetter.

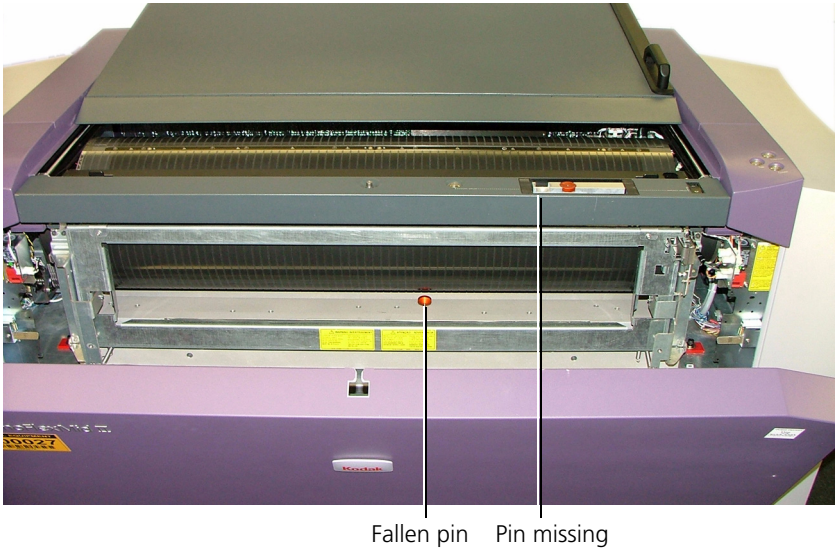


Figure 5: Front panel open to enable retrieving missing registration pin

3. Verify that there is no damage to the platesetter or to the registration pin.
4. Return the registration pin to the registration pin holder.

Side-to-Side Optical Detectors

The purpose of the side-to-side optical detectors verify that no registration pins are in the drum prior to exposure.



Figure 6: Side-to-side detectors

If the side-to-side detector detects a registration pin in the drum, exposure does not begin. An error message appears and the platesetter status changes to **Attention**.

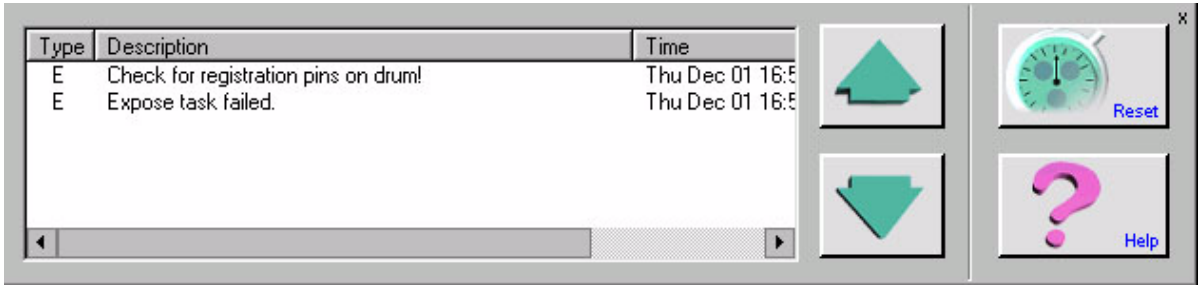


Figure 7: Message reporting that the side-to-side detector detects registration pin on drum before exposure

During each service visit, you must verify that the side-to-side optical detectors are functioning properly.

Laser Head

To prevent damage to the platesetter as a result of registration pins being left in the drum and colliding with the laser head, the ThermoFlex Mid II Hybrid platesetter with Offset option automatically moves the laser head to home position upon startup and upon opening the loading table.

When you open the service door, the laser head must be in home position (on the left side of the drum).

To open the service door:

➢ In the ThermoFlex Controller software, in the **Routine Functions** menu, click **Open Service Door.**





Note: Do not click the Preventive Maintenance button in the ThermoFlex Controller software to check the laser head position. The Preventive Maintenance button opens the service door, but the laser head moves to the center position. Therefore make sure to open the service door as described on this page, and not with the Preventive Maintenance button.



WARNING: If the laser head is not in home position when you open the service door, mechanical and potential class 4 laser radiation hazards are present. These endanger your personal safety and could result in damage to the platesetter. Do *not* operate the platesetter until you have resolved the problem.

During each service visit, you must open the service door as described on this page and verify that the laser head is in home position.

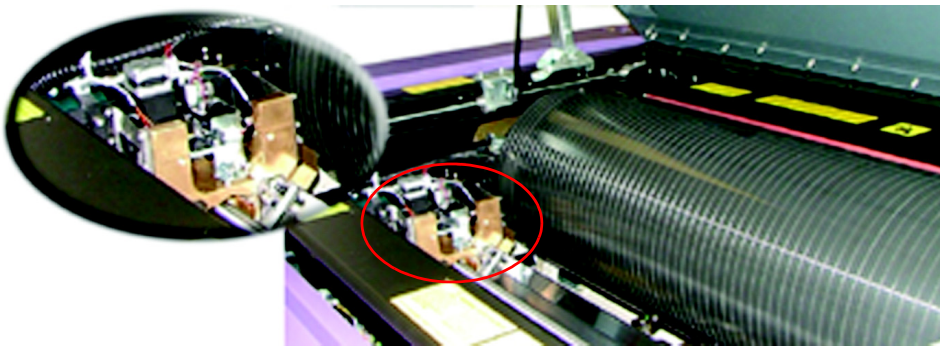


Figure 8: Laser head in home position on the left side of the drum

Plate Roller

A plate roller is used to make the plate adhere to the drum. A blue roller knob operates the lever that moves the roller onto the drum.

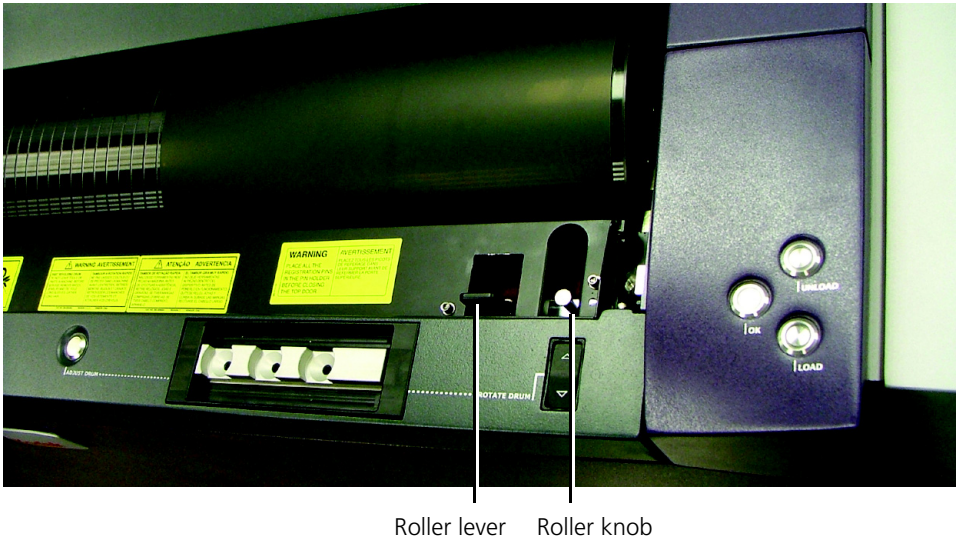


Figure 9: Roller knob and roller lever default position

To move the roller onto the drum, pull the knob up. The roller lever pushes the roller onto the drum.



Figure 10: Roller knob and roller lever in default position (down), and activated (up)

When you close the loading table, the loading table pushes the lever, and thus the roller, away from the drum.

During every visit, make sure that the lever is in good condition and that the lever screws are firmly in place.

Summary of Offset-related Safety Precautions

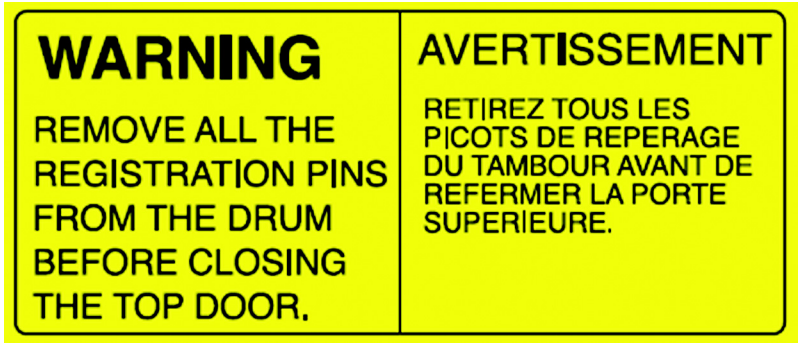
During each service visit, verify the following:

- When you open the service door, the laser head is in home position.
- The registration pin holder interlock is functioning correctly.
- The side-to-side optical detector is operating.
- The plate roller lever is in good condition and the lever screws are firmly in place.

Warning Labels

The following pages show the warning labels that are unique to the ThermoFlex Mid II Hybrid With Offset option.

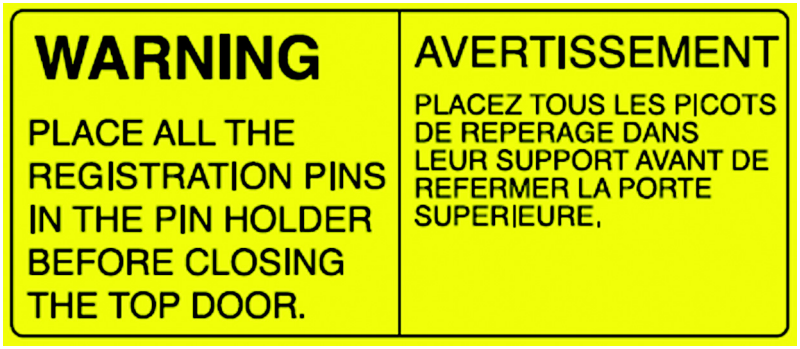
Note: The English and French versions of the labels are shown next as examples, but labels are provided in the language of the country in which the platesetter is installed.



382-01513A



382-01514A


WARNING
PLACE ALL THE REGISTRATION PINS IN THE PIN HOLDER BEFORE CLOSING THE TOP DOOR.
AVERTISSEMENT
PLACEZ TOUS LES PICOTS DE REPERAGE DANS LEUR SUPPORT AVANT DE REFERMER LA PORTE SUPERIEURE.

382-01515A

Warning Label Locations

The illustrations in this section show the location of the warning labels that are unique to the ThermoFlex Mid II Hybrid platesetter with Offset option.

Note: The registration pin holder in the photo may vary slightly from the registration pin holder on the customer's platesetter.

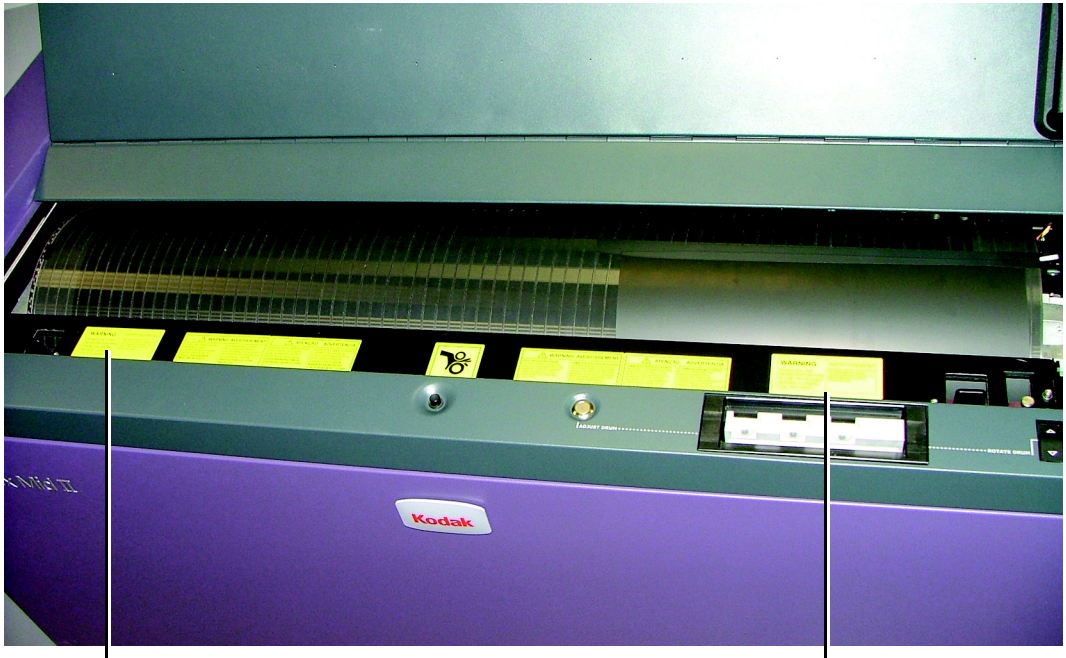


Figure 11: Warning label location—front

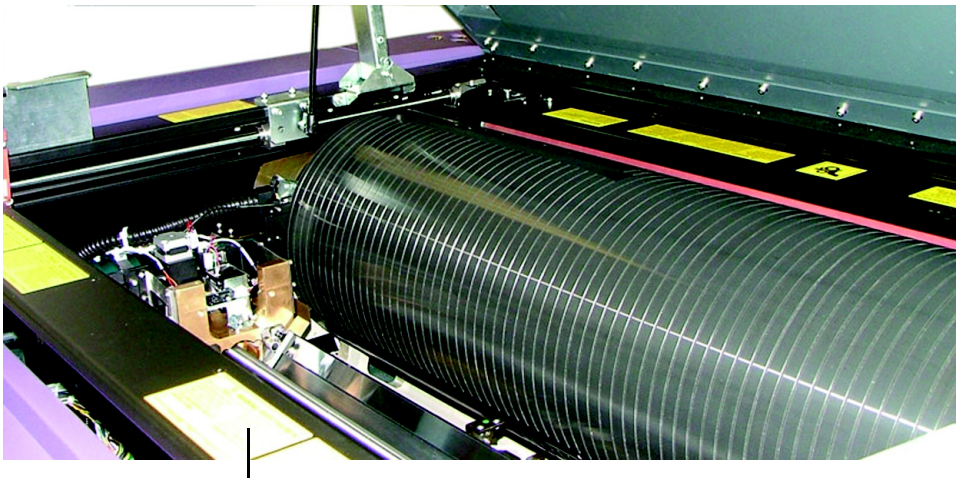


Figure 12: Warning label location—back