Safety Precautions for Engineers

English

ThermoFlex Narrow Hybrid With Offset Option

731-00695A-EN

graphics.kodak.com

Kodak

Copyright

© 2006 Kodak. All rights reserved.

This document is also distributed in Adobe Systems Incorporated's PDF (Portable Document Format). You may reproduce the document from the PDF file for internal use. Copies produced from the PDF file must be reproduced in whole.

Trademarks

Creo and ThermoFlex are trademarks of Kodak.

Adobe, Acrobat, Adobe Illustrator, Distiller, Photoshop, PostScript, and PageMaker are trademarks of Adobe Systems Incorporated.

Apple, iMac, Power Macintosh, Mac OS, AppleShare, AppleTalk, TrueType, ImageWriter, and LaserWriter are registered trademarks of Apple Computer, Inc. Macintosh is a trademark of Apple Computer, Inc., registered in the U.S.A. and other countries.

PANTONE, Hexachrome, PANTONE Hexachrome, and PANTONE MATCHING SYSTEM are the property of Pantone, Inc.

PEARL, PEARLsetter, PEARLhdp, PEARLdry, and PEARLgold are registered trademarks of Presstek, Inc.

XEROX® is a trademark of XEROX CORPORATION.

FCC Compliance

Any Kodak equipment referred to in this document complies with the requirements in part 15 of the FCC Rules for a Class A digital device. Operation of the Kodak equipment in a residential area may cause unacceptable interference to radio and TV reception, requiring the operator to take whatever steps are necessary to correct the interference.

Equipment Recycling

In the European Union, this symbol indicates that when the last user wishes to discard this product, it must be sent to appropriate facilities for recovery and recycling.



Contact your local Kodak representative or refer to www.kodak.com/go/recycle/ for additional information on the collection and recovery programs available for this product.

Limitation of Liability

The product, software or services are being provided on an “as is” and “as available” basis. Except as may be stated specifically in your contract, Kodak expressly disclaims all warranties of any kind, whether express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose and non-infringement.

You understand and agree that, except as may be stated specifically in your contract, Kodak shall not be liable for any direct, indirect, incidental, special, consequential or exemplary damages, including but not limited to, damages for loss of profits, goodwill, use, data or other intangible losses (even if Kodak has been advised of the possibility of such damages), resulting from: (i) the use or the inability to use the product or software; (ii) the cost of procurement of substitute goods and services resulting from any products, goods, data, software, information or services purchased; (iii) unauthorized access to or alteration of your products, software or data; (iv) statements or conduct of any third party; (v) any other matter relating to the product, software, or services.

The text and drawings herein are for illustration and reference only. The specifications on which they are based are subject to change. Kodak may, at any time and without notice, make changes to this document. Kodak assumes no liability for technical or editorial errors or omissions made herein, and shall not be liable for incidental, consequential, indirect, or special damages, including, without limitation, loss of use, loss or alteration of data, delays, or lost profits or savings arising from the use of this document.

graphics.kodak.com
731-00695A-EN

Revised April 2006

Safety Precautions for Engineers

Important Notes on Safe Operation....2
Laser Head....2
Registration Pins....3
Side-to-Side Optical Detectors....5
Warning Labels....7
Warning Label Locations....9

Important Notes on Safe Operation



WARNING: Before servicing the *ThermoFlex* Narrow Hybrid With Offset option, you *must* read this guide and understand it.
You must read the ThermoFlex Narrow Hybrid With Offset option Safety Precautions for Users as an indispensable part of the safety precautions for engineers.
When using the *ThermoFlex* Narrow platesetter, you *must* follow *all* of the safety precautions and recommended procedures. This guide must be accessible to anyone who services the *ThermoFlex* Narrow platesetter.
Your failure to read, understand, and follow the information in this guide may result in the incorrect operation of this product and could create a dangerous situation. This could result in serious injury as well as damage to the output device.

Introduction

This document is an addendum to the ThermoFlex Narrow Safety Precautions for Engineers document. It describes the differences that are unique to the *ThermoFlex* Narrow Hybrid With Offset option. You must read this document in addition to the *ThermoFlex* Narrow Safety Precautions for Engineers document.

Laser Head

The laser head must be in home position (on the left side of the drum) whenever the top door is open.



WARNING: Upon opening the top door, verify that the laser head is in home position.

Registration Pins

The Offset option enables imaging of offset plates on a *ThermoFlex* Narrow platesetter. One or two plates can be imaged simultaneously and no plate clamping is required. The prepunched offset plates are manually loaded onto the drum using two or three registration pins as reference guides. After the plate is loaded, the operator uses tape to secure the plate on the leading and trailing edges.

The registration pins (up to six in total) must then be returned to the pin holder (see Figure 2 on page 4) which is connected to the mechanical interlock system.

If any of the six pins are not returned to the pin holder, the interlock microswitch is activated. This stops the motors from operating and prevents exposure from beginning.

If any registration pins are not in the pin holder, an error message appears when the operator either starts up the platesetter or opens the top door.

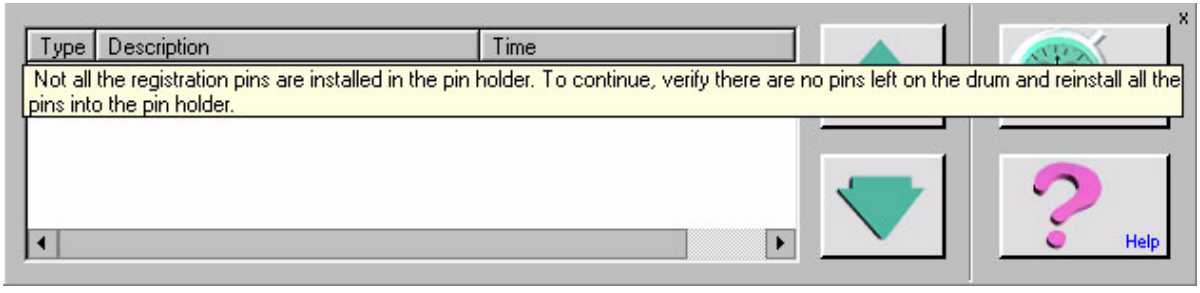


Figure 1: Error message reporting that not all the registration pins are in the pin holder

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

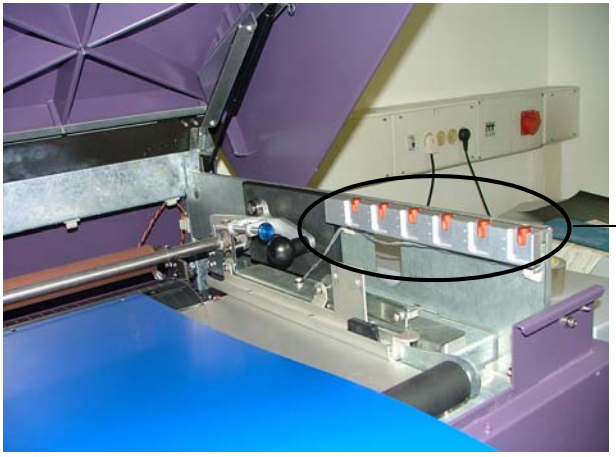


Figure 2: Registration pin holder

WARNING: Never attempt to operate the platesetter if any of the registration pins are not present in the pin holder. Pins flying off the rotating drum can cause laser and/or mechanical hazards.

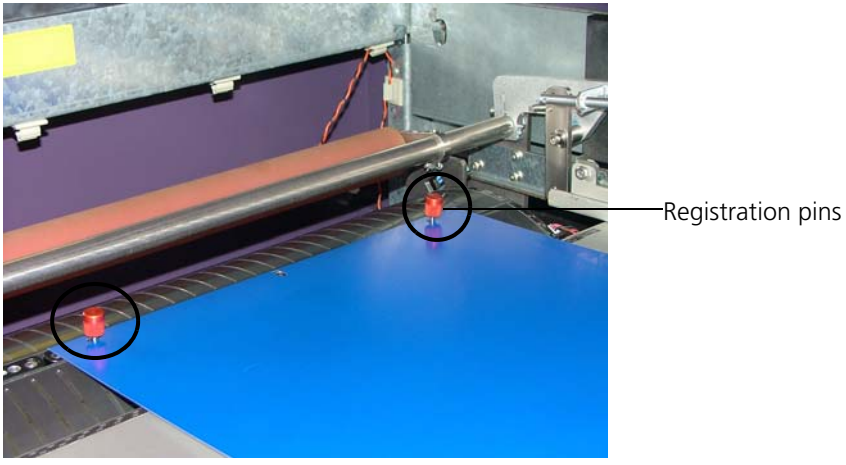


Figure 3: Plate on drum with two registration pins

The registration pin holder is sturdy so that the platesetter's vibrations will not cause the pins to loosen.

The registration pins are large enough so that if one of them falls into the front part of the platesetter, it cannot get stuck in any place that has an opening of less than 3 centimeters.

Since laser and motor interlocks are activated and the current operation is suspended, you can easily remove a registration pin that fell into the platesetter by removing the rear panel.

Side-to-Side Optical Detectors

Before each exposure, side-to-side detectors check that the registration pins are not located on the drum. If a registration pin is detected, exposure will not begin and an error message appears.

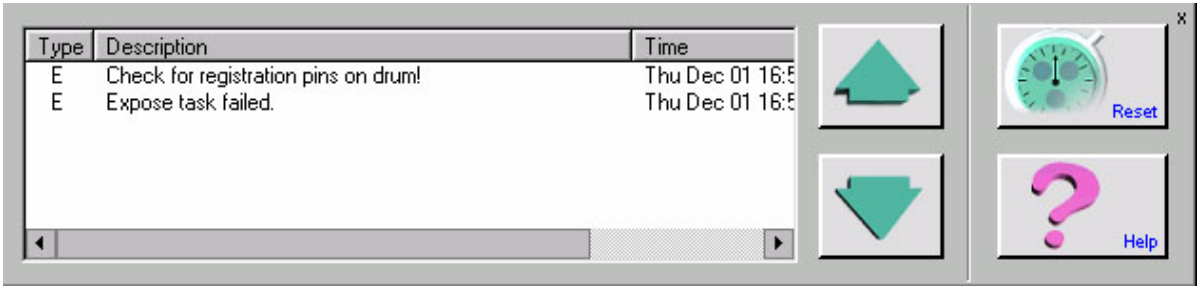


Figure 4: Error message reporting that the side -to-side detector detects registration pin on drum before exposure

During each service visit, the service engineer must verify that the side-to-side optical detectors are in the correct place.

Perfrom the following steps in *ThermoFlex* Controller:

1. Ensure that the laser head has moved to home position before the top door is opened.
2. Make sure that the side-to-side pin detectors are functioning properly and that they detect when the registration pins are placed on the drum.

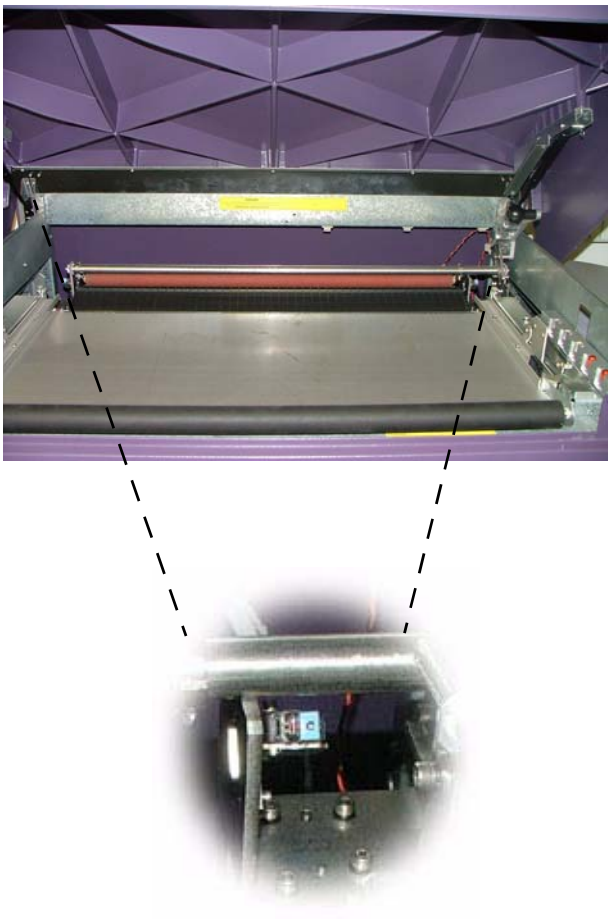


Figure 5: Side-to-side detectors

Plate Roller

A plate roller is used to adhere the plate to the drum. A blue knob on the roller lever indicates that operator intervention is required. Pulling the blue knob and pushing the lever up lowers the roller onto the drum. When you close the top door, the lever is pushed down and the roller is lifted from the drum. The next time you open the top door, the plate roller is in the up position and does not touch the drum.

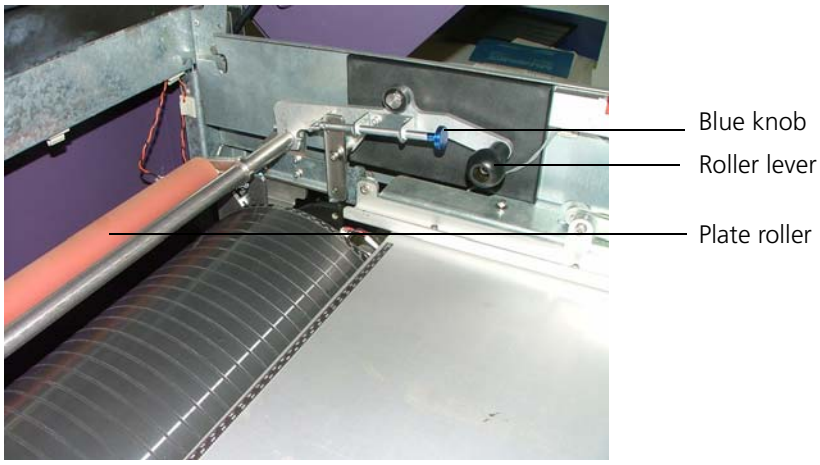
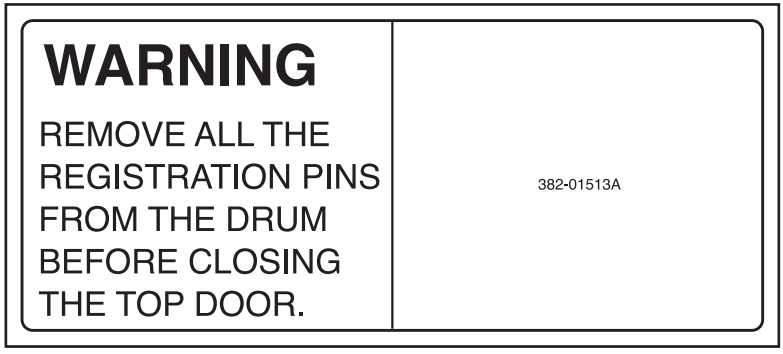


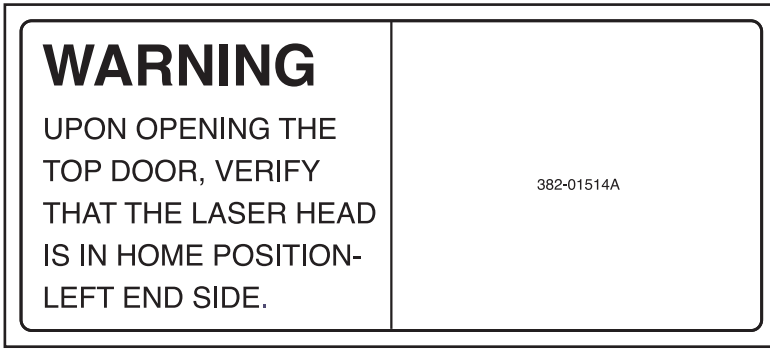
Figure 6: Plate roller, roller lever, and blue knob

Warning Labels

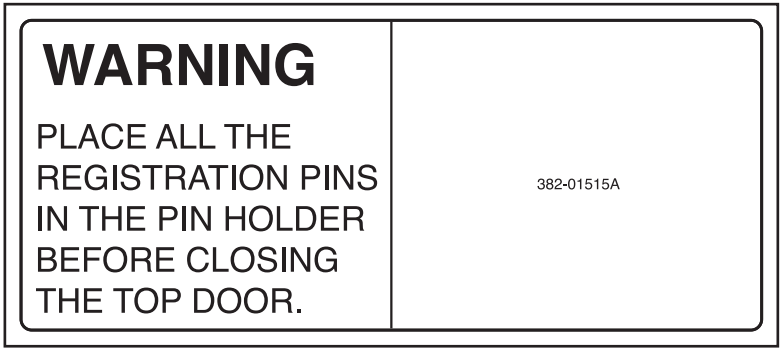
The following pages show the warning labels that are unique to the *ThermoFlex* Narrow Hybrid With Offset option.



382-01513A



382-01514A



382-01515A

Warning Label Locations

Figure 5 shows the location of the warning labels that are unique to the *ThermoFlex* Narrow Hybrid With Offset option.

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

