Kodak

Single-Cassette Autoloader

Installation Guide
English

Internal 731-00589D-EN Rev B

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Contents

Contents iii
Introduction 1
Tools Required 1
Unpacking the Single-Cassette Autoloader 1
Assembling Parts 2
Removing the Single-Cassette Autoloader From the Packaging 2
Unpacking and Assembling the Single-Cassette and Trolley 3
Removing the Single-Cassette Autoloader Panels and Doors 3
Removing the Shipping Locks 4
Installing the Loading Conveyor 7
Connecting the Single-Cassette Autoloader Cables 18
Installing the Paper Disposal Slide Extension 23
Adjusting the Cassette's Position Inside the Single-Cassette Autoloader 23
Completing the Installation 24

Introduction

The *Magnus800 Single-Cassette Autoloader Installation Guide* describes the process of unpacking and installing a Kodak® Magnus™ 800 single-cassette autoloader at a customer site.

Before unpacking and installing the single-cassette autoloader, confirm that the site is ready according to the site preparation guidelines.

Tools Required

The following tools are required to install the single-cassette autoloader:

- Personal tools and jig kit (516-00021A)
- Hex keys
- Two 13-mm open wrenches
- 10-mm bit
- Loctite® 242 adhesive
- Level

Unpacking the Single-Cassette Autoloader

Handle all packing materials with care. These materials will be used again if you need to transport the single-cassette autoloader in the future.



WARNING: Before unpacking the single-cassette autoloader, check that the shipping container is undamaged. Do not proceed with the unpacking if the container is damaged in any way, and notify the shipping agent immediately. The shipping agent's label is located on the shipping carton.

Observe the following precautions before unpacking:

- Do not unpack the single-cassette autoloader in extreme heat (above 30°C / 86°F) or extreme cold (below 0°C / 32°F).
- Do not touch any of the mechanical parts if there are signs of ice on the single-cassette autoloader. Wait at least 24 hours (preferably 48 hours) for the single-cassette autoloader to gradually reach room temperature.
- If the weather is very humid, do not unpack the single-cassette autoloader in a non-air-conditioned room.
- Use only the forklift to lift the shipping container, and place it at the unpacking site. Make sure the container is lifted only from its front side, as indicated by the label on the container packaging.

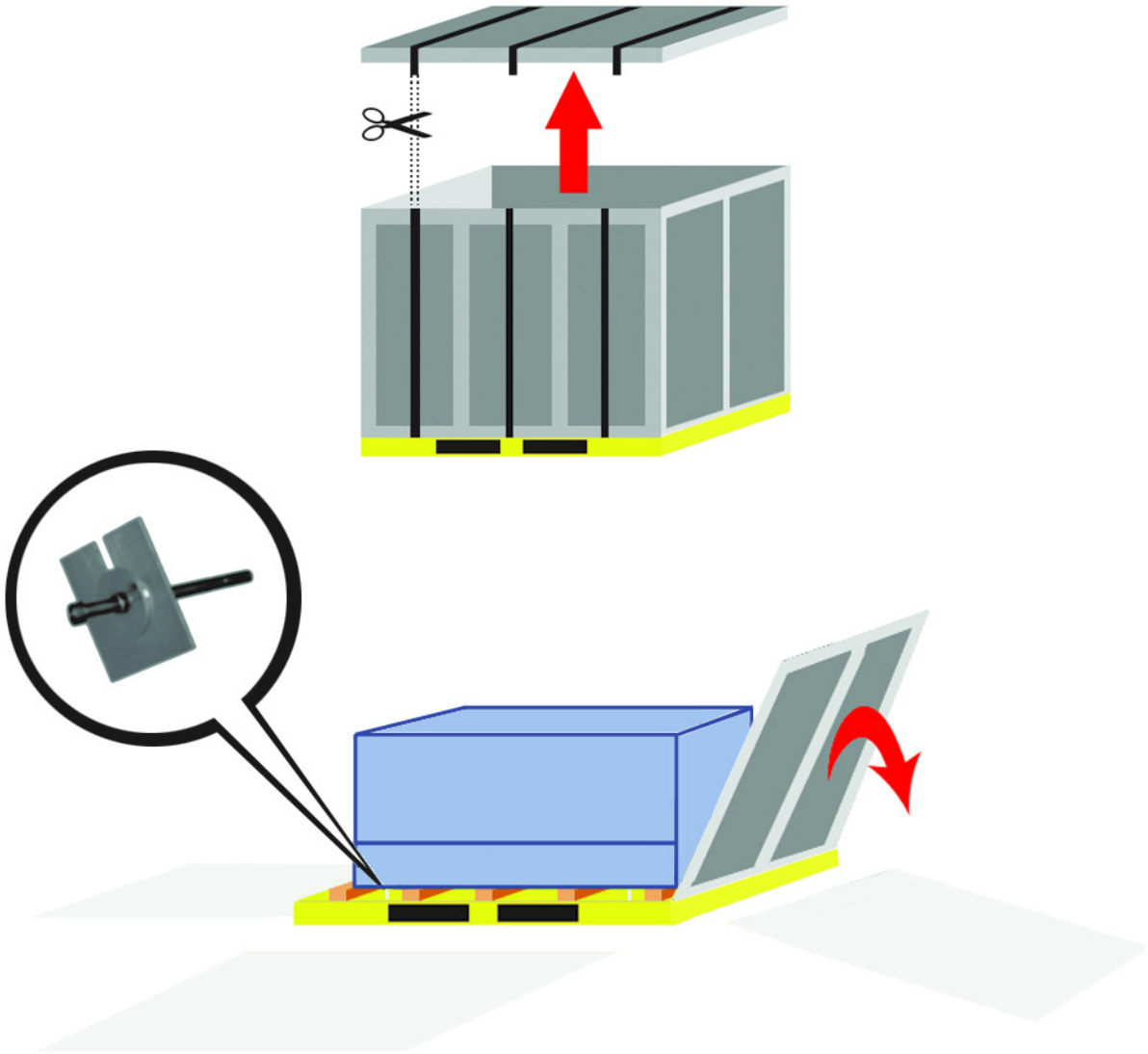
Check the following:

- Before you begin unpacking the single-cassette autoloader, ensure that the unpacking site is large enough to allow easy maneuvering of the single-cassette autoloader.
- Available space for the forklift to lower the single-cassette autoloader from its shipping pallets.
- Doorway clearance for the single-cassette autoloader and forklift.

Assembling Parts

When assembling any parts, apply Loctite 242 adhesive onto all screw threads unless the procedure specifically states otherwise.

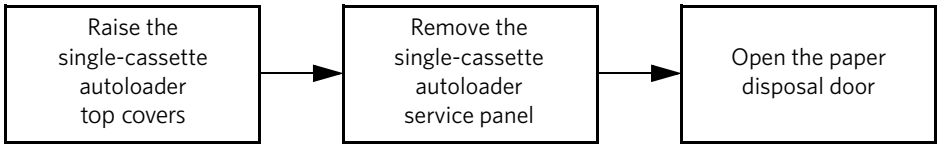
Removing the Single-Cassette Autoloader From the Packaging



Unpacking and Assembling the Single-Cassette and Trolley

The single-cassette and trolley are shipped in a separate box to that that of the single-cassette autoloader. To assemble the single-cassette and trolley, see the Single-Cassette and Trolley Assembly Instructions-included inside the shipping box.

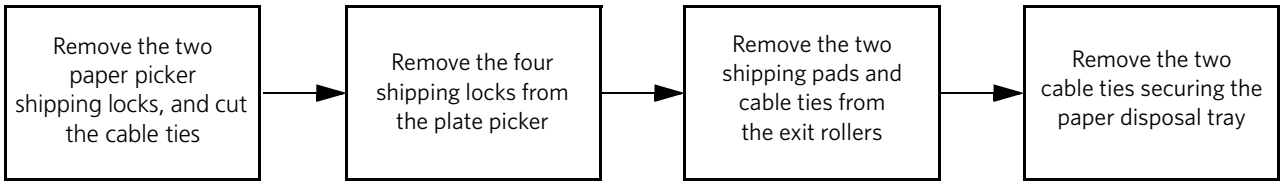
Removing the Single-Cassette Autoloader Panels and Doors



Checklist

- ❒ Raised single-cassette autoloader top covers
- ❒ Removed the single-cassette autoloader service panel
- ❒ Opened paper disposal door

Removing the Shipping Locks



Procedure

Important: Although this section describes how to remove the shipping locks, there are some shipping locks that must remain in place until after the loading conveyor has been installed.

Remove the shipping locks and shipping pads from the following locations:

Paper Picker

A. There are a total of two shipping locks securing the paper picker. Remove one shipping lock from each side of the paper picker.

B. Cut the two cable ties securing the paper picker.



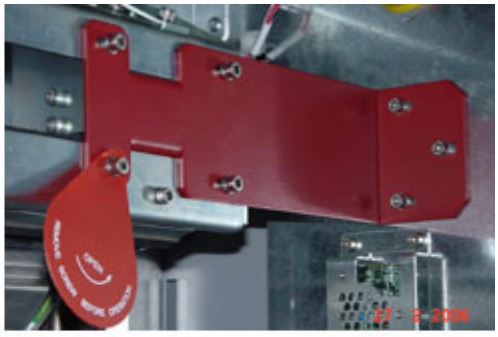
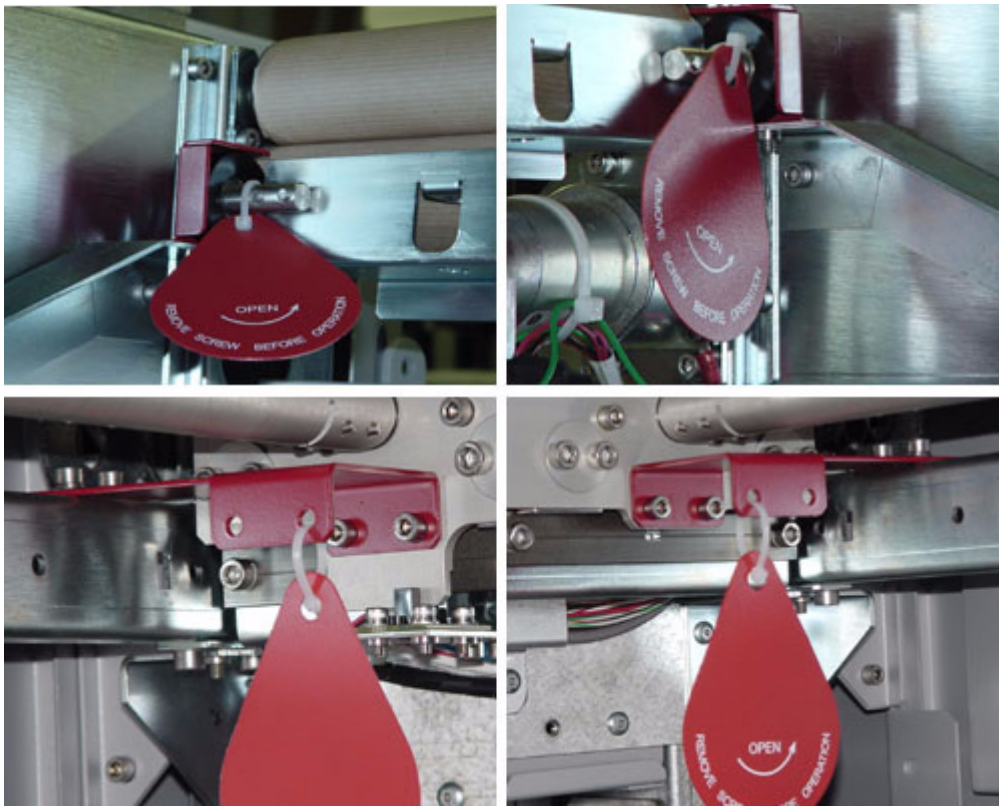




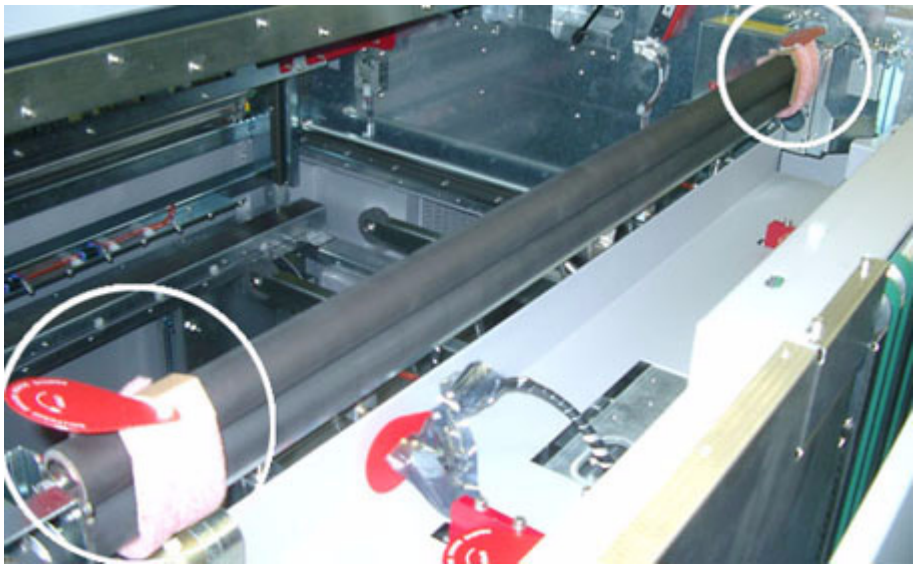
Plate Picker

There are a total of four shipping locks securing the plate picker. Remove two shipping locks from each side of the plate picker.



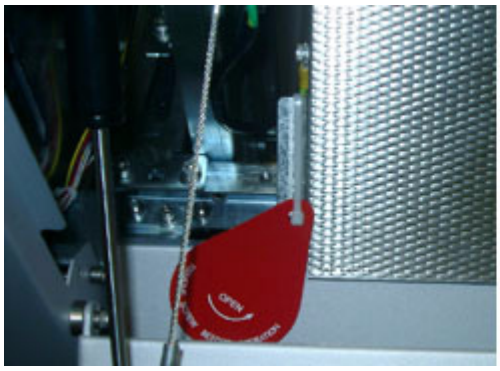
Exit Rollers

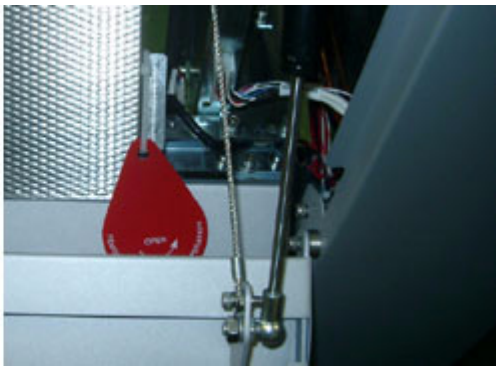
Remove the two shipping pads and cable ties from each side of the exit rollers.



Paper Disposal Tray

Remove the two cable ties securing the paper disposal tray.

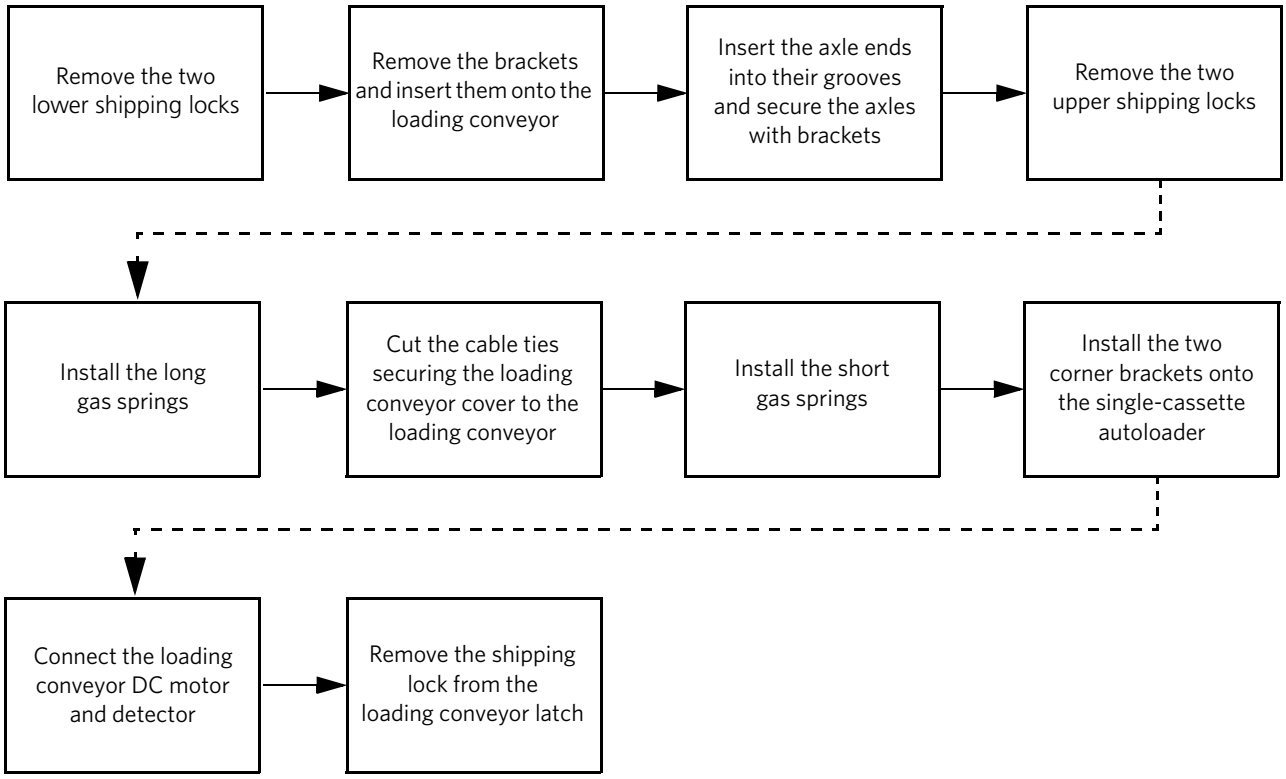




Checklist

- ❒ Removed the two paper picker shipping locks, and cut the cable ties
- ❒ Removed the four shipping locks from the plate picker
- ❒ Removed the two shipping pads and cable ties from the exit rollers
- ❒ Removed the two cable ties securing the paper disposal tray

Installing the Loading Conveyor



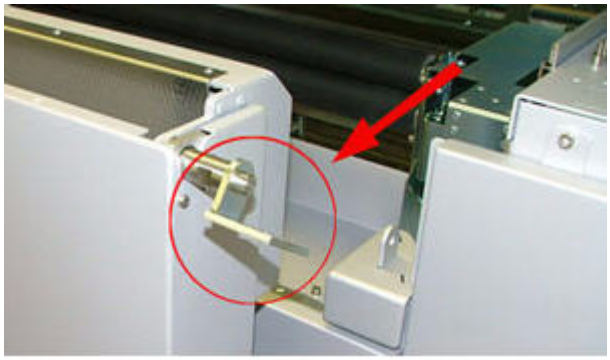
Procedure

Important: Although this section describes how to remove the shipping locks, there are some shipping locks that must remain in place until after the loading conveyor has been installed.

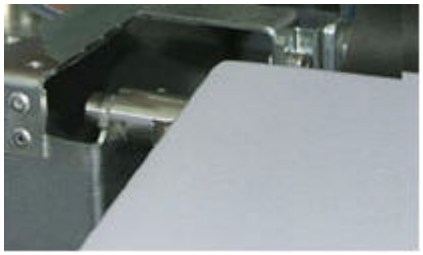
1. Remove the two lower shipping locks located between the loading conveyor and the single-cassette autoloader.



2. Remove the three screws securing each of the brackets to the single-cassette autoloader chassis. While one engineer holds the loading conveyor, the second engineer inserts a bracket onto each axle end.



3. While one engineer raises the loading conveyor, the second engineer directs the two axle ends into their grooves.



4. While one engineer holds the loading conveyor, the second engineer secures each bracket onto the single-cassette autoloader.



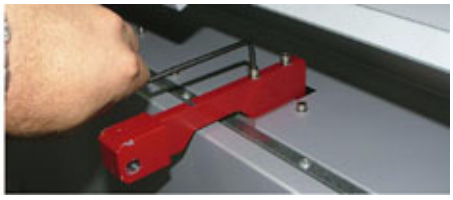
5. Lower the loading conveyor. The conveyor rotates on its axis, and is secured in place by the two upper shipping locks—located on the upper half of the loading conveyor.



6. While one engineer raises the loading conveyor, the second engineer removes the side screw securing each of the two upper shipping locks to the loading conveyor.
   Important: Make sure that the nuts securing the two upper shipping locks do not fall off and are not misplaced.

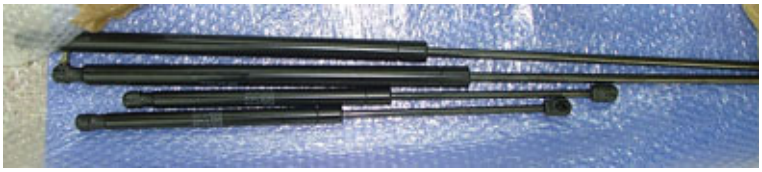



7. Four additional screws secure the two upper shipping locks to the loading conveyor. Two screws are accessed from the top of each shipping lock, and two screws are accessed from inside the single-cassette autoloader. While one engineer raises the loading conveyor, the second engineer removes the four screws and the two upper shipping locks.



8. Install the two long gas springs onto each side of the loading conveyor.

   A. Open the package containing the long gas springs (362-00060) and the short gas springs (362-00059).



   B. While one engineer fully raises the loading conveyor, the second engineer assembles the two long gas springs. Make sure the gas springs are positioned the correct way up.

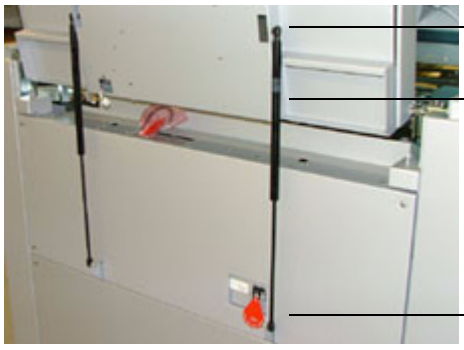
   C. Secure the upper end of the gas spring to the loading conveyor with the nuts removed in step 6. Use two 13-mm wrenches (one wrench is used as a counter-force) to tighten the nuts.



D.A clip is located on the lower end of each long gas spring. Secure the lower ends of each gas spring to the single-cassette autoloader by pressing the clips onto the gas spring holder.







Secure with wrench

Long gas spring

Clip gas spring onto gas spring holder

9. Cut the cable ties securing the loading conveyor cover to the loading conveyor.



10. Install the two short gas springs onto each side of the loading conveyor.

A.Lower the loading conveyor but keep the loading cover in an upright position.

B. Clips are located on each end of the short gas springs. Secure the short gas springs to the single-cassette autoloader by pressing the clips onto the gas spring holders.

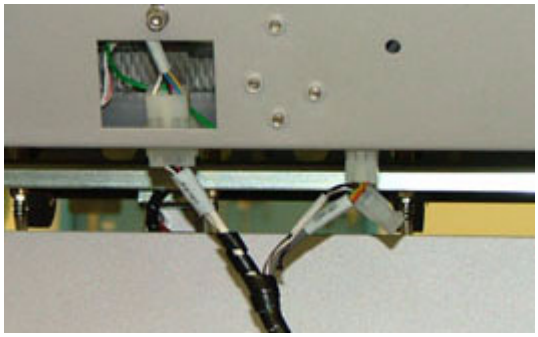


11. Install the two corner brackets onto the single-cassette autoloader.



12. Fully raise the loading conveyor.

13. Connect the loading conveyor DC motor connector and the loading conveyor detector to their respective connectors.



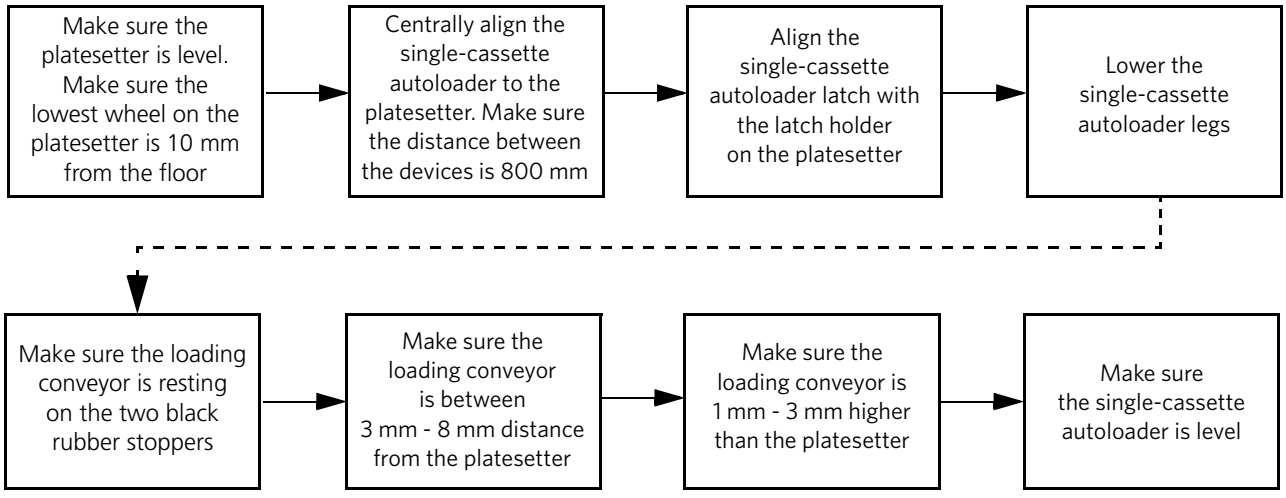
14. Remove the shipping locks from the loading conveyor latch.



Checklist

- ❒ Removed the two lower shipping locks located between the loading conveyor and the single-cassette autoloader
- ❒ Removed the brackets from the single-cassette autoloader chassis and inserted them onto each end of the loading conveyor axle
- ❒ Inserted axle ends into their grooves and secured them with brackets
- ❒ Removed two upper shipping locks
- ❒ Installed the two long gas springs
- ❒ Cut cable tie securing loading conveyor cover to loading conveyor
- ❒ Installed the two short gas springs
- ❒ Installed the two corner brackets onto the single-cassette autoloader
- ❒ Connected the loading conveyor DC motor and loading conveyor detector to their respective connectors
- ❒ Removed shipping lock from loading conveyor latch

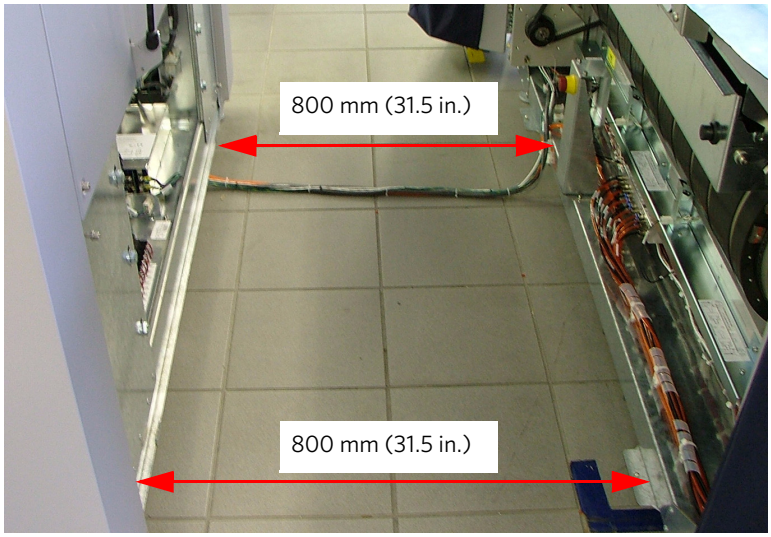
Aligning the Single-Cassette Autoloader to the Platesetter



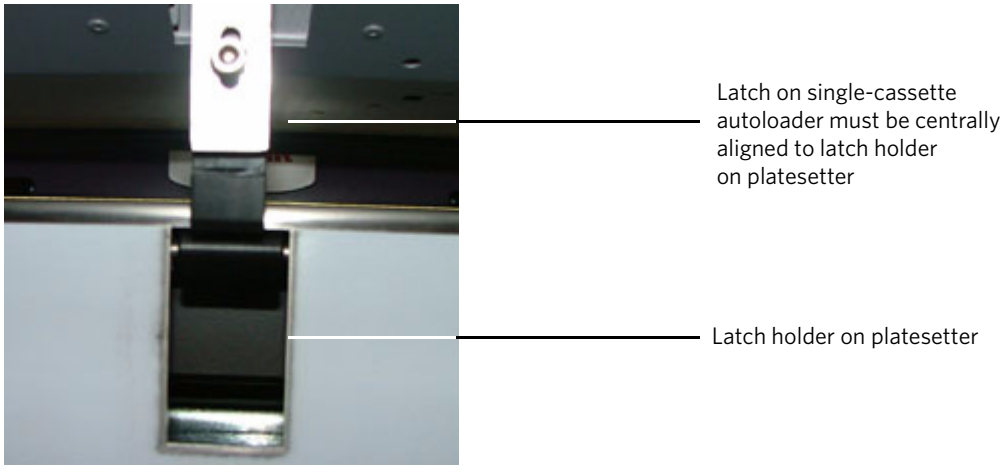
Procedure

1. Make sure the platesetter is level, as described in the *Magnus 800 Platesetter Installation Guide*.
   Use the measuring jig (690-00772A) to make sure the lowest wheel on the platesetter is 10 mm from the floor, as described in the *Magnus 800 Platesetter Installation Guide*.

2. Centrally align the rear of the single-cassette autoloader to the front of the platesetter.
   - The distance between the lowest point on the platesetter chassis to the lowest point on the single-cassette autoloader chassis must be 800 mm (31.5 in.) +/- 1 mm.
   - To achieve central alignment, measure the distance at either end of the chassis.



3. Centrally align the latch on the single-cassette autoloader to the latch holder on the platesetter.
   When the latch is aligned, make sure the parallel distance between the single-cassette autoloader and the platesetter remains at 800 mm (+/- 1 mm).



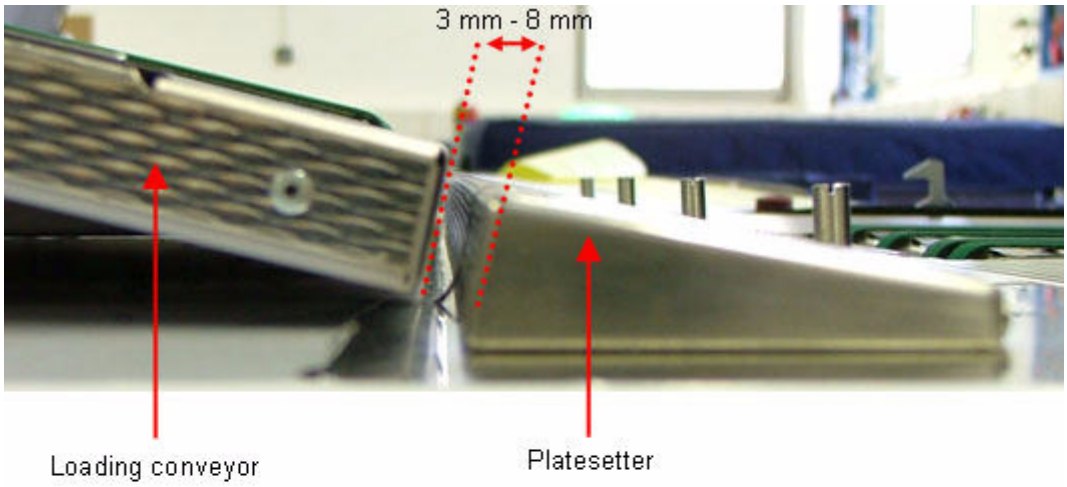
4. **Important:** The loading conveyor's final position determines if the single-cassette autoloader is correctly aligned to the platesetter. There are three main elements that determine if the loading conveyor's final position is correct.
   - Loading conveyor is supported by black rubber stoppers, see step 5.
   - Loading conveyor is parallel to the metal triangle on platesetter permanent table, see step 6.
   - Loading conveyor is approximately 1 mm - 3 mm higher than the metal triangle on the platesetter permanent table, see step 7.

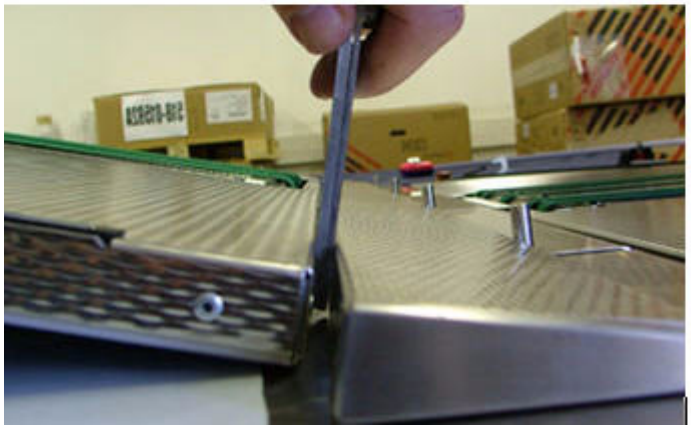
   The loading conveyor can be positioned either closer to, or further away from the platesetter by lowering or raising the single-cassette autoloader's legs.

   Lower the single-cassette autoloader legs.

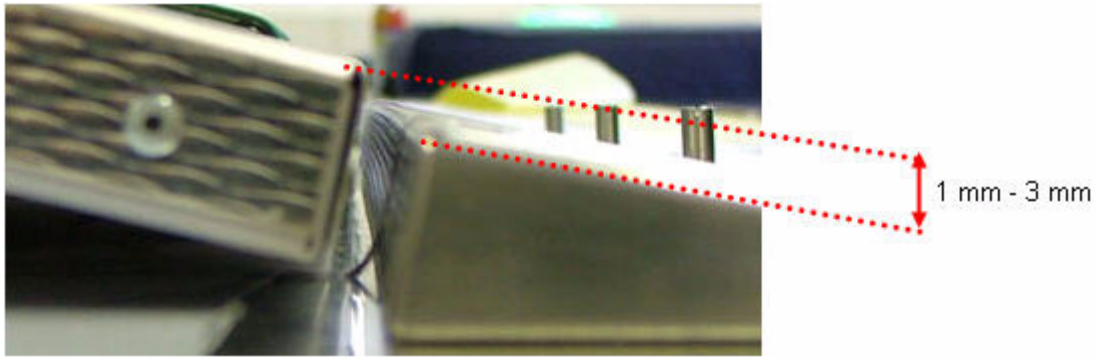
5. Make sure the loading conveyor is supported by the black rubber stoppers.
   - Lower the loading conveyor until it rests on the platesetter permanent table.
   - Located on the underside of the loading conveyor are two black rubber stoppers. Make sure the black rubber stoppers are the only point of contact between the underside of the loading conveyor and the platesetter. If required, lower or raise the single-cassette autoloader legs.
   - Make sure the parallel distance between the single-cassette autoloader and the platesetter remains at 800 mm, and that the latch is correctly positioned.

6. Make sure the loading conveyor is parallel to the metal triangle on the platesetter's permanent table.
   - Use feeler gauges to make sure the parallel distance between the loading conveyor and the metal triangle is between 3 mm to 8 mm (+/- 2 mm). For example, if the distance between the loading conveyor and the metal triangle is 4 mm, then the distance between the two must remain at a constant 4 mm (+/- 2 mm).
   - If required, adjust the single-cassette autoloader legs to achieve parallelism.

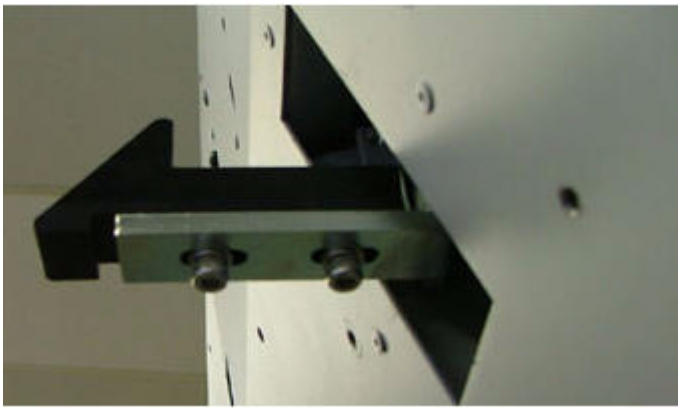




7. Make sure the loading conveyor is approximately 1 mm - 3 mm higher than the metal triangle on the platesetter permanent table.



- If required, adjust the position of the loading conveyor latch until the loading conveyor is located at the correct height.

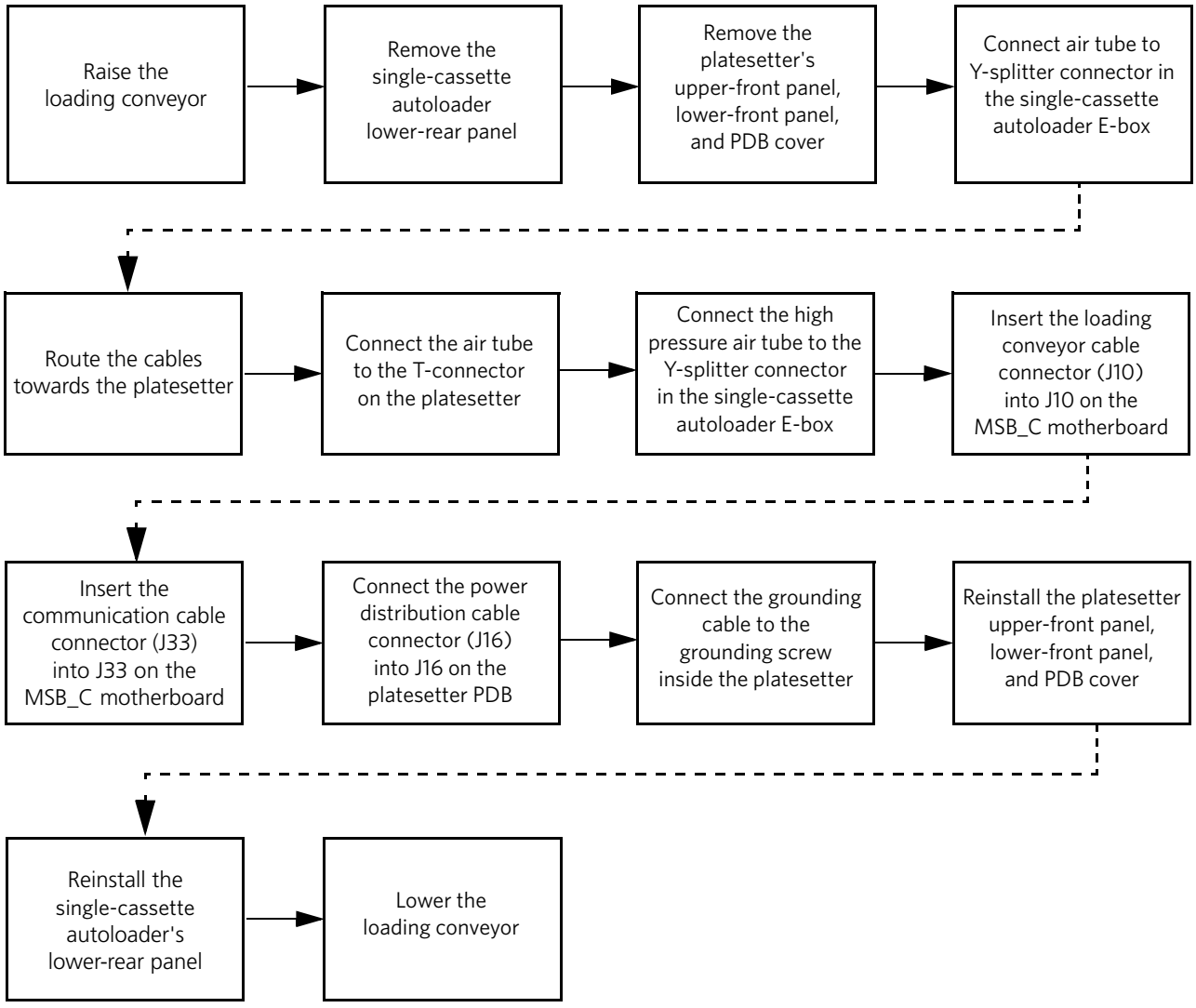


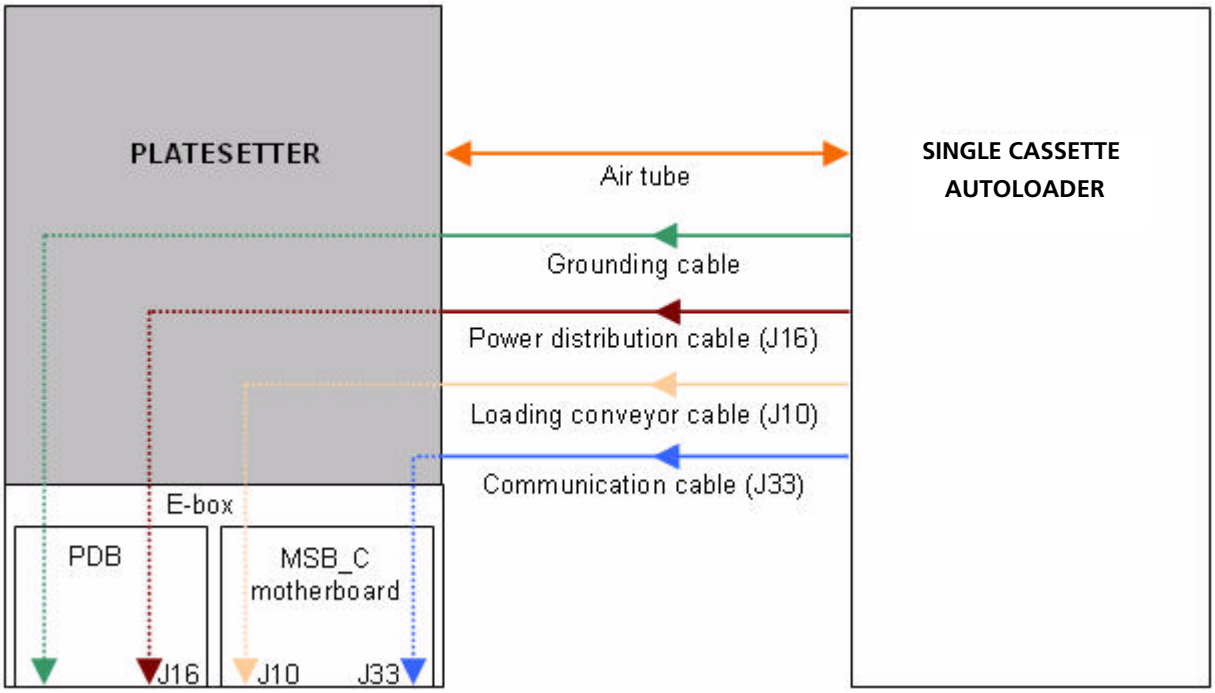
Tip: If required, raise the height of the loading conveyor by moving the latch toward the platesetter. Lower the height of the loading conveyor by moving the latch away from the platesetter.

Checklist

- ❒ Made sure platesetter is level
- ❒ Made sure the lowest wheel on the platesetter is 10 mm from the floor
- ❒ Centrally aligned the single-cassette autoloader to platesetter and made sure that the parallel distance between the two is 800 mm (+/- 1 mm)
- ❒ Centrally aligned the latch on the loading conveyor to the latch holder on the platesetter
- ❒ Lowered the single-cassette autoloader legs
- ❒ Made sure the loading conveyor is supported on the black rubber stoppers
- ❒ Made sure that the distance between the edge of the loading conveyor and the metal triangle on the platesetter is between 3 mm - 8 mm
- ❒ Made sure loading conveyor is parallel to the metal triangle on the platesetter
- ❒ Made sure the loading conveyor is approximately 1 mm - 3 mm higher than the metal triangle on the platesetter wing
- ❒ Made sure the single-cassette autoloader is level

Connecting the Single-Cassette Autoloader Cables





Procedure
1. Raise the loading conveyor.
2. Remove the single-cassette autoloader lower-rear panel.
3. Remove the platesetter's upper-front panel, lower-front panel, and power distribution board cover.
4. Cut the cable ties securing the following: ▪ Power distribution cable (J16) - high voltage cable ▪ Grounding cable - green/yellow ▪ Air tube (orange) ▪ Loading conveyor cable (J10) - two white and one grey cable ▪ Communication cable (J33)
5. Connect one end of the air tube to the Y-splitter air connector, located inside the single-cassette autoloader E-box. 

6. Route the power distribution cable (J16), grounding cable, air tube, loading conveyor cable (J10), and communication cable (J33) through the access hole on the left side of the single-cassette autoloader E-box, and then route the cables towards the platesetter.



7. Connect the air tube.
   - Insert the air tube leading from the single-cassette autoloader into the air tube T-connector on the platesetter. The T-connector is located near to the drum.



8. Connect the high pressure air tube (included inside the accessories kit - 518-01092A) to the Y-splitter air connector. The Y-splitter air connector is located inside the single-cassette autoloader E-box.



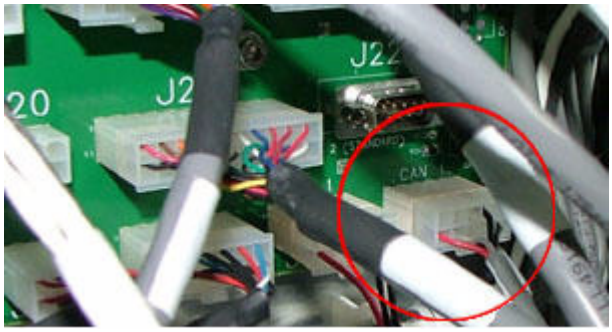
9. Insert the loading conveyor cable connector (J10) into the J10 socket on the MSB_C motherboard.







10. On the platesetter, insert the communication cable (J33) connector into the J33 socket on the MSB_C motherboard.



11. Connect the power distribution cable connector (J16) into the J16 socket on the power distribution board.





12. Use a 10-mm wrench to connect the grounding cable to the grounding screw.



13. Use cable ties to secure the power distribution cable, air tube, grounding cable, and loading conveyor cables into place.

Important: Make sure the cables are not touching the power supply box.

14. Reinstall the platesetter's upper-front panel, lower-front panel, and power distribution board cover.

15. Reinstall the single-cassette autoloader's lower-rear panel.

16. Lower the loading conveyor.

Checklist

- ❒ Raised the loading conveyor
- ❒ Removed the single-cassette autoloader's lower-rear panel
- ❒ Removed the platesetter's upper-front panel, lower-front panel, and PDB cover
- ❒ Connected air tube to Y-splitter connector, located in the single-cassette autoloader's E-box.
- ❒ Routed the power distribution cable (J16), grounding cable, air tube, loading conveyor cable (J10), and communication cable (J33) through the access hole on the left side of the single-cassette autoloader's E-box, and then routed the cables towards the platesetter
- ❒ Connected the air tube to the T-connector on the platesetter
- ❒ Connected high pressure air tube to the Y-splitter connector located in the single-cassette autoloader E-box
- ❒ Inserted conveyor cable (J10) into J10 socket on the MSB_C motherboard
- ❒ Inserted the communication cable (J33) connector into the J33 socket on the MSB_C motherboard
- ❒ Connected the power distribution cable connector (J16) into the J16 socket on the power distribution board
- ❒ Connected the grounding cable to the grounding screw
- ❒ Reinstalled the platesetter upper-front panel, lower-front panel, and power distribution cover
- ❒ Reinstalled the single-cassette autoloader's lower-rear panel
- ❒ Lowered the loading conveyor

Installing the Paper Disposal Slide Extension

Procedure

1. Open the single-cassette autoloader paper disposal door, and tighten the two screws that secure the paper disposal slide extension onto the single-cassette autoloader.



2. Close the paper disposal door.

Checklist

- ❒ Opened single-cassette autoloader paper disposal door
- ❒ Tightened the screws that secure paper disposal slide extension onto the single-cassette autoloader
- ❒ Closed single-cassette autoloader paper disposal door

Adjusting the Cassette's Position Inside the Single-Cassette Autoloader

To adjust the cassette's position inside the single-cassette and trolley, see Adjusting the Cassette's Position Inside the Single-Cassette Autoloader.

Completing the Installation

The default version of Magnus 800 Controller software is configured for semi-automatic platesetters. Therefore you must reconfigure the software's default parameters if you installing a single-cassette autoloader.
The single-cassette autolaoder has its own CD containing that module's specific parameters. The CD, along with a hard copy of the module's parameters, can be found in the Accessories Kit.

Procedure

1. Make sure the platesetter's MSB motherboard CAN switch is set to off, and the autoloader's CAN switch is set to on.
2. Turn on the Magnus 800 computer and wait for the operating system to boot up.
3. Insert the single-cassette autoloader parameter CD into the computer's CD-ROM drive and wait for a screen message to appear prompting you to accept the merger of parameters. Select the **Yes** option.
4. Insert the **Magnus 800 Version CD** into the CD-ROM drive. Wait for the **Install Shield** program to start and then configure the Magnus 800 Controller software according to the customer's requirements.
   - Set the automation, orientation, number of cassettes, unloading conveyor, connectivity option, and company name.
   - Check the punch option, platesetter serial number, and single-cassette autoloader serial number.
5. Restart the Magnus 800 computer.
6. Close the single-cassette autoloader top covers.
7. Assemble the paper disposal bin.
8. Individually load all the customer's different plates sizes and check the following:
   - Make sure that there are no suction cups falling half on and half off the plate.
   - If required, adjust the suctions cups' positioning, until the optimum number of suction cups correctly fall on each individual plate size.
9. If the platesetter has just been installed, perform the following actions:

   A.Loading and unloading sequence.

   B.Plate media calibration.

   C.Configure the *Kodak Magnus* 800 computer to the customer's network (as described in the *Kodak Magnus 800 Platesetter Installation Guide*).

   D.Check the connection between the *Brisque* workstation / *Prinergy* server and the platesetter

   E.Installation test procedures (as described in the Installation Test procedure document).

Checklist

- ❒ Made sure platesetter's MSB motherboard CAN is set to off and the single-cassette autoloader's CAN switch is set to on.
- ❒ Turned on the Magnus 800 computer
- ❒ Inserted the single-cassette autoloader parameter CD into the Magnus 800 computer and merged the parameters
- ❒ Inserted the Magnus 800 Version CD into the Magnus 800 computer and configured the Magnus 800 Controller software according to the customer's requirements
- ❒ Closed the single-cassette autoloader top covers
- ❒ Assembled the paper disposal bin
- ❒ Performed loading and unloading
- ❒ Performed plate media calibration
- ❒ Configured the Magnus 800 computer to the customer's network.
- ❒ Checked the Brisque/Prinergy connection
- ❒ Performed the installation test procedures