Kodak

Magnus 800 Single-Cassette Autoloader

S300

Installation Guide

English

Internal 731-01115C-EN Rev B

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Introduction

The *Magnus 800 Single-Cassette Autoloader S300 Installation Guide* describes the process of unpacking and installing a Kodak® Magnus™ 800 single-cassette autoloader S300 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
- 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.

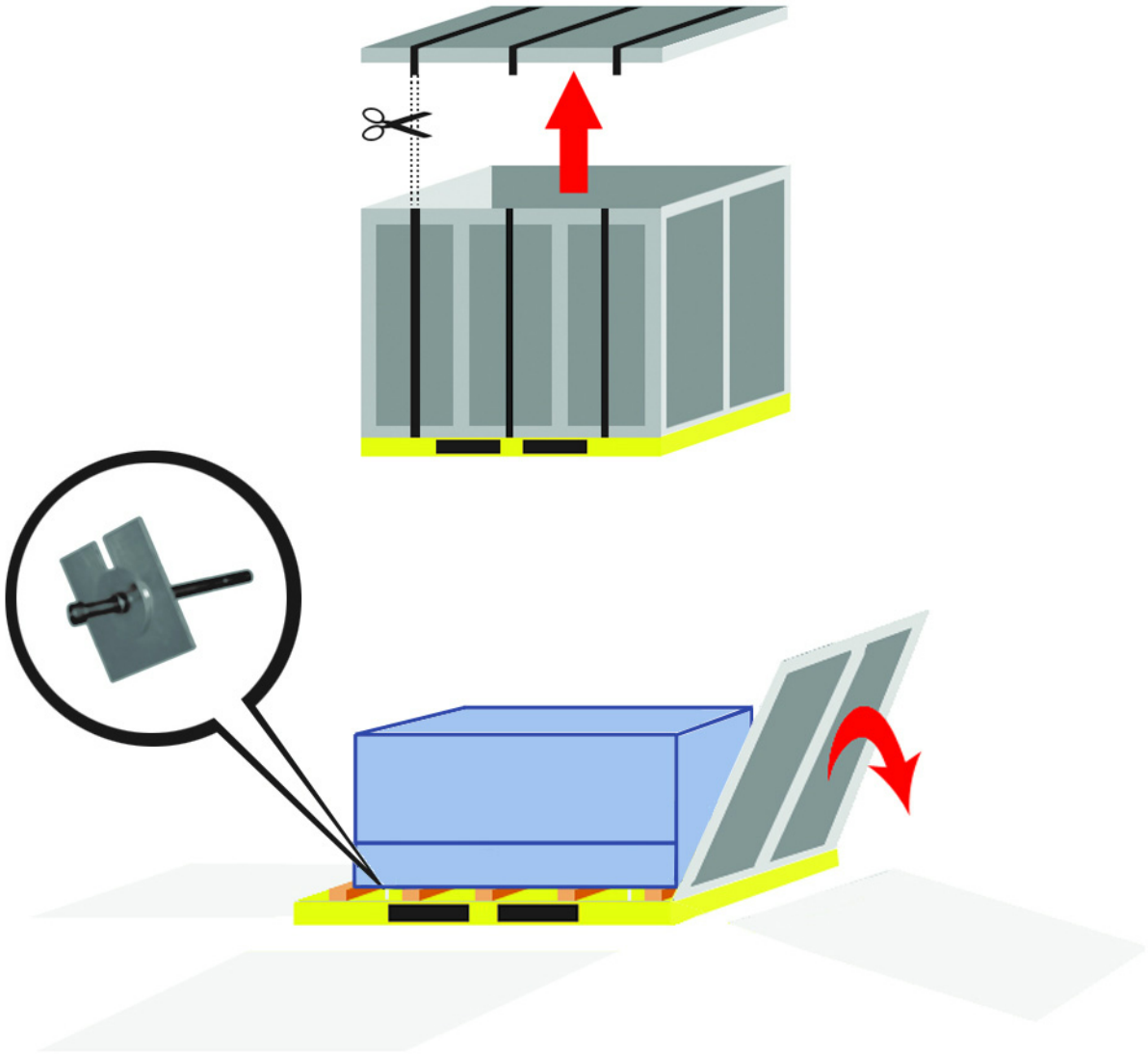
Check the following:

- 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.

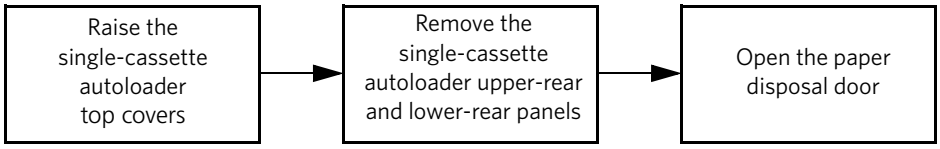
Removing the Single-Cassette Autoloader From the Packaging



Unpacking and Assembling the Single-Cassette and Trolley

The single-cassette and trolley are shipped in a separate box to that 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.

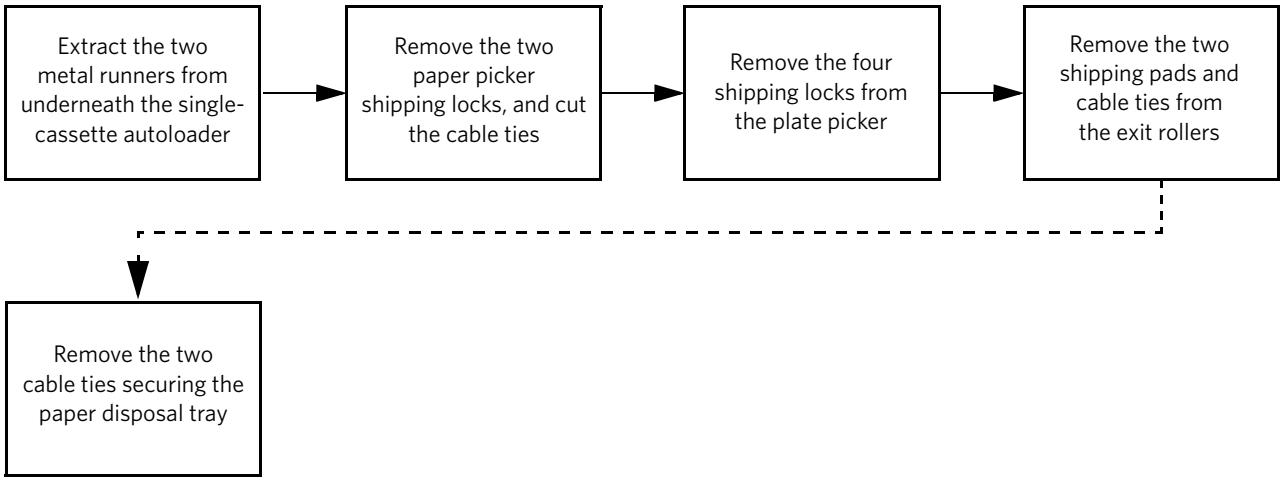
Removing the Single-Cassette Autoloader Panels and Doors



Checklist

- ❒ Raised single-cassette autoloader top covers
- ❒ Removed the single-cassette autoloader upper-rear and lower-rear panels
- ❒ Opened paper disposal door

Removing the Shipping Locks and Runners



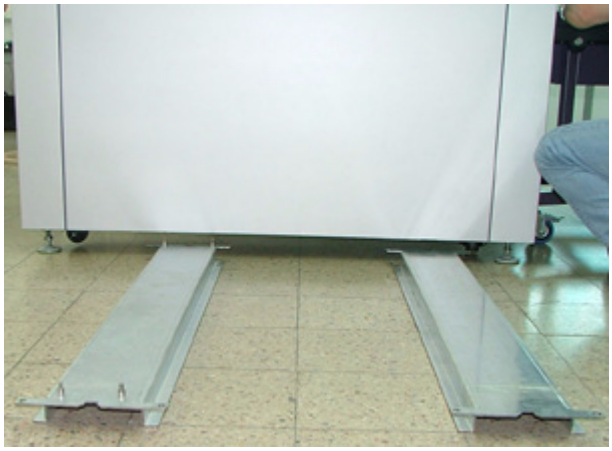
Procedure

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 runners, shipping locks, and shipping pads from the following locations:

Single-Cassette Autoloader Runners

Extract the two metal runners from underneath the rear side of the single-cassette autoloader, and place the runners in parallel, between the single-cassette autoloader and the platesetter.



Paper Picker

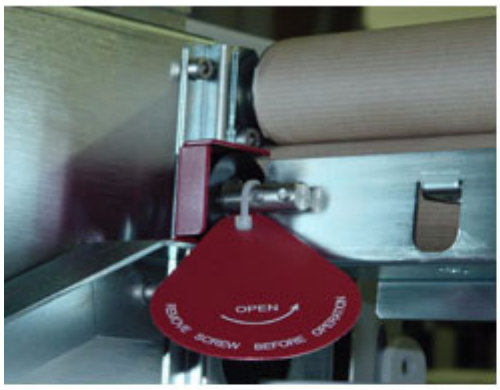
There are a total of two shipping locks securing the paper picker. Remove one shipping lock from each side of the paper picker.

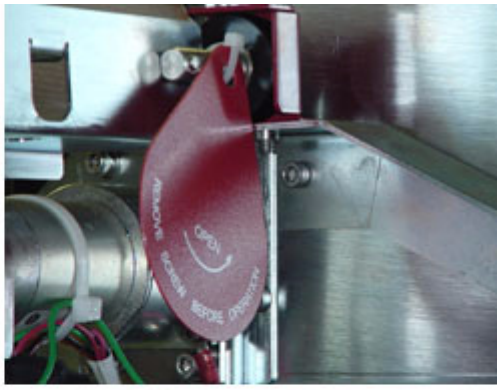


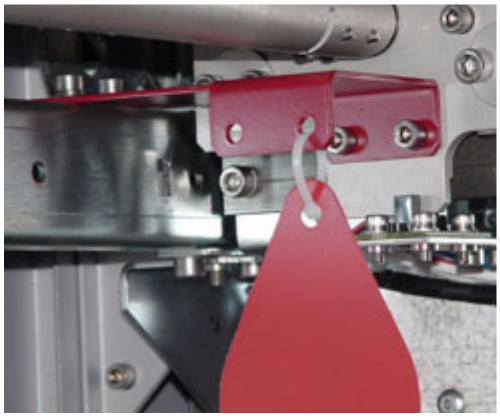


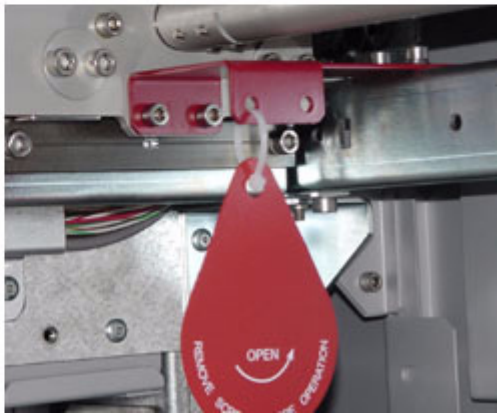
Plate Picker

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

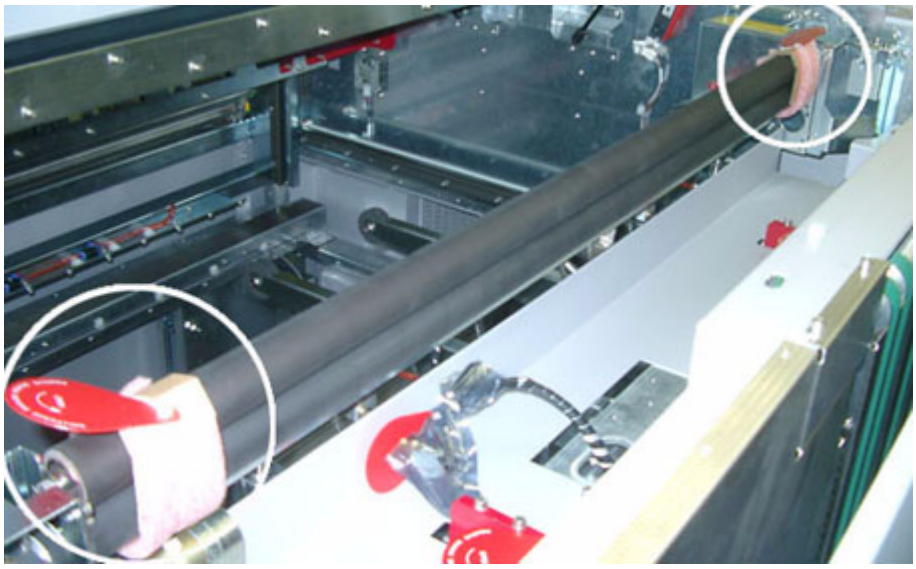




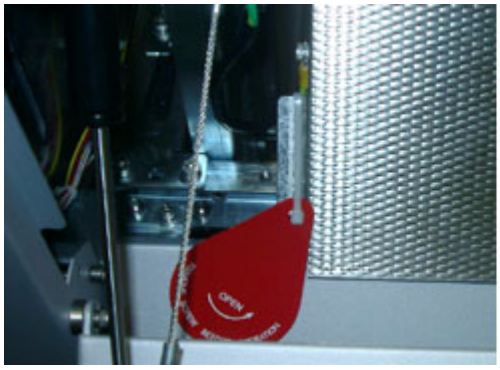


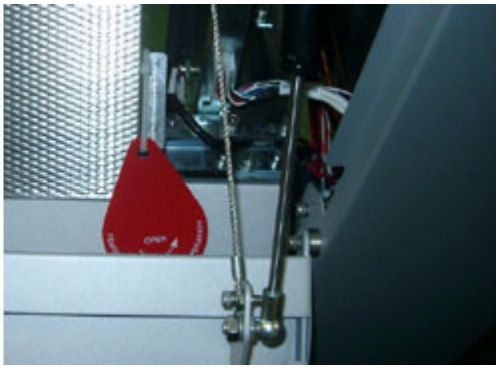


Exit Rollers
Remove the two shipping pads and cable ties from each side of the exit rollers.



Paper Disposal Tray
Remove the two cable ties securing the paper disposal tray.



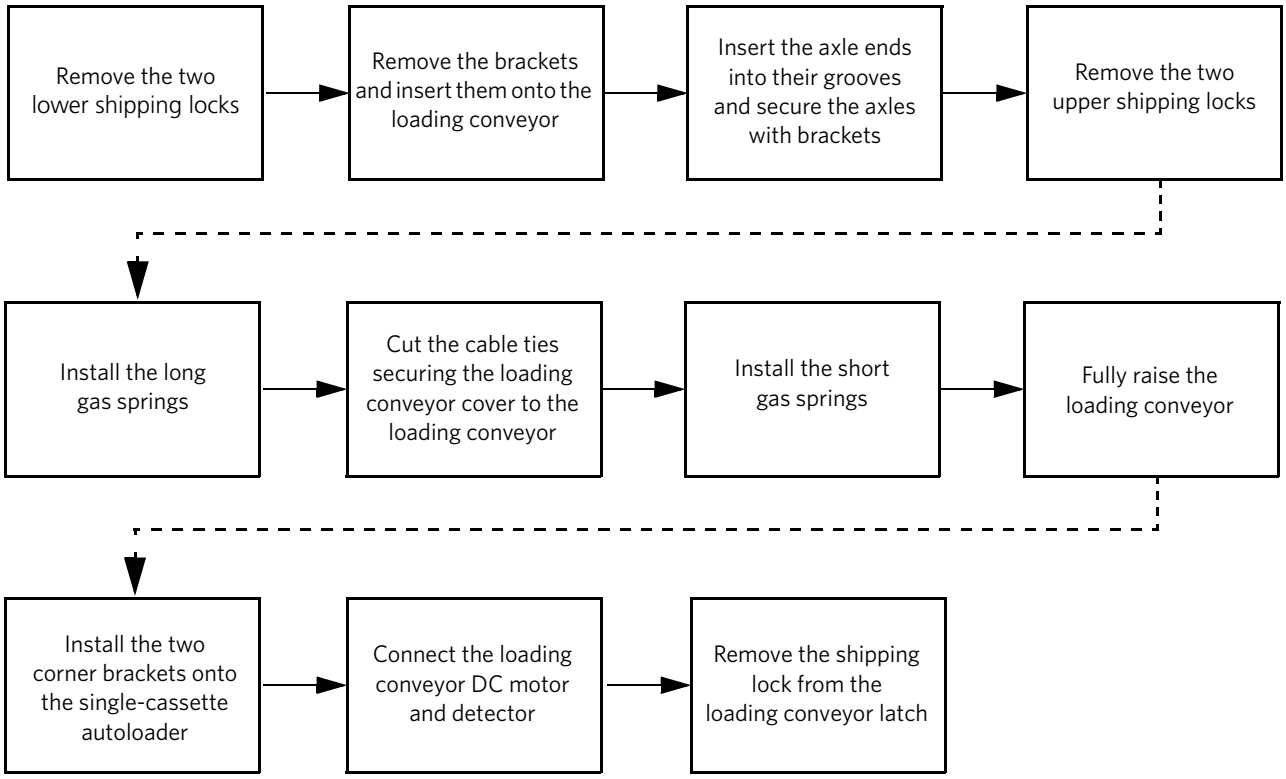


MSB Board
Remove the foam shipping pad wrapped around the MSB.

Checklist

- ❒ Extracted the two metal runners from underneath the single-cassette autoloader
- ❒ Removed the two paper picker shipping locks
- ❒ 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
- ❒ Removed the foam shipping pad from the MSB

Installing the Loading Conveyor

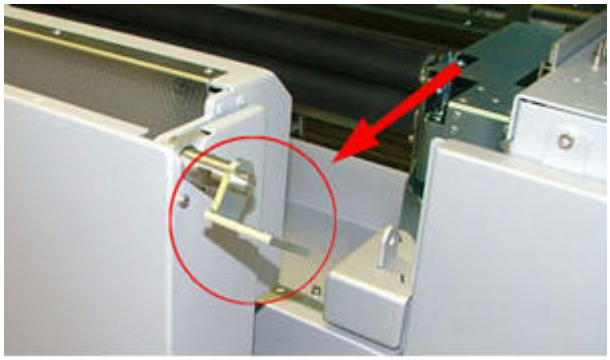


Procedure

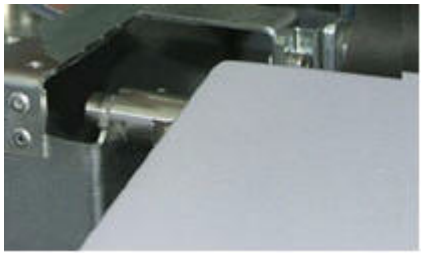
1. Remove the two lower shipping locks located between the loading conveyor and the single-cassette autoloader.



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.



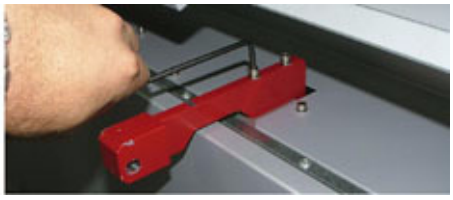
5. Lower the loading conveyor. The conveyor rotates on its axis, and is secured in place by the two upper shipping locks—located on the upper half of the loading conveyor.



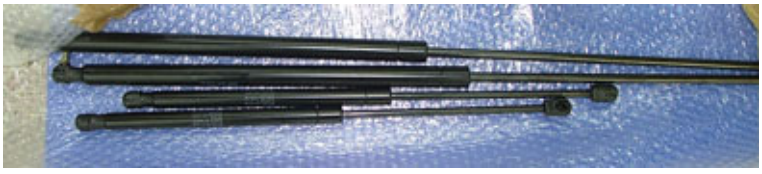
6. While one engineer grips the loading conveyor, the second engineer removes the side screw securing each of the two upper shipping locks to the loading conveyor.




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 (two screws per lock).



8. Install the two long gas springs onto each side of the loading conveyor.
   a. Open the package containing the long gas springs (part number 362-00060) and the short gas springs (362-00059).



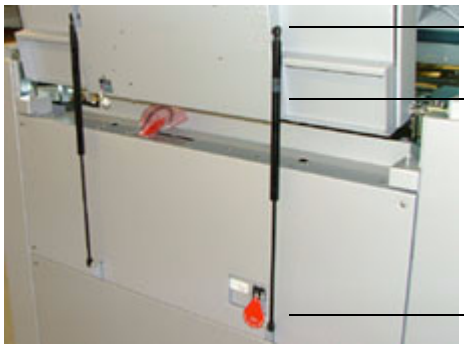
   b. While one engineer fully raises the loading conveyor, the second engineer assembles the two long gas springs. Make sure the gas springs are positioned the correct way up.
   c. Insert the screw thread, located on the end of the long gas spring, into the gas spring hole located on the loading conveyor.
   d. Secure the upper end of the long gas spring to the loading conveyor by using a 13-mm wrench to tighten the gas spring nut.



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



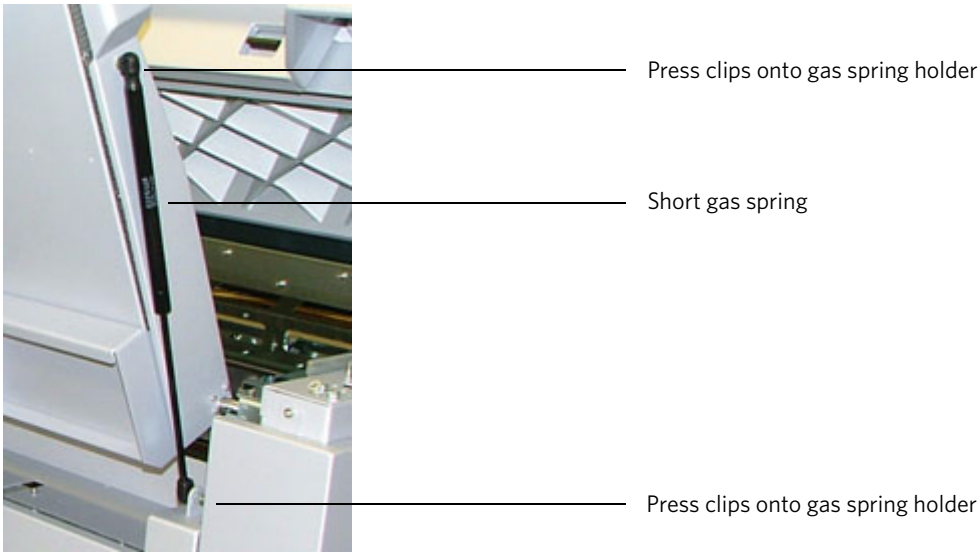




9. Cut the cable ties securing the loading conveyor cover to the loading conveyor.

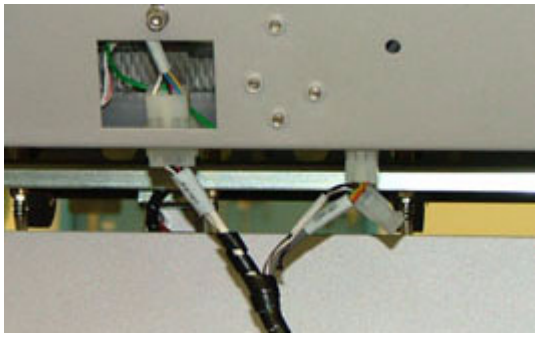


10. Install the two short gas springs onto each side of the loading conveyor.
    a. Lower the loading conveyor but keep the loading cover in an upright position.
    b. Clips are located on each end of the short gas springs. Secure the short gas springs to the single-cassette autoloader by pressing the clips onto the gas spring holders.



11. Fully raise the loading conveyor.

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



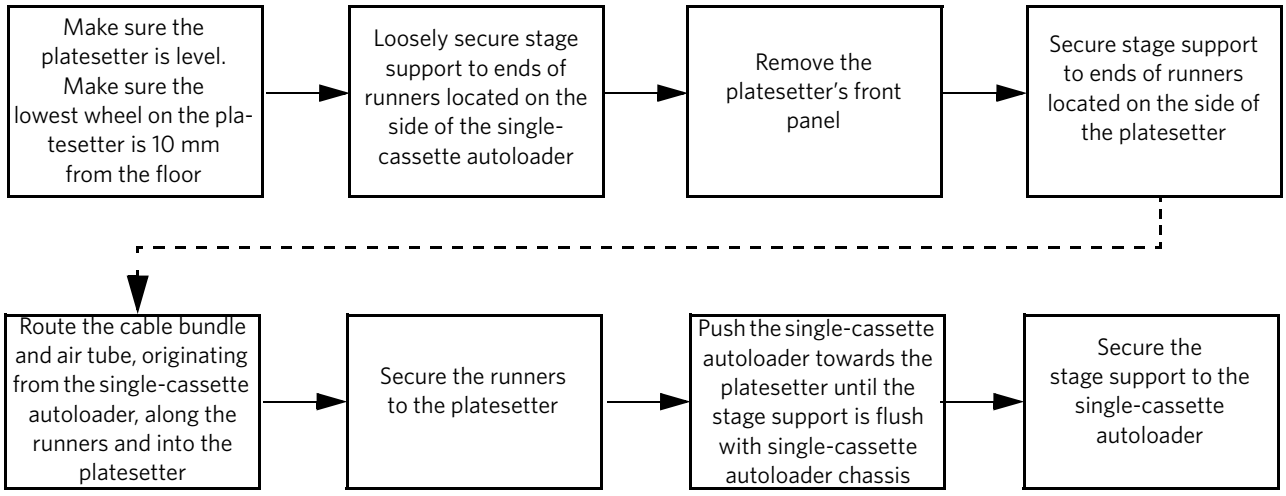
13. Remove the shipping locks from the loading conveyor latch.



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
- ❒ Raised the loading conveyor
- ❒ Connected the loading conveyor DC motor and loading conveyor detector to their respective connectors
- ❒ Removed shipping lock from loading conveyor latch

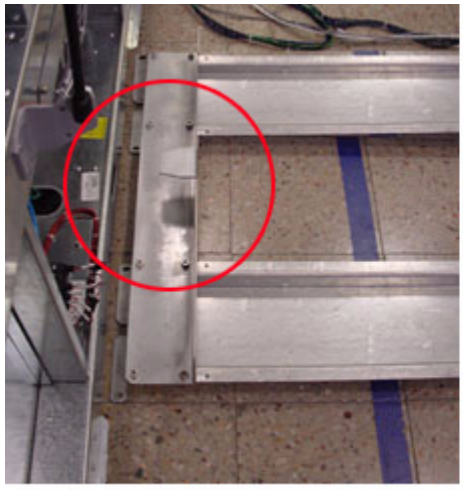
Securing the Single-Cassette Autoloader to the Platesetter

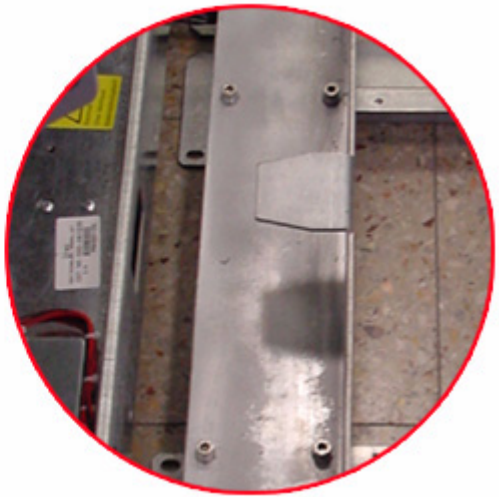


Procedure

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. The single-cassette autoloader stage support (252-11799A) can be distinguished from the platesetter's stage support by its tongue. Secure the stage support with the tongue to the end of the runners located closest to the single-cassette autoloader.
   a. Insert eight screws to secure the single-cassette autoloader stage support to the runners.
   b. Make sure the stage support is positioned the correct way around. The tongue on the top of the stage support must be facing toward the single-cassette autoloader.



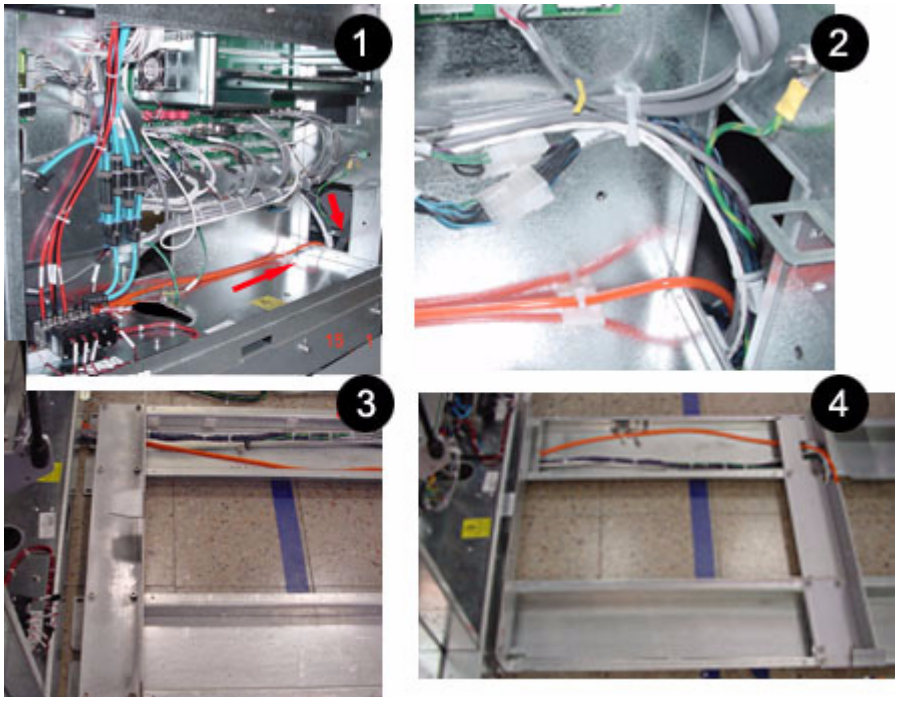


3. Secure the platesetter's stage support (252-11810A) to the end of the runners located closest to the platesetter.
   a. Remove the platesetter's front panel.
   b. Use eight screws to secure the platesetter's stage support to the runners.

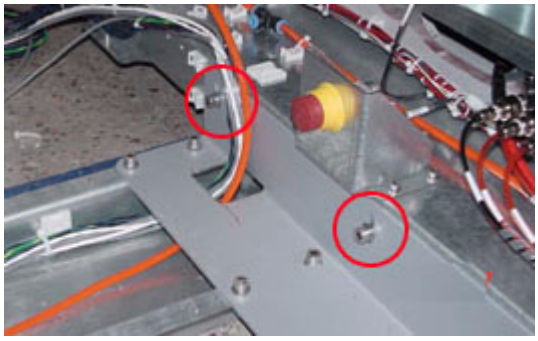


4. The single-cassette autoloader is shipped with a bundle of cables (J10, J33, grounding cable, power supply cable) and an air tube—all of which can be accessed from inside the E-box. Each cable is already connected at one end to the single-cassette autoloader.
   a. Route the air tube and the unconnected cable ends through the single-cassette autoloader access hole—located at the side of the E-box (see image 1, 2).
   b. Route the cables underneath the single-cassette autoloader's left stage support (see image 3), lay the cables along the runner, and then route the cables through the access hole located on the platesetter's stage support (see image 4).

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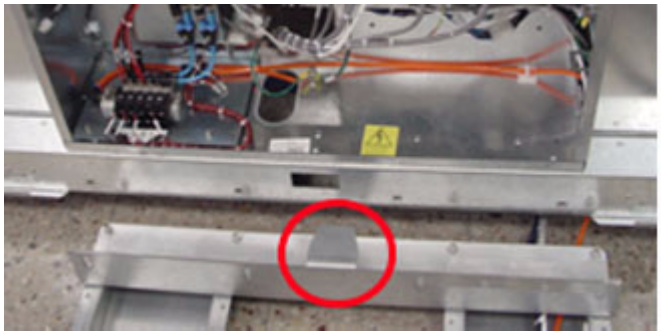


5. Move the platesetter's stage support until it is flush against the platesetter chassis. Use four screws to secure the platesetter's stage support to the platesetter chassis.



6. Push the single-cassette autoloader towards the platesetter until the single-cassette autoloader's stage support is flush against the single-cassette autoloader's chassis.

7. Insert four screws to loosely secure the single-cassette autoloader's stage support to the single-cassette autoloader chassis.
   - Do not tighten the screws at this stage.
   - Make sure the tongue on the stage support is inserted into the custom made hole on the single-cassette autoloader chassis.

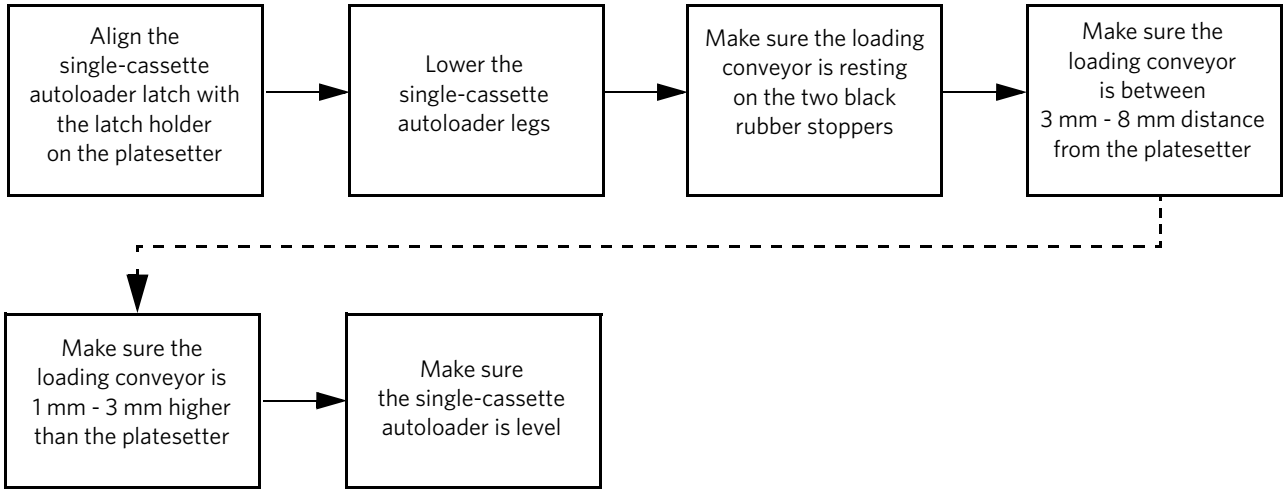




Checklist

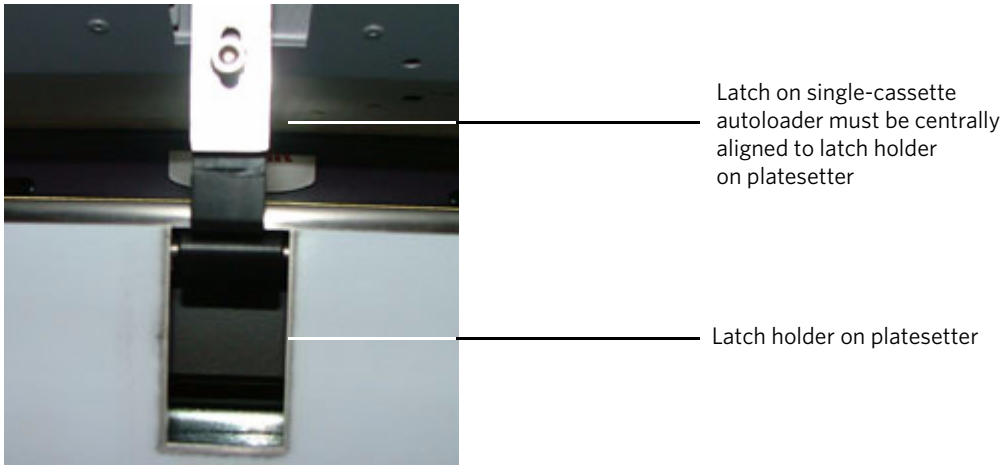
- ❒ Made sure platesetter is level
- ❒ Made sure the lowest wheel on the platesetter is 10 mm from the floor
- ❒ Secured single-cassette autoloader stage support to runners
- ❒ Removed the platesetter's front panel
- ❒ Secured platesetter stage support to runners
- ❒ Routed the cable bundle and air tube, originating from the single-cassette autoloader, along the runners and into the platesetter
- ❒ Secured the platesetter stage support to the platesetter chassis
- ❒ Pushed the single-cassette autoloader towards the platesetter until the single-cassette autoloader stage support was flush with platesetter chassis
- ❒ Secured the single-cassette autoloader stage support to the single-cassette autoloader chassis

Adjusting the Height of the Single-Cassette Autoloader



Procedure

1. Centrally align the latch on the single-cassette autoloader to the latch holder on the platesetter.

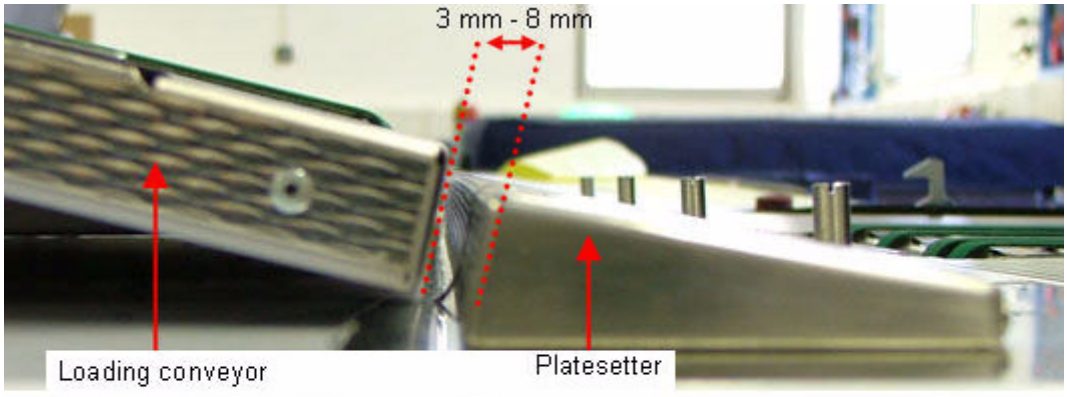


2. Important: **The loading conveyor's final position determines if the single-cassette autoloader is at the correct height in relation to the platesetter. There are three main elements that determine if the loading conveyor's final position is correct.**
   - Loading conveyor is supported by black rubber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

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

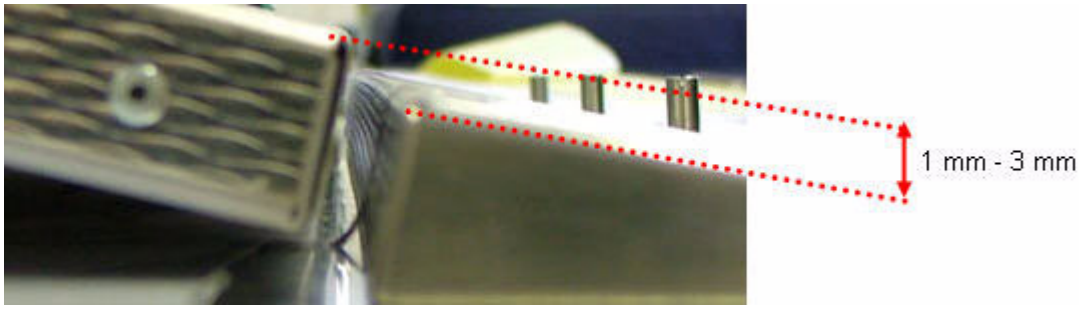
3. Make sure the loading conveyor is supported by the black rubber stoppers.
   a. Lower the loading conveyor until it rests on the platesetter permanent table.
   b. Located on the underside of the loading conveyor are two black rubber stoppers. Make sure the black rubber stoppers are the only point of contact between the underside of the loading conveyor and the platesetter. If required, lower or raise the single-cassette autoloader legs.
   c. Make sure the latch remains in its correct position.

4. Make sure the loading conveyor is parallel to the metal triangle on the platesetter's permanent table.
   a. 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).
   b. If required, adjust the single-cassette autoloader legs to achieve parallelism.





5. 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 loading conveyor latch until the loading conveyor is located at the correct height.



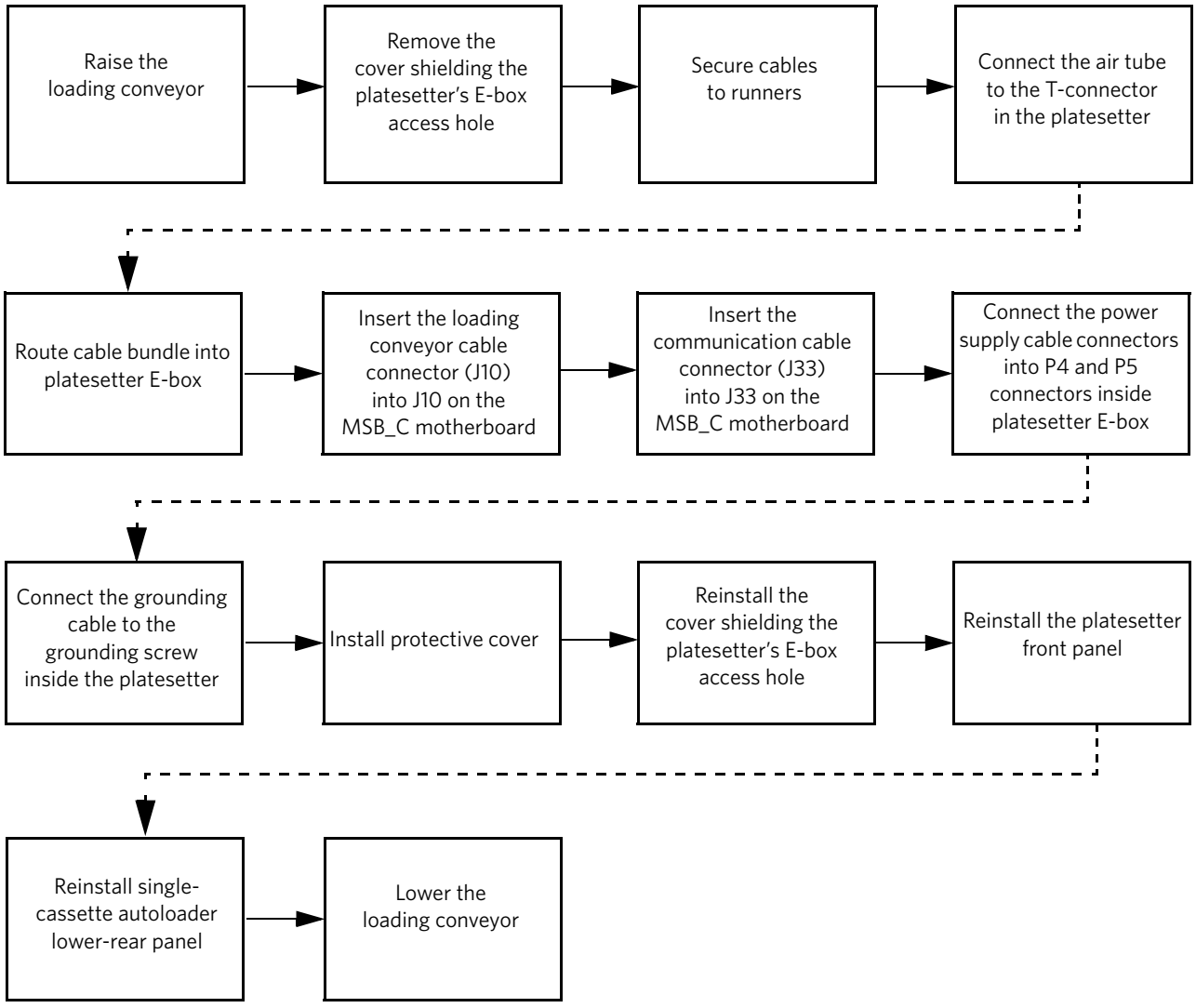
Tip: **If required, raise the height of the loading conveyor by moving the latch toward the platesetter. Lower the height of the loading conveyor by moving the latch away from the platesetter.**

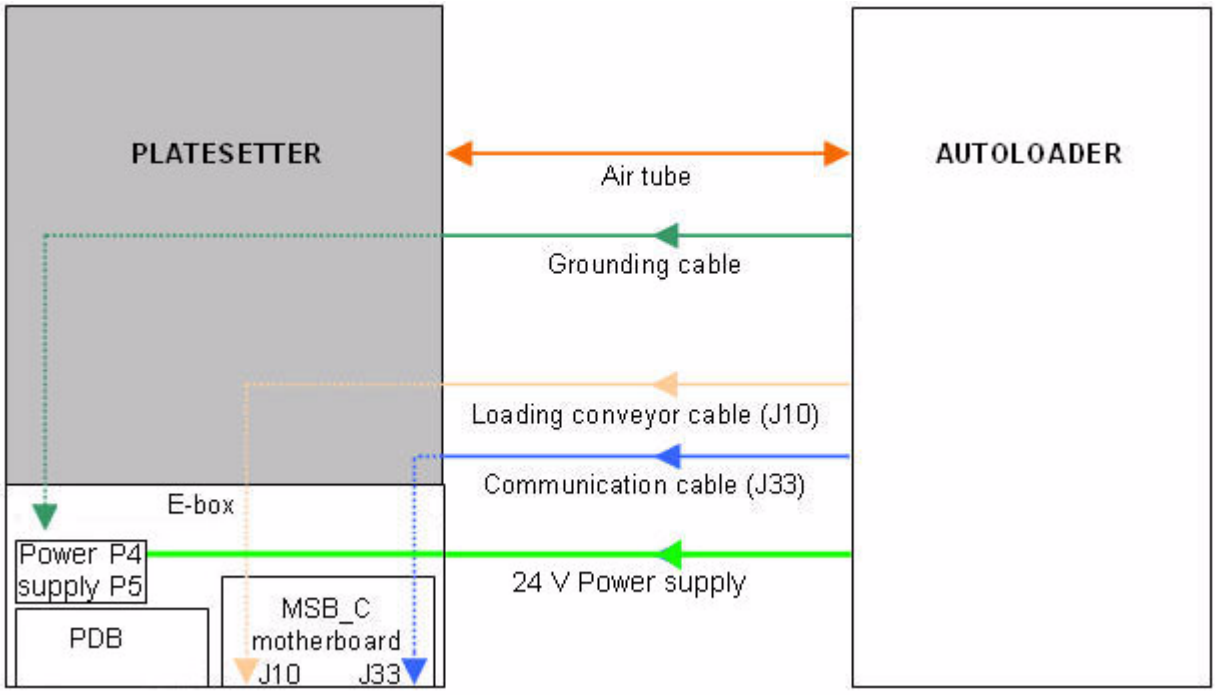
6. Make sure the single-cassette autoloader is level.

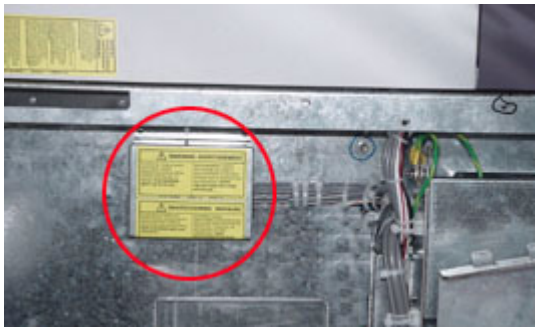
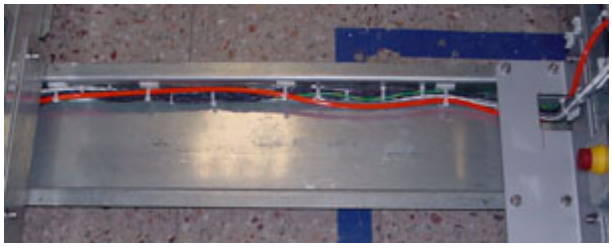
Checklist

- ❒ Aligned the latch on the loading conveyor to the platesetter's latch holder
- ❒ 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

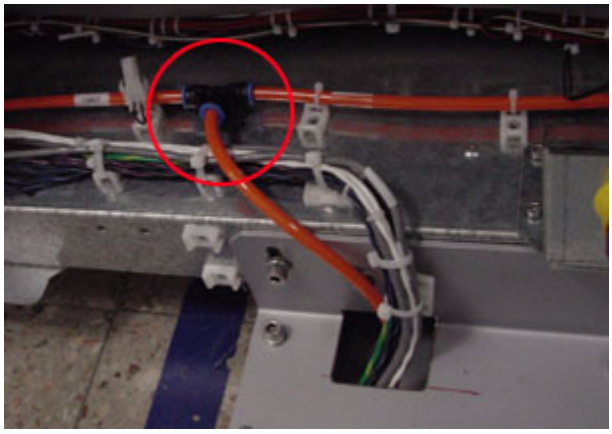
Connecting the Single-Cassette Autoloader Cables





Procedure
1. Raise the loading conveyor.
2. On the left side of the platesetter, remove the cover shielding the platesetter's E-box access hole. 
3. Use cable ties to secure the cables to the runner walls. 

4. Connect the air tube (originating from the single-cassette autoloader) to the air tube T-connector on the platesetter.

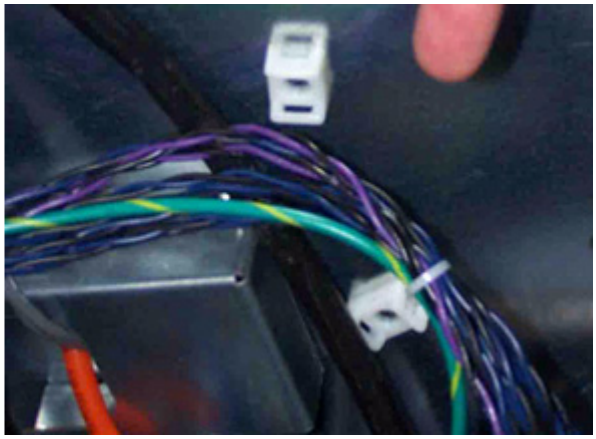


5. Route the loading conveyor cable (J10) and communication cable (J33) through the E-box access hole on the inside of the platesetter.

6. Route the grounding cable and the two power supply cables (1x purple cable, 1x black cable) through the upper E-box access hole on the inside of the platesetter. From inside the platesetter's left side door, pull the cables through the access hole and into the E-box. Use cable ties to secure the cables as far away as possible from the optomech.







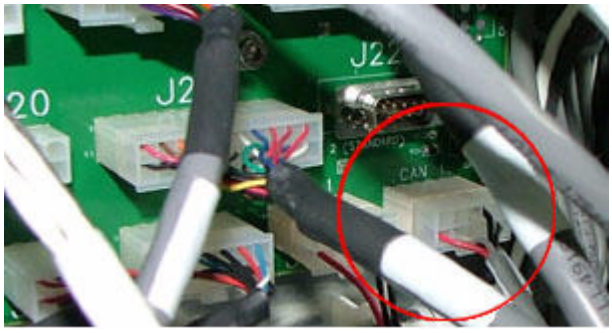
7. Insert the loading conveyor cable connector (J10) into the J10 socket on the platesetter MSB_C motherboard.



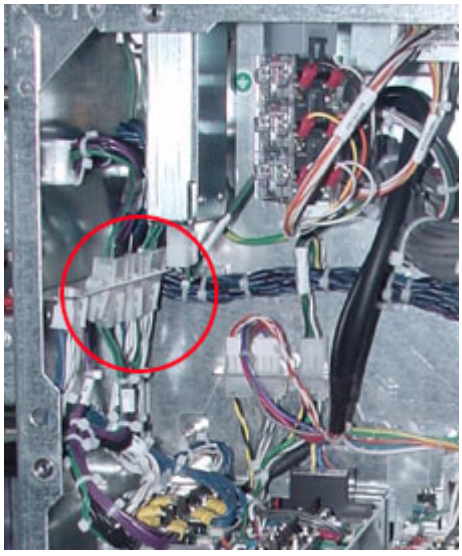




8. On the platesetter, insert the communication cable (J33) connector into the J33 socket on the MSB_C motherboard.



9. On the platesetter, connect the ends of the 24 V power supply cable to the P4 and P5 connectors located inside the platesetter's E-box.



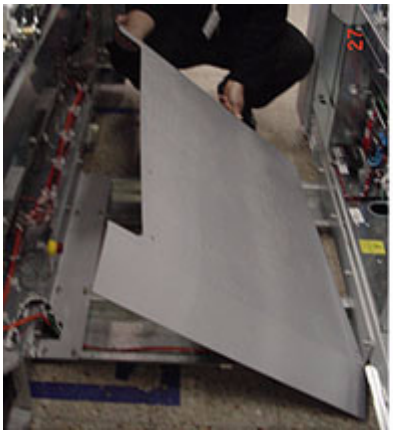
10. Use a 10-mm wrench to connect the grounding cable to the grounding screw.



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

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

12. Install the protective cover used for shielding the cables leading from the single-cassette autoloader to the platesetter.
    a. Place the protective cover over the runners.
    b. Use four screws to secure the protective cover to the single-cassette autoloader chassis,
    c. Use four screws to secure the protective cover to the platesetter chassis.




13. Reinstall the protective cover that shields the platesetter access hole.
14. Reinstall the platesetter's front panel
15. Reinstall the single-cassette autoloader's lower-rear panel.
16. Lower the loading conveyor.

Checklist

- ❒ Raised the loading conveyor
- ❒ Removed cover that shields platesetter E-box access hole
- ❒ Secured cables to runners
- ❒ Connected air tube to T- connector in the platesetter
- ❒ Routed cable bundle through the two platesetter access holes
- ❒ 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 supply cable connectors into P4 and P5 connectors inside platesetter E-box
- ❒ Connected the grounding cable to the grounding screw
- ❒ Installed the protective cover on top of the runners
- ❒ Reinstalled cover that shields platesetter to E-box access hole
- ❒ Reinstalled the platesetter front panel
- ❒ Reinstalled the single-cassette autoloader's lower-rear panel
- ❒ Lowered the loading conveyor

Installing the Paper Disposal Slide Extension

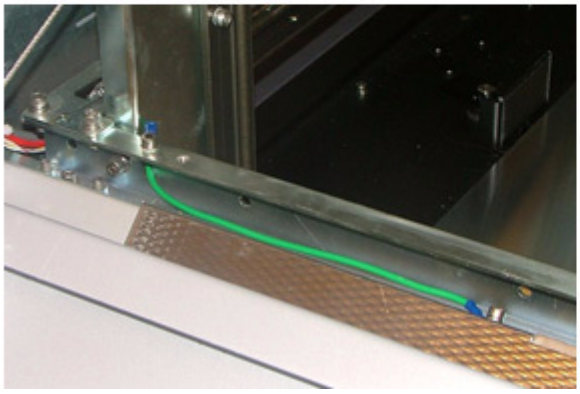
Procedure

Open the single-cassette autoloader paper disposal door and perform the following actions:

1. Remove the screw located on the right of the paper disposal slide extension.
2. Install the grounding cable to ground the paper disposal slide extension.
3. Tighten the two screws that secure the paper disposal slide extension to the single-cassette autoloader.









4. Close the paper disposal door.

Checklist

- ❒ Opened single-cassette autoloader paper disposal door
- ❒ Grounded the paper disposal slide extension
- ❒ 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 the 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 autoloader 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. Cut the two cable ties securing the paper picker.
3. Turn on the Magnus 800 computer and wait for the operating system to boot up.
4. 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.
5. 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.
6. Restart the Magnus 800 computer.
7. Close the single-cassette autoloader top covers.
8. Assemble the paper disposal bin
9. Send the carriage to EP (1130). Ensure that neither the carriage or head are rubbing against any cables.
10. Individually load all the customer's different plates sizes and then perform the following actions:. ▪ In the Magnus 800 Controller software, locate the Tools dialog box, define the customer's plate, and select the unloading conveyor's direction ▪ Make sure that there are no suction cups falling 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
11. 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.
- ❒ Cut the two cable ties securing the paper picker
- ❒ 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
- ❒ Sent the carriage to EP
- ❒ Defined customer's plate and selected the unloaded conveyor direction
- ❒ Checked the position of the suction cups
- ❒ 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