Kodak

Magnus 800 Multi-Cassette Autoloader

S300

Installation Guide

English

Internal 731-01093C-EN Rev B

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Introduction

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

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

Tools Required

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

- Personal tools and jig kit (516-00021A)
- Hex keys
- Cross-head and flat-head screwdrivers
- Loctite™ 242 adhesive
- Level
- Wrenches: 10 mm, 13 mm, 17 mm, M13, M22, M27, M30

Unpacking the Multi-Cassette Autoloader

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



WARNING: Before unpacking the multi-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 multi-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 multi-cassette autoloader. Wait at least 24 hours (preferably 48 hours) for the multi-cassette autoloader to gradually reach room temperature.
- If the weather is very humid, do not unpack the multi-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.

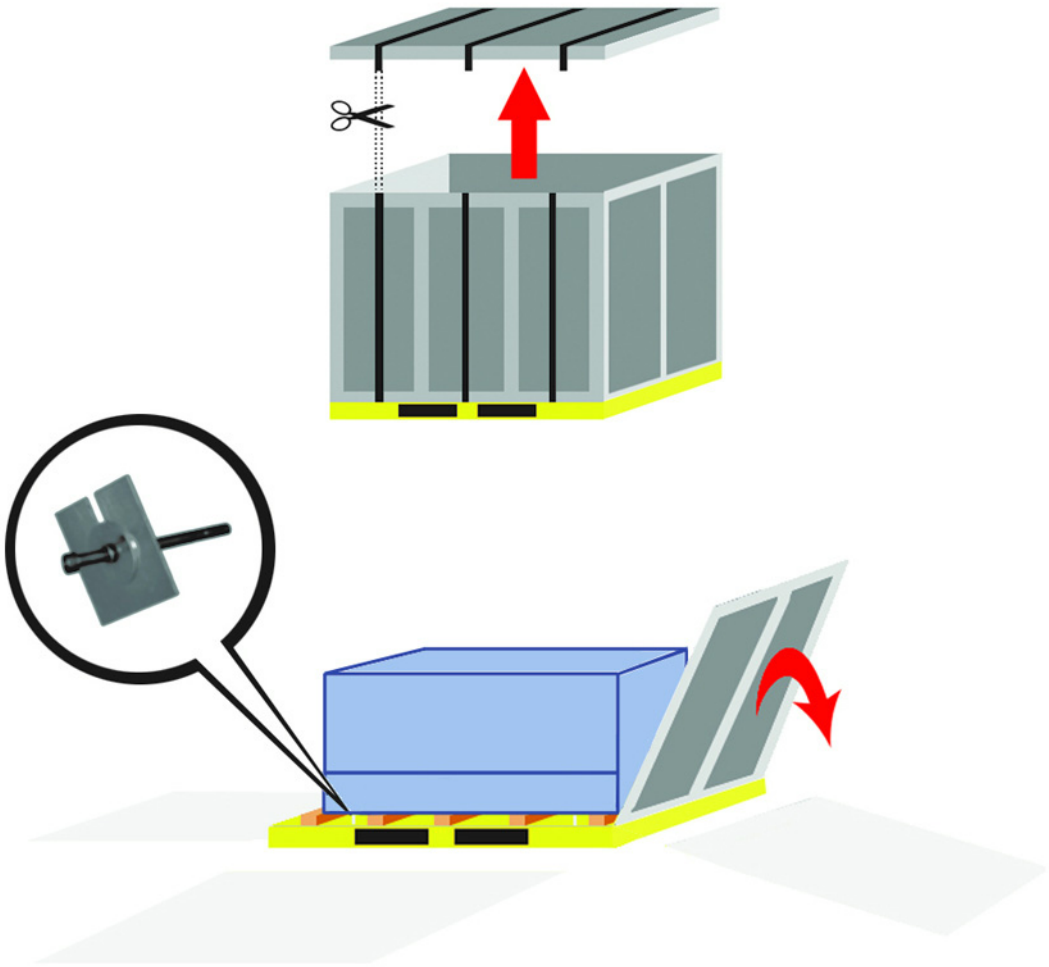
Check the following:

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

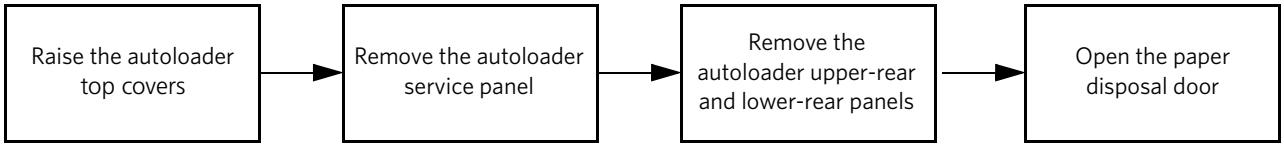
Assembling Parts

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

Removing the Multi-Cassette Autoloader From the Packaging



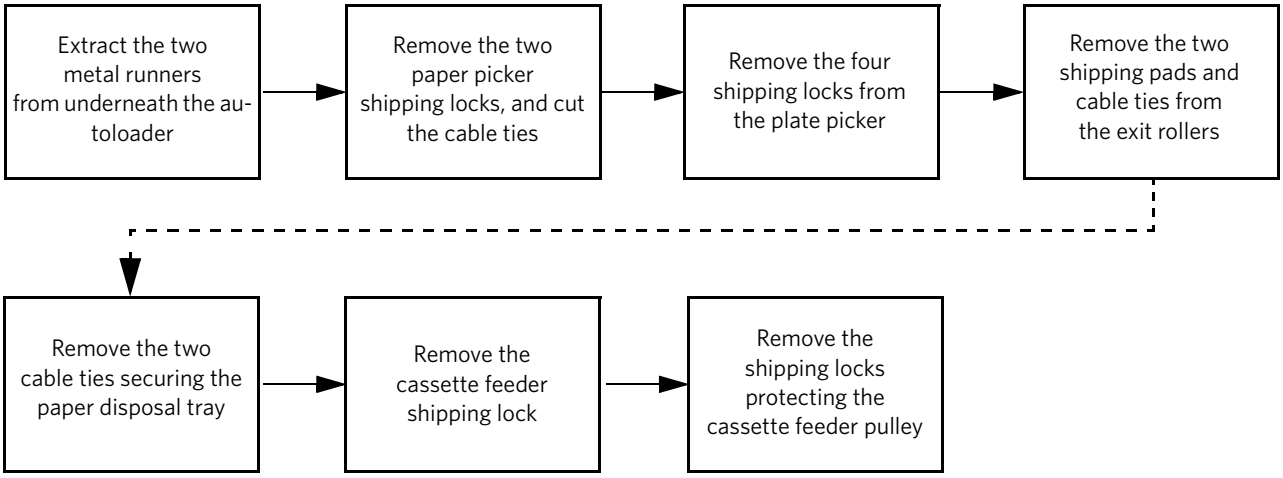
Removing the Autoloader Panels and Doors



Checklist

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

Removing the Shipping Locks and Runners



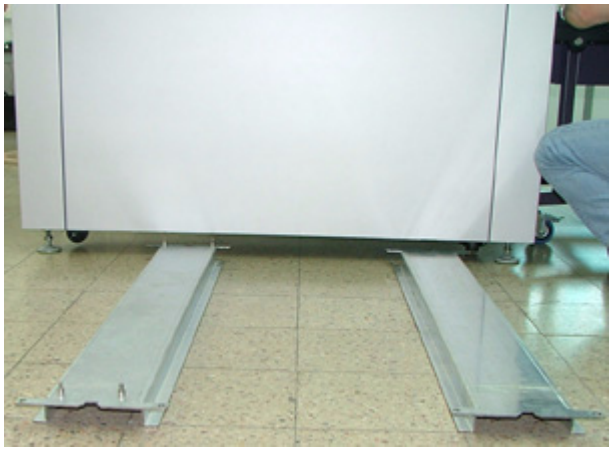
Procedure

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:

Autoloader Runners

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



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.



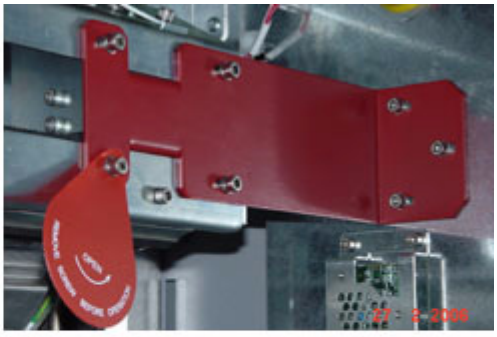
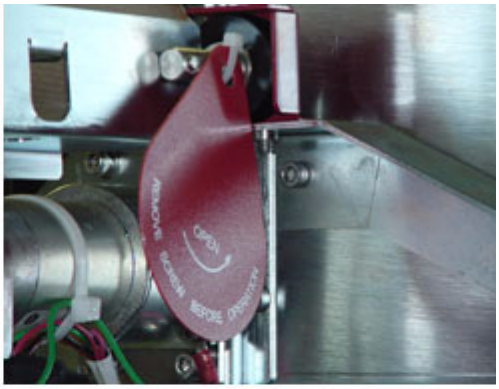


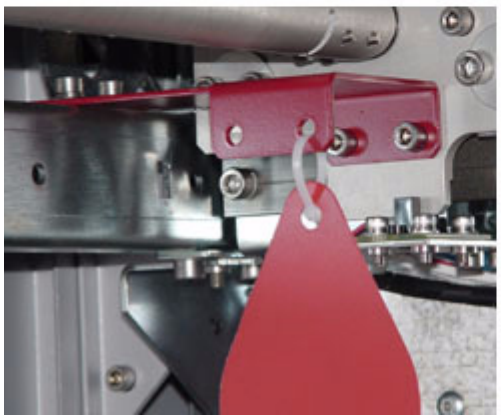


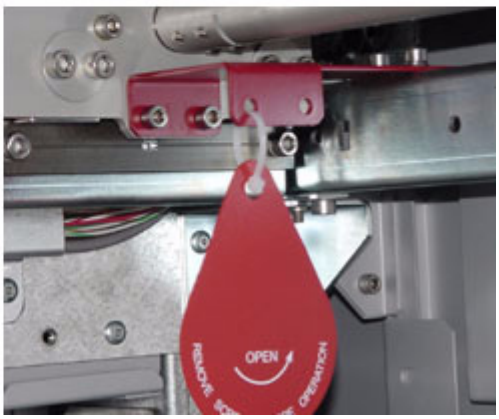
Plate Picker

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



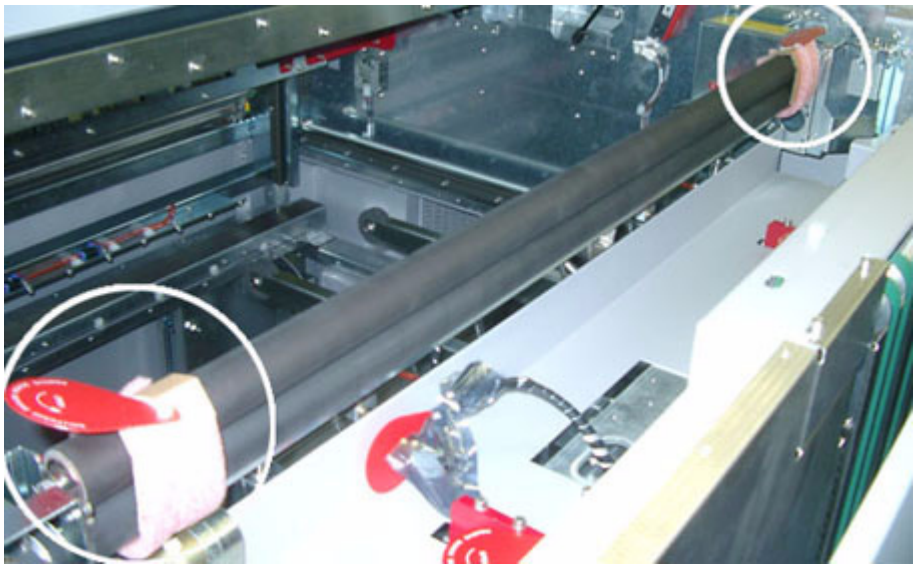






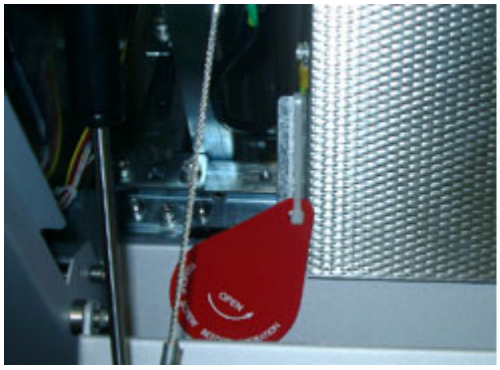
Exit Rollers

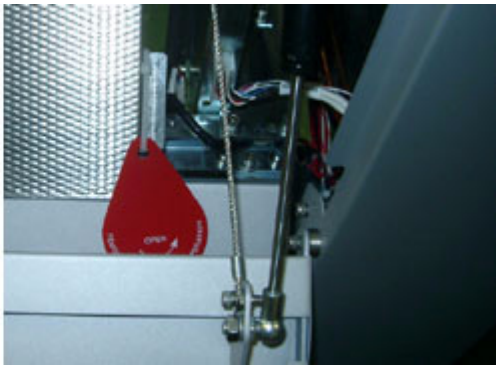
Remove the two shipping pads and cable ties from each side of the exit rollers.



Paper Disposal Tray

Remove the two cable ties securing the paper disposal tray.

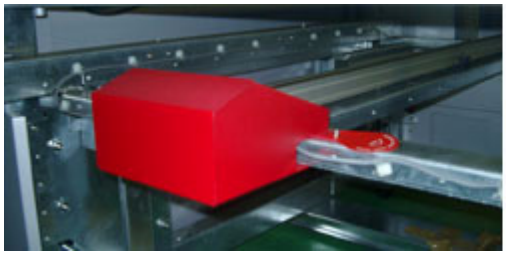


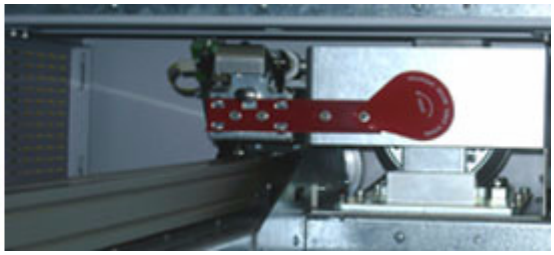


Cassette Feeder

a. Remove the shipping lock securing the cassette feeder lead screw.

b. Remove the shipping lock securing the cassette feeder pulley.

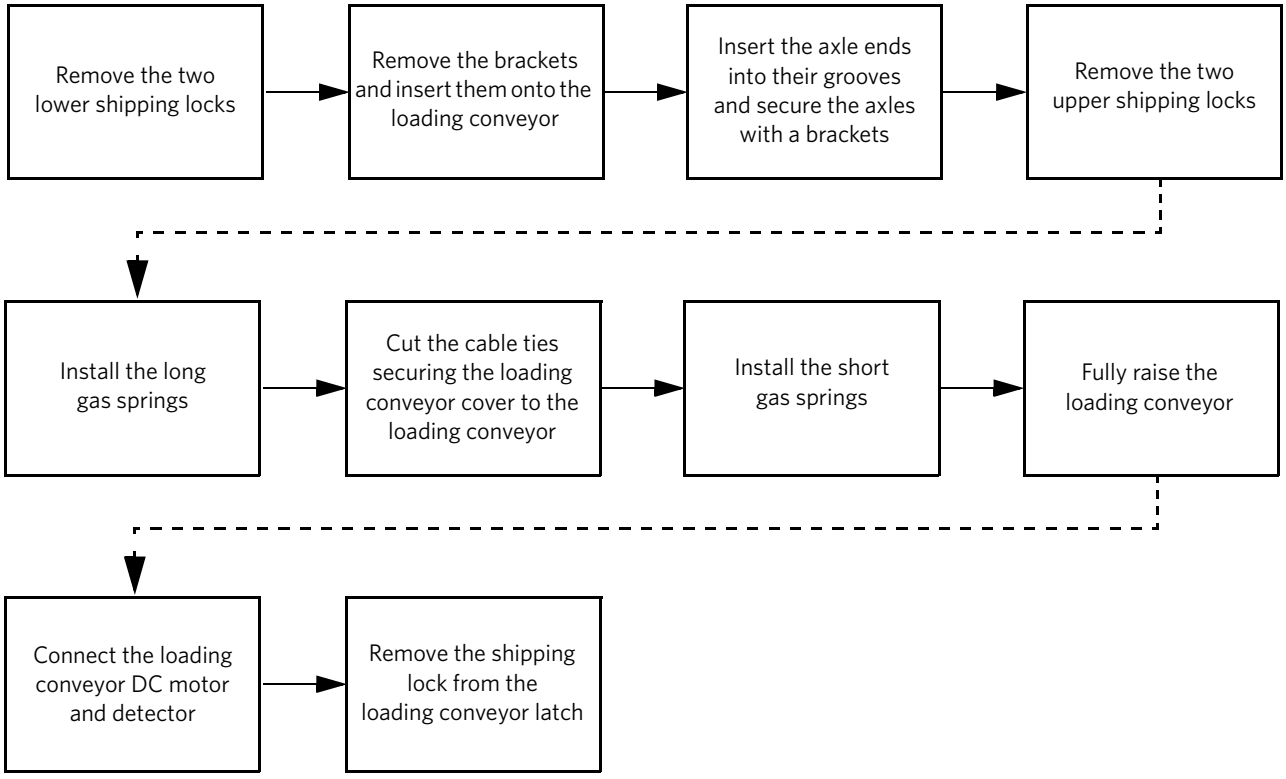




Checklist

- ❒ Extracted the two metal runners from underneath the autoloader
- ❒ 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
- ❒ Removed the cassette feeder lead screw shipping lock
- ❒ Removed the shipping lock protecting the cassette feeder pulley

Installing the Loading Conveyor



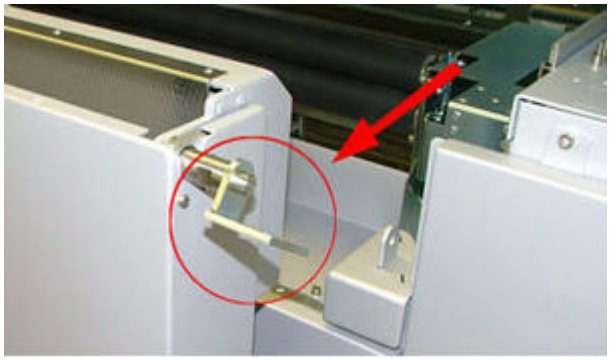
Procedure

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.

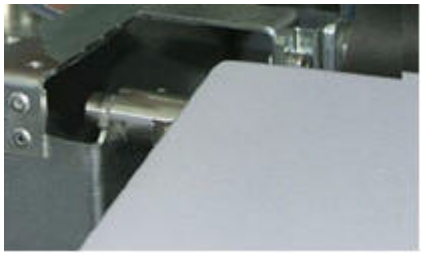
1. Remove the two lower shipping locks located between the loading conveyor and the autoloader.



2. Remove the three screws securing each of the brackets to the 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 autoloader.



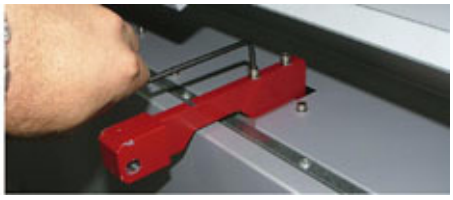
5. Lower the loading conveyor. The conveyor rotates on its axis, and is secured in place by the two upper shipping locks—located on the upper half of the loading conveyor.



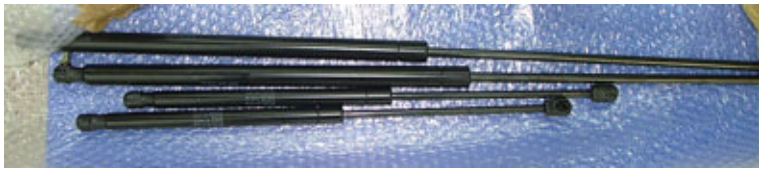
6. While one engineer raises the loading conveyor, the second engineer removes the side screw securing each of the two upper shipping locks to the loading conveyor.




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 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).



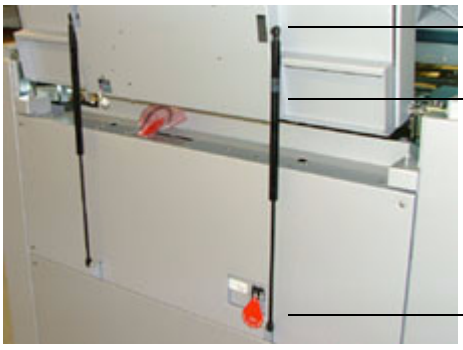
   b. While one engineer fully raises the loading conveyor, the second engineer assembles the two long gas springs. Make sure the gas springs are positioned the correct way up.
   c. Insert the screw thread, located on the end of the long gas spring, into the gas spring hole located on the loading conveyor.
   d. Secure the upper end of the 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 autoloader by pressing the clips onto the gas spring holder.







Secure with wrench

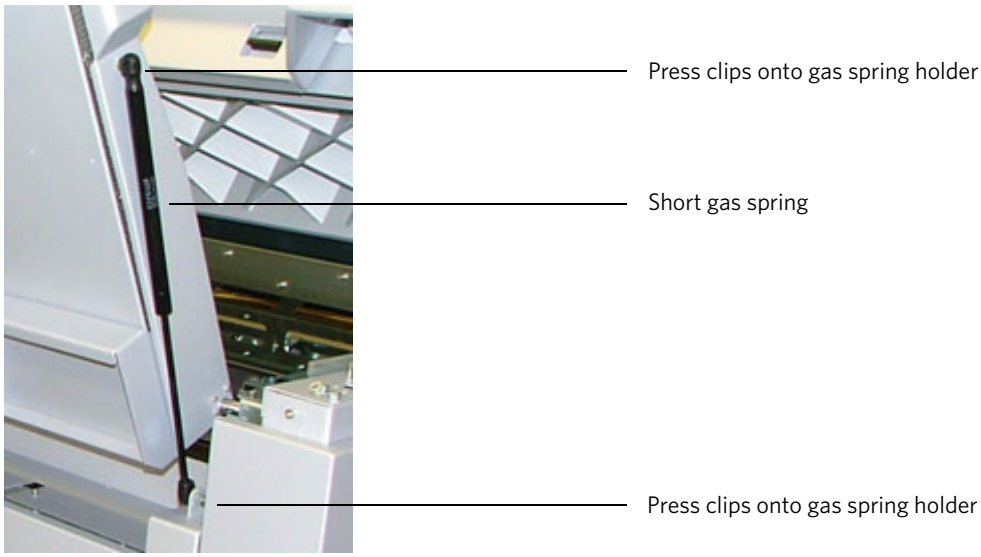
Long gas spring

Clip gas spring onto gas spring holder

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

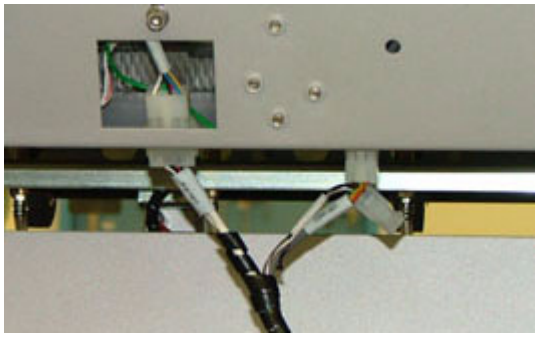


10. Install the two short gas springs onto each side of the loading conveyor.
    a. Lower the loading conveyor but keep the loading cover in an upright position.
    b. Clips are located on each end of the short gas springs. Secure the short gas springs to the autoloader by pressing the clips onto the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



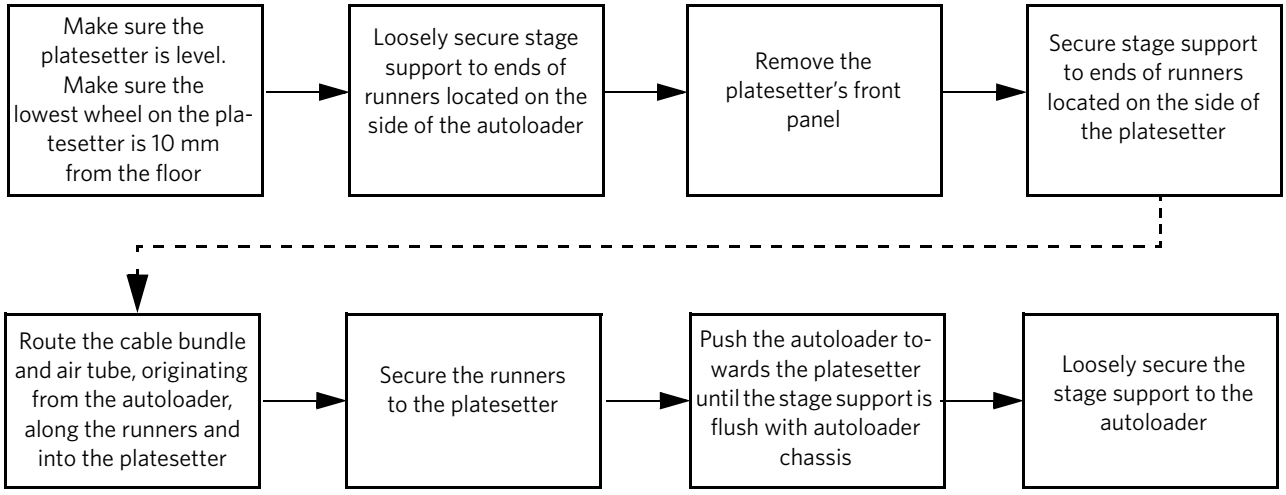
13. Remove the shipping locks from the loading conveyor latch.



Checklist

- ❒ Removed the two lower shipping locks located between the loading conveyor and the autoloader
- ❒ Removed the brackets from 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

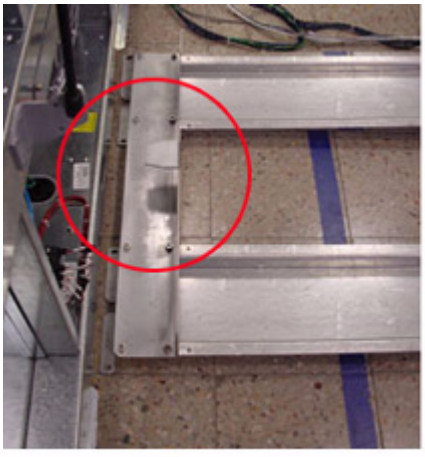
Securing the Autoloader to the Platesetter

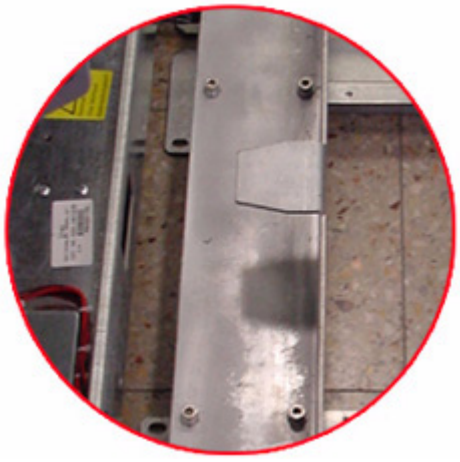


Procedure

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 *Kodak Magnus 800 Platesetter Installation Guide*.

2. The 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 autoloader.
   a. Insert eight screws to loosely secure the autoloader stage support to the runners. Do not tighten the eight screws until the correct autoloader height has been achieved, see *Adjusting the Height of the Autoloader* on page 17.
   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 autoloader.

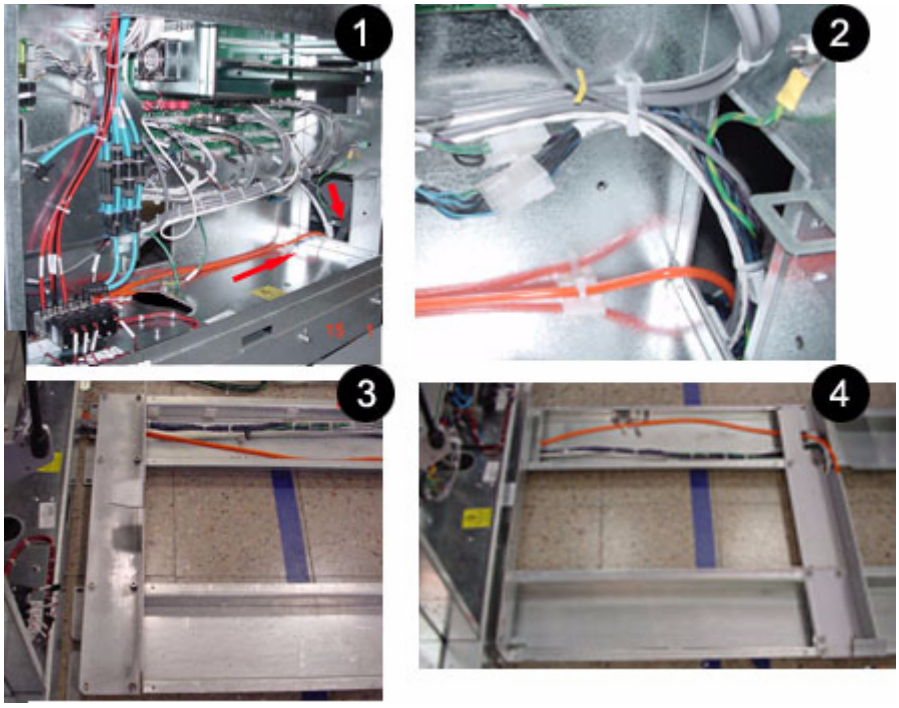




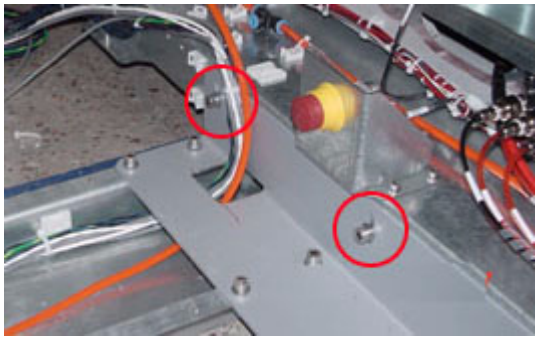
3. Secure the platesetter's stage support (252-11810A) to the end of the runners located closest to the platesetter.
   a. Remove the platesetter's front panel.
   b. Use eight screws to secure the platesetter's stage support to the runners.



4. The 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 autoloader.
   a. Route the air tube and the unconnected cable ends through the autoloader access hole—located at the side of the E-box (see image 1, 2).
   b. Route the cables underneath the 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).

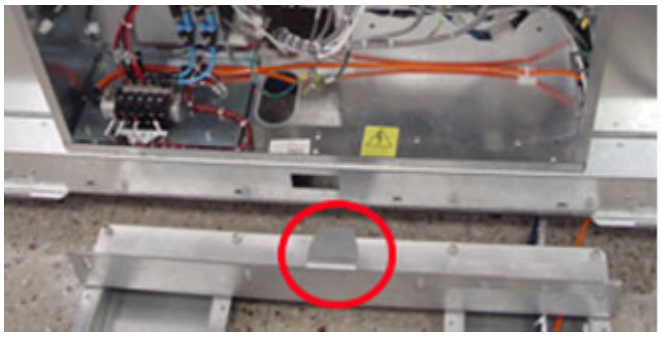


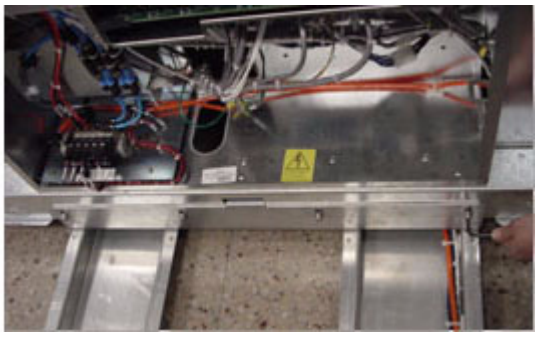
5. Move the platesetter's stage support until it is flush against the platesetter chassis. Use four screws to secure the platesetter's stage support to the platesetter chassis.



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

7. Insert four screws to loosely secure the autoloader's stage support to the 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 autoloader chassis.

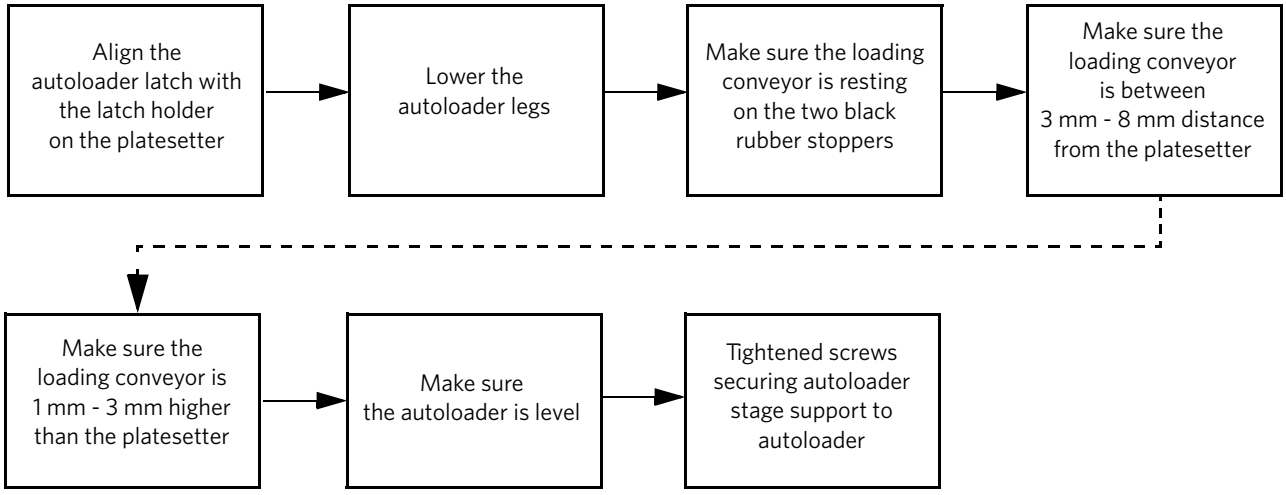




Checklist

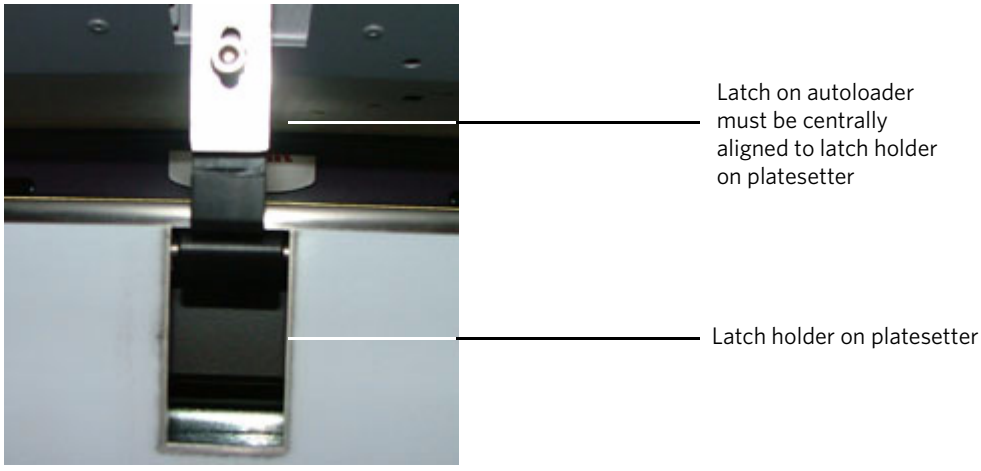
- ❒ Made sure platesetter is level
- ❒ Made sure the lowest wheel on the platesetter is 10 mm from the floor
- ❒ Secured autoloader stage support to runners
- ❒ Removed the platesetter's front panel
- ❒ Secured platesetter stage support to runners
- ❒ Routed the cable bundle and air tube, originating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

Adjusting the Height of the Autoloader



Procedure

1. Centrally align the latch on the autoloader to the latch holder on the platesetter.

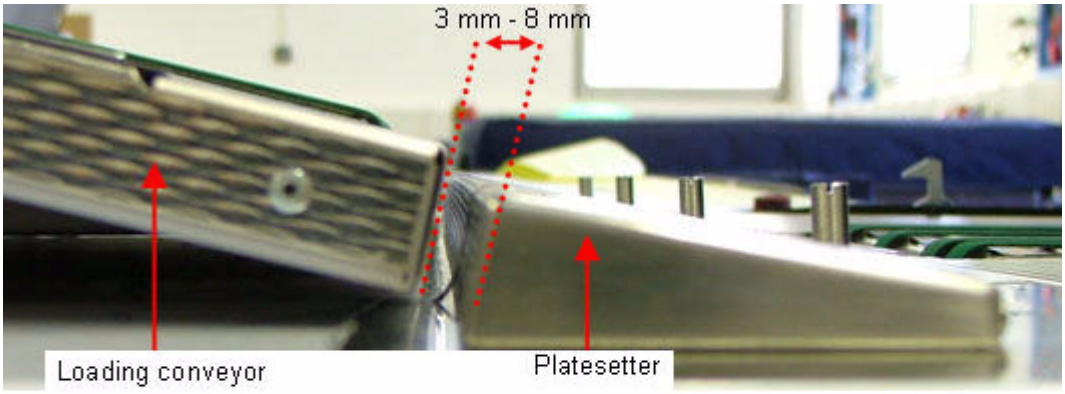


2. Important: The loading conveyor's final position determines if the autoloader is at the correct height in relation to the platesetter. There are three main elements that determine if the loading conveyor's final position is correct.
   - Loading conveyor is supported by black rubber stoppers, see 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 autoloader's legs. The loading conveyor can be positioned either closer to, or further away from the platesetter by either lowering or raising the autoloader's legs.

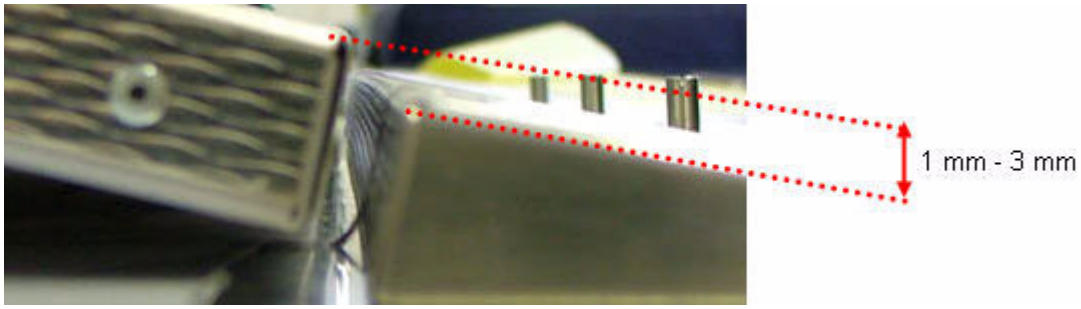
3. Make sure the loading conveyor is supported by the black rubber stoppers.
   a. Lower the loading conveyor until it rests on the platesetter permanent table.
   b. Located on the underside of the loading conveyor are two black rubber stoppers. Make sure the black rubber stoppers are the only point of contact between the underside of the loading conveyor and the platesetter. If required, lower or raise the 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 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.

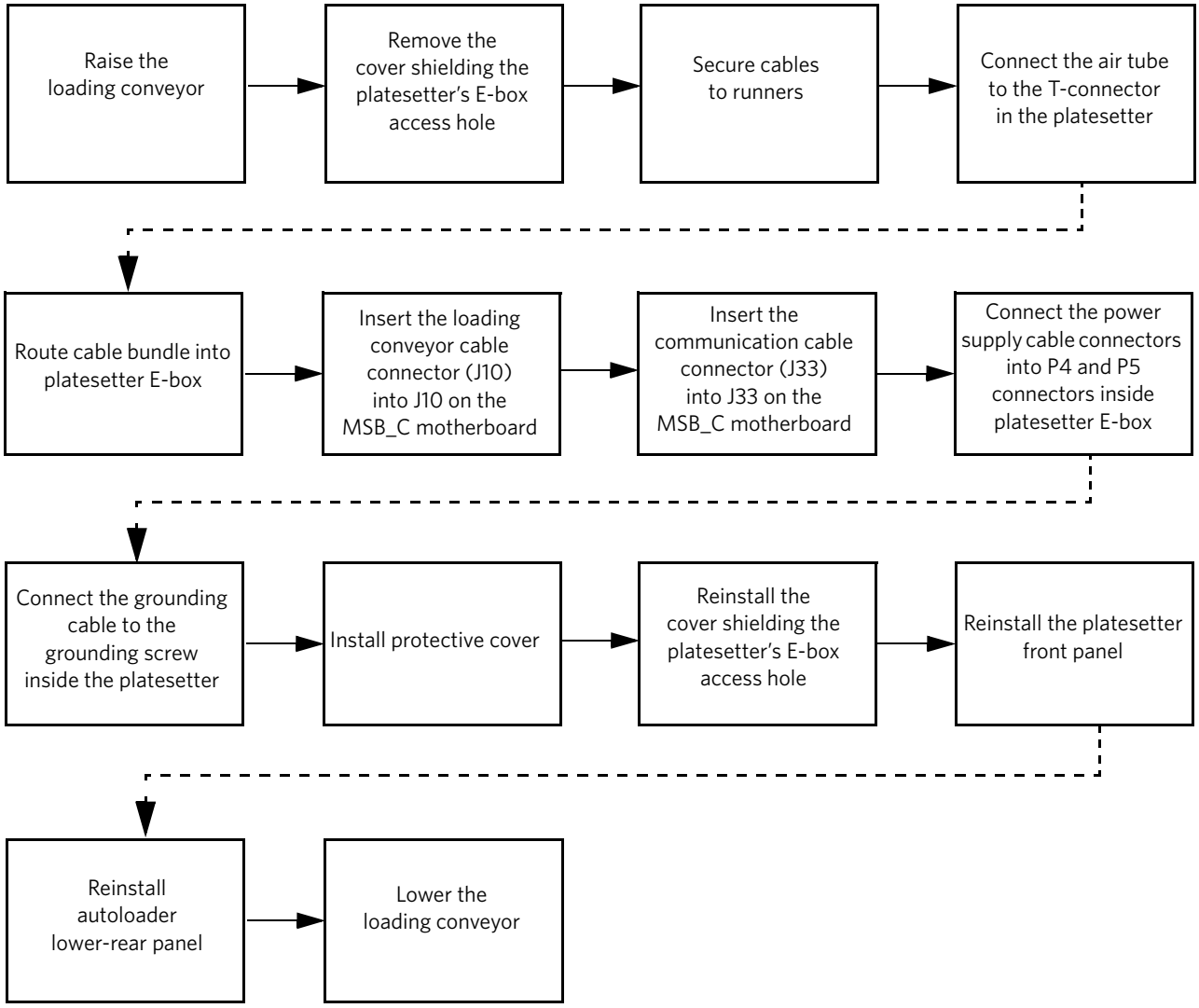
6. Make sure the autoloader is level.

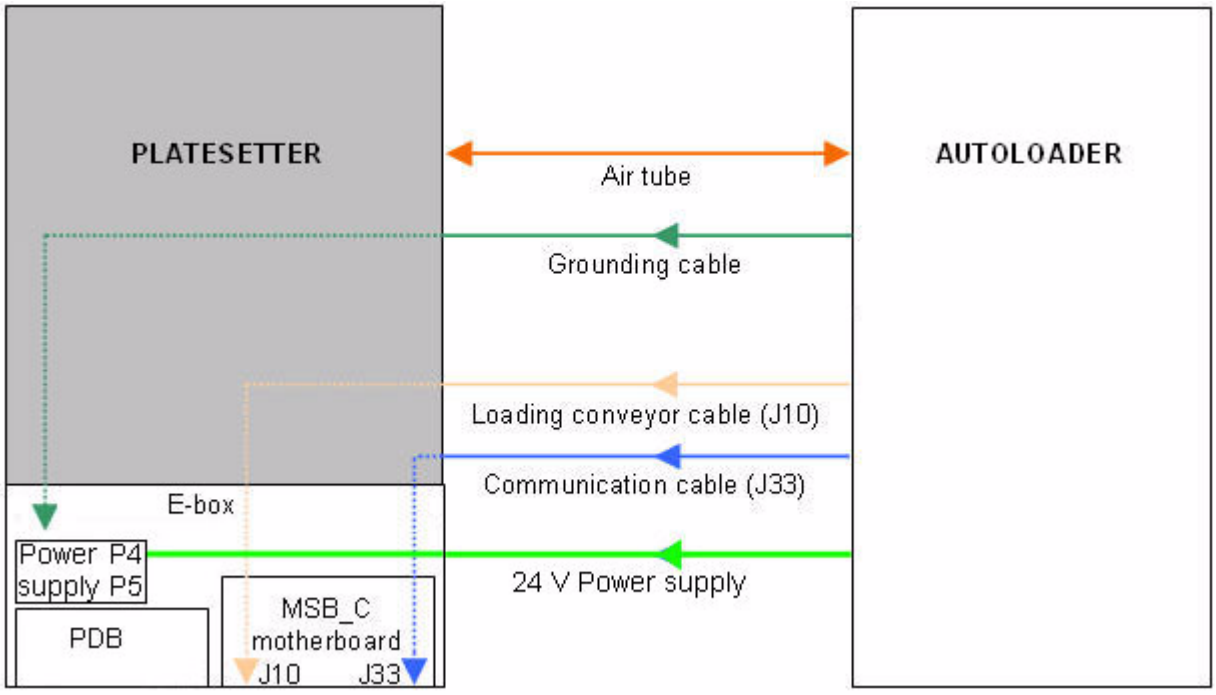
7. Tighten the screws securing the autoloader stage support to the autoloader.

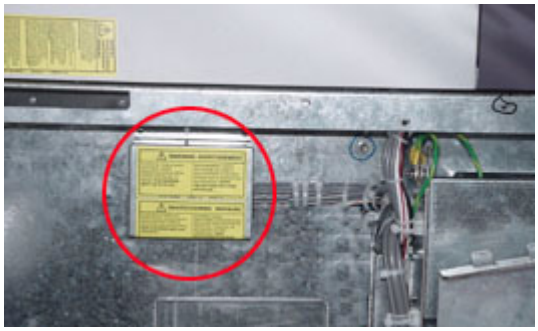
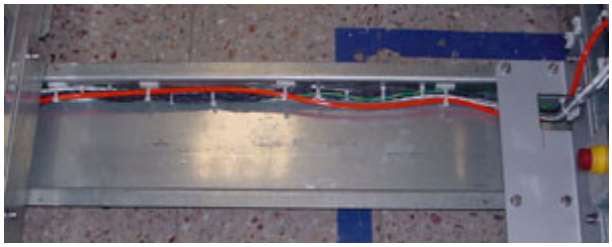
Checklist

- ❒ Aligned the latch on the loading conveyor to the platesetter's latch holder
- ❒ Lowered the 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 autoloader is level
- ❒ Tightened screws securing autoloader stage support to autoloader

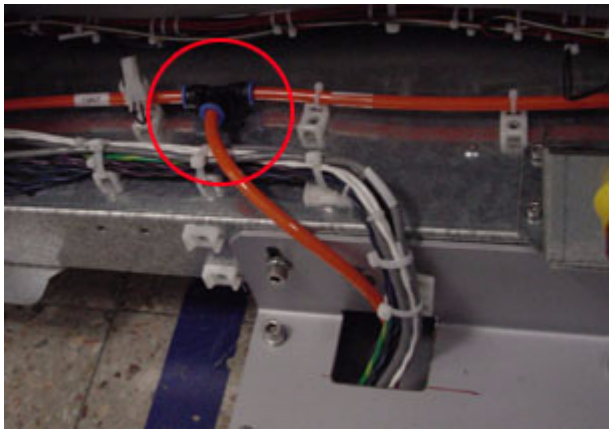
Connecting the Autoloader Cables





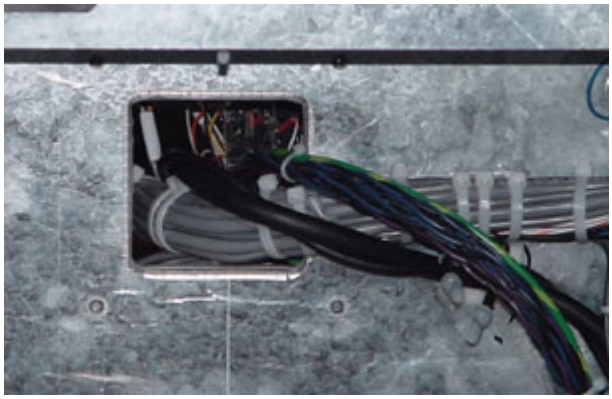
Procedure
1. Raise the loading conveyor.
2. On the left side of the platesetter, remove the cover shielding the platesetter's E-box access hole. 
3. Use cable ties to secure the cables to the runner walls. 

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

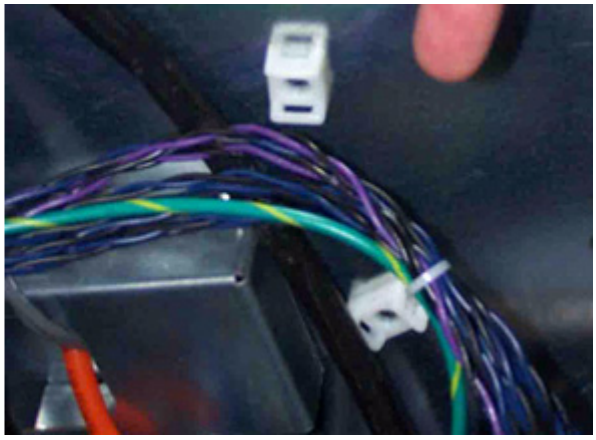


5. Route the loading conveyor cable (J10) and communication cable (J33) through the E-box access hole on the inside of the platesetter.

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.







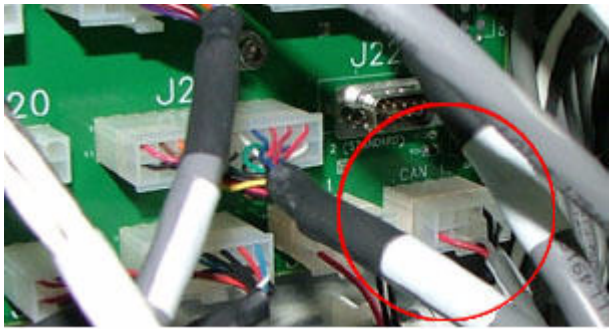
7. Insert the loading conveyor cable connector (J10) into the J10 socket on the platesetter MSB_C motherboard.



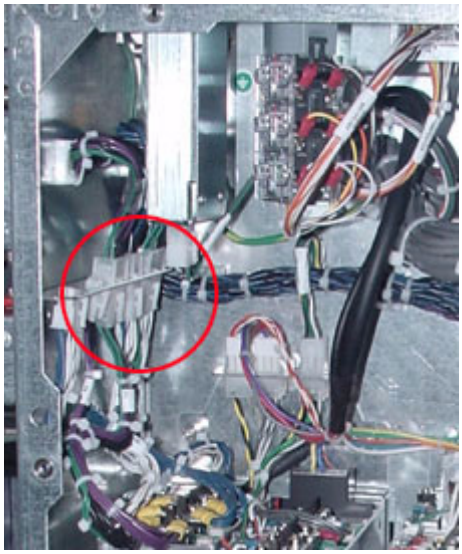




8. On the platesetter, insert the communication cable (J33) connector into the J33 socket on the MSB_C motherboard.



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.



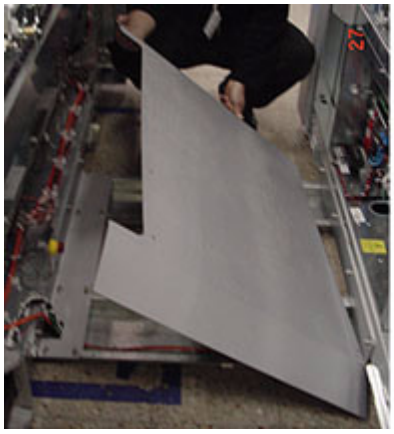
10. Use a 10-mm wrench to connect the grounding cable to the grounding screw.



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 autoloader to the platesetter.
    a. Place the protective cover over the runners.
    b. Use four screws to secure the protective cover to the 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 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 autoloader's lower-rear panel
- ❒ Lowered the loading conveyor

Installing the Paper Disposal Slide Extension

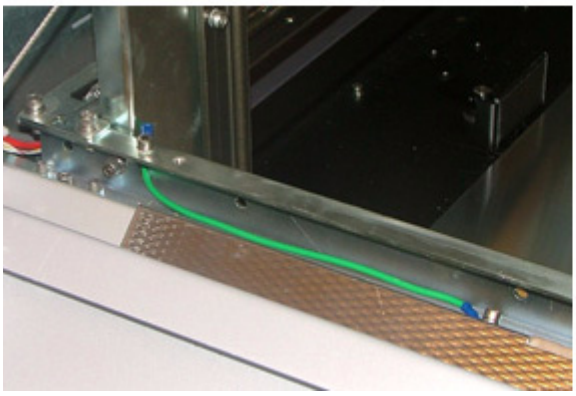
Procedure

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.







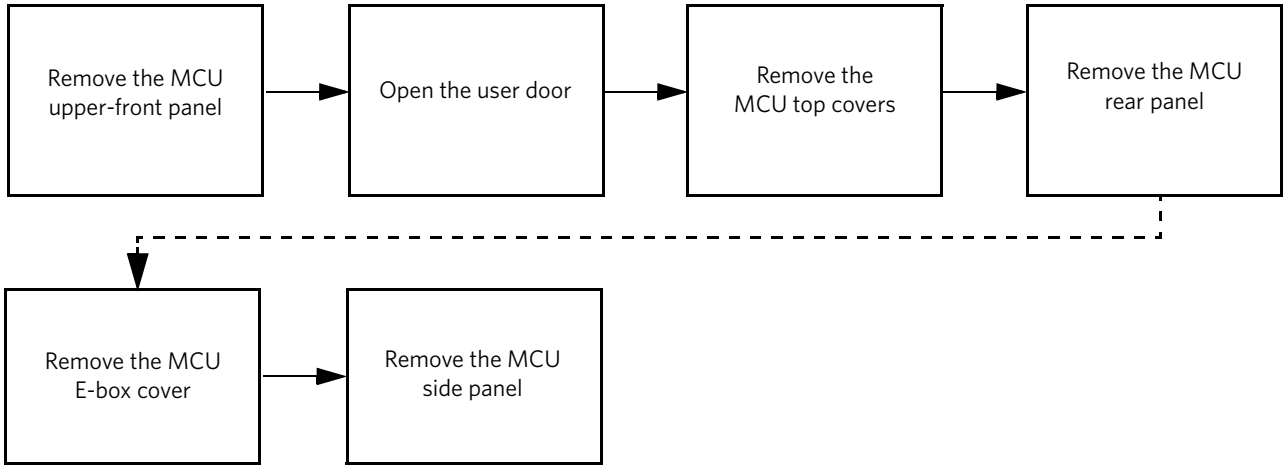


4. Close the paper disposal door.

Checklist

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

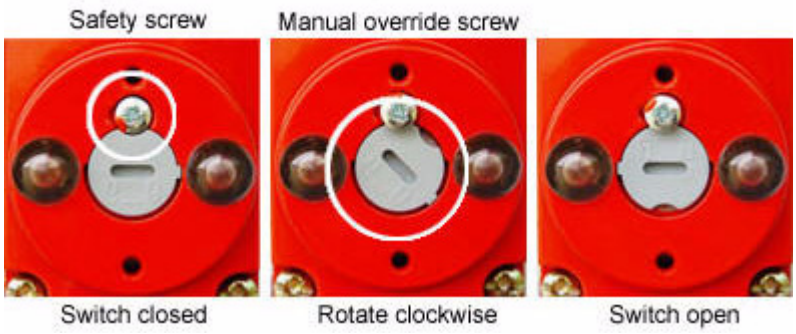
Removing the Multi-Cassette Unit Panels



Procedure

1. Remove the MCU upper-front panel.
2. Open the MCU user door.
   - Manually open the safety switch, release the safety screw, and then rotate the manual override screw half-a-turn in a clockwise direction.
   - To manually lock the safety switch, rotate the manual override screw half-a-turn in a counterclockwise direction, and then close the safety screw. The switch will not operate when it is in the manual override mode.



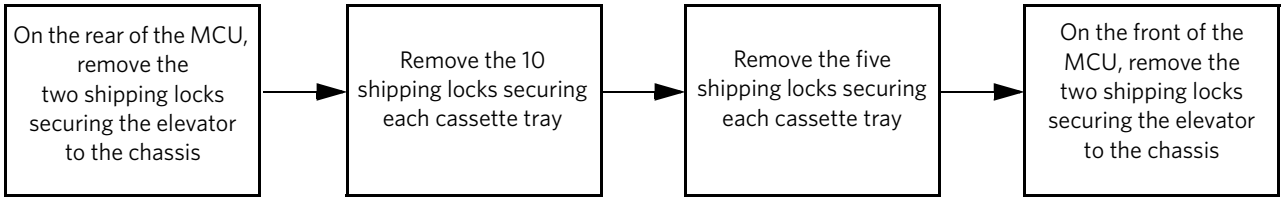


3. Remove the following panels and covers from the MCU:
   - Two top covers
   - Rear panel
   - E-box cover
   - Side panel

Checklist

- ❒ Removed MCU upper-front panel
- ❒ Opened MCU user door
- ❒ Removed the two top covers
- ❒ Removed the rear panel
- ❒ Removed the E-box cover
- ❒ Removed the side panel

Removing the Multi-Cassette Unit Shipping Locks



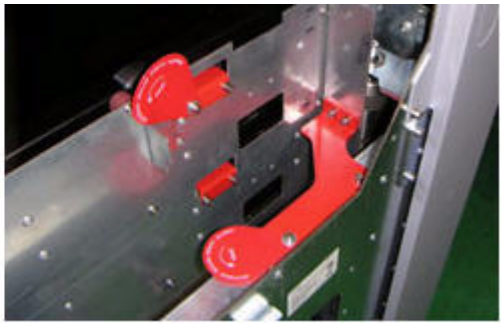
Procedure

Remove the MCU shipping locks from the following locations:

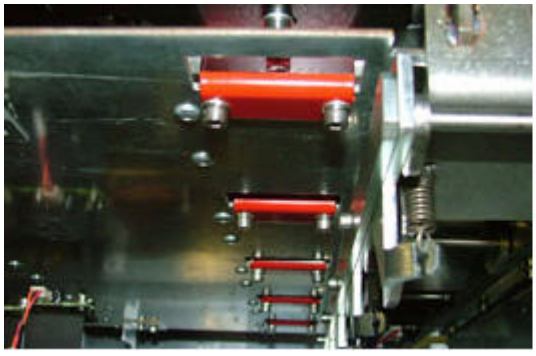
Rear of MCU

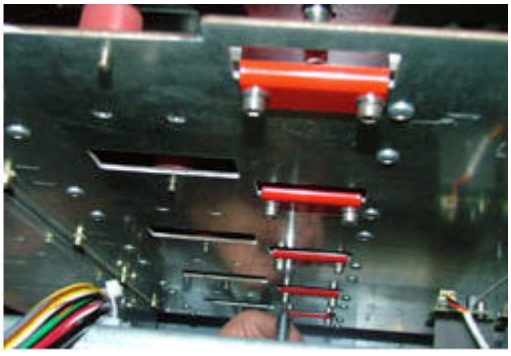
a. Remove the two shipping locks securing the elevator to the chassis.





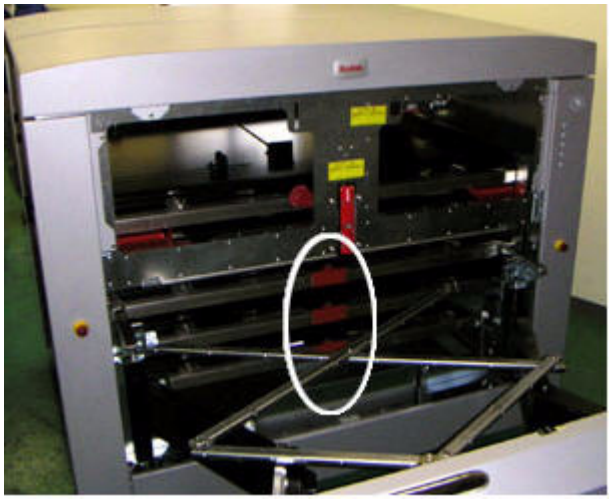
b. Remove the ten shipping locks securing each cassette tray.



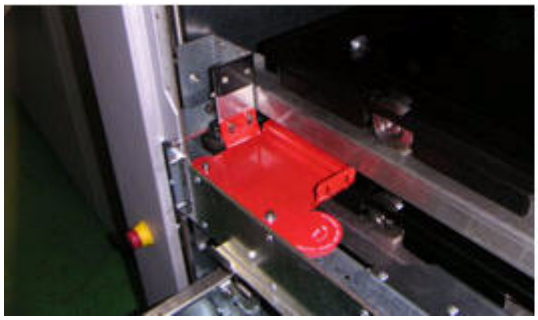


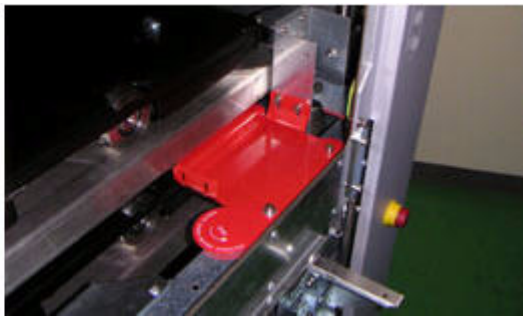
Front of MCU

a. Remove the five shipping locks securing each cassette tray.



b. Remove the two shipping locks securing the elevator to the chassis.

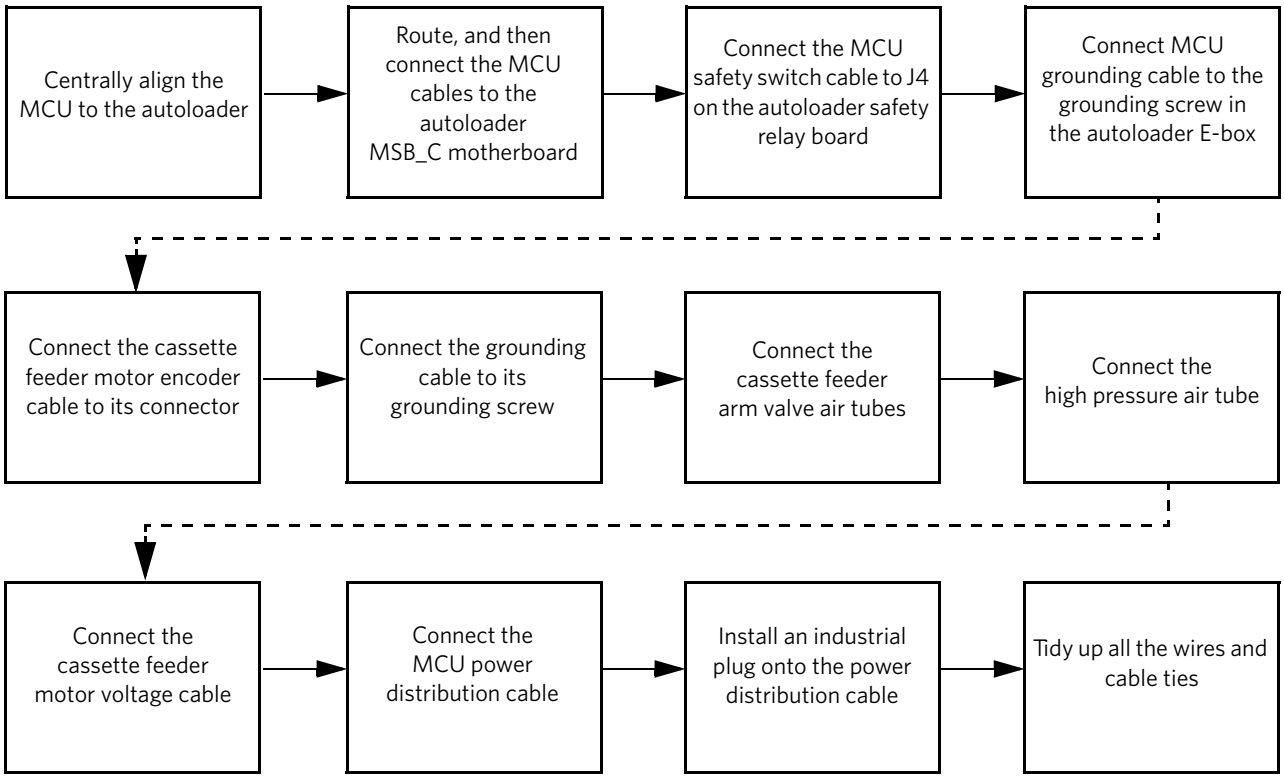


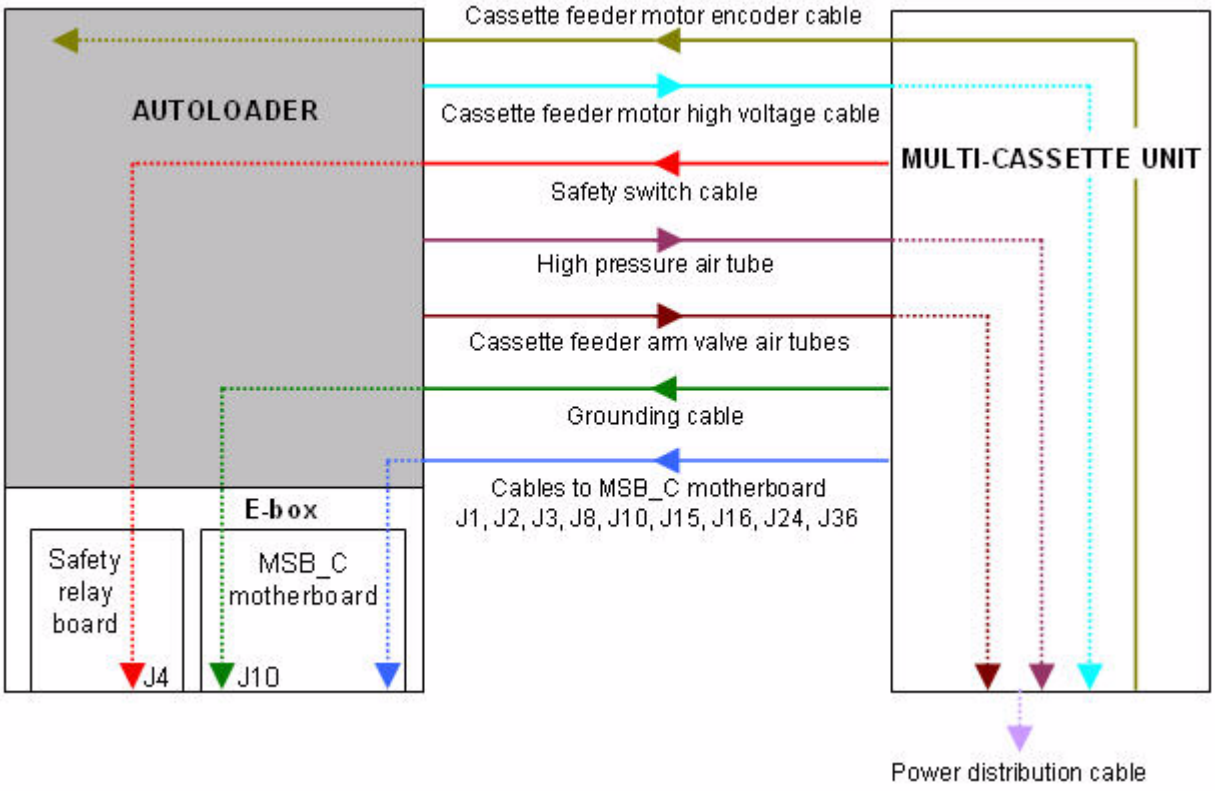


Checklist

- ❒ On rear of MCU, removed the two shipping locks securing the elevator to the chassis, and removed the 10 shipping locks securing each cassette tray
- ❒ On front of MCU, removed the two shipping locks securing the elevator to the chassis, and removed the five shipping locks securing each cassette tray

Connecting the Multi-Cassette Unit Cables





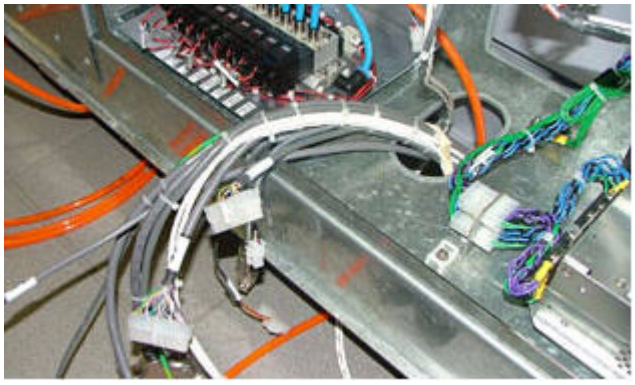
Procedure

1. Wheel the MCU until its side is centrally aligned with the autoloader. Make sure the distance between the two devices is short enough for routing the cables from the MCU to the autoloader.



2. The MCU is shipped with a bundle of cables—located underneath the elevator.
   Each cable (J1, J2, J3, J8, J10, J15, J16, J24, J36) is already connected at one end to the MCU.
   a. Route the unconnected cable ends from the MCU, and lead them through the autoloader access hole— located on the autoloader E-box base.
   b. Connect the cables to the autoloader MSB_C motherboard—located at the top-right of the autoloader E-box.

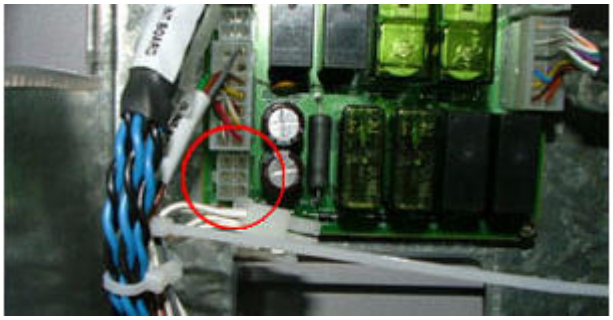
3. Route the cables from the MCU and lead them through the autoloader access hole—located on the base of the autoloader E-box.



4. Connect all the MCU cables to the autoloader MSB_C motherboard—located at the top-right of the autoloader E-box.

5. Connect the MCU safety switch cable to the autoloader safety relay board J4 connector—located at the top-left side of the autoloader E-box.

Important: If required, remove the existing jumper connector from the autoloader safety relay board J4 connector.

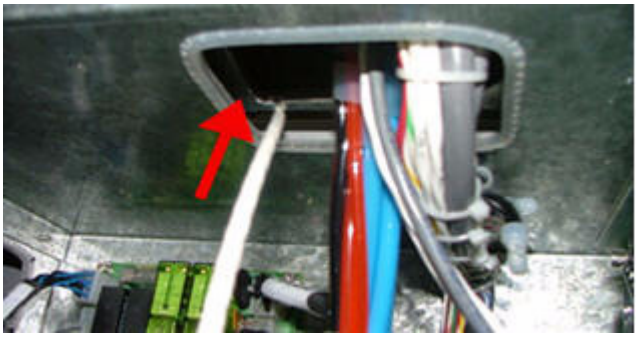


6. Connect the MCU grounding cable to the grounding screw located inside the autoloader E-box.



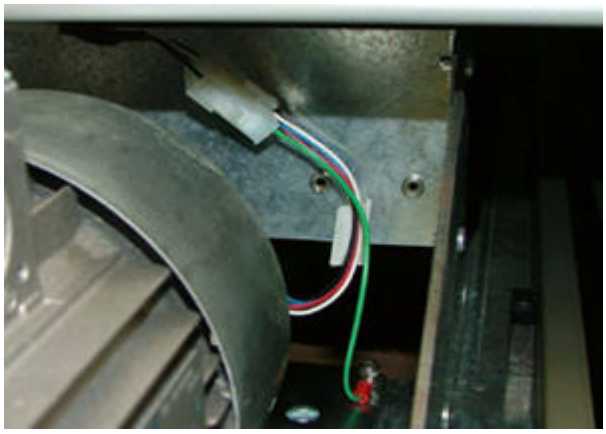
7. Connect the cassette feeder motor encoder cable.

   a. Route the white, cassette feeder motor encoder cable (and the attached grounding cable) from the MCU and lead them through the access hole on the roof of the autoloader E-box.



   b. Connect the cassette feeder motor encoder cable to the cassette feeder motor encoder connector.

c.Connect the grounding cable to its grounding screw.



d.Secure the length of the cable with cable ties.



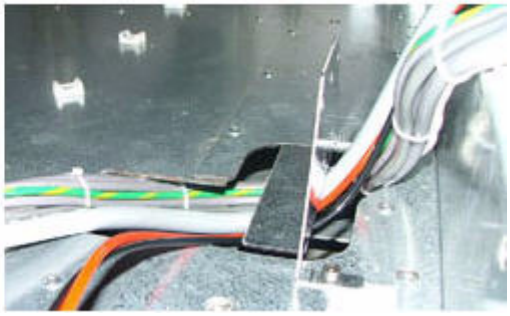
8. Connect the cassette feeder arm valve air tubes.

Note: The cassette feeder arm valve air tubes are also referred to as the cassette to gripper air tubes.

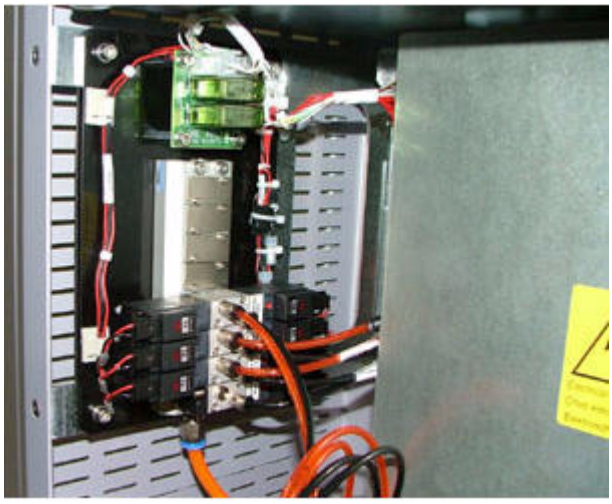
a. Cut the cable ties securing the two cassette feeder arm valve air tubes. One tube is orange and one tube is black).

b. Route the two cassette feeder arm valve air tubes leading from the autoloader through the access hole under the MCU.





c. Attach the two cassette feeder arm valve tubes to the cassette feeder arm connectors- located on the air pressure manifold.



9. Connect the high pressure air tube.

   a. Route the high pressure air tube from the autoloader and through the MCU. Direct the tube towards the air pressure manifold-located inside the MCU E-box.

   b. Connect the air tube to the high pressure air tube connector.



10. Connect the cassette feeder motor high voltage cable.
    a. Route the cassette feeder motor high voltage cable from the autoloader and through the access hole under the MCU.
    b. Route the cable through the MCU and direct it toward the E-box.
    c. Connect the cable's connector to the connector located on the right-side of the E-box frame.

Note: The cassette feeder arm valve air tubes are also referred to as the cassette to gripper air tubes.



11. Connect the MCU power distribution cable.
    a. On the MCU, route the black power distribution cable through the access hole located at the rear of the MCU E-box.



    b. Install an industrial plug onto the end of the power distribution cable.

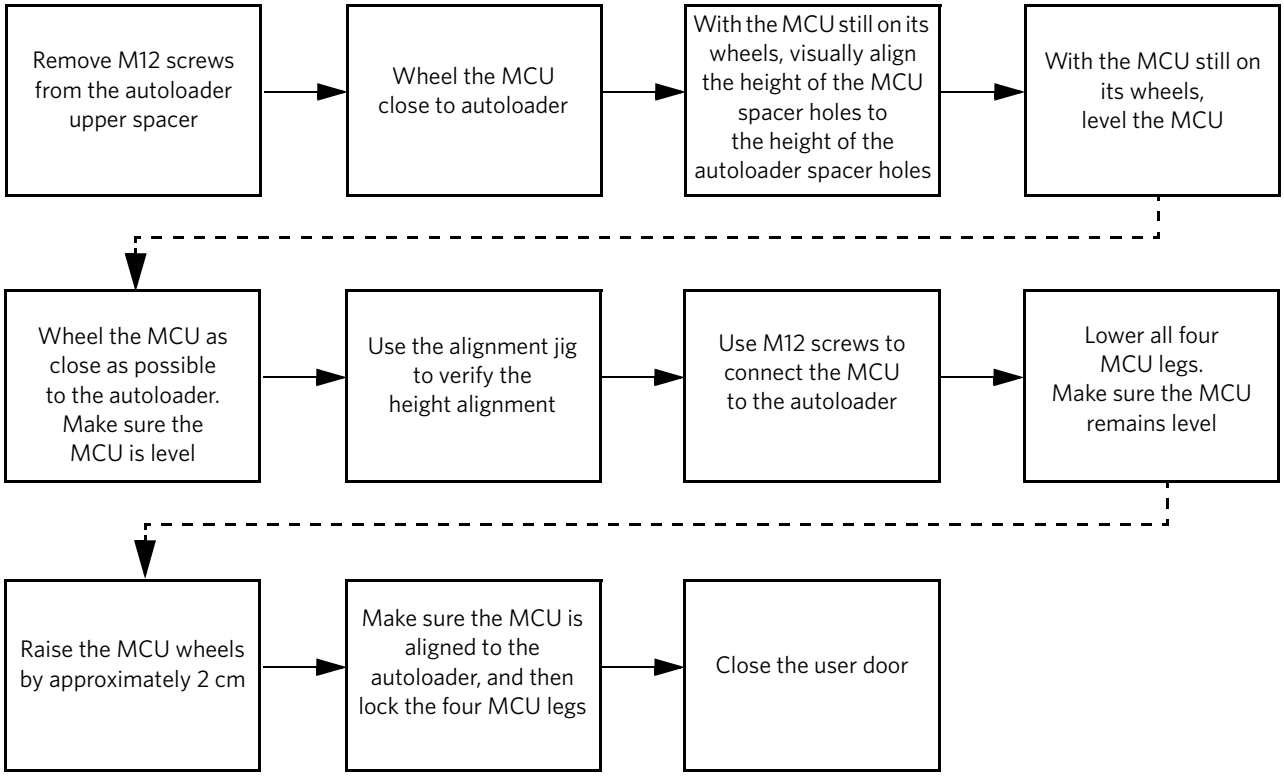


12. Tidy up all the wires and cable ties.
    - Make sure all the cables routed between the MCU and the autoloader are secured to the floor with cable ties.
    - Make sure that neither the wires nor the cable ties interfere with the elevator.

Checklist

- ❒ Centrally aligned MCU to autoloader
- ❒ Routed, and then connected, MCU cables to autoloader MSB_C motherboard
- ❒ Connected MCU safety switch cable to J4 on autoloader safety relay board
- ❒ Connected MCU grounding cable to grounding screw in autoloader E-box
- ❒ Connected cassette feeder motor encoder cable to its connector
- ❒ Connected the grounding cable to its grounding screw
- ❒ Connected the cassette feeder arm valve tubes
- ❒ Connected the high pressure air tube
- ❒ Connected the cassette feeder motor voltage cable
- ❒ Connected the MCU power distribution cable
- ❒ Installed an industrial plug onto the power distribution cable
- ❒ Tidied up all the wires and cable ties

Leveling the Multi-Cassette Unit



Procedure

1. There are two spacers located on the side of the autoloader that faces the MCU.
   The upper spacer is shipped with a screw inside. This screw is used to physically connect the MCU to the autoloader.
   The lower spacer is used for aligning the MCU to the autoloader.

   Remove the M12 screws from upper spacers.

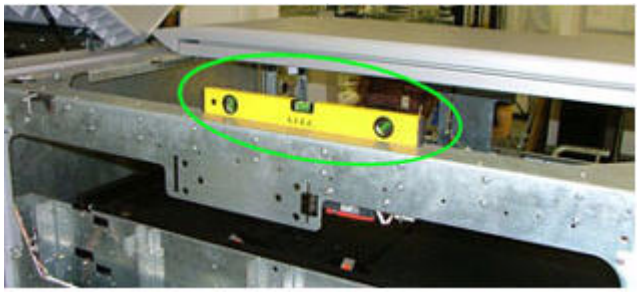


2. Wheel the MCU to as close as possible to the autoloader, without it actually touching the autoloader.

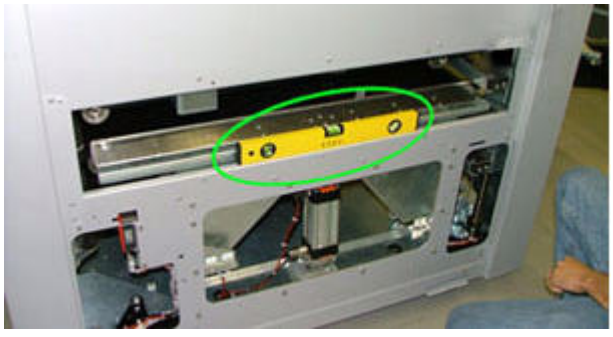
3. While the MCU is still on its wheels, visually align the height of the MCU to the autoloader.
   Adjust the MCU wheels to adjust the height of the MCU.
   The spacer holes on both the MCU and the autoloader should be approximately aligned.



4. While the MCU is still on its wheels, level the MCU.
   When leveling the MCU, place the level at the following locations
   - Top of rear chassis



   - Middle of chassis on side not facing the autoloader

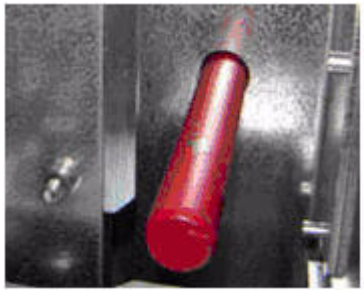


   - Middle of chassis on side of user door

5. Wheel the MCU as close as possible to the autoloader.

6. Make sure the MCU is still level.

7. From inside the MCU, insert the alignment jig through the lower spacer holes on both the MCU and the autoloader.



- If the jig can be smoothly inserted and retracted through both spacer holes, then the MCU and autoloader are vertically aligned.
- If the jig can not be inserted through the two spacer holes, adjust the height of the MCU. After performing any height adjustments make sure the MCU remains level.

8. Connect the MCU to the autoloader by inserting the two M12 screws through the MCU upper spacer holes, and into the autoloader.

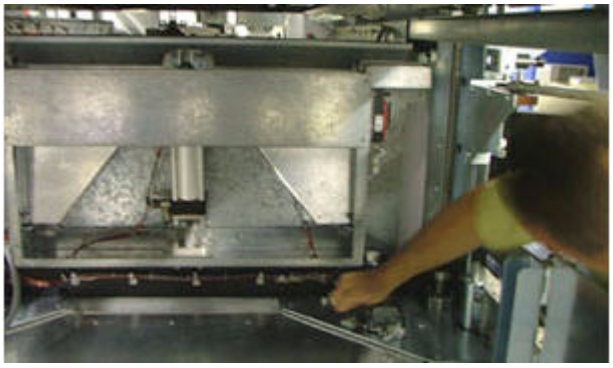


9. Use an M17 wrench to lower all four legs on the MCU.
   a. Lower the legs until they touch the floor. Only lower the legs until they are approximately 1 mm lower than the wheels.
   b. Make sure that none of the MCU wheels are touching the floor.



   c. Make sure the MCU remains level on all four sides.
   d. Use the alignment jig to make sure the two devices are aligned, and then remove the jig.

10. Use an M30 wrench to raise the four MCU wheels by approximately 2 cm (0.8 in.)



- Make sure the MCU remains level on all four sides.
- Use the alignment jig to make sure the two devices are aligned.

11. Use an M22 wrench to lock the four MCU legs.

12. Close the user door.

Checklist

- ❒ Removed M12 screws from autoloader upper spacer
- ❒ Positioned MCU close to autoloader
- ❒ Visually aligned height of MCU spacer holes to height of autoloader spacer holes
- ❒ Leveled the MCU
- ❒ Positioned the MCU as close as possible to the autoloader. Made sure MCU was level.
- ❒ Used alignment jig to verify height alignment
- ❒ Used M12 screws to connect autoloader to MCU
- ❒ Lowered all four MCU legs. Made sure MCU was level.
- ❒ Raised MCU wheels by approximately 2 cm
- ❒ Locked the four MCU legs
- ❒ Closed the user door

Measuring the Distance Between the Cassette Runners

Procedure

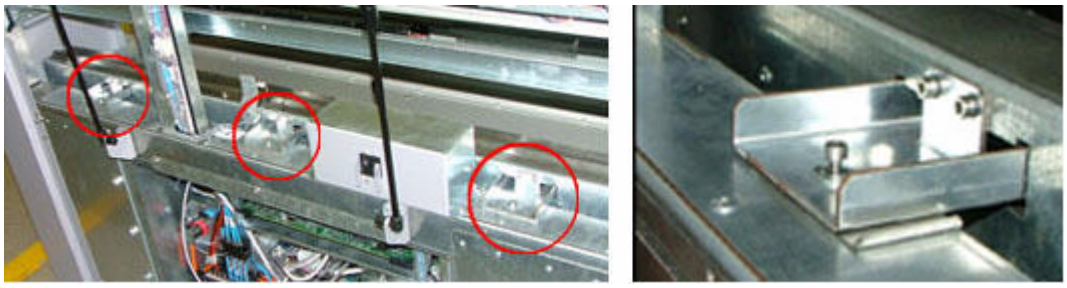
1. There are two sets of cassette runners - autoloader cassette runners and MCU cassette runners. Visually check that the autoloader cassette runners do not obstruct the MCU cassette runners.

2. Insert the 5 mm end of the adjusting jig (690-00772) between the two sets of cassette runners, and make sure that the distance between them is approximately 5 mm.



If the distance is anything but 5 mm, then perform the following actions.

a. Release, but do not remove the three screws securing each of the front and rear autoloader cassette runners.



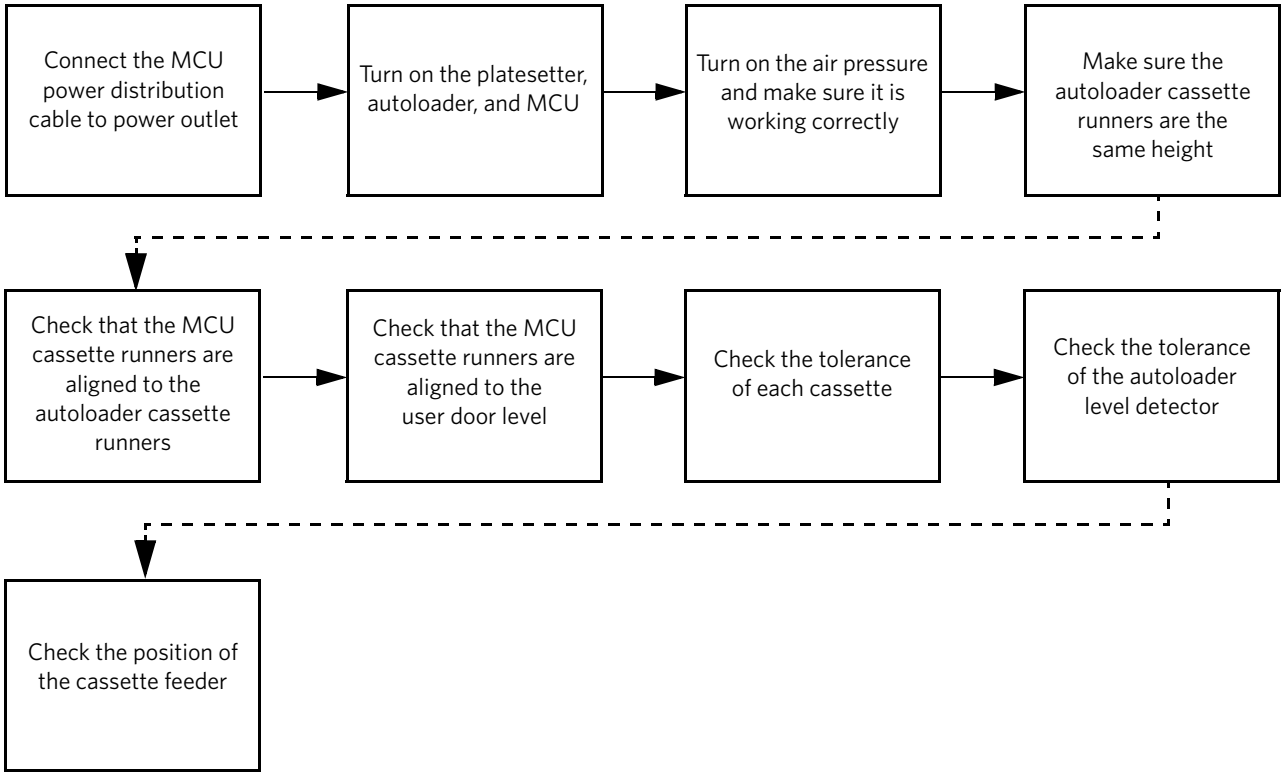
b. Adjust the cassette runners, so that the distance between the autoloader cassette runners and the MCU cassette runners is approximately 5 mm.

c. Remove the adjusting jig and retighten the three screws.

Checklist

- ❒ Checked that autoloader cassette runners do not obstruct MCU runners
- ❒ Made sure that gap between the two sets of cassette runners was approximately 5 mm

Checking the Multi-Cassette Unit Alignment



Procedure
Note: All of the following steps are described in detail in the following TechPlanet document: Calibrating the Magnus 800 multi-cassette unit elevator
1. Connect the MCU power distribution cable to the power outlet.
2. Turn on the platesetter, autoloader, and MCU.
3. Turn on the air pressure and make sure the air pressure is working correctly.
4. Make sure the autoloader cassette runners are the same height.
5. Check that the MCU cassette runners are aligned to the autoloader cassette runners.
6. Check that the MCU cassette runners are aligned to the user door level.
7. Check the tolerance of each cassette.
8. Check the tolerance of the autoloader level detector.
9. Check the position of the cassette feeder.

Checklist

- ❒ Calibrated the MCU elevator
- ❒ Connected the MCU power distribution cable to the power outlet
- ❒ Turned on the platesetter, autoloader, and the MCU
- ❒ Turned on the air pressure
- ❒ Made sure the autoloader cassette runners are the same height
- ❒ Made sure the MCU cassette runners are aligned to the autoloader cassette runners
- ❒ Made sure the MCU cassette runners are aligned to the user door level
- ❒ Checked the tolerance of each cassette
- ❒ Checked the tolerance of the autoloader level detector
- ❒ Checked the position of the cassette feeder

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 are installing a multi-cassette autoloader.
The multi-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. Turn on the Magnus 800 computer and wait for the operating system to boot up.
3. Insert the **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 **MCU parameter** CD into the Magnus 800 computer's CD-ROM drive. 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 during the software installation process, configure the Magnus 800 Controller software according to the customer's requirements. ▪ Set the automation, orientation, number of cassettes, unloading conveyor option, connectivity option, and company name. ▪ Check the punch option, platesetter serial number, autoloader serial number, and multi-cassette unit serial number.
6. Restart the Magnus 800 computer.
7. O the MCU, do the following: ▪ Reinstall the upper-front panel ▪ Close the user door ▪ Reinstall the rear panel ▪ Reinstall the E-box cover ▪ Reinstall the top covers ▪ Reinstall the side panel
8. Close the autoloader top covers.
9. Send the carriage to EP (1130). Ensure that neither the carriage or head are rubbing against any cables.
10. In the Magnus 800 Controller software, locate the Tools dialog box, define the customer's plate, and select the unloading conveyor's direction.

11. Individually load all the customer's different plates sizes and check the following:
    - Autoloader suction cups fall directly onto plate.

Note: See the following TechPlanet procedure:
Adjusting the cassette's position in the Magnus 800 multi-cassette autoloader

    - 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.

12. If the platesetter has just been installed, perform the following actions:
    a. Loading and unloading sequence.
    b. Plate media calibration.
    c. Configure the Magnus 800 computer to the customer's network (as described in the *Kodak Magnus 800 Platesetter Installation Guide*).
    d. Check the connection between the Kodak 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
- ❒ Turned on the Magnus 800 computer
- ❒ Inserted the autoloader parameter CD into the Magnus 800 computer and merged the parameters
- ❒ Inserted the MCU 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
- ❒ Reinstalled the MCU panels and covers
- ❒ Closed the user door
- ❒ Closed the autoloader top covers
- ❒ Sent the carriage to EP (1130)
- ❒ Defined the customer's plate size and unloading conveyor direction
- ❒ Made sure the autoloader suction cups fell directly onto the plate
- ❒ 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