Installation Guide

English

MCU for Lotem 800 II Platesetter (MCU Ready)

653-00912A-EN Rev A
Internal 731-00362A-EN Rev A

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D478,608	5,420,702	5,699,740	6,016,752	6,191,882	6,407,849	6,587,211
4,558,302	5,420,722	5,708,736	6,043,865	6,204,874	6,409,331	6,589,710
4,743,091	5,459,505	5,713,287	6,060,208	6,205,364	6,414,755	6,590,635
4,992,864	5,473,733	5,742,743	6,063,528	6,208,369	6,422,801	6,593,064
5,049,901	5,481,379	5,764,374	6,063,546	6,214,276	6,425,565	6,601,888
5,113,249	5,488,906	5,771,794	6,072,518	6,217,965	6,430,136	6,605,407
5,132,723	5,508,828	5,785,309	6,090,529	6,252,241	6,435,091	6,609,459
5,155,782	5,509,561	5,802,034	6,093,447	6,252,522	6,441,914	6,611,363
5,157,516	5,517,359	5,813,346	6,096,461	6,255,033	6,443,571	6,618,187
5,177,724	5,519,852	5,818,498	6,098,544	6,260,482	6,450,092	6,628,435
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5,208,888	5,579,115	5,861,904	6,112,663	6,266,134	6,471,335	6,637,329
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5,291,273	5,600,448	5,900,981	6,130,702	6,283,589	6,493,064	6,641,978
5,305,091	5,608,822	5,934,196	6,134,393	6,295,076	6,494,965	6,646,669
5,323,248	5,615,282	5,946,426	6,136,509	6,299,572	6,503,691	6,648,468
5,325,217	5,625,397	5,947,028	6,137,580	6,318,266	6,509,903	6,652,088
5,339,176	5,625,766	5,958,647	6,147,789	6,328,408	6,511,163	6,654,147
5,343,059	5,636,330	5,966,504	6,158,345	6,336,708	6,520,084	6,660,997
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5,359,451	5,650,076	5,973,801	6,164,637	6,352,816	6,541,181	6,665,048
5,359,458	5,652,804	5,986,819	6,165,658	6,353,216	6,544,336	6,665,121
5,367,360	5,680,129	5,995,475	6,180,325	6,366,339	6,545,772	6,670,986
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5,384,899	5,691,828	5,998,067	6,181,439	6,377,739	6,564,018	6,704,123
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MCU for Lotem 800 Installation Guide

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Overview

This installation guide describes the procedures for connecting a multi-cassette unit (MCU) onto a Lotem 800 II platesetter (that has already been pre configured at the factory for connecting to an MCU). It details the following steps which are required to prepare and install the MCU for operation:

- Unpacking the MCU
- Preparing the MCU
- Installing the MCU
- Testing the MCU

Prerequisites

Prerequisites for connecting the MCU to the Lotem 800 II platesetter are as follows:

- Microsoft Windows 2000, version 1.03
  - E-box without NUC
  - CPU SBC 786 board
- Workstation:
  - Brisque software for version 4.1.76 + UPD output 5 and higher
  - CS Expose 2.00.64 update 002 and higher
- Lotem Controller s/w version 3.80.16
- MCU Control board comp level L

Unpacking the MCU

This section describes how to unpack the MCU.

The MCU is shipped in two containers. One container contains the MCU and a separate container contains the MCU tunnel.

A minimum of two people and a fork lift are required to disassemble the package and remove the MCU from the shipping pallet.



Note: See *Unpacking the MCU* on page 4.

1. Carefully cut the two steel bands [1] surrounding the outer carton.
2. Remove the staples securing the outer carton [2] to both the shipping pallet [7] and the wooden support struts [5].
3. Remove the outer carton and place it to one side.
4. Carefully cut the bands that tie the MCU and the tunnel box together [9].
5. Remove the tunnel box from the pallet and place it to one side.
6. Remove the wooden bridge surrounding the MCU.
7. Disassemble the four screws, brackets and washers [8] that bind the MCU to the packaging pallet.
8. Using a fork lift, remove the MCU from the packaging pallet. Make sure the MCU is lifted only at the designated locations.
9. Remove the protective rubber angles tied to both the MCU corners and upper doors [4].
10. Remove the nylon wrapping from the MCU.
11. To move the MCU, lift its legs so that the MCU can be rolled on its wheels.
12. Roll the MCU to within a few meters of its final location.

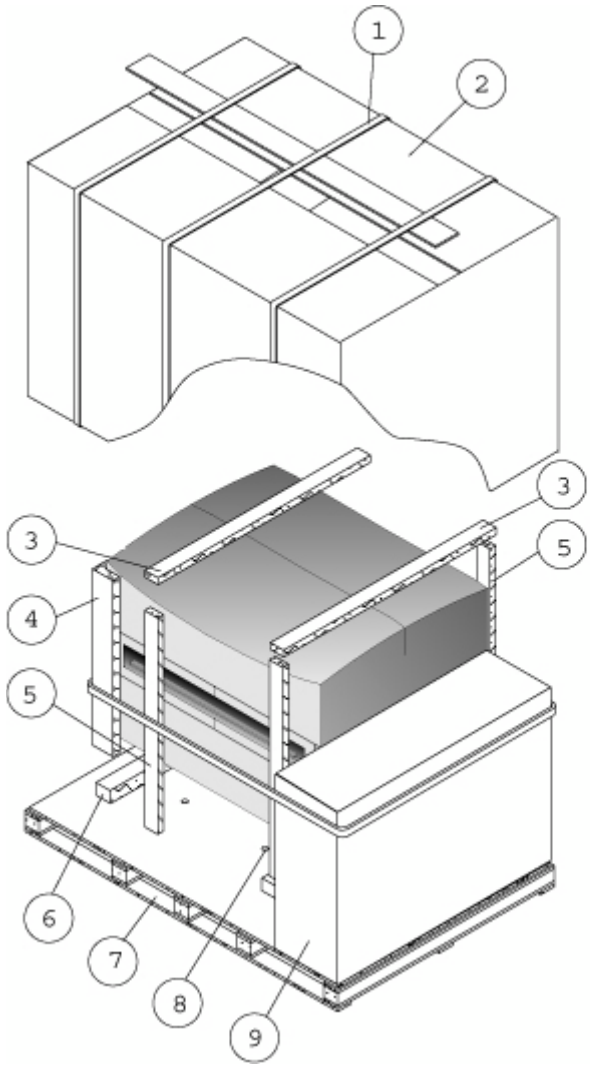


Figure 1: Unpacking the MCU

Preparing the Lotem 800 II Platesetter

This section describes how to prepare the Lotem 800 II platesetter in order to connect it to the MCU.

Required tools:

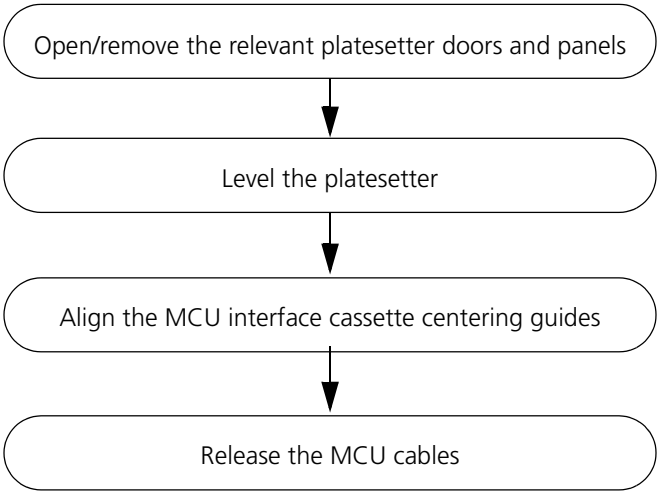
- Full set of hex keys
- Phillips screwdriver
- Flat screwdriver
- Wire cutters
- 7/8”open wrench
- 1” open wrench
- Spirit level (levelling instrument)
- Jig kit: 510J6L041 - L-800 MCU regional jig kit



Figure 2: MCU regional jig kit (part number 510J6L041

Important: Before continuing with these procedures, ensure that the Lotem 800 II platesetter has been installed in compliance with the Lotem 800 II installation guidelines.

Workflow



1. Open the platesetter's front and rear covers.
2. Open the left and right side doors.
3. Remove the two screws securing the TMCE door and then open the door.
4. Remove the front cassette panel.
5. Remove the lower panel (paper bin cover).

Leveling the Platesetter

1. On the platesetter, verify that the height from the paper clamp operator to the floor, is at least 1005 mm:

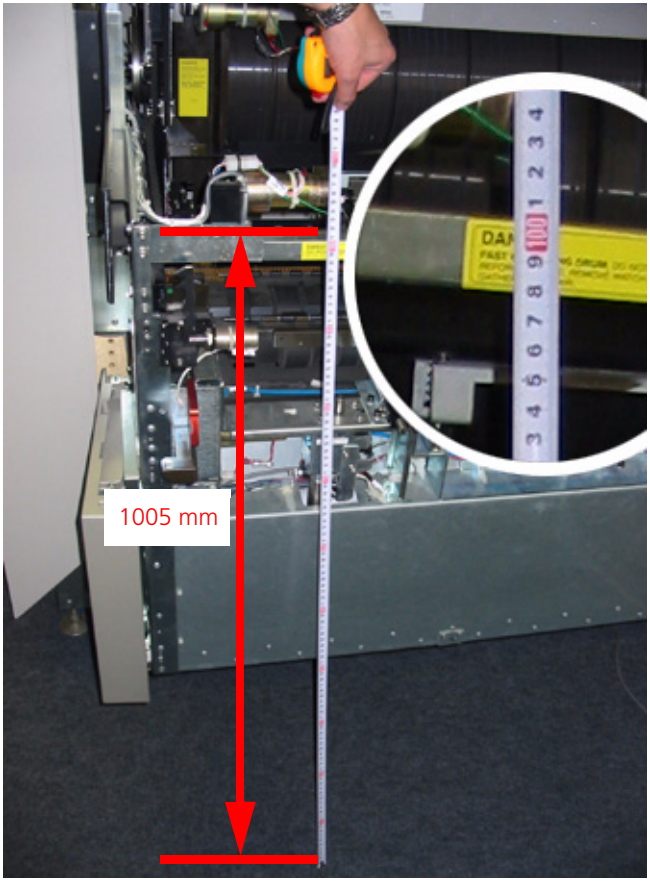


Figure 3: Make sure platesetter is at correct height

2. Position the platesetter adjusting jig (part number 507F3E657) on top of the paper disposal bases.
   - Make sure the jig's legs are touching the top of the interface bearings.
   - If the jig is not touching the bearings, then either add or remove bearing spacers (part number 290A6A861).
   - Place a level on top of the jig and verify that the platesetter is level:

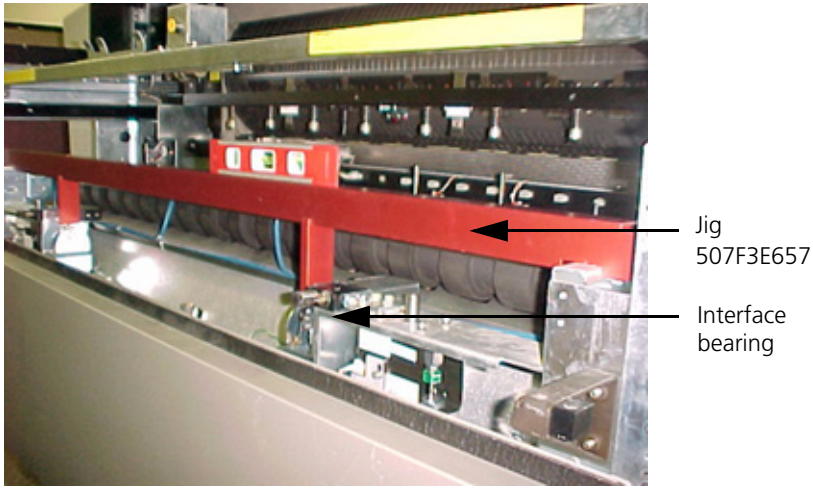


Figure 4: Platesetter adjusting jig (part number 507F3E657)

3. Place the level, in turn, on the front, rear, left, and right of the platesetter:



Figure 5: Verify that the platesetter is level.

- Verify that the platesetter is level. If required, adjust the platesetter's legs.
- Make sure that the height from the paper clamp operator to the bar, remains at a minimum height of 1005 mm.

Aligning the MCU Interface Cassette Centering Guides

This section describes how to align the *MCU interface cassette centering guides* with the *platesetter's centering system*.

1. Use a Phillips screwdriver to remove the six screws securing the plate front support assembly (located on the front of the paper disposal assembly):



Figure 6: Remove the plate front support assembly

2. Manually move the platesetter's centering system pins and then insert the MCU centering jig (part number 507E3E656) onto the centering system assembly. Make sure the centering system pins fit into the grooves on the MCU centering jig.

3. Make sure that the MCU centering jig touches the MCU interface cassette centering guides.
   If the centering jig is not touching the guides, then either add or remove spacers (part number 280A2T033) accordingly:

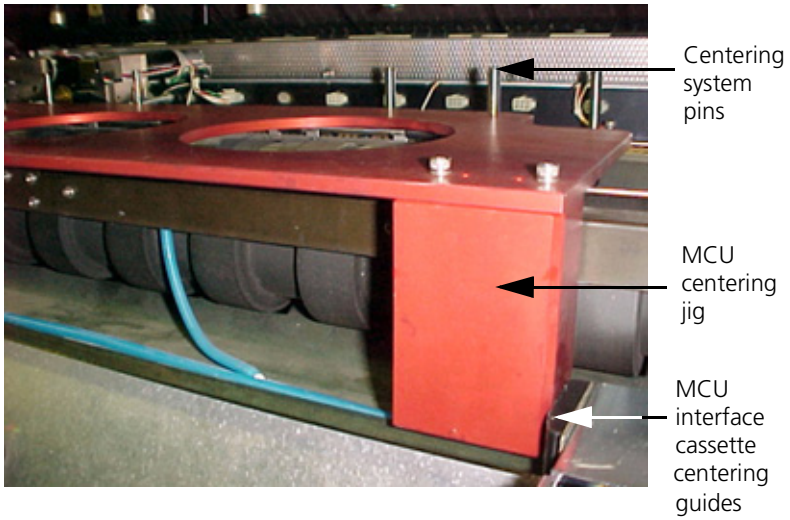


Figure 7: MCU centering jig

4. Remove the MCU centering jig.
5. Reinstall the plate front support assembly.

Releasing the MCU Cables

1. Release all the MCU cables and MCU wires that are located behind the platesetter's E-box.
2. Feed the cables through the access hole on the platesetter's floor and then route them towards the MCU.

Checklist

- Opened/removed the relevant platesetter doors and panels.
- Leveled the platesetter.
- Aligned MCU interface cassette centering guides.
- Released the MCU cables.

Preparing the MCU

This section describes how to prepare the MCU so that it can be connected to the Lotem 800 II platesetter.

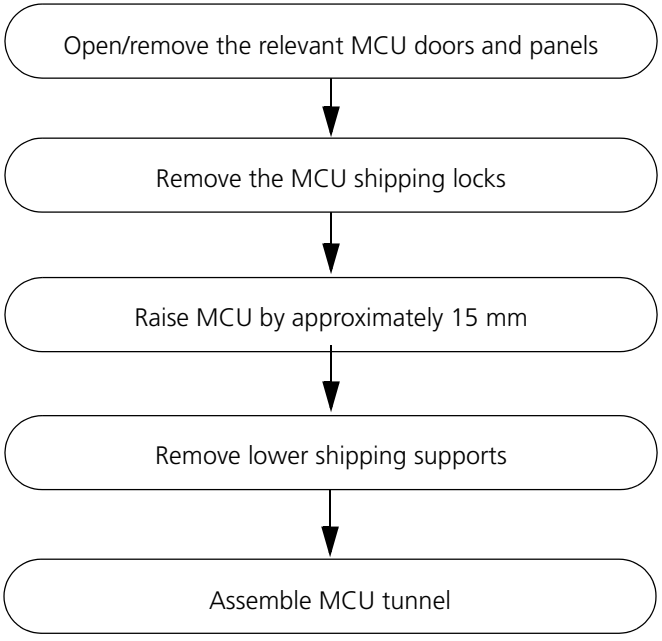
Required tools:

- Full set of hex keys
- Phillips screwdriver
- Flat screwdriver
- Wire cutters
- 1 in. open wrench
- Tunnel locking jig



Do not begin to prepare the MCU until it has been lowered onto its wheels. See, *Unpacking the MCU* on page 3.

Workflow



1. Remove both the side panels from the MCU:



Figure 8: Remove MCU side panels

2. Remove the four screws securing the upper front door, and then remove the door.
3. Remove the four screws securing the upper rear door, and then remove the door:

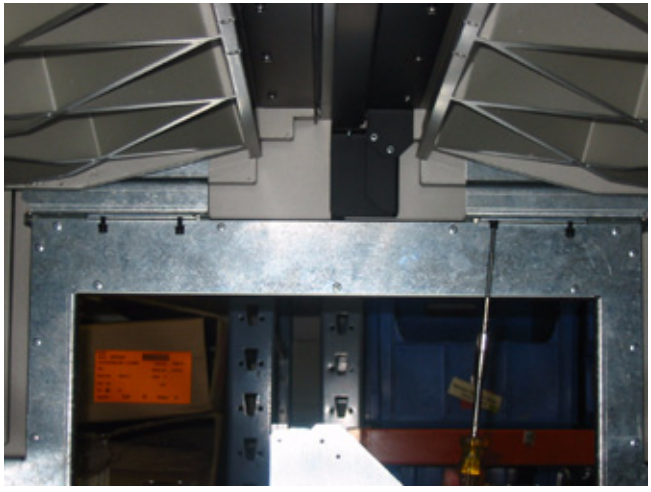


Figure 9: Remove MCU upper doors

4. Remove the left and right MCU side panels.
5. Open the MCU service doors:



Figure 10: Open MCU service doors

6. Use a hex key to remove the shipping locks located on both sides of the cassette trays:

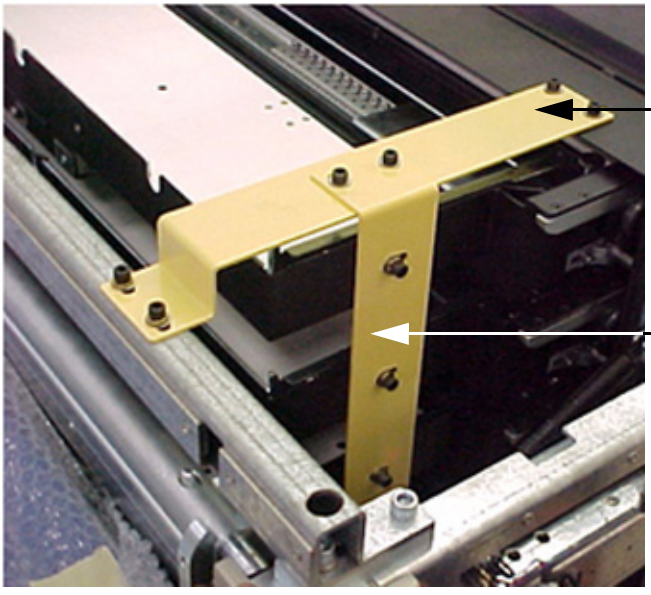


Figure 11: Rear shipping locks

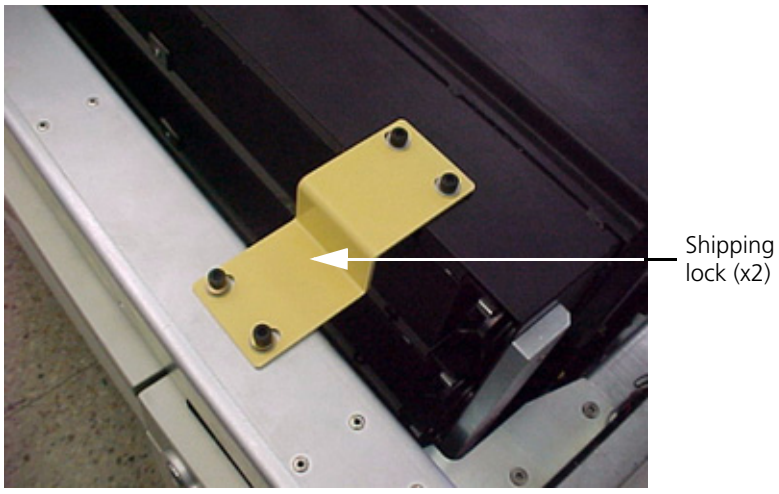


Figure 12: Front shipping locks

7. From inside the service doors, rotate the motor timing belt in a clockwise direction, until the MCU elevator is raised by approximately 15 mm:

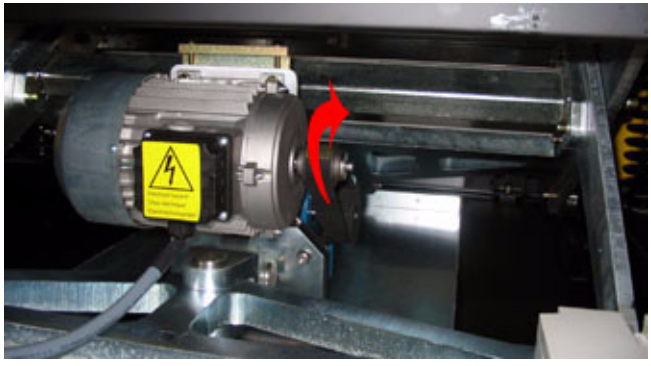


Figure 13: Rotate the motor timing belt

WARNING: When manually raising the elevator, be careful not to trap fingers, or loose clothing in the timing belt.
If there is any resistance when rotating the gear, stop rotating and check for any obstacles.

8. When the MCU elevator is raised, carefully remove the four lower shipping supports from the MCU floor:

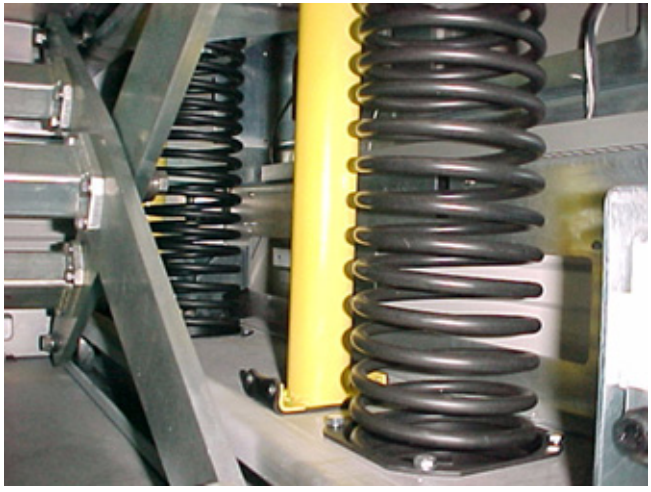


Figure 14: Remove the shipping supports

9. Cut the cable ties securing the tunnel's gas springs.

Assembling the MCU Tunnel

This section describes how to assemble the MCU tunnel in order to accommodate it to the platesetter.

Important: Two people are required to perform the procedures in this section, as the tunnel weighs approximately 80 KG.

1. On the MCU, rotate the MCU tunnel shaft so that the locking pins are facing downwards:

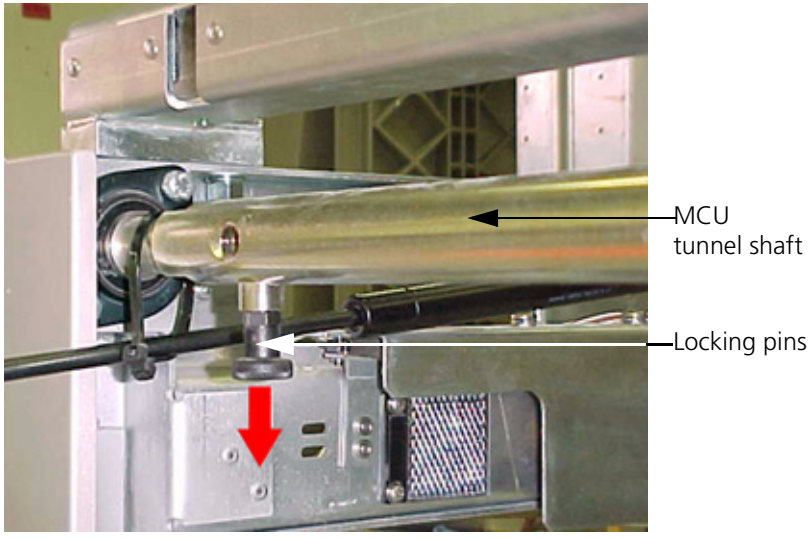


Figure 15: Make sure locking pins are facing downwards

2. Make sure that the floor space between the MCU and the platesetter is clear of any obstacles or wires.
3. Remove the tunnel assembly from its shipping crate and place it on a work table.

4. On the tunnel beam assembly, loosen, but do not remove, the four screws (two per each side):

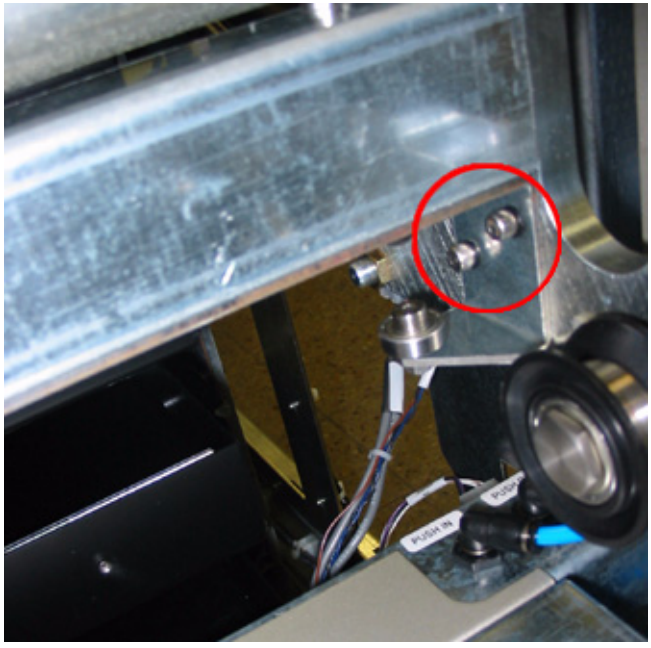


Figure 16: Loosen, but do not remove, the four screws

5. Lift the tunnel into a perpendicular position, and then install it onto the tunnel shaft. The tunnel is correctly installed when the two locking pins make an audible noise:

Important: Make sure that one person is always holding the tunnel until it is secured to the MCU.

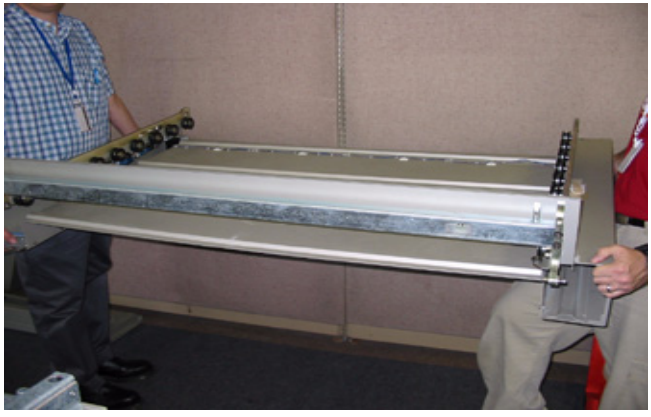


Figure 17: Lift the tunnel

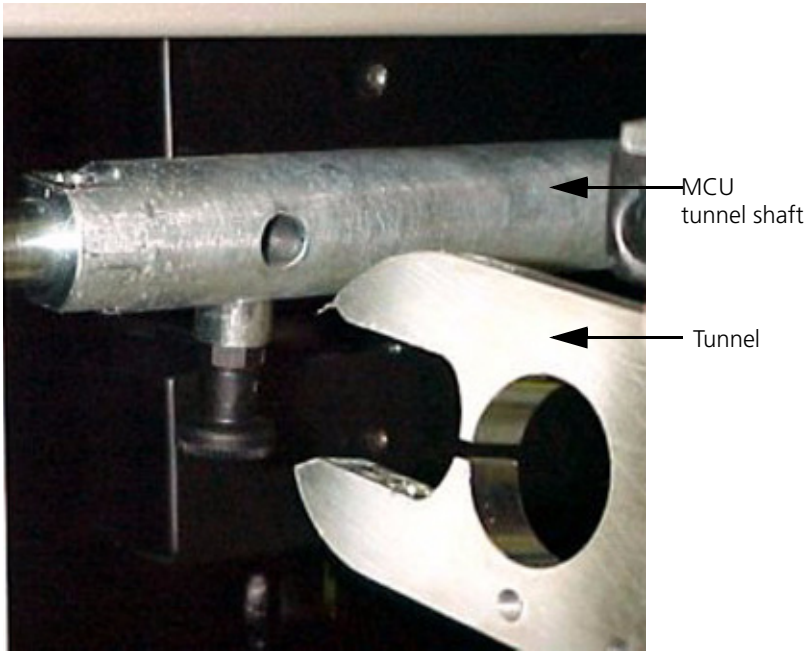


Figure 18: Install tunnel onto the MCU tunnel shaft

6. Insert and tighten the two tunnel bridge screws (5/16 - 18/2.5):

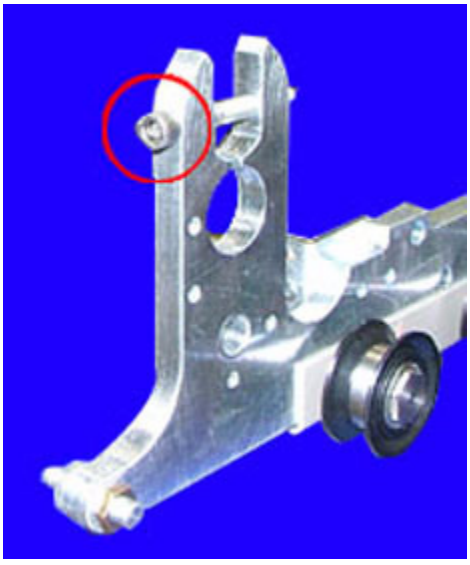


Figure 19: Retighten the tunnel bridge screws

7. Install the tunnel's gas springs and a washer onto the pins located at either end of the tunnel. Use a split pin to secure the gas springs to the tunnel:

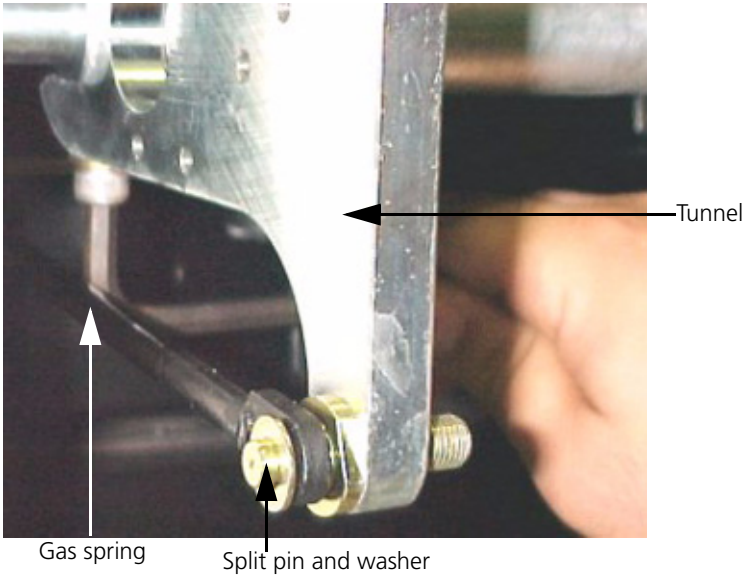


Figure 20: Connect gas spring to tunnel

8. Use the tunnel locking jig (supplied with the MCU tunnel kit) to secure the tunnel in an upright position. Install the jig onto the right side of the MCU:

Important: Make sure one person is holding the tunnel at all times.

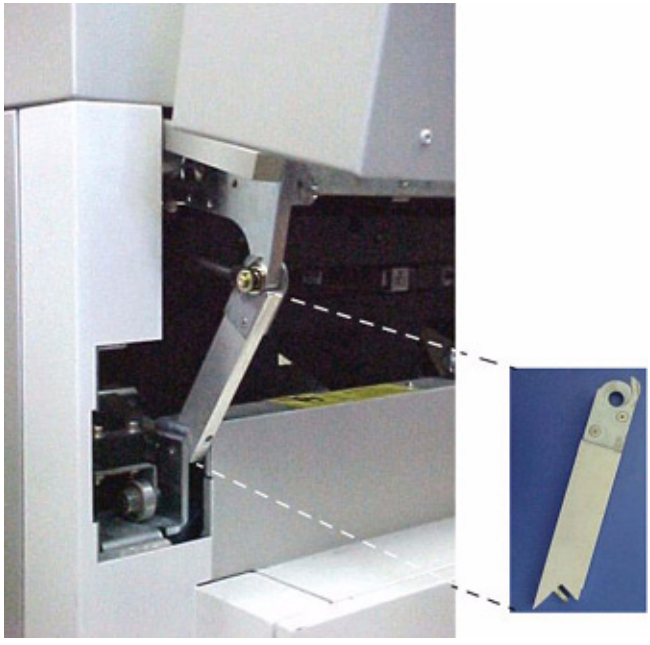


Figure 21: Install the tunnel locking jig

9. Retighten the four screws on the tunnel beam assembly (see Figure 18 on page 18).

10. Locate the two blue air tubes and connect them to the air connectors beneath the end of the left beam, located on the MCU mainframe:

Important: Make sure the air tube labeled **in** is connected to the connector labeled **in**, and make sure the air tube labeled **out**, is connected to the connector labeled **out**.

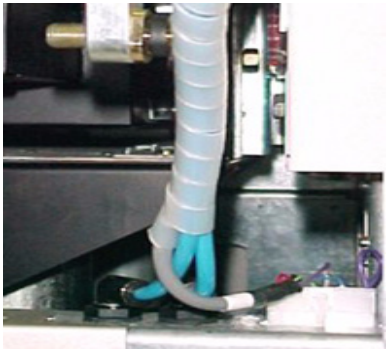


Figure 22: Connect two blue air tubes

11. Connect the tunnel harness connector to the Molex connector on the left side of the MCU mainframe:

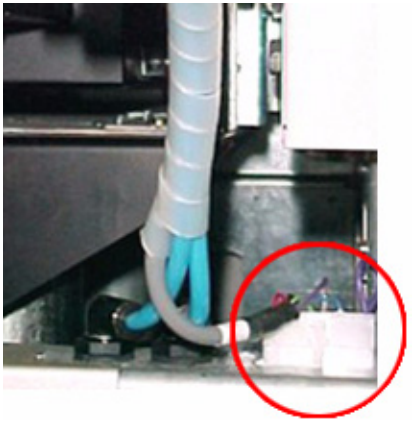


Figure 23: Connect tunnel connector

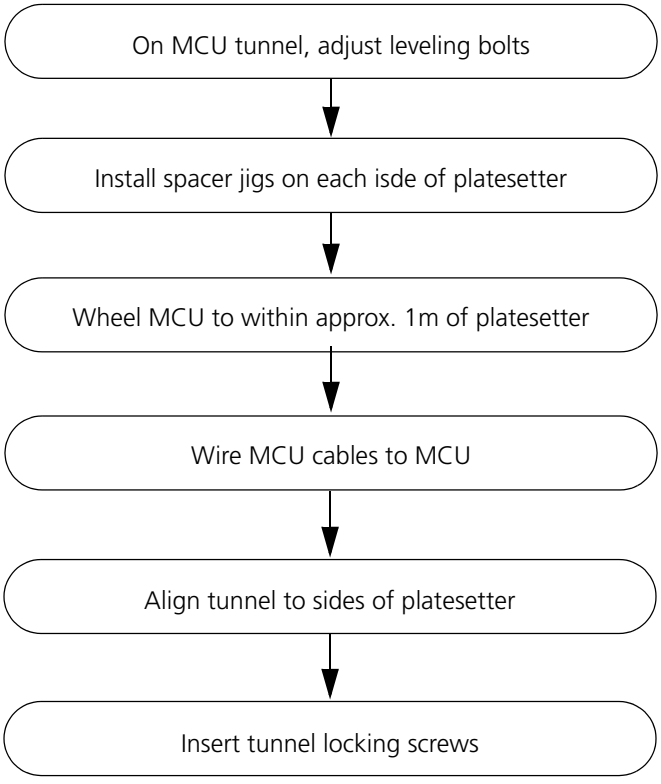
Checklist

- Opened/removed the relevant MCU doors and panels.
- Removed MCU shipping locks.
- Raised MCU by approximately 15 mm.
- Removed lower shipping supports.
- Assembled MCU tunnel.

Connecting the MCU to the Platesetter

This section describes how to connect the MCU to the platesetter.

Workflow



1. On the MCU tunnel, adjust the two leveling bolts (one per each side) so that the bolts extends approximately 15 mm. The bolts provide a reference leveling point:

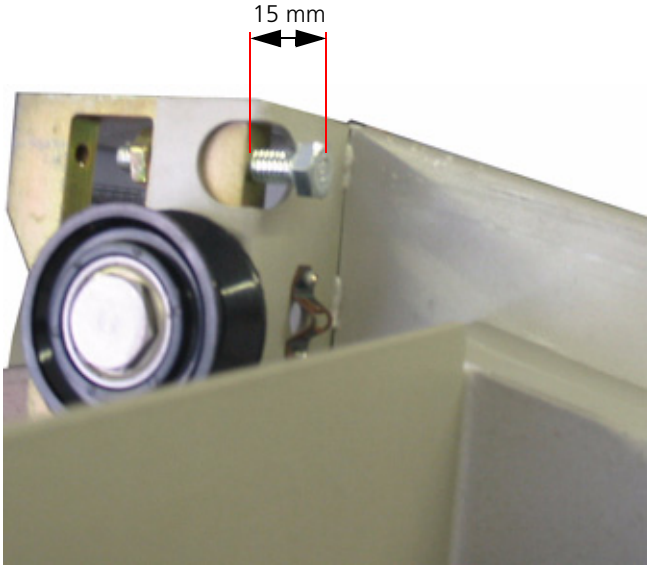


Figure 24: Make sure leveling bolt is extended 15 mm

2. Install the spacer jigs for the MCU tunnel (part number 290B6B230) on each side of the platesetter. If required, remove the front door solenoid connector:

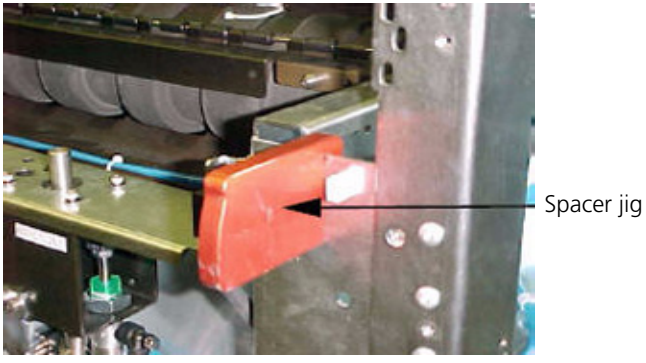


Figure 25: Install the two spacer jigs

3. Wheel the MCU to within approximately 1 m from the platesetter.

4. Connect the MCU cables to the MCU as follows:
   - Connect COM 1 cable to MCU local board mother board.
   - Connect the cassette pins' cable to its Molex connector on the MCU.
   - Connect the power outlet cable to the MCU power outlet.
   - Connect the MCU main harness to the main Molex connector on the MCU.
   - Release the orange air tube located between the E-box and the local board. Feed the tube through the access hole on the platesetter's floor and then route it towards the MCU.
5. Lower the MCU tunnel to determine the correct relative position of the MCU to the platesetter.
   - Use the spacer jigs as a guide for positioning the MCU to the platesetter.

6. Place the level between the side panel of the platesetter and the side panel of the MCU tunnel:



Figure 26: Align MCU to platesetter

- Make sure that the sides of the tunnel are aligned to the sides of the platesetter.
- If the tunnel and the platesetter are not aligned, then slightly push the MCU in a sideways direction, as required.

7. When the MCU and platesetter are aligned, insert the two tunnel locking screws (part number 380A09141) and washers (part number 382A16000) to secure the tunnel to the platesetter. Do not fully tighten the locking screws as they will prevent adjusting the bridge leveling screws:

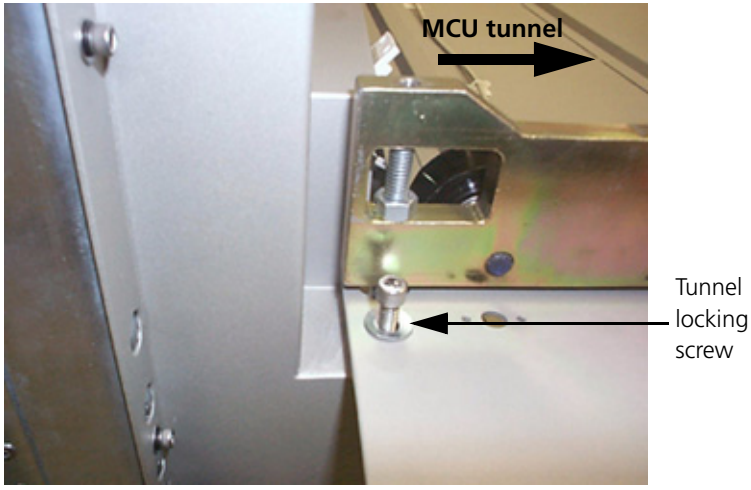


Figure 27: Secure the tunnel to the platesetter

Note: Use the spacer jigs to make sure that the distance between the MCU tunnel and the platesetter does not change.

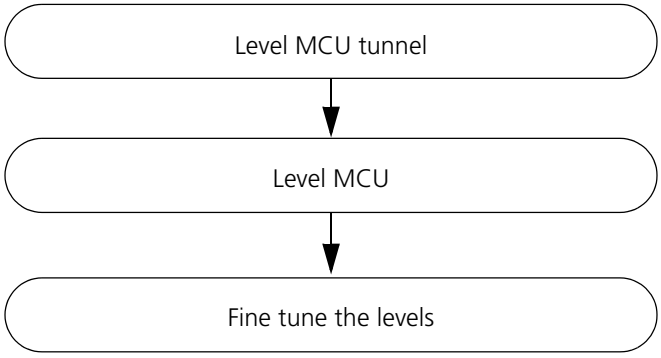
Checklist

- On MCU tunnel, adjusted leveling bolts.
- Installed spacer jigs on each side of platesetter.
- Wheeled MCU to within 1 m of platesetter.
- Connected MCU cables to MCU.
- Aligned tunnel to sides of MCU.
- Inserted tunnel locking screws.

Leveling the MCU and Tunnel

This section describes how to level the MCU and MCU tunnel.

Workflow



Leveling the MCU Tunnel

1. Place the left/right jig on the section of the MCU tunnel that is closest to the platesetter. Place the level on top of the jig:

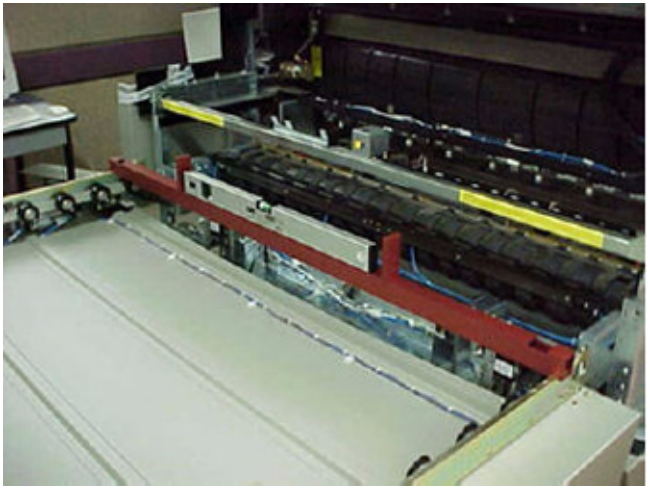


Figure 28: Place level on top of jig

2. If the MCU tunnel, at the side closest to the platesetter, is not level, then adjust the bridge leveling screws as required:

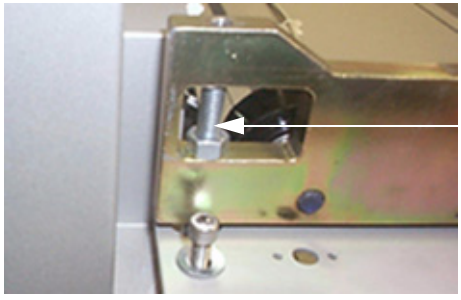


Figure 29: Adjust bridge leveling screw

3. Lower the MCU legs.

Note: When lowering the legs, make sure not to lower any individual leg too much before lowering its counterpart leg. Always try to lower the legs in pairs.

4. Place the level, in turn, on each side of the MCU tunnel.



Figure 30: Place level on either side of MCU tunnel

5. If the sides of the MCU tunnel are not level, then adjust the MCU's rear legs (closest to platesetter), as required.

6. Place the jig on the front of the MCU tunnel (side closest to MCU) and then place the level on the jig:

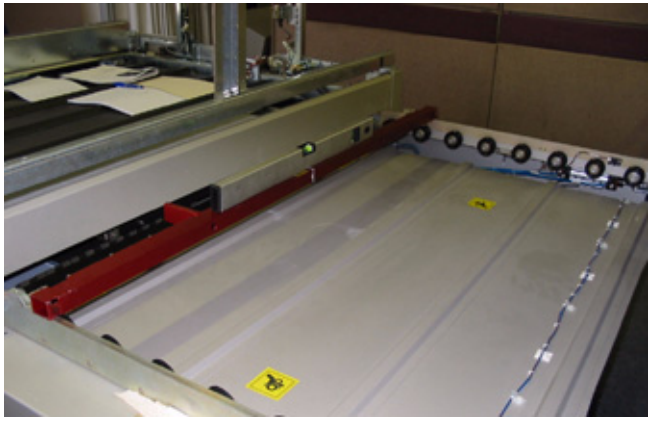


Figure 31: Place jig and level on front of MCU tunnel

7. If the front of the MCU tunnel is not level, then adjust the MCU's rear legs as required.

Leveling the MCU

1. Place the level, in turn on all four sides of the MCU chassis. If the MCU is not level, then adjust the MCU's legs as required.

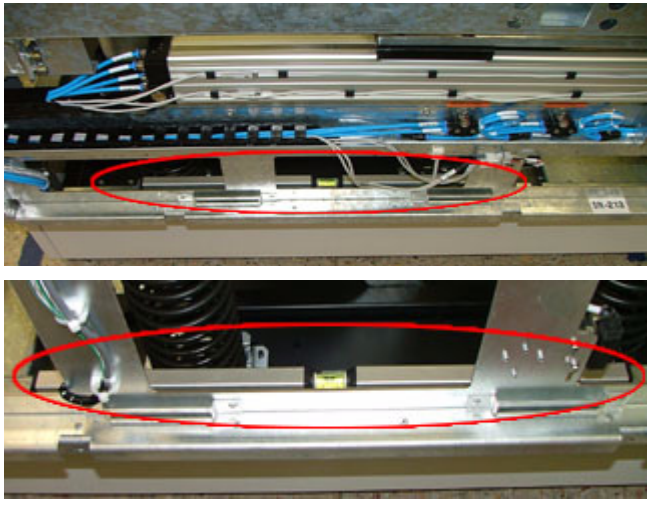


Figure 32: Place level on four sides of MCU

2. Use a tape measure to measure the two diagonal lengths of the MCU:



Figure 33: Measure the diagonals of the MCU

- Measure from the front right corner, to the rear left corner.
- Measure from the front left corner to the rear right corner.

The two diagonal measurements should be equal to each other. No tolerance is allowed. If the diagonal measurements are not of equal length, then adjust the MCU's front legs (located on the user door side) accordingly.

Fine Tuning the Levels

During the leveling procedures, some parts of the MCU and MCU tunnel are individually adjusted. This may cause other areas of the MCU and MCU tunnel to become uneven, or not level, (even though they were previously level).

In order to make sure that both the MCU and MCU tunnel are maintained at an even (and level) height, it is mandatory to check the following specific positioning and alignment after making any adjustments.

- Make sure that the sides of the MCU tunnel are aligned to the sides of the platesetter.
- Front and rear of MCU tunnel
- Two sides of MCU tunnel
- MCU diagonals
- Four sides of the MCU chassis

Ensure that the MCU and MCU tunnel are level at all the above locations. No tolerance is acceptable. If either the MCU or MCU tunnel are not level at any of these specific locations, then adjust the legs and/or bridge leveling screws as required.

Checklist

- Leveled the MCU tunnel.
- Leveled the MCU.
- Fine tuned the levels.

Aligning the Cassette Trays

This section describes how to align the cassette trays to the platesetter's MCU interface.

1. On the wall-mounted air pressure unit, set the air pressure to 90 psi.
2. Power on the platesetter.
3. Start up Lotem Controller.
4. Use the relevant defeaters to enable the MCU reset light.
   - Defeat the cassette panel motor interlock to enable the cassette to move into the platesetter.
   - Insert the defeater into the platesetter's motor interlock, located on the top rear cover of the platesetter.



Important: The cassette front panel must be defeated in order to enable the MCU reset light.



Figure 34: Insert the defeater into the platesetter's motor interlock

5. In Lotem Controller's hardware tree, locate Cassette System and then open the MCU Control dialog box. From the dialog box raise the MCU elevator to the cassette tray #5 level (Tray in Lotem).
6. Use the MCU service box to release the cassette locker.

7. Use the cassette pulling jig to manually extract the cassette tray from the MCU to the MCU tunnel:

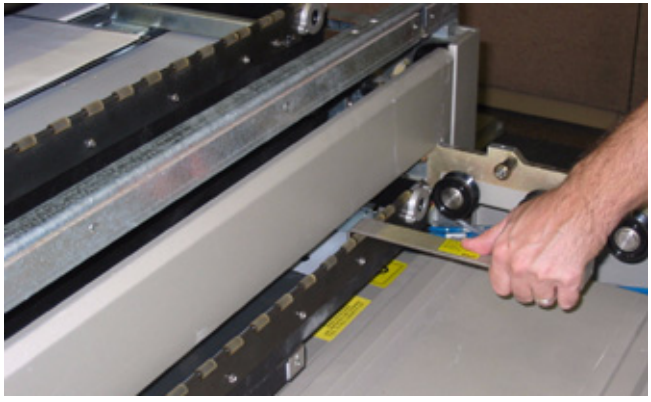


Figure 35: Use the cassette pulling jig to extract cassette tray

8. From underneath the tunnel, check the following:
   - MCU tunnel is the correct height in relation to the platesetter.
   - There is adequate clearance room between the cassette tray and the platesetter interface.
   - Cassette tray does not collide with the shock absorbers.
   - Cassette tray slides smoothly onto interface support bearings.
   - Cassette tray inclines slightly, and is supported by the bearings.

   If any of the above need to be corrected, then make the necessary adjustments. Ensure that the MCU and MCU tunnel remain level, see *Fine Tuning the Levels* on page 31.
9. After aligning the cassette trays, repeat the entire section *Leveling the MCU and Tunnel* on page 27, up until and including step 8 of this section.
10. Tighten the bridge leveling screw bolt, see Figure 29 on page 28.

Aligning the Cassette Centering Systems

This section describes how to align the MCU cassette centering system to the platesetter centering system.

1. On the MCU, use a hex key to slightly loosen the three screws securing the tray centering assembly:



Figure 36: Release the three screws securing the tray centering assembly

2. In Lotem Controller, activate the platesetter's cassette valve.
3. Manually push cassette tray #5 into the platesetter until it is flush against the MCU interface centering guides.
4. Slightly extract cassette tray #5 from inside the platesetter until the cassette tray is resting on the MCU tunnel.
5. Tighten the three screws securing the tray centering assembly.

6. Use a Phillips screwdriver to slightly loosen the eight cassette tray centering system assembly screws:

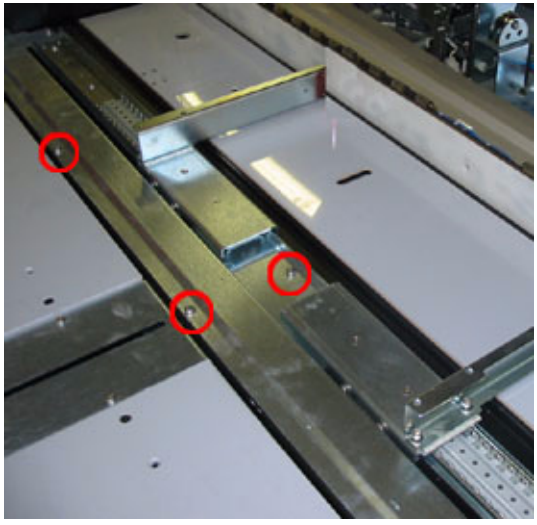


Figure 37: Remove the eight assembly screws

7. Insert the two centering jigs (part number 290B6B229) into their designated location on the cassette tray.

8. If required, adjust both the centering arms until they simultaneously touch the centering jigs, and then retighten the eight assembly screws:

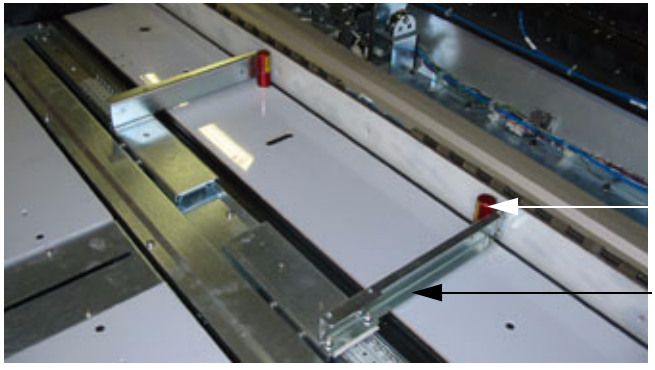


Figure 38: Close centering arms until they touch centering jig

9. From underneath the tunnel, manually move the cassette tray backwards and forwards, and check the following:
   - Wires are not obstructed.
   - Cassette tray moves smoothly against the platesetter MCU interface assembly.
   - Cassette in detector tray is aligned with the relevant cassette tray magnet:

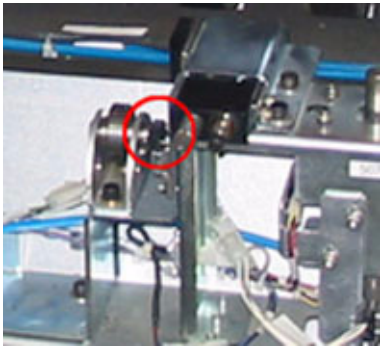


Figure 39: Check cassette in detector tray alignment

   - Cassette tray is supported equally by the MCU interface support bearings. If required, add or remove spacers to or from the bearings:

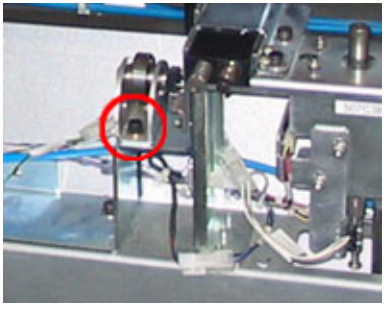


Figure 40:

10. Check the following:
    - There is sufficient clearance room for the cassette valve to enter the cassette tray.

- When the sequence ends, the cassette tray is parallel to the paper disposal assembly. If required, adjust the position of the cassette valves.

11. Use the service box to release the cassette locker and then push cassette tray #5 all the way into the MCU.
12. Repeat steps 5-9 of previous section, see *Aligning the Cassette Trays* on page 32 for each of the remaining four cassette trays.
13. Repeat steps 1-11 of this section for each of the four remaining cassettes.
14. Remove the main cylinder end position detector access panel, located on the right side of the bridge.
15. In Lotem Controller, send in turn, all the cassettes trays to the platesetter. For each cassette tray, check the MCU's main cylinder home position (HP) and end position (EP) detectors.

Completing the MCU Installation

This section describes how to complete the MCU installation.

1. Reinstall the upper and lower front panels onto the platesetter.
2. Reinstall all the MCU panels and doors.
3. Close the platesetter's front and rear covers.
4. Close the platesetter's eft and right side doors.
5. Reinstall the two screws securing the TMCE door and then close the door.
6. Reinstall the front cassette panel.
7. Reinstall the lower panel (paper bin cover).
8. Reinstall the main cylinder end position detector access panel.

Testing the MCU Installation

1. Load plates into the cassette and update the cassette database.
2. Load a plate onto the drum and check the following:
   - Loading is smooth.
   - Centering system does not move the plate while performing plate centering.
   - Plate loaded onto the center of the drum.