Installation Guide

English

MCU for Lotem 800

399Z1R093B

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RE37,376	5,325,217	5,532,728	5,742,743	5,996,499	6,158,345	6,353,216
4,558,302	5,339,176	5,561,691	5,764,374	5,998,067	6,159,659	6,366,339
4,743,091	5,343,059	5,568,595	5,764,381	6,003,442	6,164,637	6,371,026
4,992,864	5,355,446	5,576,754	5,771,794	6,014,471	6,180,325	6,377,739
5,049,901	5,359,451	5,579,115	5,785,309	6,016,752	6,181,362	6,387,597
5,079,721	5,359,458	5,592,309	5,813,346	6,031,932	6,181,439	6,396,422
5,103,407	5,367,360	5,594,556	5,818,498	6,043,865	6,186,068	6,396,618
5,111,308	5,384,648	5,600,448	5,854,883	6,060,208	6,189,452	6,407,849
5,113,249	5,384,899	5,608,822	5,861,904	6,063,528	6,191,882	6,414,755
5,122,871	5,412,491	5,615,282	5,861,992	6,063,546	6,204,874	6,422,801
5,124,547	5,412,737	5,625,766	5,875,288	6,072,518	6,208,369	6,435,091
5,132,723	5,420,702	5,636,330	5,894,342	6,090,529	6,214,276	6,441,914
5,150,225	5,420,722	5,649,220	5,900,981	6,096,461	6,217,965	6,450,092
5,153,769	5,459,505	5,650,076	5,934,196	6,098,544	6,260,482	6,456,396
5,155,782	5,473,733	5,652,804	5,942,137	6,107,011	6,266,080	6,476,931
5,157,516	5,481,379	5,680,129	5,946,426	6,112,663	6,266,134	6,477,955
5,208,818	5,488,906	5,691,823	5,947,028	6,115,056	6,267,054	6,509,903
5,208,888	5,497,252	5,691,828	5,958,647	6,121,996	6,268,948	
5,247,174	5,508,828	5,696,393	5,966,504	6,130,702	6,283,589	
5,249,067	5,509,561	5,699,174	5,969,872	6,134,393	6,295,076	
5,283,140	5,517,359	5,699,740	5,973,801	6,136,509	6,299,572	
5,291,273	5,519,852	5,708,736	5,986,819	6,137,580	6,318,266	
5,323,248	5,526,143	5,713,287	5,995,475	6,147,789	6,352,816	

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Chapter 1

Installation and Service Safety Precautions

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Introduction

Read the MCU for Lotem 800 Safety Precautions for User, 399Z1R097A - an indispensable part of the service safety precautions.

Read the following safety chapter carefully before installing, operating, servicing or maintaining the MCU for Lotem 800.

Follow the instructions in this chapter to ensure your safety and the safety of others when installing and servicing the MCU. These instructions are also required for the user’s safety.

Preliminary Safety Precautions

1. Whenever servicing the MCU , post the following sign close to the keyboard and close to the MCU: **CAUTION**: machine in service – do not operate. This sign will caution people from operating the MCU while it is being serviced.
2. Many service procedures can be performed when the entire MCU or some of its assemblies are switched off. Service the MCU when it is **OFF** and disconnected from the 208 Volts supply, whenever possible.



Shutting the MCU ON/OFF switch off, only disconnects the 24 Volt DC control in the MCU. The 208 Volt AC supply coming from the Lotem platesetter is not disconnected. For disconnection of the 208 Volt supply, either shut off the Lotem platesetter Main switch or disconnect the power cord from its inlet in the MCU. The inlet is located behind the service doors at the lower part of the MCU, below the bridge.

3. While taking appropriate precautions, the service engineer is allowed to defeat interlock switches. Do so **only** when no alternative service option is possible.
4. Prior to service, remove any piece of clothing or object that may get caught in the moving parts of the MCU. For example, remove ties, roll up long sleeves, remove rings and bracelets, and gather long hair.
5. **Do not** put your hands on or near parts that may be moving.
6. **Do not** leave any tools near the movable parts.
7. After service, be sure to close any door or barrier you have opened for service, so no one can access the inside of the MCU after service is complete.
8. Make sure not to leave any tools inside the MCU.
9. Whenever adjusting or checking an electrical board/unit, verify that you are using the correct test point. Do not touch any unit with bare hands.

Installation

Installation or service must be performed only by authorized service personnel.

WARNING! Only certified service personnel are allowed to install or service the MCU.

Power Line and Safety Ground

Refer to the Lotem 800 Family Site Preparation Guidelines, 399Z51191D, also located on Tech Planet.

The MCU is connected electrically only to the Lotem 800.

WARNING! Be sure to install the interconnecting wires, air tubes and cords in the protective duct. This prevents step and wear.

DANGER! Hazard of fatal electric shock if safety ground path is interrupted!

DANGER! Hazard of fire or electric shock if wires or cords are damaged.

Pneumatic Connections

The MCU receives pneumatic air pressure from the platesetter.

Non-English Warning Labels

Where a language other than English is spoken, the service engineer must stick the translated warning labels (included with the MCU) according to the country of installation, in the designated locations. The translated labels have the letter ‘K’ in the catalog number.

MCU Safety Precautions

The MCU safety precautions section includes the following topics:

- On/Off & On/Reset Buttons
- Service Control Box
- Cassette Drag Jig
- Precautions Below the Bridge
- Enclosures
- Safety Interlocks and Emergency Switches
- Warning Labels

On/Off & On/Reset Buttons

Correct switching of the MCU **ON** requires that the **ON/OFF** switch on the MCU front panel is set to **ON**, and the **ON/Reset** button is then pressed. The **ON/Reset** button will then be lit.



WARNING: If the ON/Reset button light is on without the ON/Reset button being pressed, the MCU is faulty and unsafe, a relay in the control circuits fails to disconnect. The MCU is not allowed to operate until this is repaired!

Service Control Box

The Service Control Box is intended for service engineer use **only**. It includes control buttons, emergency pushbutton and an enable button. Use it instead of the workstation if you opened the bridge cover or other barrier. Remember that it takes few seconds for the emergency switch, to stop the air driven cassette pistons!

The service box has the following controls:

1. **Lift Up/Lift Down**- used to raise/lower the elevator.
2. **User Door** - releases the locking pins from the Operator's (User) front door.
3. **Locker** - releases the Cassette Locker- to move the cassette manually towards the platesetter or insert the cassette back to the elevator.
4. **Enable** - enables the **Lift Up/Lift Down** buttons.

In order to operate the elevator by the service box, you must press the Enable button on the left side of the box at the same time you press the LIFT UP or LIFT DOWN buttons.

WARNING! Check that the service control box performs its controls when it is drawn out of its place. For example, try to open the operator door or move the elevator via the service box. If controls is not automatically switched to the service box, a microswitch or relay, failed in the control system. While keeping appropriate precautions, fix this failure first.

Cassette Drag Jig

The Service engineer must use the MCU cassette drag jig, s/n 292A7B676 (see figure below), to pull the cassette out of MCU towards the bridge when the machine is in service mode.
Do not insert fingers!

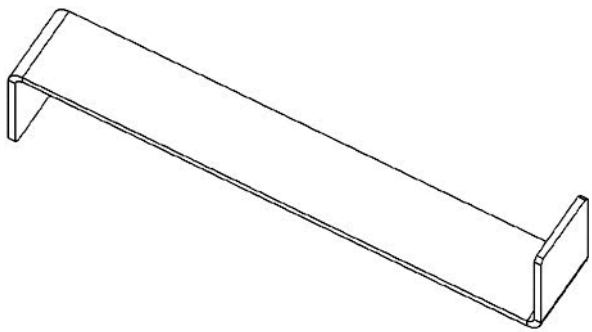


Figure 1. MCU cassette drag jig

Precautions for Servicing Below Bridge

- Be extremely careful while servicing the MCU through the service doors located below the bridge.

  Unless you shut the MCU off, you will be exposed to quick, unexpected horizontal movements of the cassette above your head and slow but powerful movements of the elevator.

- Use the Support tunnel assembly (s/n 292A6B551) to support the bridge when the bridge is raised (*see Figure 7 on page 20*).

Enclosures



WARNING! After performing any service activity and before switching the MCU on, the service engineer must check and ensure that all external and internal enclosures are complete, not broken or cracked, and properly assembled to the MCU.

Safety Interlocks & Emergency Switches

- The two emergency stop pushbuttons, located on both sides of the MCU, the emergency stop pushbutton on the service control box and the interlocks are provided for disconnecting power from the mechanical hazards that exist in the MCU. However, it takes few seconds until the air driven pistons come to a rest after the emergency stop pushbutton was pushed or after the interlock switch was activated.
- You must not defeat the **bridge raising** interlocks or the operator drawer interlocks that disconnect the elevator. Other interlock switches may only be defeated while taking appropriate precautions. Do so only when no alternative service option is possible.
- The emergency pushbuttons will disconnect the power from the mechanical hazards even when the interlocks are defeated



WARNING! Due to the possibility of unexpected hazardous movements of the cassette when activation or deactivation of the interlock defeaters is done, be sure to pull out the service box from its place before interlock defeat and replace it back only after defeat is cancelled!

- The MCU emergency pushbuttons shut down the MCU movements only, the Lotem 800 is not shut off.
- The yellow pushbutton located below the Lotem front upper cover will act as an Emergency Switch for the MCU (but not so for the Lotem - The drum takes few minutes to stop rotating).
- If the bridge cover is taken off, both the MCU movements and the Lotem 800 Plate loading system (not the drum) movements are shut off.

Interlock Functions and Locations

Interlock Location	Interlock Function	Number of interlock and defeater Switches	Serviceman only Defeat Allowances
Fig. 4- Both bridge Sides	Disconnect cassette and elevator	2	Yes
Fig. 8 -Lotem Front Panel	Disconnect cassette, elevator and Lotem loading mechanism	2	Yes
Fig. 10 Left User Door Switch Operator Drawer	Disconnect elevator	2	No
Fig. 7 - Bridge - Tunnel Home Position	Disconnect cassette and elevator	1	No

DANGER! Never leave the MCU while an interlock switch is defeated!

Note: Check the Front Lotem panel for ‘Tunnel Cover Open Detector” on each Lotem 18preventive maintenance.

Checking the Lift Motor Contactor

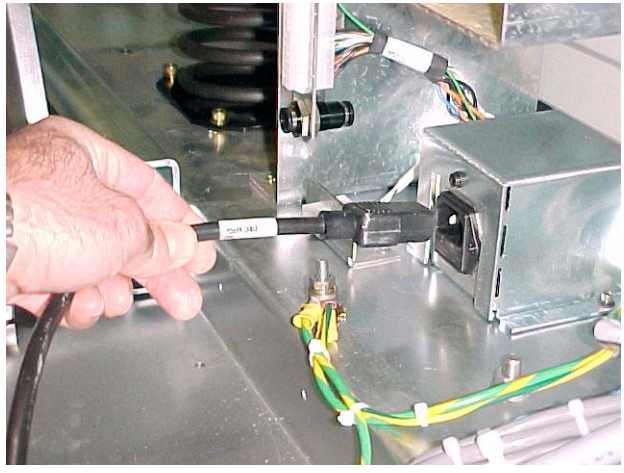
Prior to any MCU service activity, which requires the opening of machine covers or service doors, perform the following procedure to verify whether the main lift motor contactor fails to disconnect.

1. Turn off the 24V switch.



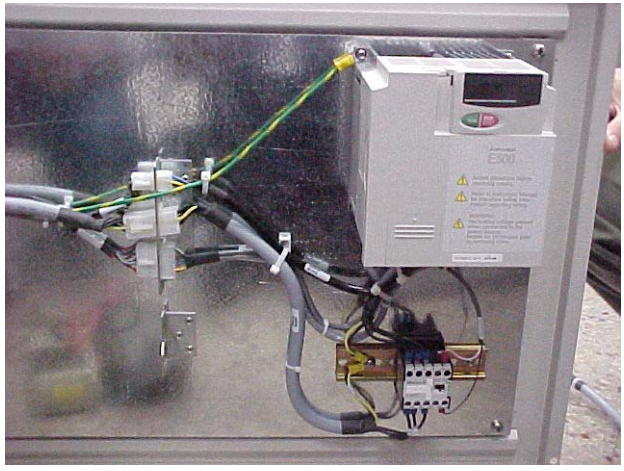
24V switch Off

2. Open the service door (located under the bridge) and disconnect the MCU from the main power. This will cut the main power and prevent the motor from moving.



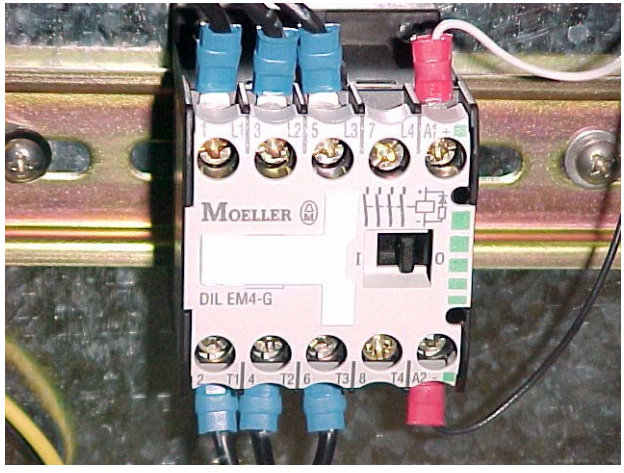
Disconnect MCU from power

3. Locate the motor contactor on the service door under the motor driver.



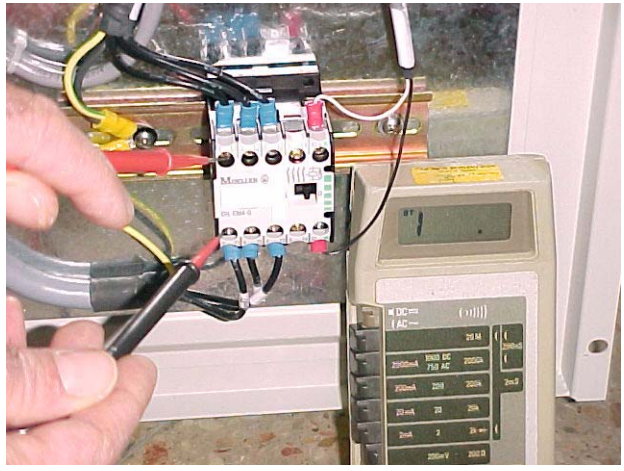
Motor contactor

4. Check that the contactor indicator is set to "O" (zero) state, as shown in the picture. Contactor state is not active.



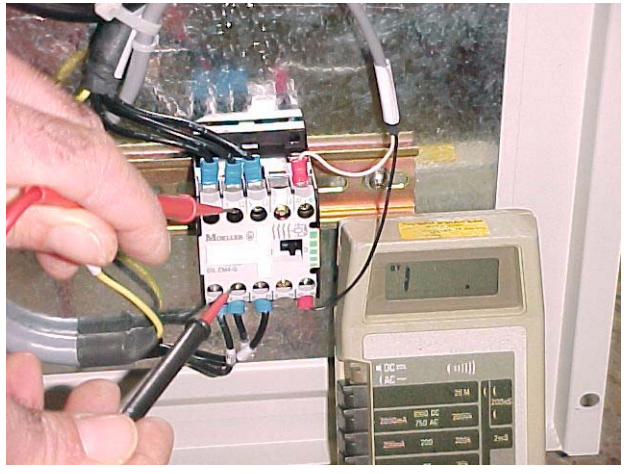
Motor contactor at zero state

5. Connect the DVM (set to resistance measurement) to the contactor points, L1- T1. The DVM should indicate infinite resistance, signifying that the contactor is in the OFF state.

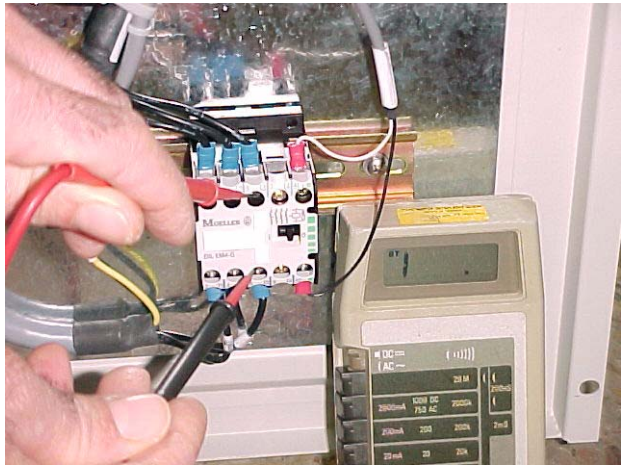


L1-T1

6. Repeat step 5 for L2 - T2, and L3 - T3.



L2-T2



L3-T3

If all three measurements show infinite resistance, the contactor is properly switched to its OFF state, indicating that the contacts are not short melted.

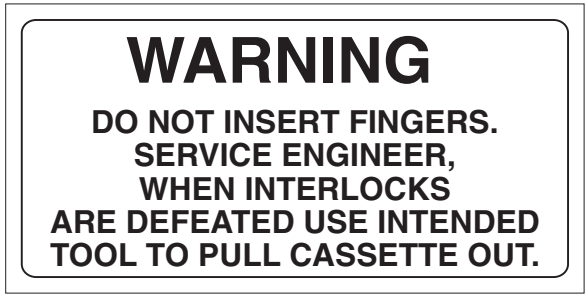
If one of the measurements does not indicate infinity, the contactor is defective and must be replaced immediately. Do not perform any service activity at this time, replace the contactor first and perform the above procedure again to verify that the it is properly functioning.

Warning Labels

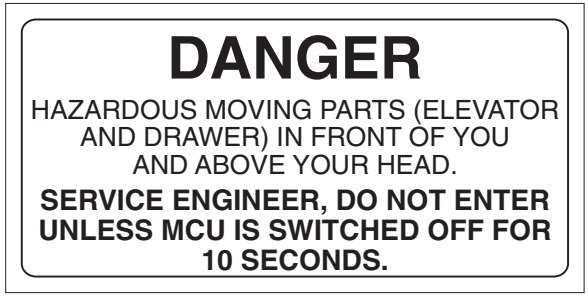
The following pages show the warning labels, and their locations.

When a language other than English is spoken, the service engineer must stick the translated labels (attached to the MCU), in the designated locations. Translated labels have the letter ‘K’ in their catalog numbers.

NOTE: The catalog numbers for English labels contain the letter A; all other languages contain the letter K instead. For example, cat. no. 374A8L697 is the English label; cat. no. 374K8L697 is for all other languages. The following labels show the English catalog numbers.
Some labels have the same text but the label shape or size is different. Therefore these labels have different catalog numbers.



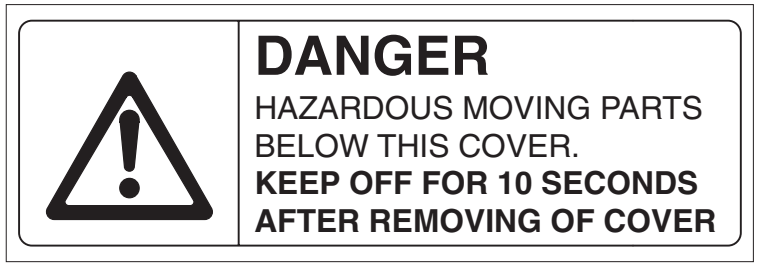
K6B617



K6B618



K6B853



K6B854



K6B883



374A7B951 (374A30170)



374A00011



374A6A985

See the following figures for locations of warning labels. Make sure that all warning labels are in good order; renew warning labels if needed.



Figure 2. MCU and Lotem 800 - front view

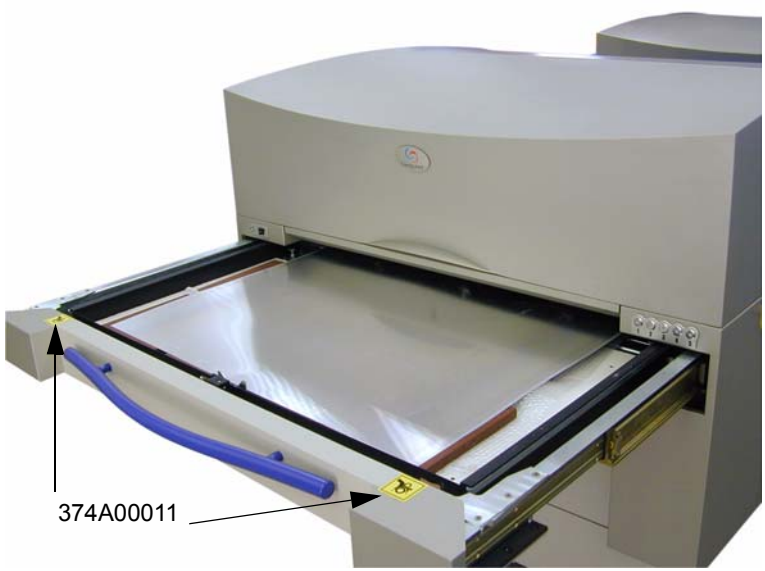


Figure 3. MCU front view, drawer out

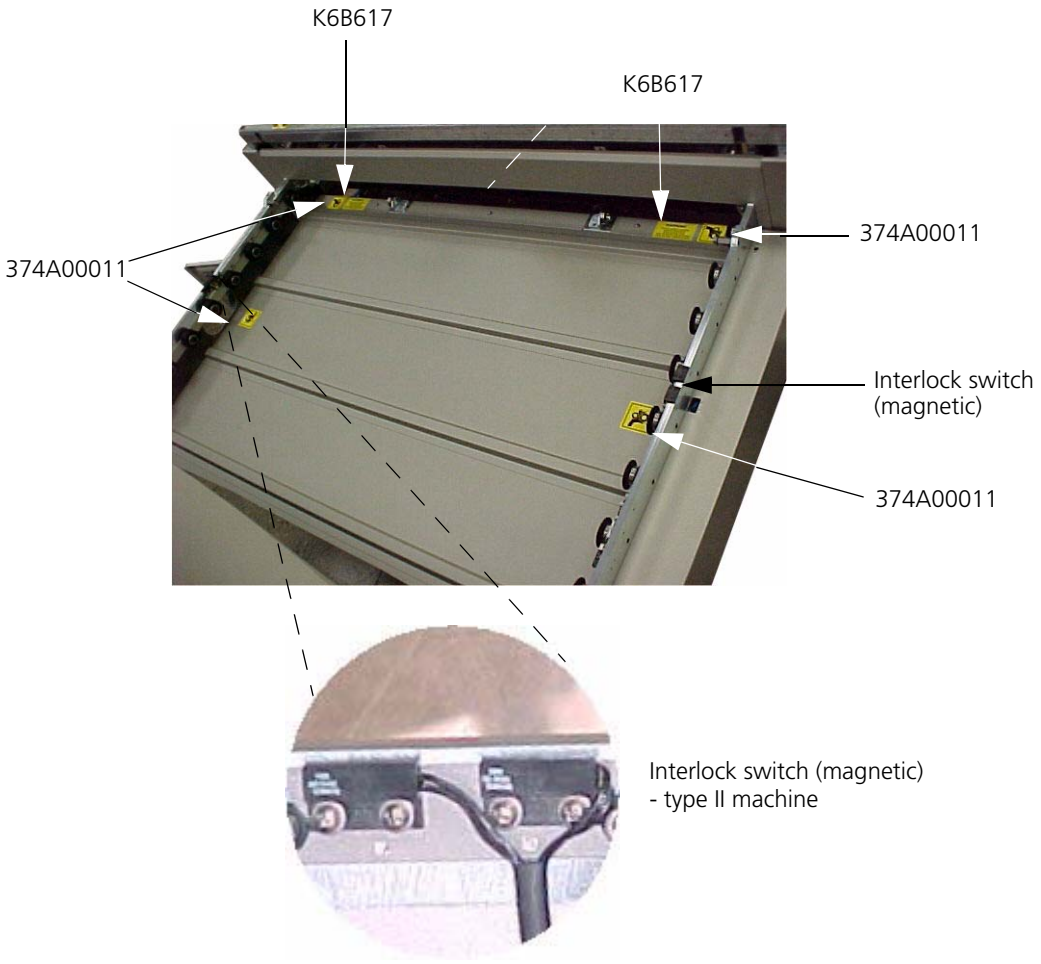


Figure 4. Bridge without cover

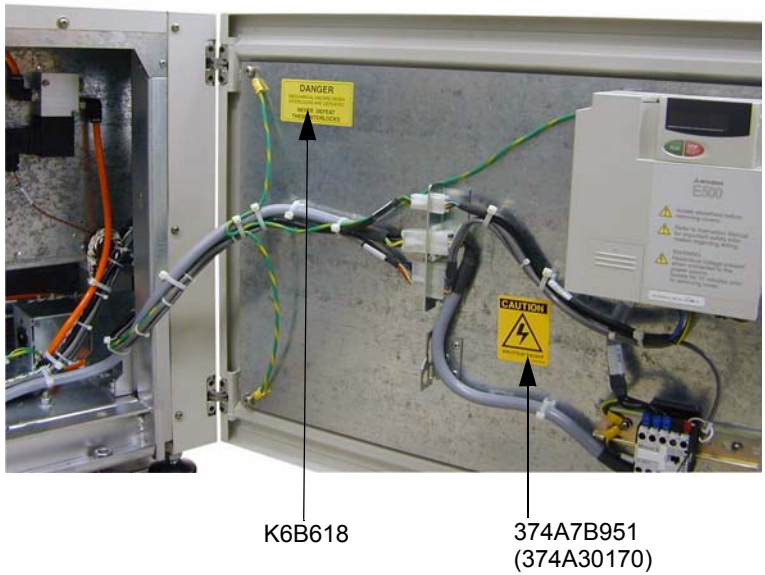


Figure 5. Underneath Bridge, right door open



Figure 6. Underneath Bridge, left door open



Figure 7. Platesetter rear view, bridge elevated- support part in use

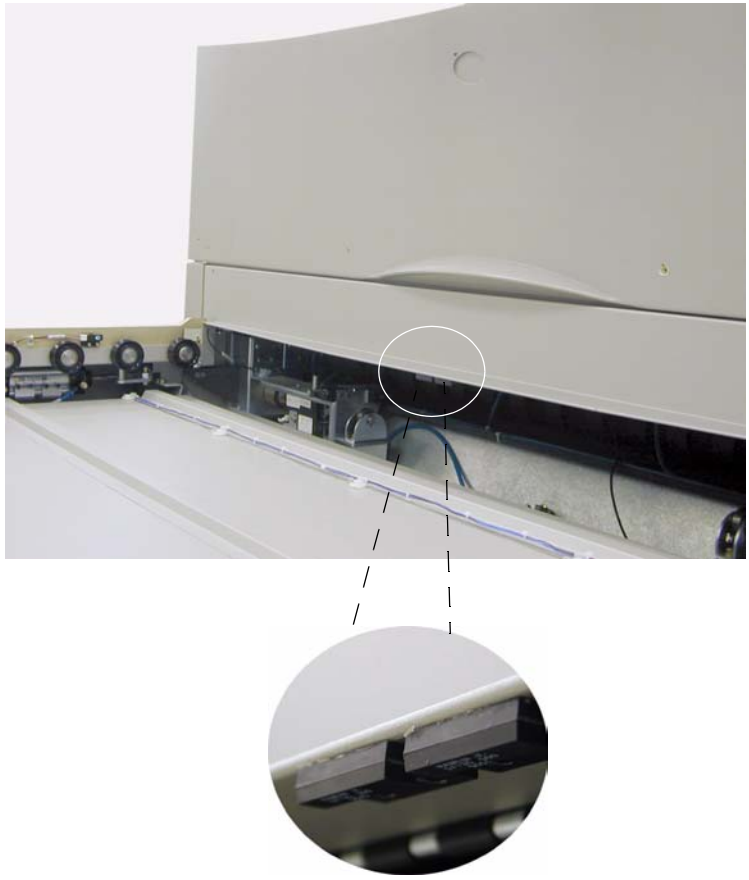


Figure 8. Platesetter front view - interlock switches



Figure 9. MCU rear view, lower panel removed



Figure 10. Interlock switches, left user door



Figure 11. Service control box



Chapter 2

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Overview

This chapter describes the physical installation of the Lotem 800 with MCU.

It details the following steps which are required to prepare the MCU for operation:

1. Unpacking the MCU.
2. Preparing the Lotem 800.
3. Preparing the MCU.
4. Connecting the MCU to the Lotem 800.
5. Software Kit and Software Loading.

Prerequisites for Lotem 800 FH and Lotem 800 Quantum connection to the MCU are as follows:

1. NUC Comp level P (to ensure Com 6 functionality)
2. Lotem Application version:
   for Lotem 800 FH: 3.20.01
   for Lotem 800 Quantum: 3.50.05
3. Brisque software
   for Lotem 800 FH and for Lotem 800 Quantum: 4.097_17 and up.
4. Windows Operating System, version 2.0
5. MCF Board Comp level P and up (to overcome drum runaway)
6. MCU Control Board Comp level L (for full control on MCU cassette buttons panel)

Unpacking the MCU

The MCU package contains the MCU and a separate box with the tunnel.

A minimum of 2 people and a fork lift are required to disassemble the package and remove the MCU from the shipping pallet.

See *Figure 1. Unpacking the MCU on page 28*.

To remove the MCU from its packaging:

1. Carefully cut the 2 steel bands [1] surrounding the outer carton.
2. Remove the staples that secure the outer carton [2] to the shipping pallet [7] and to the wooden support struts [5].
3. Remove the outer carton and place on the 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 on the side.
6. Remove the wooden bridge that surrounds the MCU.
7. Disassemble the four (4) 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 the MCU corners of 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. Tighten the nut by each leg by turning it counter-clockwise until the wheels touch the floor.
13. Roll the MCU to the final location.

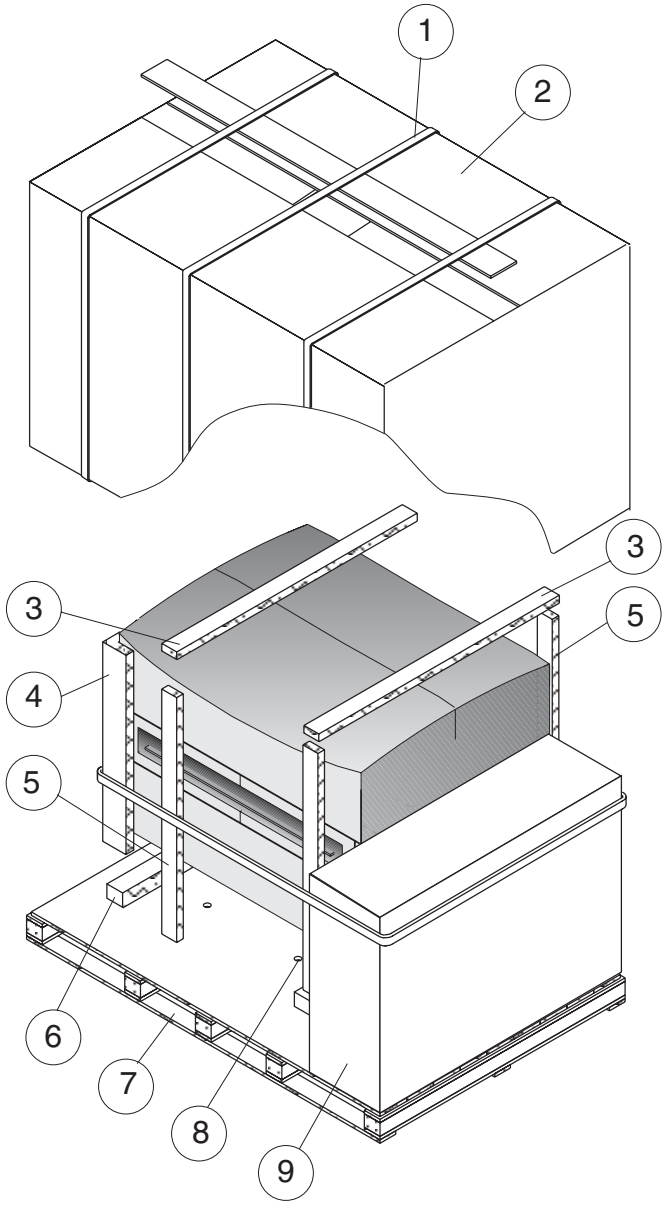


Figure 1. Unpacking the MCU

Preparing the Lotem 800 for Connection to the MCU

To prepare the Lotem 800, you will need to use Interface 510K1P530 for MCU (507G3E243), and Interface 510K1R541 for MCU with the (507G3E908), which can be found in the MCU packaging.

Required Tools:

- Set of Allen keys
- 7/16 inch Open Wrench
- Air / electric drill
- 5.2 and 7 mm drills
- Leveling instrument
- Vacuum cleaner
- Loctite 242
- Drill conductor - vertical (292B6A829)
- Drill conducted - horizontal (291B6A830)
- Jig centering Lotem (507E3E656)
- Jig leveling Lotem and Bridge MCU (507F3E657)
- MCU Drilling Jig - left (295B7B606)
- MCU Drilling Jig - right (295B7B605)

Installing Lotem 800 MCU Kit Interface

To Install the Interface 510K1P530 or 510K1R541 Kit:

1. Open the upper front, right and left side doors.
2. Switch off the Lotem 800 power and air pressure.
3. Remove the plastic and metal panels above the paper disposal doors on both sides of the machine.
4. Remove the panel of the cassette entrance.
5. remove the lower front panel.
6. Detach the wiring harness from the machine frame. Make sure not to disconnect it (see *Figure 2. on page 30*).

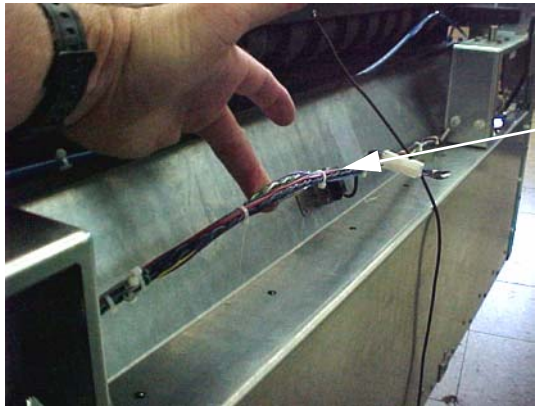


Figure 2. Front wiring harness

Local 3 board and Quantum machines do not need to perform step 7.

7. Drilling holes for the interface (Local 2 and Local 3):

Remove the L-Box from the Lotem and disconnect the L-box grounding cable to prevent diode failure.

- Disconnect the X shaft (Loading system) and the RHS Bar assy (safety switch bar) behind the X shaft.
- Place a protective cover (paper or nylon) on the Lotem Paper Disposal system as well as the area you will drill.
- Disconnect the right and left front door solenoid connectors. Remove the plugs from the frame.
- Place drilling jig (cat no. 291B6A830) to the right side locking pin and drill two 7 mm holes on the marked area on the jig (see *Figure 4. on page 32*).
- Repeat the step on the left side, using the same jig (see *Figure 4. on page 32*). Before placing the drilling jig, ensure that the paper door connector so it will not disturb jig placement.
- Place drilling jig (catalog no. 291B6A829) on the right front frame of the Lotem and drill two 7 mm holes in the marked area of the jig (see *Figure 4. on page 32*).
- Repeat the previous step on the left side.

- Reconnect the front door solenoid cables to the frame. Connect the soelnoid plugs that were disconnected earlier.
- Assemble the X shaft and the RHS bar that was disconnected earlier.

8. Install Plate Front Support Assembly.

A new front plate support with an inner air flow system must be installed when using Kit # 510K1R541 in all Lotem types.



In the new machines, it is not necessary to drill holes, as they will be already integrated.

9. Adjust the Lotem 800:
   - Place the Jig adjusting Lotem (507F3E657) on top of the right and left paper disposal bases. Make sure the stoppers on the jig are on the top of the Interface bearings. If there is more space, put it under bearing spacer (290A6A861).
   - With the same jig, check the Lotem leveling with the level. Level the Lotem by either raising the Lotem's legs or bringing them down, accordingly. Verify that the Lotem is the correct height (H = 100 cm from the paper clamp operator bar to the floor) and leveled on both axes (front/rear and left/right).
   - Remove the new cassette Front assembly (that was inserted on page 31).
   - Operate the Lotem Centering System until you can insert the jig centering (507E3E656). Make sure the stoppers on the jig touch the tray cenetering guides. If they don not touch, then either remove or add the spacers (280A2T033), accordingly.

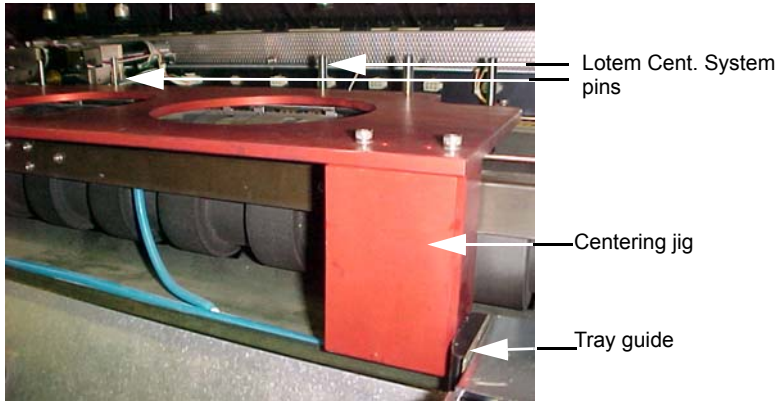


Figure 3. Centering jig

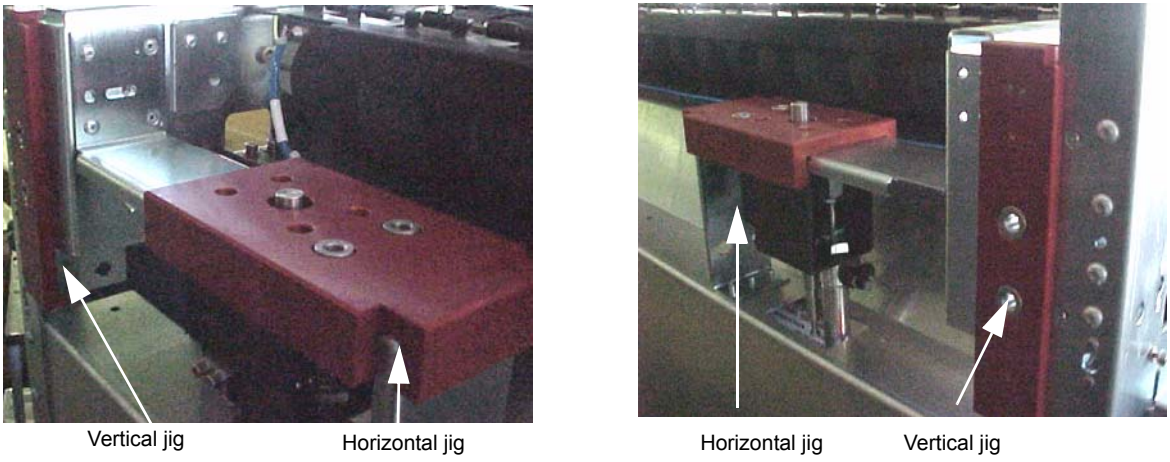


Figure 4. Lotem Left side main frame; Lotem right side main frame

10. Remove the right and left cassette locking pins.
11. Assemble the interface 507F3E332 on the frame using:

- 9 x 1/4 - 20 x 5/8 screws 380A09081
- 9 x 1/4 spring washers 382D17000
- 9 x flat washers 381A06000
- 9 x 1/4 nuts 381A06000
- Loctite 242

For Lotem 850 Quantum, the base of interface is built in. Assemble the following support assemblies according to *Figure 5. on page 33* and *Figure 6. on page 33*.

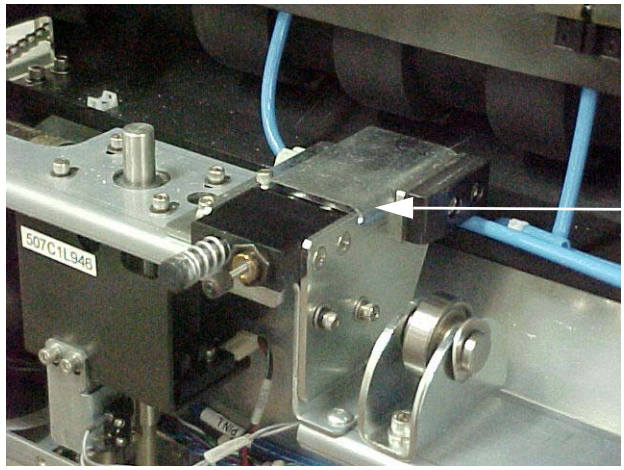


Figure 5. Tray left support assy

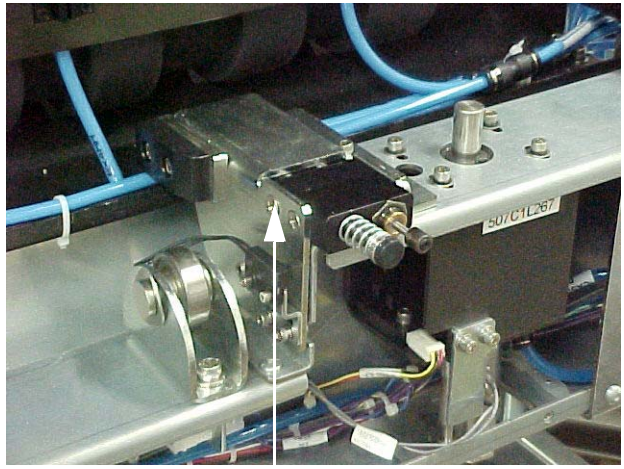


Figure 6. Tray right support assy

12. Install the new right (507C3E723A) and left (507C3E724A) cassette locking pins (see *Figure 14. on page 39* and *Figure 15. on page 39*).

    Make sure the locking pins stick out 26 mm. Check that the Home Position detector is reconnected.

13. Connect the jumper with 2 pins (504L3E323) to the machine harness that was disconnected from the right cassette pin.
14. **When installing Kit 510K1P530 Only**: Connect the extension cable (504L3E324) to the machine harness that was disconnected from the left cassette pin (see *Figure 7. on page 34*).
15. Disconnecting the Cassette In switch:
    - If a mechanical switch is installed, disconnect the female terminal and attach adapter 504N2D635 so that the color wires are identical to it and connect the jumper with 4 pins 504L3E730 (see *Figure 7. on page 34*).
    - If a magnetic switch is installed, disconnect the connector and connect the jumper with 4 pins 504L3E730.
16. Remove the Cassette In switch interlock assembly (include the bracket), regardless if it is mechanical or magnetic.
17. Remove the right and left cassette centering adapters/guides. Disconnect the touch memory connector.



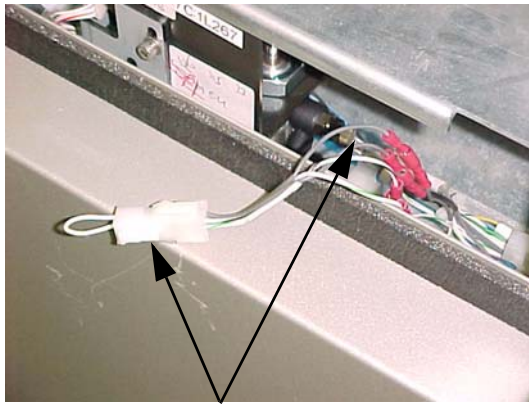
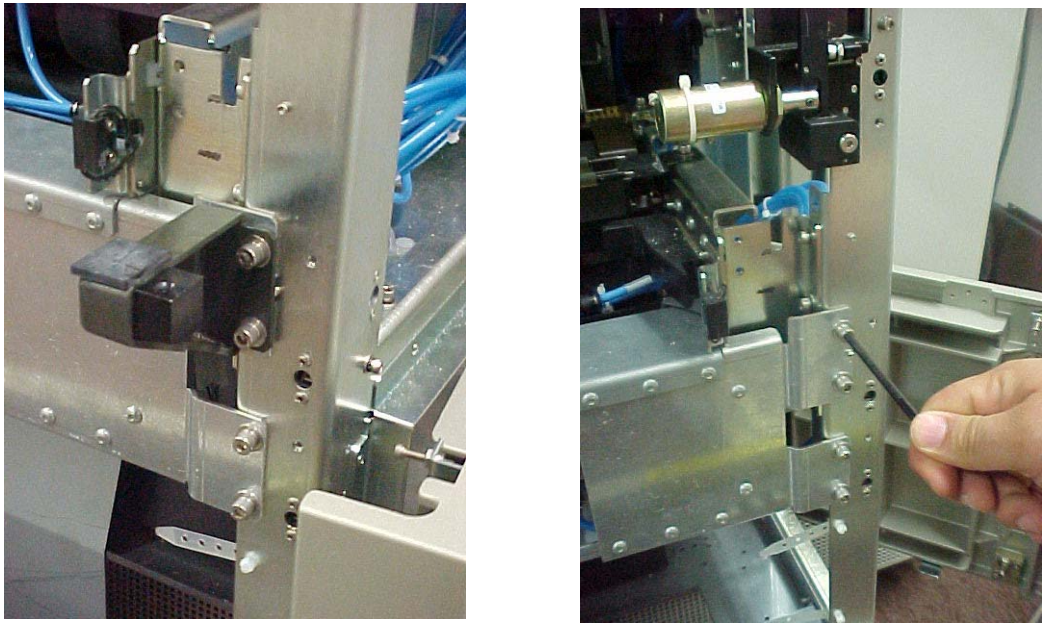


Figure 7. New adaptor to Lotem harness

18. On the right panel, assemble the bridge support (507A3E485) in the existing holes (step 7 on page 30), using: (see *Figure 15. on page 39*).

    - 2 x 1/4 - 20 x 5/8 screws 380A09081
    - 2 x 1/4 spring washers 382D17000
    - 2 x flat washers 381A09000
    - Loctite 242

For **Lotem 850 Quantum**, disconnect the two upper screws and use them to attach the Lotem 850 support bridges, see *Figure 8. on page 35*.



left support assy (507A3E585) **right support assy (5073E586)**

Figure 8. Lotem 850 Quantum bridge support assemblies

19. Install the plate front support assembly:

    - Disconnect and remove the two **outer** air nozzles and hoses in order to install the plate front support assy. Do not disconnect the two **upper** air nozzles and hoses.
    - Remove the hose from the Y air tube.

- Remove the plate front support from the Lotem by removing the 6 screws and dissasemble the paper detector.
- Mount the drilling jigs (294B7B605, 295B7B606) instead of the plate front support with the 6 screws.



Figure 9. Drilling jig



Figure 10. Right drilling jig

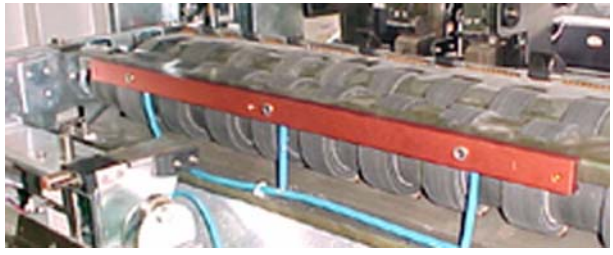


Figure 11. Left drilling jig

- Drill 5 holes, using a 5.2 mm driller. The holes in the jig indicate where you should drill.
- Remove the jigs (294B7B605, 295B7B606).
- Assemble the pressure line ,299A7B223, (part of the new plate support) on the new holes drilled in step 5. Tighten the nozzles with Loctite 242.

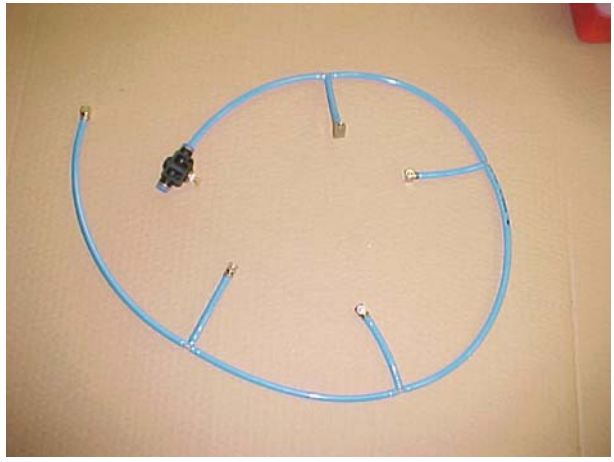


Figure 12. Air pressure manifold

- Route the air pressure line with the regulator to the right side.
- Remove the Y air tube.
- Connect the air flow regulator to the hose by using the piece of hose previously removed.

Check the direction of the air flow regulator. The air flow regulator must be installed in the correct direction - according to the arrow printed on the regulator.

- Tie the hose pressure to the paper disposal guide so it will not touch the roller.
- Assemble the paper detector on the front plate support assembly. Use the loctite to secure the bolts..

Important: Make sure that the hoses do not touch the paper rollers.

- Assemble the front plate support assembly (507F3E868), which contains 2 rows of 27 rollers, using the six new screws (380G0141) with loctite 242.

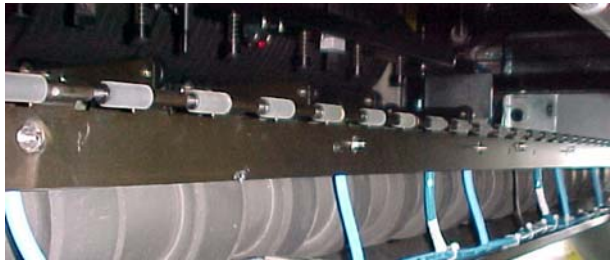


Figure 13. Plate front support assembly

- Adjust the intensity of the air blown into the cassette by using the flow rate regulator. If the air stream blows the paper between the plates, reduce the airflow.
- When drilling is complete, remove the protective cover from the paper disposal area.
- Vacuum the debris.

20. On the left side panel, assemble the bridge support (507A3E484) in the existing holes (step 7 on page 30), using: (see *Figure 14. on page 39*).

- 2 x 1/4 - 20 x 5/8 screws 380A09081
- 2 x 1/4 spring washers 382D17000
- 2 x flat washers 381A09000
- Loctite 242

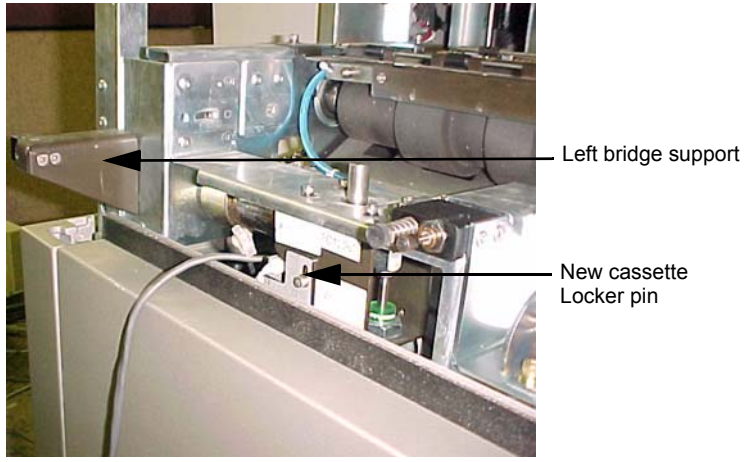


Figure 14. Left cassette locker pin

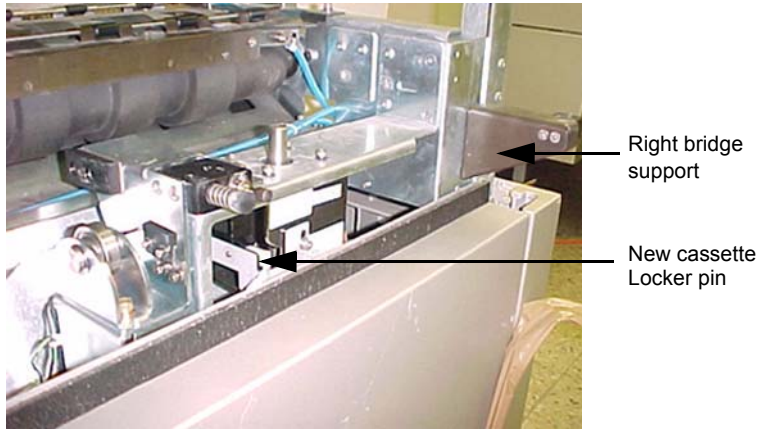


Figure 15. Right cassette locker pin

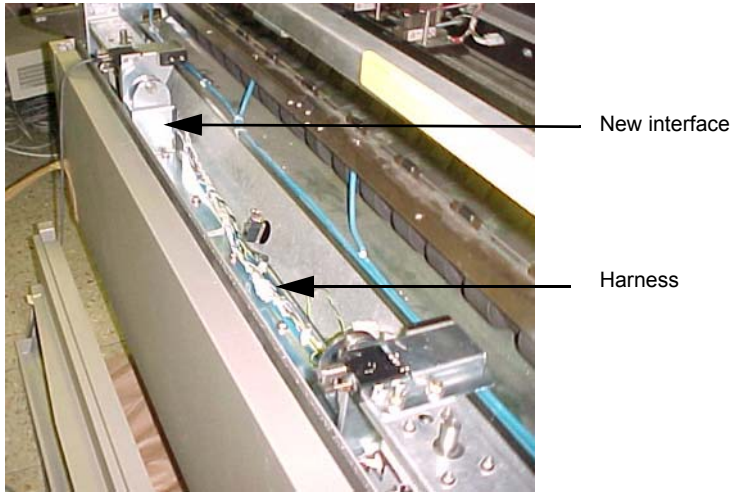


Figure 16. MCU interface

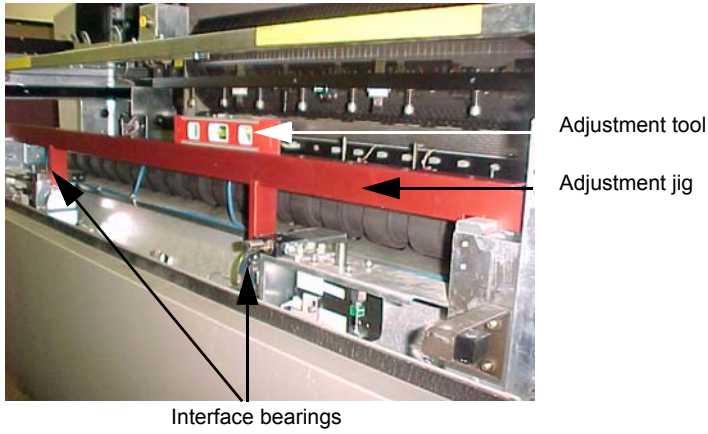


Figure 17. Leveling jig

21. Connect the Cassette In cable (504N3E729) to the new cassette locker pins according to the labels on the connectors.

22. Attach the harness that was disconnected in step 6 (page 29) on the new interface using the cable clamps.

23. Route the Cassette In cable to the L-Box area, from there, inside the Lotem to the other side to the E-Box area and take the cable out of the Lotem through the hole on the floor to the MCU area.

Make sure that the harness routing will not interfere when inserting the cassette. Cut and remove all the white tie wraps that are connected to the blue pipes.

Wiring Local 2 Machines

1. Remove the Lotem lower rear panel.
2. Disconnect the J6 cable from the Distribution box.
3. Connect the adaptor for Loader 800 local 2 cable (504N3E320) so that one end of the Y intersection is attached to the J6 cable that was disconnected in step 2 and the other end of the Y intersection is connected to the P6 plug on the Distribution box (see *Figure 18. on page 41*).



Figure 18. New adaptor cable connection, dist. side

4. Route the adaptor cable attached to the Lotem main harness towards the exit near the E-box area. Pull it out towards the MCU, except the part that connects to the E-Box. Make sure the new harness does not touch the vacuum pump.

5. Disconnect the DC OUT cable from the E-Box. Connect one end to the Y intersection on the new adaptor cable. Connect the other end of the Y connect to the E-Box (see *Figure 19. on page 42*).

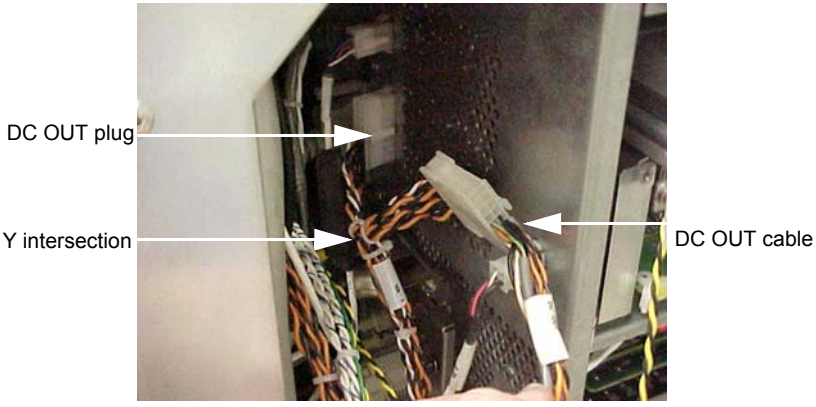


Figure 19. New adaptor cable; E-box side

6. Disconnect the cassette valve plug from the Lotem Air Pressure manifold. Connect the new plug with black/yellow wires. These wires are part of the adaptor for Loader 800 (see *Figure 20. on page 42*).

7. Route the cable out of the main frame under the black light cover and tie it to the main harness.

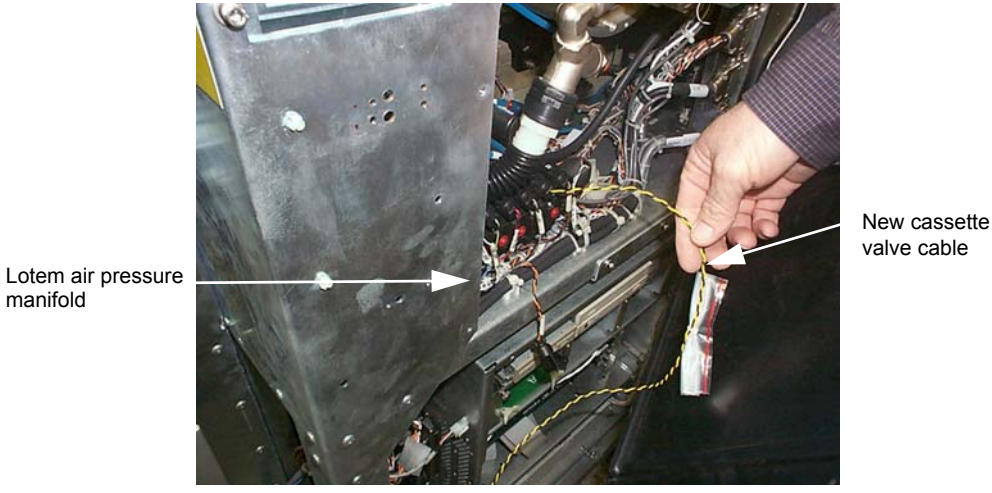


Figure 20. New cassette valve cable

8. Connect the RS-232 cable (504L3E325) to the CPU board and pull the cable towards the hole on the Lotem floor and to the MCU (see *Figure 21. on page 43*).
9. Connect the MCU power cable (504L3D483) to the free plug in the lower part of the E-box. Pull the cable towards the hole on the Lotem floor to the MCU (see *Figure 21. on page 43*).
10. Assemble the Lotem lower rear panel that was removed in step 1.
11. Assemble the L-Box which was removed in step 7 in *Section Installing Lotem 800 MCU Kit Interface on page 29*).

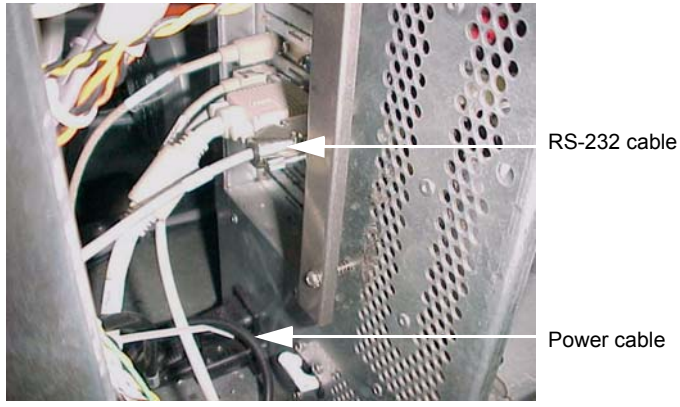


Figure 21. RS 232 cable connected to E-box

Wiring Local 3 Machines

1. Remove the Input Unit cable from behind the E-box.
2. Attach the two cassette valve connection cable pins (504L3E321) to the Input Unit connector so that the yellow is attached to pin 7 and the black is connected to pin 19.
3. Route the cable out of the main frame under the black light cover and tie it to the main harness.

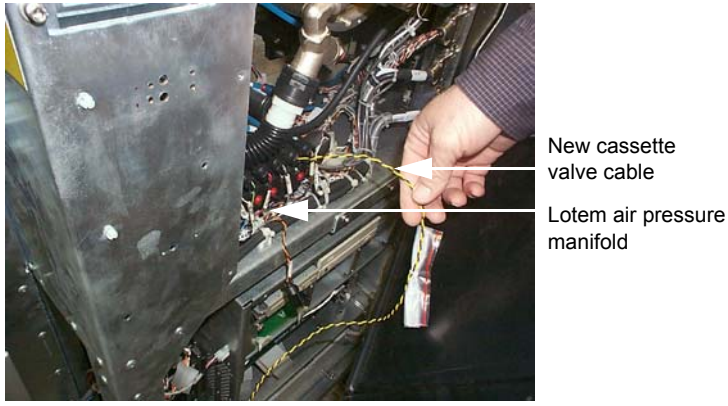


Figure 22. New cassette valve cable

4. Connect the RS-232 cable (504L32E322) to the NUC board in the Lotem E-Box instead of the existing cable and route it into the hole on the floor and to the MCU.

5. Connect the MCU power cable no. 504L3D483 to the free plug in the lower part of the E-Box. Route the cable towards the Lotem floor and to the MCU.

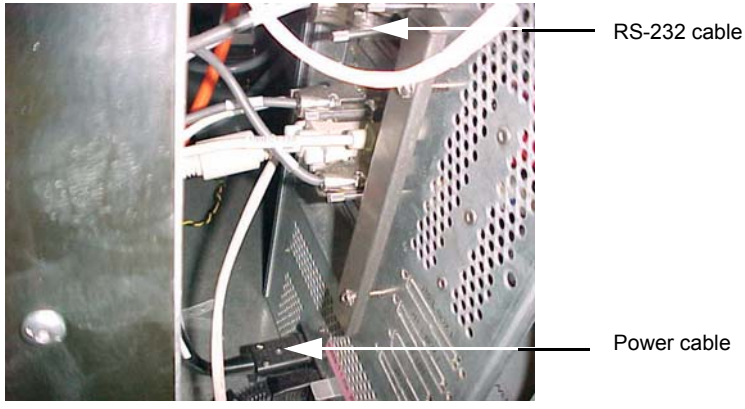


Figure 23. Power cable connected to E-box

Wiring Lotem 800 Quantum Machines

1. Remove the Input Unit cable from behind the E-box (the cable contains the RS 232 cable).



In the new Lotem 800 Quantum machines, the RS 232 cable is not attached to the E-box, you must take it from the accessory kit. *See "Wiring Local 3 Machines" on page 43.*

2. Route the cassette valve connection cable from the input cable and connect it to the cassette pin valve.
3. Route the cable out of the main frame under the black light cover and tie it to the main harness.
4. Connect the MCU power cable no. 504L3D483 to the free plug in the lower part of the E-Box. Pull the cable towards the Lotem floor and to the MCU.

Preparing the MCU for Attachment to the Lotem 800

Preparation of the MCU should be performed after removing it from its packaging and lowering it onto its wheels.

Required Tools:

- Set of Allen Keys
- Phillips Screwdriver

To prepare the MCU, perform the following:

1. From both sides of the MCU, remove the side panels.
2. Remove the upper front door.
3. Remove the upper rear door.
4. Remove all locking screws from the cassette lockers (see *Figure 25. on page 47* and *Figure 26. on page 48*).
5. Manually lift up the elevator by spinning the motor clockwise.

6. Remove the four (4) lower support beams that firmly fix the elevator to the MCU floor (see *Figure 24. on page 47*).



Figure 24. Elevator locker

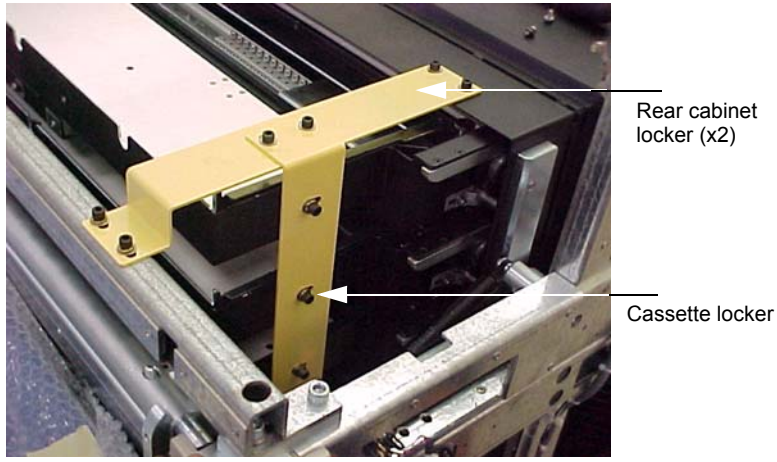


Figure 25. Rear Cassette locker

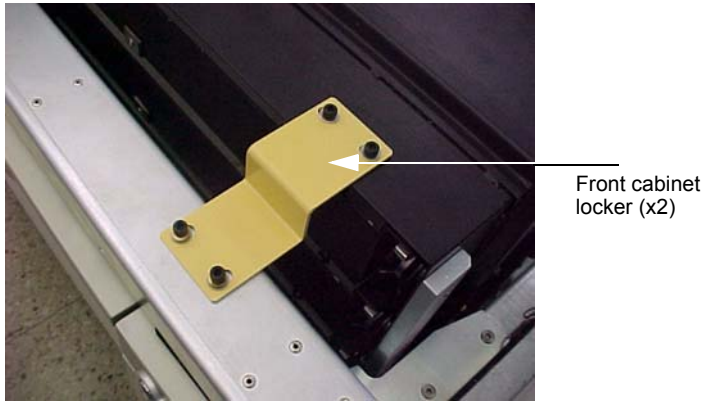


Figure 26. Front cassette locker

Assembling the MCU for Lotem 800 Type I Tunnel

1. Turn the tunnel shaft so that the locking pins are perpendicular (see *Figure 27. on page 49*).

Two (2) people are required to perform step **10 (tunnel weight = 80 kg)**.

2. Remove the tunnel (purple) cover.
3. Remove the front tunnel cover.
4. Move the tunnel to a perpendicular position, and position it on the shaft until you hear the two (2) locking pins lock.
5. Tighten the two (2) tunnel locking screws on the shaft.
6. Connect the tunnel lowering piston by tightening them with two (2) cotter pins (see *Figure 28. on page 49*).
7. Connect the air pressure hoses between the tunnel and the MCU, according to the markings (see *Figure 28. on page 49*).
8. Attach the electric cable between the tunnel and the MCU (see *Figure 28. on page 49*).
9. Lower and lift the tunnel carefully from the horizontal to the vertical position. Verify that the tunnel, the cable and the hoses move without interference. Also verify that the interlock flag in the tunnel enters the interlock without interference.

10. Assemble the tunnel front panel.

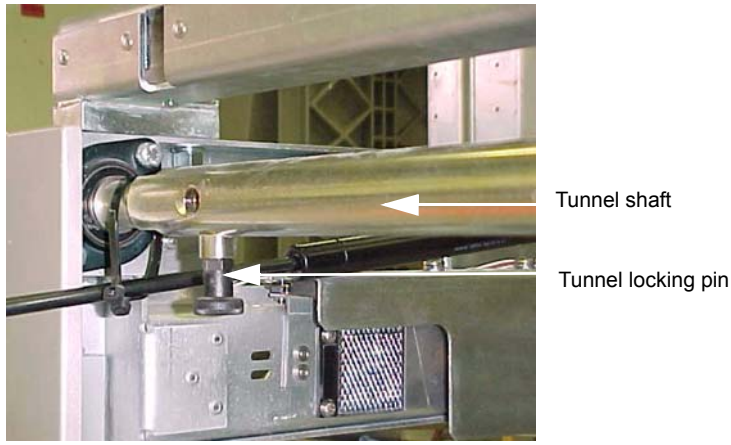


Figure 27. Tunnel shaft

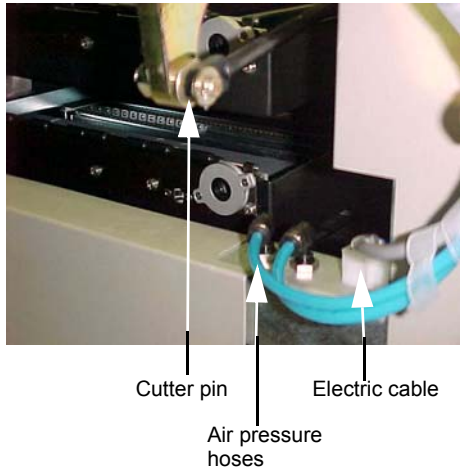


Figure 28. Bridge connection

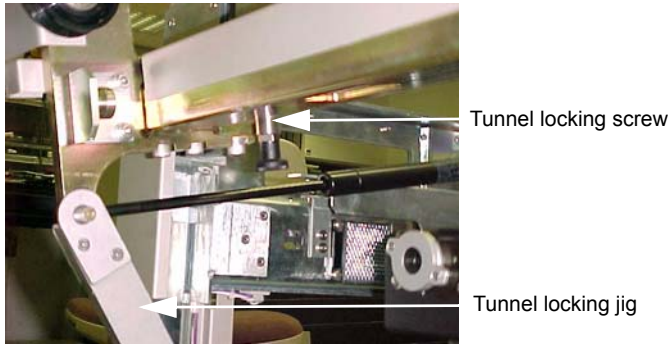


Figure 29. Tunnel jig

Assembling the MCU for Lotem 800 Type III Tunnel

1. Locate the right beam and attach it to the right side of the MCU, as follows:
   1. Fit the bottom of the beam onto the notch in the main shaft, as shown below.

Note: Support the beam in the up position with your hand.

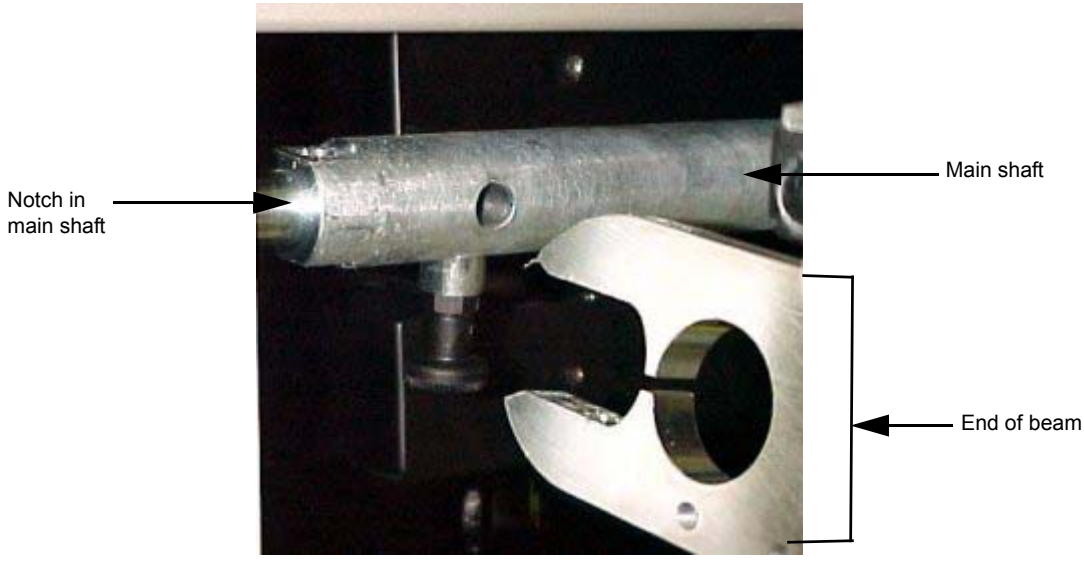


Figure 30. Main shaft

2. Place the beam piston and one washer on the pin at the end of the beam, as shown below. Then, secure it in place using a split-pin.

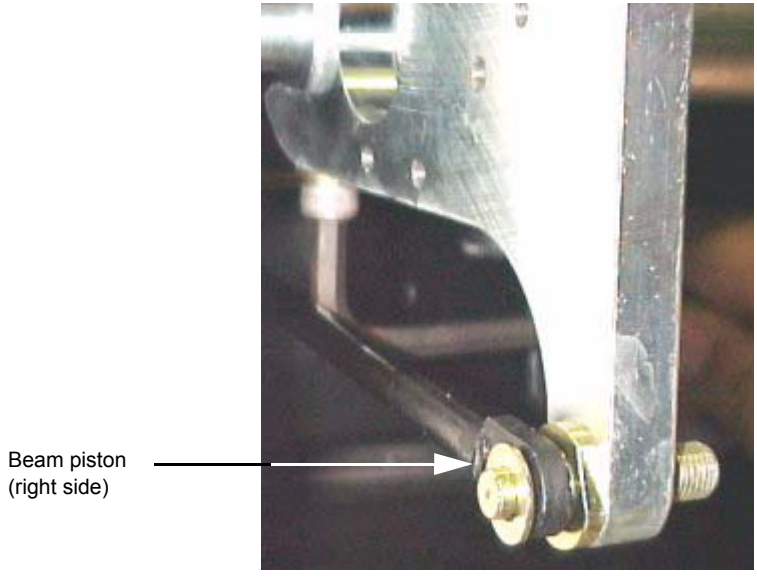


Figure 31. Beam piston

3. Secure the beam to the main shaft using an Allen screw and lock washer, as shown below. You can now release the beam.

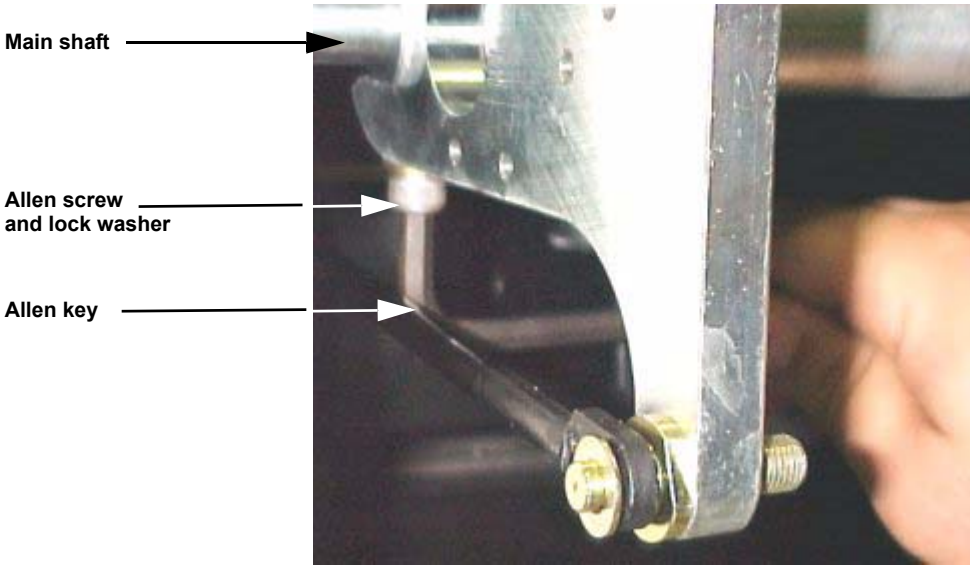


Figure 32. Securing beam to main shaft

2. Locate the left beam and attach it to the left side of the MCU by performing steps 1a, b and c.
3. Locate the two blue air tubes and connect them to the nipples on the main frame beneath the end of the left beam, as shown below.

Note: Be sure to connect the tube labeled out to the nipple labeled out, and the tube labeled in to the nipple labeled in.

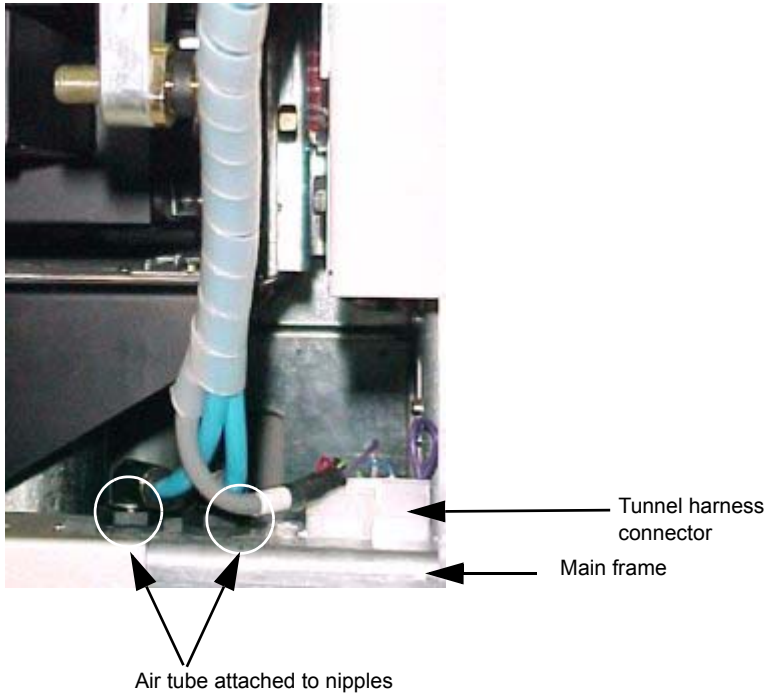


Figure 33. Tunnel harness connector

4. Connect the tunnel harness connector to the Molex connector on the left side of the main frame, as shown above.

5. Attach the center connecting beam to the MCU, as follows: Note: The center connecting beam connects the right and left beams.

    1. Position the center connecting beam as shown below, and place the leading pins in the leading-pin holes in the main shaft.

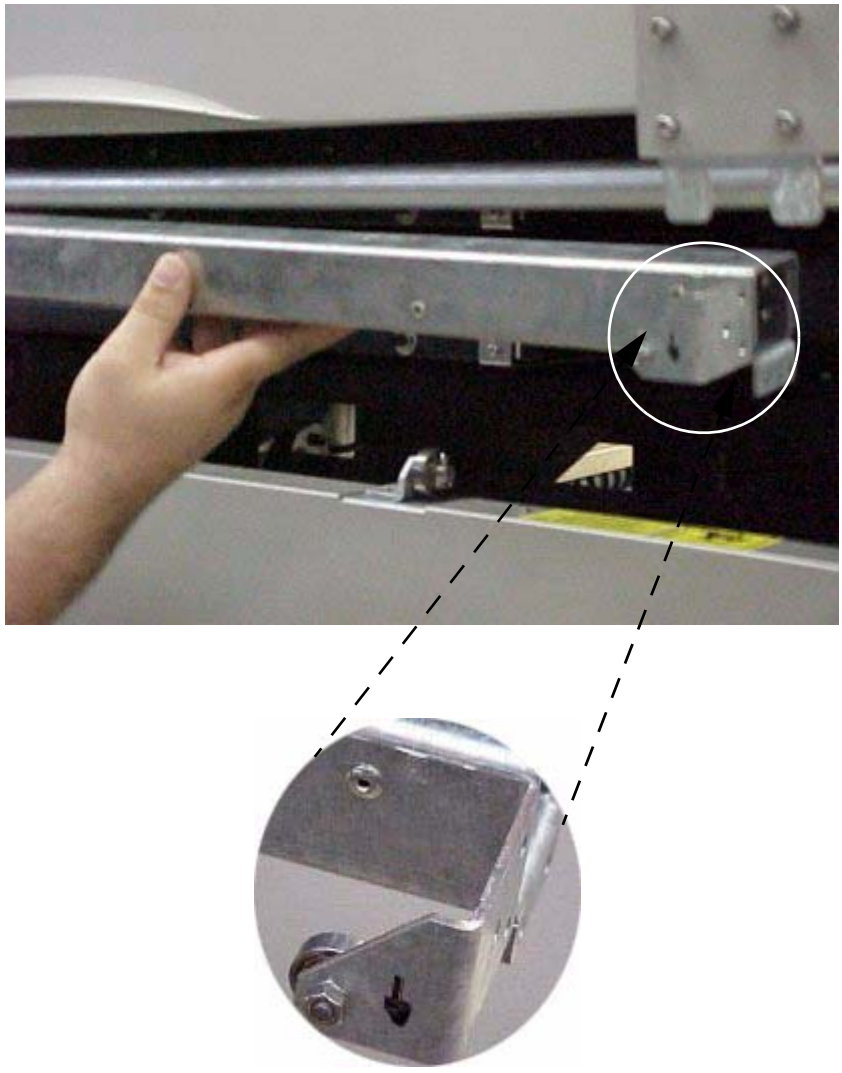


Figure 34. Center connecting beam

2. Secure the center connecting beam to the right and left beams using five 10-32*5/8" Allen screws, flat washers and spring washers on each side, as shown below.

6. Attach the center connecting beam cover to the MCU, as follows:
   1. Press the right and left beams down to the home position (HP)
   2. Place the center connecting beam cover in the MCU, as shown below.

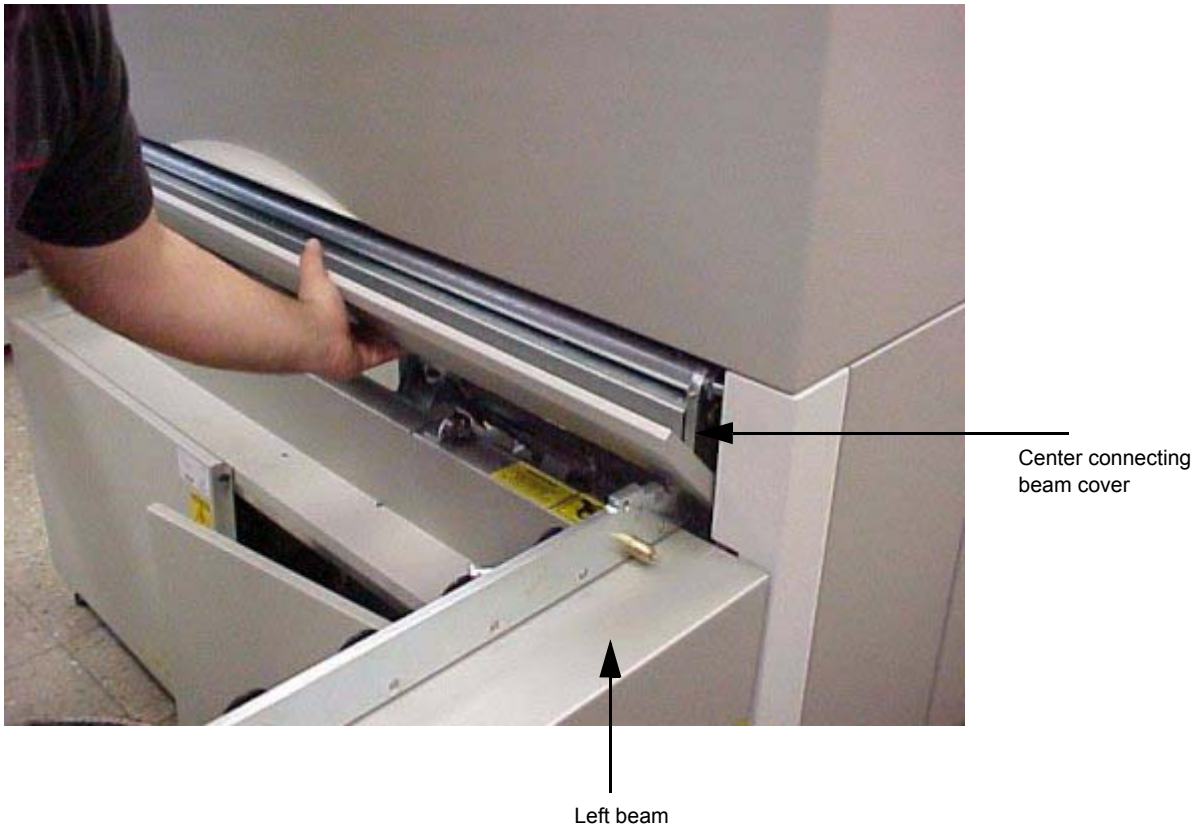


Figure 35. Center connecting beam cover

3. Push the center connecting beam cover toward the MCU until it is positioned as shown below.



Figure 36. Positioning the center beam cover

4. While holding the cover in place with one hand, use the other to raise either the right or left beam to the up position (both beams will rise)
5. Secure the beams in the up position using the support jig, as shown below.

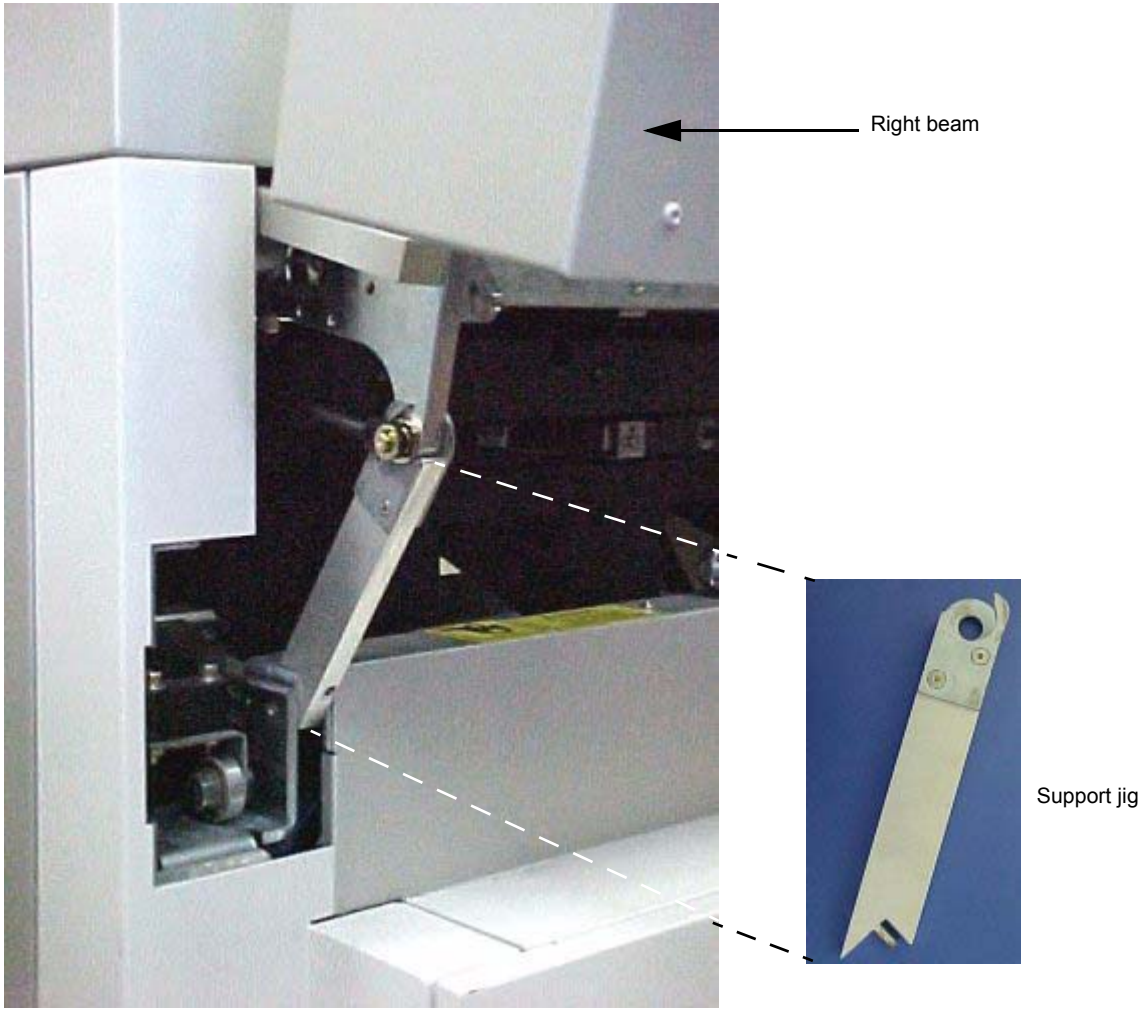


Figure 37. Support jig, MCU left front side

6. Locate the service holes in the underside of the center connecting beam (shown below), place a 10-32*7/8 nut and spring washer on the threaded stud inside each one, and tighten the nut using a ratchet screwdriver and socket (boxer).

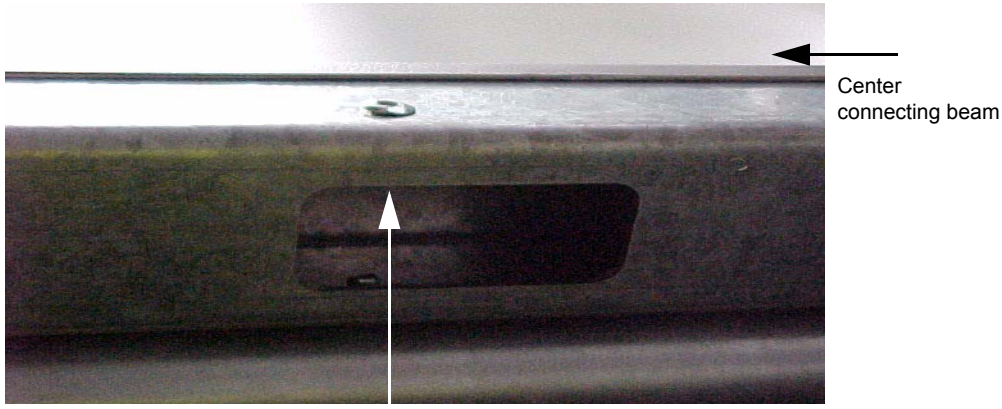


Figure 38. Center connecting beam, service hole

7. Locate the tunnel floor and secure it to the right and left beams, as follows:

    1. Hold the tunnel floor with the curved end up and the notches in the right and left sides toward you, as shown below.

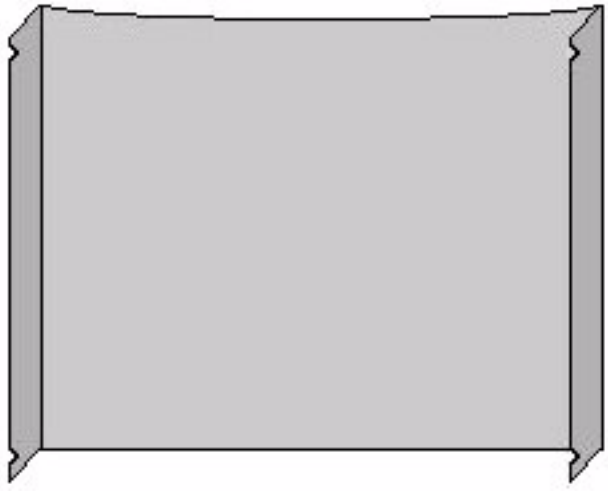


Figure 39. Tunnel floor

2. Position the tunnel floor between the MCU and the raised beams, and fit the four notches (one in each corner of the floor) over the four screws (two in each beam) by pulling the floor toward yourself.
3. Secure the floor in place by tightening the four screws.
4. Further secure the floor in place using the remaining twelve screws (six in each beam).

8. Remove the support jig and lower the tunnel to the HP.

Important Note: Ensure that the wires and air tubes at the end of the left beam do not get caught when lowering the tunnel. This can damage the air tubes and prevent the MCU from functioning properly.

9. Center the MCU relative to the Lotem.
10. Attach the tunnel cover to the MCU tunnel, as follows:
    1. Locate the left axis bracket, two Allen screws and an Allen key, and place them near the left beam. Hold the tunnel cover vertically with the axes downward, and fit the right tunnel cover axis into the right axis bracket by moving the cover to your right, as shown below.

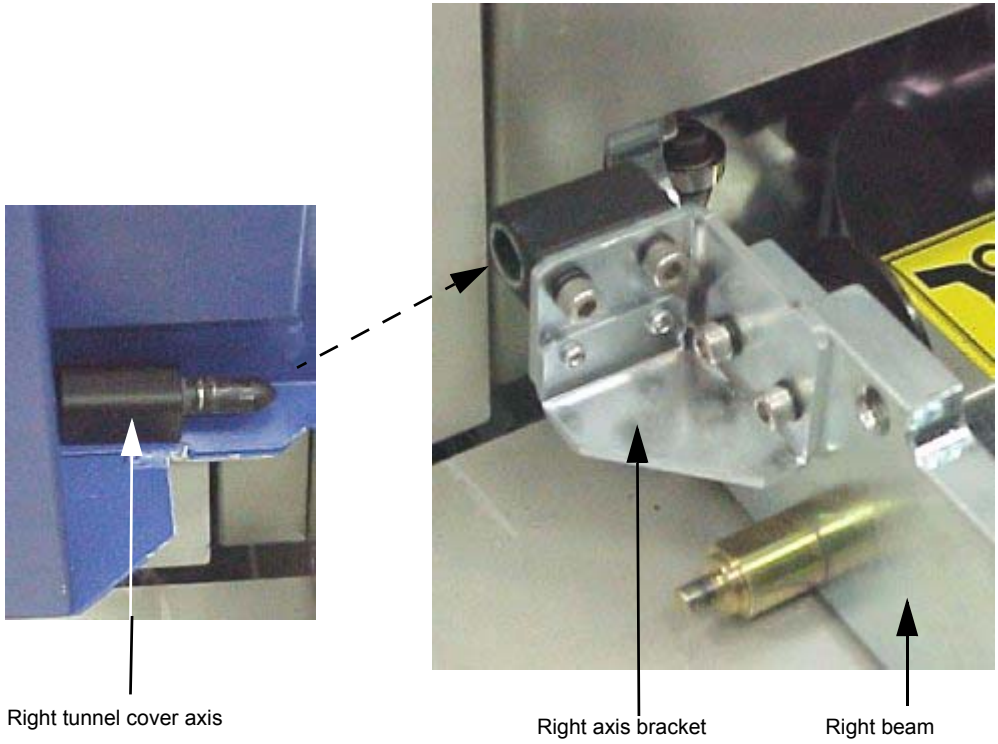


Figure 40. Right axis bracket

2. While holding the cover open, fit the left axis bracket over the left tunnel cover axis, and secure the bracket to the left beam using two Allen screws, as shown below.



Figure 41. Left axis bracket

3. Attach the left tunnel cover piston to the beam as shown below, and use a washer and split pin to secure it in place. Repeat this step for the right tunnel cover piston.



Figure 42. Left tunnel cover piston

11. Secure the tunnel to the Lotem, as described in the MCU Installation Guide.
12. Close the MCU cover, and secure it in place using the two cover securing knobs and washers, as shown below.

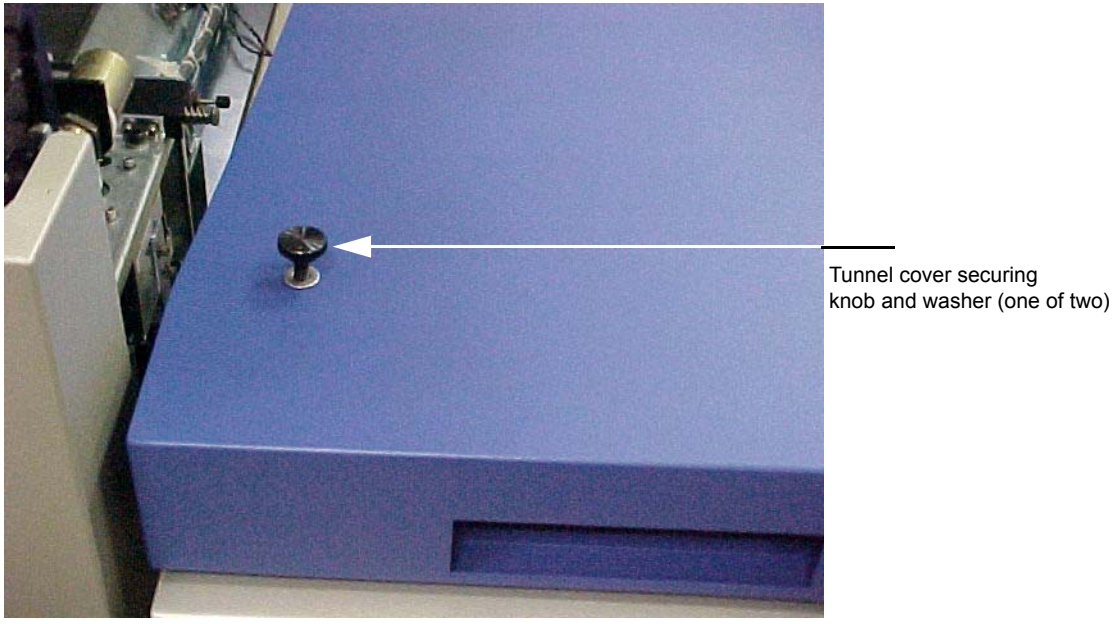


Figure 43. Tunnel cover

Connecting the MCU to the Lotem 800

Required Tools:

- 1/2 inch Open Wrench
- 7/8 inch Open Wrench
- Set of Allen Keys
- Wrench 30 (291A6B553)
- Spacer jig for the MCU Bridge (290B6B230)
- Jig for adjusting the Lotem and MCU (507F3E657)
- Leveling instrument

To connect the MCU to the Lotem 800:

1. Verify that the Lotem is the correct height (h = 10005-1010 mm from the paper clamp operator bar to the floor) and leveled on both axis (front/rear and left/right). Make sure the Lotem is resting on its legs and not on its wheels.
2. Remove the cassette entrance panel from the Lotem.
3. Place the spacer jig for the MCU bridge (290B6B230) on both sides of the Lotem.

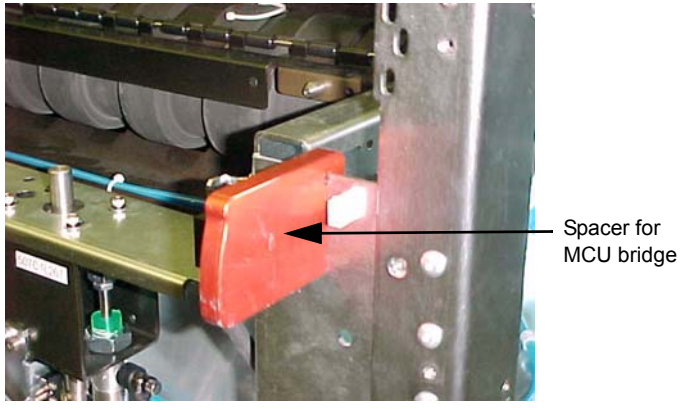


Figure 44. Lotem / MCU distance jig

When connecting the MCU to a Lotem 850 Quantum, use the jig shown in *Figure 45. on page 65*.

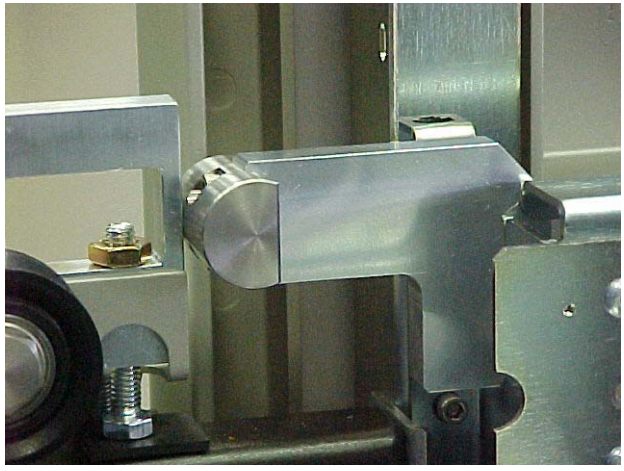


Figure 45. Jig used for Lotem 850 Quantum machines

4. Move the MCU closer to the Lotem (there should be approx. 1m between the Lotem and the MCU).
5. Place the tunnel on the bridge support assembled on the Lotem.
6. Release (raise to upper position) the Tunnel leveling screws (see *Figure 44. on page 64*).
7. Connect the tunnel to the Lotem using:

   - 2 x 1.4 - 20 x 1” screws 380A09141
   - 2 x 1/4 flat washer 382A16000

Do **not** completely tighten the screws.



Figure 46. Tunnel leveling screw

8. Place the leveling instrument on the top of the right tunnel beam.

Place the square washer, that you dismantled when unpacking the MCU, under the 4 stabalizing legs.



Figure 47. Square washer

9. Level the tunnel by adjusting the rear MCU stabilizing legs. Do the same procedure on the left beam.
10. Level the MCU by adjusting the front MCU stabilizing legs. Check that the MCU is leveled on both axis (front/rear and right/left).
11. Place the right/left jig on the tunnel to adjust the Lotem and MCU, as well as the leveling instrument.
12. After initial leveling of the MCU and tunnel, fine tune the leveling of the tunnel by adjusting the front stabilizing screws.

13. After leveling the tunnel, tighten the locking screws to the tunnel support assembled on the Lotem.
14. Open the service doors underneath the bridge.
15. Route the four (4) cables, which come from the Lotem (see *Preparing the Lotem 800 for Connection to the MCU on page 29*), under the bridge and through the plastic cable protector (203C10685) into the MCU floor via the hole and:
    - Connect the main power cable (504L3D483) to the main connection box on the bottom left side of the MCU (see *Figure 52. on page 70*).
    - Connect the Adaptor cable (504N3E320) to the connection box on the bottom left side of the MCU (see *Figure 52. on page 70*).
    - Connect the RS-232 cable (504L3E325) to the Local motherboard on the bottom right side of the MCU (see *Figure 53. on page 70*).
    - Connect the cassette valve cable (504L3E321) to the connection box on the bottom left side of the MCU (see *Figure 52. on page 70*).

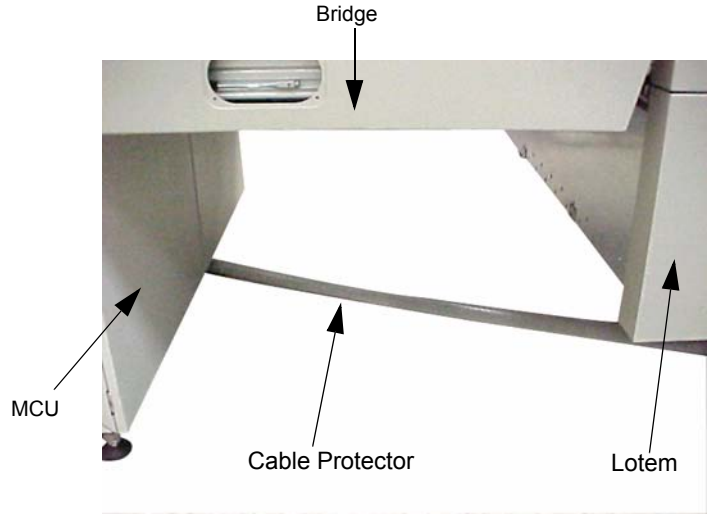


Figure 48. Cable protector

16. Route air pressure hose from platesetter to the MCU using the air splitter system attached to the accessory kit. Connect the air pressure hose to the main plug on the bottom left side of the MCU.

On Lotem machines with **Omron** type interlocks, the MCU connection to the air supply will be from the inside the machine in the air splitter system connection unit and not from the pneumatic control unit (see figure below).



Air splitter for Quantum machine



AIr splitter for FH machine

Figure 49. Air splitters

17. Close the service doors that were opened in step 14.

18. When the elevator is in the down position, use a ruler to measure the MCU diagonally from the two (2) opposite corners. (*see the figure below*). Measure both diagonals. The two measurements should be equal (186-187 mm). If they are not, play with MCU stabilizing legs on the longer side (see *Figure 50. on page 69*).



Figure 50. Diagonal measure

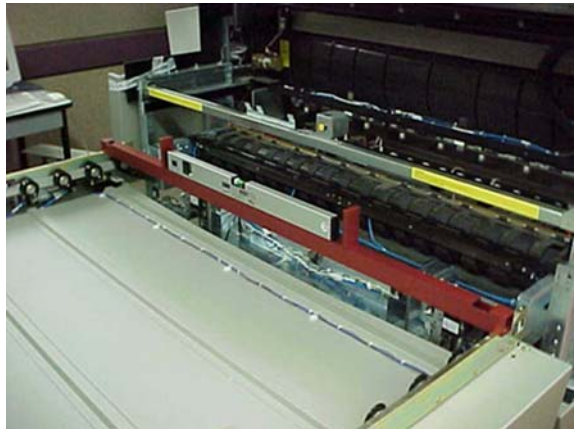


Figure 51. Tunnel level

19. Tighten the MCU stabilization screws with Wrench 30 (291A6B553) after completing leveling.

20. Assemble the upper rear door.
21. Assemble the upper front door.
22. Close the MCU side covers.

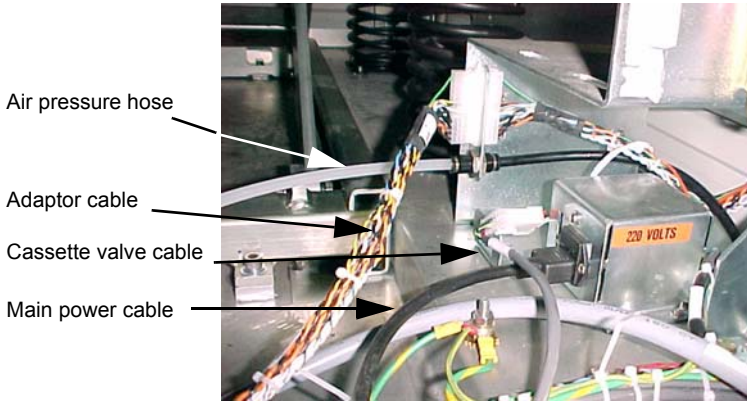


Figure 52. MCU cables



Figure 53. MCU cable

23. Assemble the panels on top of the paper disposal doors that were disassembled in step 3 on page 29.

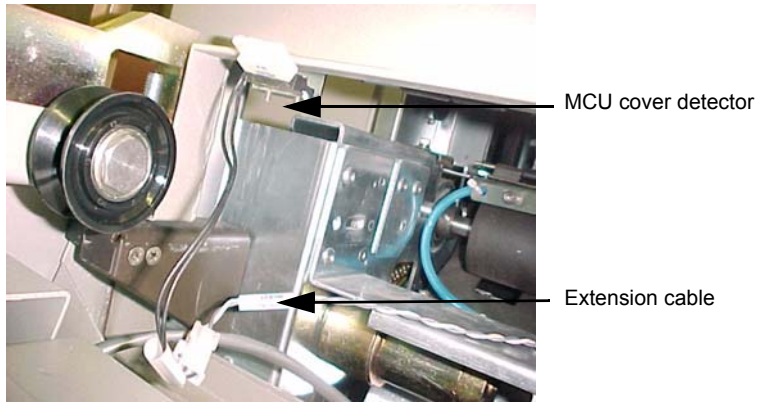


Figure 54. MCU cover detector

24. Assemble the lower panel.

25. Assemble the new cassette opening panel (507F3D665) in place of the panel disassembled in step 4 on page 29.

26. **When installing Kit 510K1P530**: Attach the detector on the cassette opening panel on the left side to the extension harness assembled in step 21.
When installing Kit 510K1R541: Route tthe detector cable from the panel and connect it to the machine harness that was disconnected from the left cassette pin.



Figure 55. New cassette entrance panel

27. Check the tray centering to the Lotem by moving the tray Lotem Lead Assy according to the Cassette Replacement procedure on Tech Planet - http://techplanet.creo.com/output/computer_to_plate/mcu/content/procedures/procedures/cassette.htm.

28. Check the plate centering to the cassette with the pin centering jig - 290B6B229, see the Cassette Replacement procedure on Tech Planet - http://techplanet.creo.com/output/computer_to_plate/mcu/content/procedures/procedures/cassette.htm. .

29. Adjust the tray cylinder EP detector, see the Main Piston Replacement procedure on Tech Planet - http://techplanet.creo.com/output/computer_to_plate/mcu/content/procedures/procedures/main.htm

Software Kit and Software Loading

This appendix describes the Lotem 800 software kit and software loading procedure.

Software Kit

The Lotem 800 and Lotem 800 Quantum Software Installation Kit, 513K3R458, includes:

- Lotem Windows 95 Operating system CD - 501V1R083 version 2.0
- Lotem 800 software CD - 501V3R460
- CS Lotem CPU BIOS version 1.2 (501V1R085)
- Lotem 800/400 Sotware Startup A (501V51692A)

This kit is part of the MCU for Lotem 800 and can be ordered separately for service use.

Important Notes:

1. All the machine parameters are saved on the Machine parameters diskette, and attached to the E-box of every new machine on the production line.
2. You should frequently save the machine parameters onto the diskette.
3. Both the Registry file and the DataBase folder can be saved on the same diskette.
4. In case of System disk crash or Software corruption you will not be able to open the machine doors or backup the parameters. In such an event, proceed with the following instructions:
   - Refer to the Lotem 800 Installation Manual, Chapter 2, Hardware Installation, section 2.5. Removing Shipping Safeguards for instructions on how to manually open the doors.
   - Restore the machine parameters, using the machine parameters saved on the diskette.

- Obtain the IP Address from the System administrator or from the Brisque Scismit.

Software Installation Procedure

Prior to software loading:

1. Save the Registry file onto floppy diskette (section A.2.1 Save Registry File).
2. Save the DataBase folder onto floppy diskette (section A.2.2 Save DataBase Folder).
3. Write down the IP address of the PC controller (section A.2.3 Write Down the PC Controller IP Address).

Software loading :

1. Load the automatic BIOS 1.2 diskette.
2. Load the Lotem Windows 95 Operating system version 2.0 together with the Startup diskette.
3. Load the Lotem 800 and Lotem 800 Quantum application and diagnostics - 501V3R460.

After software installation:

1. Restore the DataBase folder from the floppy diskette (Restore the DataBase Folder section).

The above steps are detailed below.

Save Registry File (Backup Only)

1. Power on the Lotem 800.
2. Open the right side door of the Lotem 800.
3. Insert a formatted write-enable diskette into the floppy diskette drive.
4. On your PC computer, click **Start** and select **Run** from the pop-up menu.
5. Type **regedit** in the Run window and click **OK**.
6. Select **HKEY_LOCAL_MACHINE, SOFTWARE, Scitex, Projects, LOTEM800V**.
7. Select Registry from the Main menu.
8. Select **Export Registry file**.
9. Select (A:) floppy from the Save in window. Enter a logical file name xxx.reg. and then save the registry file.
10. Select **Registry** from the Main menu.
11. Select **Exit**.
12. Leave the diskette in the diskette drive and proceed to the next section for saving the DataBase.

Save DataBase Folder

1. On your PC computer, click **Start** and select Programs from pop-up menu.
2. Select **Windows Explorer**.
3. Select the **C drive -> Lotem folder -> DataBase** (DataBase is highlighted).
4. From the Edit menu, select **Copy**.
5. Select **(A:) floppy**. From the **Edit** menu, paste the **DataBase** folder into the diskette (alternatively, use the Drag & Drop option).
6. From the **File** menu, select **Close**.
7. Remove the diskette from the diskette drive.

Write Down the PC Controller IP Address

1. On your PC computer, click **Start** and select **Settings -> Control Panel**.
2. In the Control Panel window, select **Network**.
3. From the Network window, select **Protocols -> TCP/IP address**.
4. Write down the **IP Address**.
5. Click **OK** twice and exit the Control Panel.

Loading Lotem WIndows 95 Operating System 2.00 - 501V1R083

Please use the following procedure in order to load the Windows 95 software and all the necessary drivers.

1. Turn on the Lotem 800 to enable opening the CD drive.
2. Insert the Software startup 1.00 diskette into the diskette drive; insert the Operating system 1.00 CD into the CD drive.
3. Press **<Ctrl> + <Alt> + <Del>** to start up the Lotem 800. Press **<Delete>** to enter the BIOS Setup screen.
4. Select **Default** screen - Original, and click **No** in response to the Restore Old Values? prompt.
5. Select Setup screen - Advance, and change the Boot Up Sequence to A, C, CDROM.
6. Press **Esc** (twice) to exit; select **Save Changes** and **Exit**.
7. The system will boot from the Software startup diskette.
8. Select **Option A** from the screen.
9. At the prompt Are you sure you want to continue? click **Yes** (estimated loading time 5 minutes).
10. Upon completion, remove the software startup diskette from the diskette drive and the Operating system CD from the CD drive.
11. Press **<Ctrl> + <Alt> + <Del>** to start up the Lotem 800. Make sure that the Windows 95 software is running.

12. Define the PC controller IP address (refer to section A.2.3 Write Down the PC Controller IP Address).
13. You are now ready to load the Creo application. Proceed to next section.

Loading Lotem 800 and Lotem 800 Quantum Application and Diagnostics - 501V3R460

Please use the following procedure in order to load the Lotem 800 or Lotem 800 Quantum application software version.

1. Delete the Lotem 800 and the Lotem 800 Diag icons (important when installing only the application software).
2. Insert the Application and Diagnostics software CD into the CD drive.
3. Wait for the Lotem Setup screen.
4. Select **Next** for the Welcome screen.
5. Select **Yes** to confirm the Software License Agreement.
6. Enter the following:
   - Name: Lotem
   - Company: Creo Inc.
   - Serial: (machine serial number)
   - Select **Next**
7. Verify that the destination folder is C:\Lotem and select **Next**.
8. Verify that the Setup type is Typical and select **Next**.
9. Select the Lotem Machine type:
   - Thermal head (Yes/No)
   - Proofing Capability (Yes/No)
   - Loading system (Single or Dual/Multi Cassette).

10. Select the configuration of the Lotem cards:
    - Strobe Card (5/7), MCF Card (Revision A/ Revision C),
    - Screen Processor (VLSI/TSP),
    - Distribution Revision (B/C),
    - Local Board (Local 2/ Local 3),

    If Local 2 was selected right and left revisions of Local 2 (Revision A / Revision B).

    Select **Next**.

11. Select the configurations features unique to Lotem 800:
    - XY System Type (No Stretch / Spring Stretch),
    - Kit for 0.15 Media Thickness (Installed, Not Installed),
    - Punch Revision (Revision A / Revision B).

    Select **Next**.

12. Select **Next** to Start Copying Files (estimated loading time is 5 minutes).
13. Select **Finish** for Setup Complete; the Lotem800V -V2.00 and the Lotem800VDiag-V2.00 icons appear on the Windows 95 screen.
14. Remove the Application and Diagnostics software CD from the CD drive.
15. Proceed with the Restore procedure in the following two sections.
16. If necessary, close the doors and start the Lotem 800 application by double-clicking on the icon.

Restore the Registry File (only when loading previous version)

1. Insert the Machine parameters diskette into the diskette drive.
2. On the PC computer, click **Start** and select **Run** from the pop-up menu. Type **regedit** in the Run window and click **OK**.
3. Select **Registry** from the **Main** menu.
4. Select **Import Registry** file.

5. Select **A: floppy** from the **Look in** pop-up menu.
6. Select the saved registry file (xxx.reg).
7. Select **Open** to load the registry file.
8. Click **OK** in response to the following message: Information in A:\xxx.reg has been successfully entered into the registry.
9. Select **Registry** and **Exit**.
10. Leave the diskette inside the diskette drive and proceed to next procedure: Restore the **DataBase** Folder.

Restore the DataBase Folder

1. Make sure the Machine parameters diskette is in the diskette drive.
2. On your PC computer, click **Start** and select **Program** from pop-up menu.
3. Select **Windows Explorer**.
4. Select and open the C drive.
5. Double-click on **A: floppy**.
6. Drag & drop the DataBase folder from the A: floppy to C:\Lotem folder.
7. Select **Yes to all** to confirm the folder replacement.
8. Select **File -> Close**.
9. Remove the diskette from the floppy drive and attach it to the E-box.

Adding COM6 Manually

1. From the **Start** menu go to **Setting --> Control Pane**l.
2. In the Control Panel select **Add New Hardware**.
3. In the Add New Hardware window, select **No.**
4. Choose **Ports [COM & LPT]**.
5. Form the **Manufacturers** box, select **Standard**.

6. Click **Next**.
7. Click **Finish**. The System Settings window appears asking you to restart your compputer, click **No**.
8. Right-click **My Computer**. Select **System Properties**.
9. Double-click **COM6**. Change the I/O range to 168-16F and select **10** for the IRQ. Click **OK**.
10. Restart windows.
11. Go to **BIOS** , change the **IQR 10** to **ISSA** (default is PCI).