Release Notes (Lite version)

English

Lotem 800 II Family

version **3.80.16**

653-01033A-EN
Internal 739-00127B-EN Rev A

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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	6,541,181
5,247,174	5,508,828	5,696,393	5,966,504	6,130,702	6,283,589	6,545,772
5,249,067	5,509,561	5,699,174	5,969,872	6,134,393	6,295,076	6,564,018
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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Introduction

We are pleased to release the latest revision of Lotem 800 II family software. These release notes highlight the changes and improvements made to version 3.80.16. This version supports all Lotem 800 II, Lotem 800 Quantum and Lotem Spectrum platesetters with multi/dual/single cassettes and can be installed over the following previous software versions: 3.51.02, 3.60.09, 3.70.02, 3.72.02, 3.75.01, 3.75.09, and 3.80.12.

What Is in These Release Notes

The release notes include the following sections:

Problems Fixed—lists problems in the previous release of Lotem 800 II Software Version that are now resolved.

New Features—describes new menu commands, options, windows, or dialog boxes that were added to Lotem 800 II Software Version.

Known Problems—lists problems that are not yet resolved.

Prerequisites—lists the mandatory and recommended FCOs that should be performed before this installation.

Installation flowchart- step by step flowchart of the kit installation.

Pre-installation - steps to perform before hardware/software installation.

Installing Software Version 3.80.16—describes how to install software version 3.80.16.

Problems Fixed

This section lists problems that were resolved in the current release of the Lotem 800 II family software.

- When accessing the Drum Motor dialog box to perform different operations (GoSpeed, GoPos etc.), Lotem Controller no longer freezes.
- The *release upper tray* function and button now work when replacing the SLC with a DLC. In addition, an error message is no longer generated, after the cassette has been reconnected to the Lotem in the single/dual cassette system.
- Platesetters without a previous version of the Registry installed, but with Kit 0.15 or any variable punch installed, will no longer have installation problems with this software version.
- The message `Your password will expire in the next xxx days` is no longer generated when the Lotem starts up.
- Diagnostics no longer issue an alarm when the value of the **Strobe 7** parameter is not set to **0**, nor when the **IO Objects\Loader** is not deleted from the hierarchy tree.
- When trying to expose an image, the **5230** error message is no longer generated.
- The **Focus Learn** error message is no longer generated when switching from either, a plate to proof and then back to a plate, or from a proof to a plate and then back to a proof.
- MCU elevator No. 5 cassette now stops at the correct position.
- Previously, when a plate failed to load correctly and the drum performed side to side measurement, the drum would rotate backwards, causing potential damage to both the plate and the platesetter. Now the drum rotates in the loading direction and an incorrectly loaded plate can only cause a fly off.
- Software protectors have been added to the XY system, eliminating the potential of damage when the platesetter operator releases the cassette and the XY system is engaged. (There was a tendency for the operator to forcibly remove the cassette.)
- When a plate is stationary on the conveyor, the message `Please take the plate manually and call the Response Center` is generated.
- The majority of the motors and switches now have software interlock protectors.
- When starting up the PC, or whenever there is a crash or power failure, the status of the XY init and the Drum init detectors are now checked to ensure that the platesetter is correctly initiated.
- All motors and switches now have an appropriate software, low speed protector.

- When the **Release Cassette** button is pressed, a 5 second delay occurs before the pins are elevated. (This resolves the problem whereby the pins moved up and down without a delay.)
- It is now possible to click the **Release Cassette** button to open the pins without first having to insert the DLC. (Previously, in order to change the pin status after a power failure, the operator would use a cheater to simulate a cassette in the platesetter.)
- In earlier versions if the load head grippers were opened, the drum would rotate slightly backwards. This problem has been resolved by introducing a new parameter:
  Path: **IO OBJECTS\Loading System\Load Plate\From drum entry to drum stage**
  Parameter: **enable drum power during stage C (0=No power 1=Intermittent 2=Always)** (default=1).
- Previously, 0.15mm plates collided with the punches. This problem has been resolved by updating the value of the X on wheel parameter to 307.
  Path: **Loading system\Load plate\from punch entry to drum entry stage**
  Parameter: **X on wheel**
- The unload conveyor no longer stops prematurely when a small plate is being unloaded. This problem was resolved by increasing the default value to 7000 ms
  Path: **IO OBJECTS\Loading System\Unload Plate**
  Parameter: **Plate TimeOut to Get Out From The Conveyor** [MSec].
- Previously, if the main air valve detector was active for more than 17,000 milliseconds, the `Main air valve detector is missing or the detector is in an invalid state` message was generated. This problem has been fixed by raising the value to 4294967295 milliseconds
  Path: **IO OBJECTS\LOADER\SOLENOIDS\Main Air Valv**e
  Parameter: **Max. Allowed Sol Activation Time(DWORD) [Sec]**.
- The tray recovery method has been improved in cases when the MCU fails and the tray stays on the MCU tunnel. On first operation after every failure, the cassette will now be pushed back into the Lotem platesetter.

New Features

This section lists new features added to this software release.

Fly Off Detection Options

A new Registry parameter has been created:

Path: **Loading System\Load Plate\From drum entry to drum stage**

Parameter: **enable drum power during stage C**

This parameter offers the operator a choice of three *fly off detection* options:

- If the parameter is set to **0 - No power**: Loading sequence will not check the side-to-side measurement.
- If the parameter is set to **1 - Intermittent** (default): Loading sequence will only check the side-to-side measurement of the first load per each new plate type.
- If the parameter is set to **2 - Always**: Loading sequence will always check the side-to-side measurement.

Note: The platesetter's throughput is slower when the parameter is set to 2.

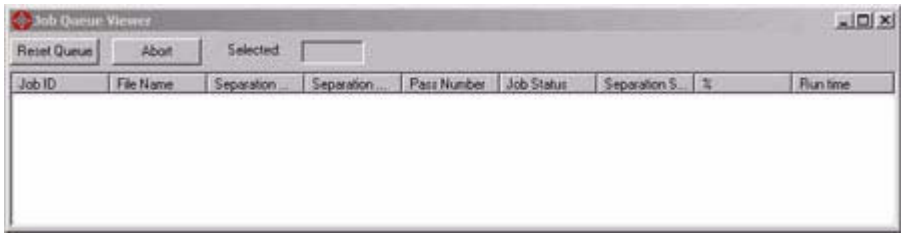
Punch Detectors 9 and 10 are Automatically Disabled

When Kit 0.15 is installed, the punch detectors 9 and 10 are disabled by default.

Job Queue Viewer

A Job Queue Viewer dialog box has been added to Lotem Controller. This feature enables the operator to remotely view the workstation's queued jobs.

In the Lotem GUI select **Utilities and Log Files**.



Amended Drum Rotation Speed for Remote Sessions

Previously, when the platesetter doors were open during a remote session, the drum would rotate at a maximum of 20 rpm. To prevent the need for a low speed detector, the rotation speed has been increased to 35 rpm. If the doors are closed during a remote session, the drum rotation speed is limited only by the platesetter's capabilities.

Enabling Edge Detection and Spiral Punch Options

In the Media Definition/Advanced settings, it is now possible to choose between the edge detection or spiral punch option.

Lotem 800 II Quantum Diagnostics

The Lotem 800 II Quantum diagnostics for software version 3.80.16, include a new suite of diagnostic tools with enhanced capabilities. There are three diagnostic modes:

- JOIND Diagnostic from the Desktop - can be used when Lotem Controller is down.
- JOIND Diagnostic from the Lotem Controller - can be used from within Lotem Controller, without having to close the application.
- Diagnostic from the Lotem Controller Hardware Tree (Right Click) - can be used to test specific components without launching the JOIND.

The following new components are covered by the diagnostics (JOIND mode only):

- Proof system
- GTO arm
- Conveyor unit
- Phase monitor unit
- Multi-cassette unit

For a more detailed description of diagnostics, see Diagnostics for the Lotem 800 II Quantum, running s/w version 3.80.xx

New Interlock View

The interlock display has been redesigned. The interlocks are now logically divided between motor interlocks and laser interlocks.
The Open Interlock dialog box automatically opens when an interlock is open.





To open or close the Open Interlock dialog box, click on the **padlock** icon (located in the Main window):

Improved Centering Process

The centering process has been improved. If Lotem Controller discovers a discrepancy between the actual size of the plate and the plate's measurements entered into the media and data base definition, it will recheck the measurements according to the parameter:
Path: **IO OBJECTS\Loading System\Loading System Setup**
Parameter: **Max Centering Retrys** (default = 3)

An error message is displayed if the discrepancy persists.

Note: After installing this software upgrade, the Improved Centering Process feature, requires that the **Virtual HP App Value,** is readjusted.

Enhanced Remote Support

Remote connectivity has been improved from previous versions.

The Creo Service Port (CSP) is a software package which enables improved support from the Response Center when connecting through the RSS/Service Wire. A new and faster VNC enables better connectivity when remotely controlling the platesetter's Desktop. See *Appendix F: Remote Support*, page 28.

User Level Access

This version enables three user levels: *User*, *Field Engineer* and *Expert*. The passwords for each level are as follows:

- User: aaa
- Field Engineer: creo
- Expert: creopro (shortcut: Ctrl+U)

Backup and Restore Utility

The Backup and Restore utility has an improved interface. In addition, a plate counter and an FCO tracking method have been incorporated into the utility. The backup tools now has a feature that enables backup restoration to be performed from a diskette.

Improved UDRC and Vacuum Pump Reliability

The UDRC and the vacuum pump reliability has been improved by extending their working time after each exposure. This minimizes the number of shutdowns and restarts. In addition, the software engineer can customize the length of the time-out according to the customer's requirements but not less than 150000.

Path: **IO OBJECTS\Loading System**
Parameter: **Timeout For Shutdown Vacuum Pumps mSec** (default is 300000 m Sec)

Known Problems

This section lists known problems in the Lotem 800 II software. The problems may be outstanding issues from a previous release or new problems. When a problem is resolved, the solution appears in next version of the release notes, under the *Problems Fixed* section

Microsoft Visual Basic Error Message

The **Debug Assertion Failed!** error message is generated if the cassette is released, and then reinserted within 7 seconds. To dismiss this error message, click **Ignore** and continue working.

P33 Thermistor Detector

The MCE board does not read the P33 thermistor detector (**AI_EngineTemp**).
If the **AI_EngineTemp** thermistor detector does not exist, then bypass it as described below:
In Service Shell, type the following:
`Quantum>>`**scan groups**, and then navigate to **AI_EngineTemp**.
The letter **b** should be displayed next to the detector's name. This informs the MCE that the detector has not been bypassed.
To bypass the detector, type the following:
`Quantum>>`**scan AI_EngineTemp bon**
`Quantum>>`**reset**
`Quantum>>`**scan groups**. The letters **xb** should be displayed adjacent to the **AI_EngineTemp** line.

MCU Cover Detector

If you upgrade from any previous version of Lotem Controller, *except* versions 3.75.01 and 3.75.09, you may need to manually change the cover detector's value from 1 to **0**. This will change the detector's status from opened to **closed**.

Unload Conveyor Motor

After upgrading to software version 3.80.16, there is a possibility that the unload conveyor motor will rotate in reverse when a plate is unloaded. To solve this problem, change the value of the speed factor parameter from either negative (-) to positive (+) or from positive (+) to negative (-)
Path: **IO OBJECTS\LOCAL 3\DC MOTORS\Unload Conveyor Motor**
Parameter: **Speed Factor** (default = -0.08)

Upgrading Software When MCU Tray is Inside the Lotem

If the MCU tray is inside the Lotem during the software upgrade, the cassette number displayed in the cassette dialog will be **NONE**. However, the first time the loading process is run, the cassette number will be automatically updated .

Prerequisites

The Lotem Controller version 3.80.16 applies to:

- Lotem 800 with Win 95 versions 3.51.02, 3.60.09, 3.70.02 and 3.72.02
- Lotem 800 with Win 2K versions: 3.75.01, 3.75.09 and 3.80.12

Note: Upgrade from 3.80.12 to 3.80.16: Refer to *Install Lotem controller version 3.80.16*, page 14.

Note: Other versions of Lotem software cannot be upgraded directly. For example, if software version 3.50.05 needs to be upgraded for the MCU as well as version 3.80.16, the MCU must first be upgraded to version 3.60.09, followed by the software version 3.80.16 upgrade.

Workstation

- Brisque version 4.1.70 OutPut update 5 (or higher).
- CS Xpose 2.00.064 Update 2 or higher. For more details, see the CS Xpose Update procedure.

Mandatory FCOs

The following FCOs must be implemented:

- FCO 514-00033A (20/40 GB Hard Drive Field Installation Kit): Short flat cable (p/n 220-00135A) in the E-box.
- FCO 512-00269A: Shifting the Lotem to network connection.
- FCO 512-00470: Carriage amplifier board replacement.
- FCO 512-03285A: Resolving 'Local3 does not respond' error message.
- FCO 512-00207A: Replacing the plate/paper detector (not for Spectrum machines).

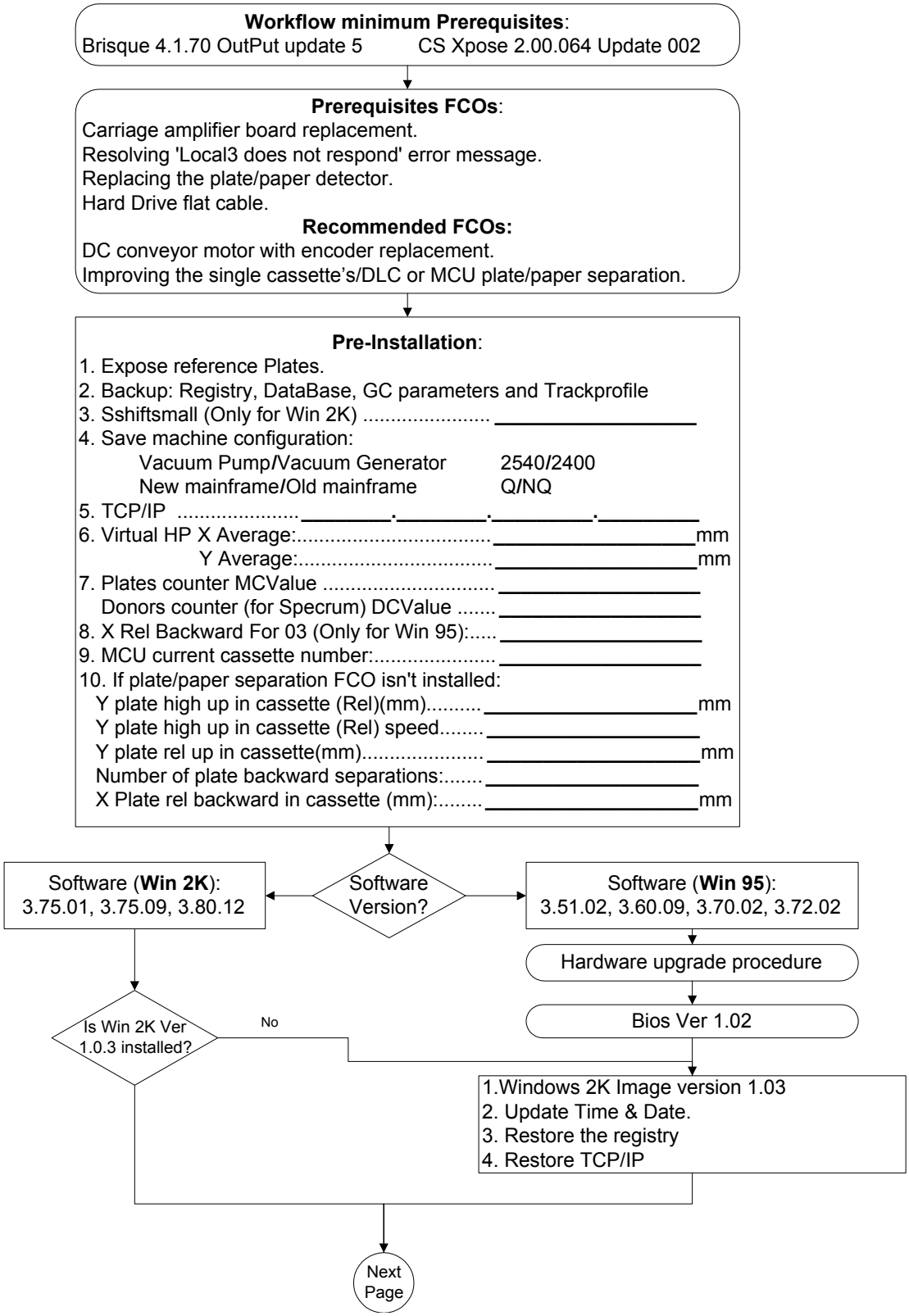
Recommended FCOs

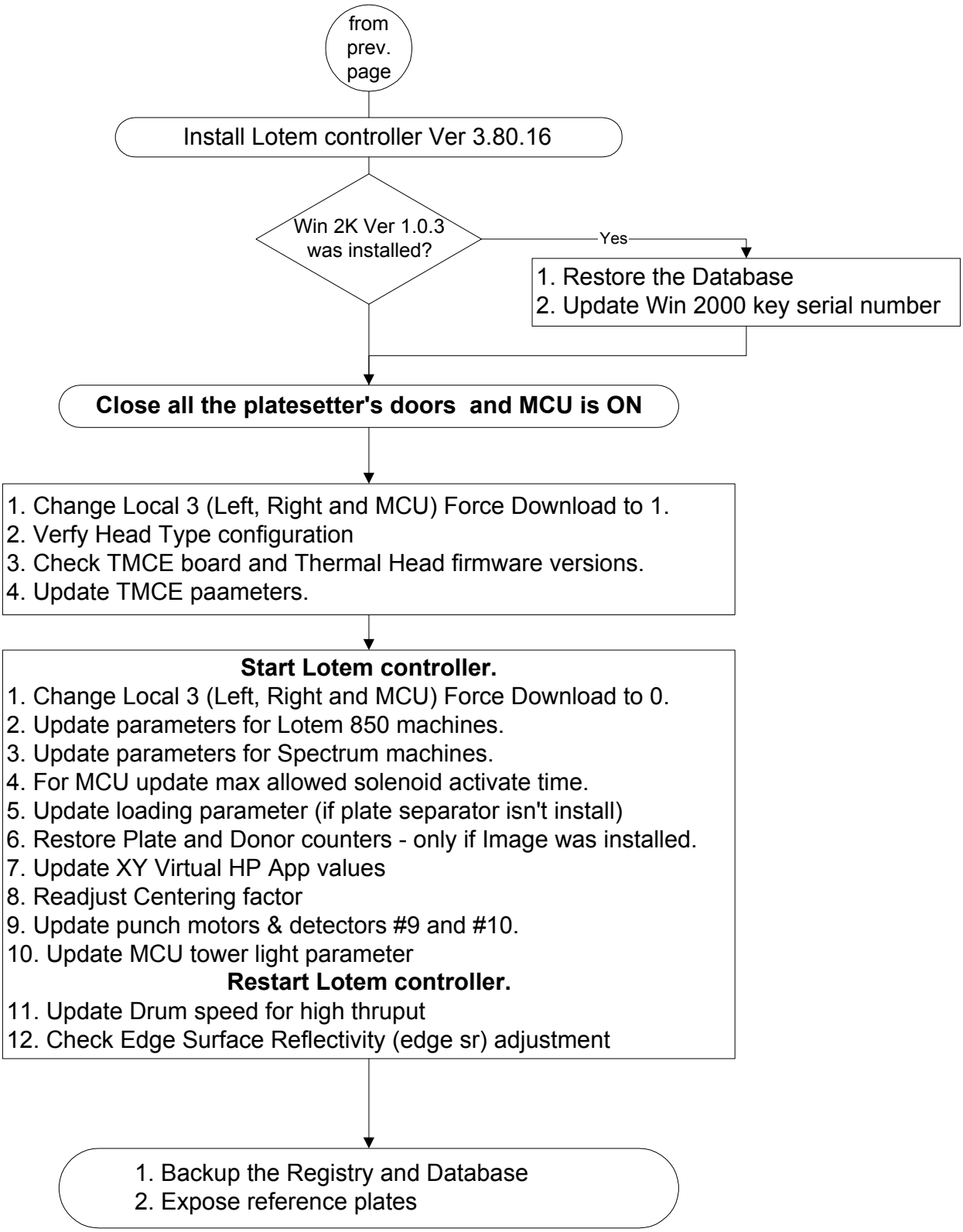
It is recommended to implement the following FCOs:

- FCO 512-00044: DC conveyor motor with encoder replacement.
- FCO 512-00181A: Improving the dual-loading cassette's plate/paper separation.
- FCO 512-00182A: Improving the single-loading cassette's plate/paper separation.
- FCO 512-00183A: Improving the multi-cassette unit's plate/paper separation.

Note: This software version updates the existing loading parameters to meet with the recommended FCOs. Therefore, if you have not installed the recommended FCOs (512-00181/2/3A), you will have to restore some loading parameters back to their previous values.

Installation flowchart




from prev. page
Install Lotem controller Ver 3.80.16
Win 2K Ver 1.0.3 was installed?
Yes
1. Restore the Database
2. Update Win 2000 key serial number
Close all the platesetter's doors and MCU is ON
1. Change Local 3 (Left, Right and MCU) Force Download to 1.
2. Verfy Head Type configuration
3. Check TMCE board and Thermal Head firmware versions.
4. Update TMCE paameters.
Start Lotem controller.
1. Change Local 3 (Left, Right and MCU) Force Download to 0.
2. Update parameters for Lotem 850 machines.
3. Update parameters for Spectrum machines.
4. For MCU update max allowed solenoid activate time.
5. Update loading parameter (if plate separator isn't install)
6. Restore Plate and Donor counters - only if Image was installed.
7. Update XY Virtual HP App values
8. Readjust Centering factor
9. Update punch motors & detectors #9 and #10.
10. Update MCU tower light parameter
Restart Lotem controller.
11. Update Drum speed for high thruput
12. Check Edge Surface Reflectivity (edge sr) adjustment
1. Backup the Registry and Database
2. Expose reference plates

Pre-installation

Important: The Pre-installation procedures **MUST BE** performed prior to any hardware or software upgrades.

Before installing the hardware and software version 3.80.16, do the following:

1. Expose a reference plate by exposing a customer's file (per plate size). Put the reference plate to one side. If the customer uses a GTO, expose an additional GTO reference plate, as the geometric change (GC) parameters are different for GTO machines.

Note: The reference plate is used for verifying the customer's *cross marks*, *margins*, *shifts* and *image quality,* prior to the software installation and comparing it with the cross marks, margins, shift and image quality, after the installation.

2. Backup/write down the following (use the Backup & Restore Utility if available):
   - Registry of the machine.
   - Database.
   - GC parameter. (**set gc**)
   - Trackprofile. (**set gc trackprofile**)
   - Sshift and Sshiftsmall (Sshiftsmall is applicable for Win 2K firmware only)
   - Write down the machine configuration:

     X-Y Vacuum Pump/X-Y Vacuum Generator

     Old mainframe/New mainframe.

     Head resolution - 2540/2400

     Head type P22/P33
   - TCP/IP address

   Note: GC, Trackprofile & Sshiftsmall can be backed up as text file for later use.

3. Perform steps 1 and 2 of procedure on *Appendix H: Updating Centering, X and Y motors values*, page 36, and write down the calculated HP average measurement of X and Y motors.
4. Write down the following Registry parameters:
   a. Navigate to **HKey_Local_Machine/Software/MCkey** and copy:
   MCValue = Plates
   DCValue = Donors (only applicable to the Lotem Quantum Spectrum)

b. Navigate to **Loading System/Load plate/From cassette to punch entry stage/** and write down the parameter: **X Rel Backward For 03 (mm)**. If they exist, write down the parameters for **0.15**, **0.2**, and **0.4**.

c. For MCU configuration: write down the current cassette number in the Lotem.

d. If Plate separation FCO is not installed, navigate to: **Loading system\ load plate\from cassette to punch entry stage** and write down the following parameters:

- **Y plate high up in cassette (Rel)(mm)**
- **Y plate high up in cassette (Rel) speed**
- **Y plate rel up in cassette (mm)**
- **Number of plate backward separations**
- **X Plate rel backward in cassette (mm)**

5. If required, open the right side door of the platesetter.
6. Close Lotem Controller and the Service Shell client.

Installing Software Version 3.80.16

To upgrade from Lotem Controller software versions (Windows 95) 3.51.02, 3.60.09, 3.70.02, and 3.72.02, install the hardware kit located in *Appendix G: Hardware Upgrade Kit Appendix G: Hardware Upgrade Kit*, page 30 and then proceed from here.

To upgrade from Lotem Controller software versions (Win 2000) 3.75.01, 3.75.09 and 3.80.12, to version 3.80.16, follow these release notes without upgrading the hardware, as these three versions are already running on Microsoft Windows 2000 with an up-to-date image version.



Note: To verify if Win 2000 Ver 1.03 has correctly loaded, navigate to **Run** and type: **cd_ver**. Make sure that **1.0.3 8/9/04** is displayed and proceed to **Install Lotem version 3.80.16** below.

If another version of Windows is installed, proceed to *Install Windows 2000 Ver 1.03*, page 14.

Install BIOS version1.02 (no need for 3.75.xx or 3.80.12)

1. Insert the BIOS version 1.02 diskette (part number 633-00073C) into the diskette drive.
2. Before Windows starts, press the **F2** key continuously, until the BIOS Setup window appears on the monitor.
3. From **Bios/setup/inside utilities/secure cmos**, change the **secure cmos** status from Enabled to **Disabled**.
4. To save your changes, click **F10**. A prompt message appears. Click **Yes** to confirm the changes and exit the BIOS Setup window.

   The BIOS default setting is automatically uploaded.



Note: Wait for the A prompt to appear on the monitor (this may take a few moments); then remove the BIOS diskette.

When the PC starts up the following message is displayed on the monitor:

```
System BIOS shadowed
System confi data updated - Error
Check date and time setting
F1- resume, F2 - setup
```

If nothing appears when you press any of the keys on the keyboard, check the mouse/keyboard connection - make sure it is secure and properly connected. When the BIOS installation has finished, remove the BIOS diskette from the diskette drive.

From Lotem version 3.75.xx or 3.80.12, continue here:

Install Windows 2000 Ver 1.03

1. Insert **Windows 2000 Image CD version 1.03** (633-00078B) into the CD drive.
2. Restart the platesetter by pressing **Ctrl+Alt+Del** and wait for `F1` to appear on the monitor. Click **F1**. Make sure the choice is set to **1**, and press **Enter**. The image is automatically loaded. After the CD is successfully loaded, remove it from the CD drive.
3. Press **Ctrl+Alt+Del** on your keyboard to restart the system. Wait a few moments for Windows 2000 to load. A time and date error message may appear on the monitor.
4. Set the time and date, then restart the platesetter.

Update settings after the Windows 2K Image is installed

1. Restore the registry from the diskette.
2. Reset the TCP/IP address by doing the following:
   - From the Start menu, select **Settings**.
   - Select **Control Panel**.
   - Double-click on **Network and Dial-up Connections**.
   - Double-click on **Local Area Connections**.
   - Click the **Properties** button.
   - Double-click on **Internet Protocol (TCP/IP)**.
     Or
     Select **Internet Protocol (TCP/IP)** and click the **Properties** button.
   - Select the **Use the following IP address** option button and enter the desired TCP/IP address.
   - Click **OK** and then click **OK** again to exit the window.

Install Lotem controller version 3.80.16

1. Insert **CD 3.80.16** into the CD drive and follow the on screen installation procedures:
   - The **Installation Warning** dialog box appears.
   - Make sure all Windows programs are closed.
   - Click **Next**. The **Welcome - Lotem800 II & IIQuantum Setup** dialog box appears.
   - Click **Next**. The **Lotem800II and IIQuantum Requirements** dialog box appears.
   - Read the product versions and requirements and then click **Next**. The **Question** dialog box appears.
   - Click **Yes**. The **Lotem800II and IIQuantum License Agreement** dialog box appears.

- Click **Yes**. The **Customer Information** dialog box appears.
- Enter your user name (or any other logical name), company name (it is recommended to keep the default 'Creo') and the serial number of the platesetter. Click **Next**.

Note: Enter the serial number as described in the section *How to identify a platesetter's serial number*, page 16.

- The **Choose Installation Folder** dialog box appears.
- Select the destination folder and click **Next**.

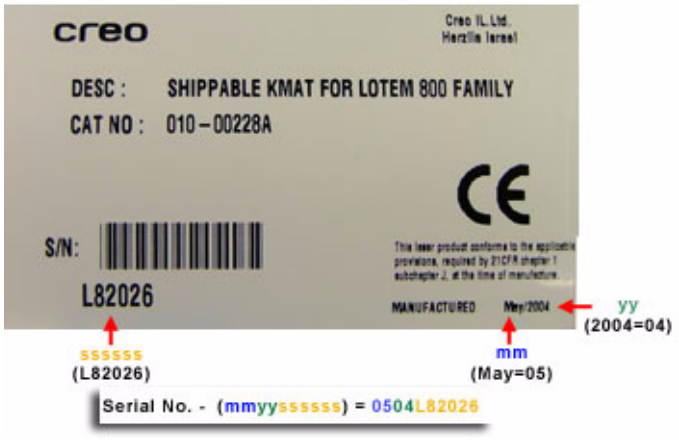
How to identify a platesetter's serial number

An adhesive label is affixed to the lower rear panel of each platesetter. There are two different types of label, depending on the year the platesetter was manufactured.

When installing software version 3.80.16, the first four digits of the Lotem's serial number must be included in the 10-digit access code.



The 10-digit access code (**yywwssssss**) comprises of the following characters:
yy: Represents the year (first two digits)
ww: Represents the week (third set of digits)
ssssss: Represents the serial number (last six digits)
When the serial number only contains five digits, add a **0** to the end of the serial number in order to complete the installation. For example, the serial number 77777 would be entered as 77777**0**



- The **General Machine Configuration** dialog box appears.
- Select the required Proofing Capability, Loading System and Conveyor Type. Click **Next**. The **Setup Type** dialog box appears.

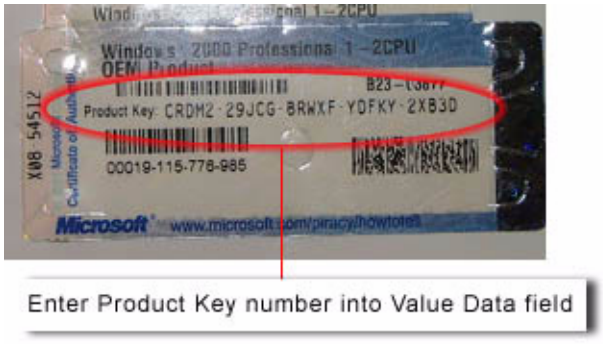
Note: If you have implemented FCO 512-00044, then select a Conveyor Type with a **Variable Speed**, otherwise select **Fixed Speed**.

- Select the required thermal head resolution and click **Next**. The **Configurations Option Selection** dialog box appears.
- Select the required interlock system type and click **Next**. The **Lotem Configuration Option Selection** dialog box appears.
  - Select the required vacuum system type.
  - Select if the **Kit for 0.15 Media Thickness** has been installed.
  - Select whether or not the platesetter is a **MainFrame Type II**.
  - Select whether or not the platesetter is a Lotem 850 and then click **Next**.
- The **Start Copying Files** dialog box appears.
- If you are satisfied with the settings, click **Next**. The **Install Wizard Complete** dialog box appears.
- Check that the information is correct and click **Finish**. The dialog box closes and the software will be installed in the selected destination folder.

Update setting after software installed

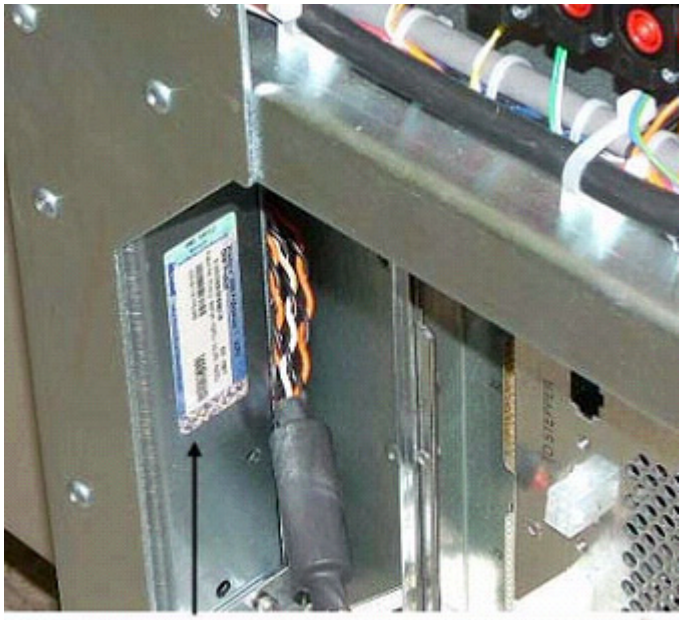
If you upgrade from 3.75.xx or 3.80.12 proceed to *Proceed here for upgrading from 3.75.xx or 3.80.12*, page 18.

1. Restore the database.
2. In the Registry Edit, navigate to the following path: **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\ CurrentVersion\ProductId** and in the **Value Data** field, replace the existing default product key number with the **Product Key** number displayed on the Windows 2000 software kit (included in this upgrade kit):



Note: The Image CD generates a generic product key (51873-270-9224254-09681). Replace the generic product key with the product key displayed on the Windows 2000 software kit.

3. Remove the Product Key sticker from the Windows 2000 software kit package, and affix it to the Lotem mainframe, located beside the E-box.



Proceed here for upgrading from 3.75.xx or 3.80.12

4. Verify all doors are closed, the **MCU 24V is On**.
5. Change the value of Local3 (Left, Right and MCU) from 0 to **1**.

   Path: **IO OBJECTS\LOADER\Loader Local 3 Card**
   IO OBJECTS\LOCAL 3\Left Local Card
   IO OBJECTS\LOCAL 3\Right Local Card

   Parameter: **Force DownLoading [Y=1/N=0]**
6. To verify correct head setting, refer to *Specifying the Head Type procedure* on *Specifying the Head Type for Quantum and non Quantum Platesetters*, page 33.
7. On the Service Shell, type the following:
   `QUANTUM>>`**fw dir**
   `QUANTUM>>th2 "ver"`
   Make sure that this firmware is correct, as described in *Appendix A: Firmware for Version 3.80.16*, page 21.

   Note: To identify the correct firmware versions, navigate to the Tools folder: **C:\TH2\Tools** (The Tools folder contains the firmware files in binary format.)
8. Set other required parameters:
   `QUANTUM>>`**set carriage mspeed 32**
   `QUANTUM>>`**set drum maxacc 11**
   `QUANTUM>>`**set drum tsettle 2**
   `QUANTUM>>`**Sshiftsmall** (Calculate the new value: **Sshift - 500 = Sshiftsmall**)
9. Start the Lotem application.
10. Make sure the platesetter reaches **Ready** mode.

11. Change the value of Local3 (Left, Right and MCU) from 1 to **0**

    Path: **IO OBJECTS\LOADER\Loader Local 3 Card**

    IO OBJECTS\LOCAL 3\Left Local Card

    IO OBJECTS\LOCAL 3\Right Local Card

    Parameter: **Force DownLoading [Y=1/N=0]**

12. For Lotem 850 machines, refer to *Appendix E: Update for Lotem 850 Appendix E: Update for Lotem 850*, page 27.

13. Verify Lotem Quantum Spectrum platesetters are correctly defined, as described in *Appendix D: Required Update for Spectrum platesetters Appendix D: Required Update for Spectrum platesetters*, page 26.

14. Amend the following parameters in the registry:

    - If MCU is installed, verify that the value is **4294967295**
      Path: **IO OBJECTS\LOADER\SOLENOIDS\Main Air Valve**
      Parameter: **max allowed solenoid activate time**

    - If plate separation FCO is not installed, restore the following parameters as saved before the update:
      Path: **IO OBJECTS\Loading System\Load Plate\From Cassette To Punch Entry Stage**
      Parameters:

      Y plate high up in cassette (Rel) speed

      Y plate high up in cassette (Rel)[mm]

      Y plate rell up in cassette(Rel)[mm]

      Number of plate backward separations

      X Plate rell backward in cassette [mm]

15. If the Windows Image was loaded, restore the Plate & Donor counters:
    Path: **HKEY_LOCAL_MACHINE\SOFTWARE\Mckey**
    Parameter(plate counter): **MCValue**
    Parameter (donor counter): **Dckey**

16. Update **X and Y Virtual HP App Value** as described in step 2 of Appendix H.

17. Readjust the **Centering** as in Appendix H.

18. If the platesetter has a 0.15 kit installed, make the following amendments:

    - For **punches #9** and **#10**:

      Path: **IO OBJECTS\LOCAL 3\PUNCH MOTORS\Punch Motor #09**
      IO OBJECTS\LOCAL 3\PUNCH MOTORS\Punch Motor #10
      Parameter: **Home Pos Detector** - change to NONE
      Path: **IO OBJECTS\LOCAL 3\DETECTORS\Punch Motor #9 Home Pos. Detector IO OBJECTS\LOCAL 3\DETECTORS\Punch Motor #10 Home Pos. Detector**
      Parameter: **Open** - change to **1**

    - To solve collision of X with punch
      Path: Loading system\Load plate\from punch entry to drum entry stage
      Parameter: **X on wheel** - change to **307**.

19. If an MCU does not have a tower light installed, navigate to:
    Path: **IO OBJECTS\LOADER\DC MOTORS\Paper Disposal Warning Light Motor**
    Parameter: **Open** - change to **0.**
20. Restart the Lotem Controller.
21. Update drum speed for high throughput. Refer to *Appendix B: Update max drum speed for high throughput*, page 22.
22. In Service Shell, check **Edge Surface Reflectivity (edge sr)** is adjusted.
23. Check Remote Support works correctly:
    - In Lotem Controller, activate the Remote Support. Verify that both Net Meeting and VNC are launched.
    - Ask the Response Center to verify access to the Lotem by testing the following:
      – Remote desktop using Net Meeting
      – Remote desktop using VNC
      – Mapping of Drive C
      – Check SeSh
24. Make sure you have configured the workflow station as described in *Workstation*, page 8.
25. Use the Backup and Restore Utility to backup the registry and database. (Save the backup onto a diskette.)
26. Re-expose the reference plate and compare the results to the reference plate exposed in step 1 of the pre-installation procedures. Compare the quality between the plates and make sure the image quality, image position and image geometric have remained the same. If required, repeat this procedure for the GTO plate.

    Upgrade to 3.80.16 has been completed.